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Final Report Appendices

Nonresidential Downstream Lighting Impact Evaluation Report

Appendices A through J

Prepared for California Public Utilities Commission

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Appendix A

Participant Survey for 2010-2012 CA IOU Nonresidential Downstream Lighting Programs

Participant Survey for 2010-2012 CA IOU
Nonresidential Downstream Lighting Programs

INTRODUCTION AND FINDING CORRECT RESPONDENT

OUTCOME1	This is _____ calling on behalf of the CPUC, from ITRON CONSULTING. THIS IS NOT A SALES CALL NOR A SERVICE CALL. May I please speak with ...<&CONTACT> ... the person at your organization that is most knowledgeable about your participation in <&UTILITY>'s <&PROGRAM> Program. !___[IF NEEDED]...This is a fact-finding survey only, authorized by the California Public Utilities Commission.	
1	Yes (go to next screen)	Continue
2	Make appointment	Make appt and record time
3	Busy/engaged	Record Response and T&T
4	No Answer	Record Response and T&T
5	Refused	Record Response and T&T
6	Disconnected	Record Response and T&T
7	Answering Machine - no message	Record Response and T&T
8	Duplicate	Record Response and T&T
9	DRNA	Record Response and T&T
10	Disability	Record Response and T&T
11-12	Language Barriers	Record Response and T&T
13	Answering Machine - left message	Record Response and T&T
14	NO SCREEN - Participant	Record Response and T&T
15	Hang up	Record Response and T&T
16	Residence	Record Response and T&T

17	Fax	Record Response and T&T
18	Quota full	Record Response and T&T
19	Wrong Address	Record Response and T&T
20	Home office	Record Response and T&T
21	Max attempts	Record Response and T&T
24	General callback	Record Response and T&T
25	Name/Number changed	Record Response and T&T

Thank & Terminate	Thank you for your time and help today. For this study, we need to speak to someone about your organization's installation of energy efficient equipment that your organization installed through <&UTILITY>'s <&PROGRAM> program.	END

Q1B

[IF YOU ARE TRANSFERRED TO ANOTHER PERSON OTHER THAN THE BEST CONTACT]
Who would be the person at this location who is most knowledgeable about this facility's energy using equipment? [ENTER NEW CONTACT NAME AND MOVE ON]

[IF NEEDED] This is not a sales call.

[IF NEEDED] This is a fact-finding survey only, and responses will not be connected with your firm in any way. The California Public Utilities Commission wants to better understand how businesses think about and manage their energy consumption.

77	There is no one here who can help you	Thank & Terminate
1	Continue Q1B until you find appropriate contact person, record as &CONTACT	Intro3:s

Intro3:S

[IF BEST CONTACT IS AVAILABLE]
Hello, my name is <INTERVIEWER NAME> and I am calling on behalf of the California Public Utilities Commission from Itron Consulting. I understand you are the person at your location that is most knowledgeable about this facility's energy using equipment. Is this correct?

1	Current individual is best contact	Person:s
2	Transferred to best contact	Intro3:s
3	Given best contact's name and number	Appoint
5	Property management company handles this	PROP5
99	Don't know/refused	T&T

Ext

Is there a phone extension or phone number you recommend we use when we call back?

77	Record Extension or Phone Number, &PHONE	Thank & Terminate
88	Refused	Thank & Terminate

99	Don't know	Thank & Terminate
PROP5	May I have the name and contact information of your property management company?	
1	Yes - RECORD	Record Response and T&T
2	No	Thank & Terminate
88	Refused	Thank & Terminate
99	Don't Know	Thank & Terminate
Appoint	[IF RECOMMENDED CONTACT IS NOT CURRENTLY AVAILABLE] When would be a good day and time for us to call back?	
77	Record **day** of the week, **time** of day and **date** to call back, as &APPOINT	Record Response and T&T
88	Refused	Intro3(99)
99	Don't know	Intro3(99)
	If Person(3)	
Intro3(99)	Thank you for your time. We need to speak with the person at your organization that is most familiar with this facility's energy using equipment. Those are all of the questions I have for you today.	Abandoned User30
Hi	Who would be the person at this location who is most knowledgeable about this facility's energy using equipment? [Enter technical Contact Name and move on.]	
77	Record Name, as &CONTACT	May_I
88	Refused	Thank & Terminate
99	Don't know	Intro3(99)
May_I	May I speak with him/her?	
77	Yes	Intro3:s
88	No (not available right now@, set cb)	Abandoned Appointment
PERSON:s	Your organization participated in <&UTILITY>'s <&PROGRAM> Program by installing energy saving lighting equipment around ... <&DEEM_PAID_DATE1> <&CUST_PAID_DATE>. Through this program, your organization installed.... <&CUSTOM_MEASURE> <&LTQTY1> ...<&LTMEAS1> <&LTQTY2> ...<&LTMEAS2> <&LTQTY3> ...<&LTMEAS3> Are you the person most knowledgeable about your organization's participation in ...<&UTILITY>'s <&PROGRAM> Program?	
1	Yes	Continue
2	Yes, need to make appointment	Appointment
4	No	Thank & Terminate
99	No one knows about the energy using equipment	Thank & Terminate

If you need to provide validation for this survey you should provide the following website **www.cpuc.ca.gov/eevalidation**

Before we start, I would like to inform you that for quality control purposes, this call may be monitored by my supervisor.

Today we're conducting a very important study on the energy needs and perceptions of organizations like yours. We are interested in how organizations like yours think about and manage their energy consumption.

Your input will allow the California Public Utilities Commission to build and maintain better energy savings programs for customers like you.

This is a fact-finding survey only, and responses will not be connected with your organization in any way.

SCREENER

VERIFY	For verification purposes only, may I please have your name?	
	Get name	Scrn_Addr
88	Refused	Scrn_Addr
99	Don't know	Scrn_Addr
Scrn_Addr	First, I'd like to ask you a few questions about your organization and facility. Our records show your organization is located at &SERV_ADDR in &CITY. Is that correct? [CONTINUE IF ADDRESS REPORTED BY RESPONDENT IS SIMILAR ENOUGH]	
1	Yes	Bus_Name
2	No	CORRECT
88	Refused	COMMENT
99	Don't Know	COMMENT
COMMENT	We were attempting to reach the customer at &ADDRESS and since you cannot confirm this address, those are all the questions that we have for you today, on behalf of the California Public Utilities Commission, thank you for your time.	
CORRECT	May I have your correct address?	
&CORRECT	Corrected Address	COMPARE
COMPARE	Are these addresses similar or totally different? Computer Address - &ADDRESS Corrected Address - &CORRECT	
1	Similar	Bus_Name
2	Totally Different	COMMENT2
COMMENT2	We were attempting to reach the <&UTILITY> customer at &ADDRESS in &CITY and since that does not match your address, then we must have mis-dialed the telephone number. Those are all the questions that we have for you today, on behalf of the California Public Utilities Commission. Thank you for your time and cooperation.	Thank and Terminate
BUS_NAME	Our records show your organization's name as: &BUSINESS. Is that correct?	
1	Yes	INCENT
2	No	Bus_Correct

88	Refused	COMMENT
99	Don't Know	COMMENT
BUS_CORRECT	What is the correct name for your organization?	
&BUS_CORRECT	Corrected Business	INCENT
INCENT	What percentage of the cost of your lighting installation was covered by the <&UTILITY>'s <&PROGRAM> program?	
77	RECORD RESPONSE	A1gg
88	REFUSED	FM050
99	DON'T KNOW	FM050
	IF INCENT <> 100 then ask; Else skip to FM050;	
A1gg	What incentive amount did your organization receive from the program towards your lighting installation?	
77	RECORD VERBATIM	FM050
88	Refused	FM050
99	Don't know	FM050
FM050	What is the main business ACTIVITY at this facility? [DO NOT READ]	
1	Offices (non-medical)	FM050a
2	Restaurant/Food Service	FM050b
3	Food Store (grocery/liquor/convenience)	FM050c
4	Agricultural (farms, greenhouses)	FM050d
5	Retail Stores	FM050e
6	Warehouse	FM050f
7	Health Care	FM050g
8	Education	FM050h
9	Lodging (hotel/rooms)	FM050i
10	Public Assembly (church, fitness, theatre, library, museum, convention)	FM050j
11	Services (hair, nail, massage, spa, gas, repair)	FM050k
12	Industrial (food processing plant, manufacturing)	FM050l
13	Laundry (Coin Operated, Commercial Laundry Facility, Dry Cleaner)	FM050m
14	Condo Assoc./Apartment Mgr. (Garden Style, Mobile Home Park, High-rise, Townhouse)	FM050n
15	Public Service (fire/police/postal/military)	FM050o
77	OPEN\Record Other Service Shop	CC2a
88	Refused	CC2a
99	Don't know	CC2a
FM050a	Which of the following types of offices best describes this facility? Would you say...[READ]	
1	Administration and management	CC2a
2	Financial / Legal	CC2a
3	Insurance/Real Estate	CC2a
4	Data Processing/Computer Center	CC2a
5	Mixed-Use/Multi-tenant	CC2a
6	Lab/R&D Facility	CC2a
7	Software Development	CC2a

8	Government Services	CC2a
9	Office with Warehouse	CC2a
10	Contractor's Offices	CC2a
11	Telecommunications Center (call center)	CC2a
12	Travel Services (Travel Agent)	CC2a
77	OPEN\DO NOT USE unless necessary	CC2a
88	Refused	CC2a
99	Don't know	CC2a
FM050b	Which of the following types of restaurants or food service best describes this facility? Would you say… [READ]	
1	Fast Food or Self Service	CC2a
2	Specialty/Novelty Food Service	CC2a
3	Table Service	CC2a
4	Bar/Tavern/Nightclub/Brew Pub or Microbrewery/Other entertainment	CC2a
5	Caterer	CC2a
6	Other Food Service	CC2a
88	Refused	CC2a
99	Don't know	CC2a
FM050c	Which of the following types of food stores best describes this facility? Would you say...[READ]	
1	Supermarkets	CC2a
2	Small General Grocery	CC2a
3	Specialty/Ethnic Grocery/Deli	CC2a
4	Convenience Store	CC2a
5	Liquor Store	CC2a
6	Retail Bakery	CC2a
77	OPEN\DO NOT USE unless necessary	CC2a
88	Refused	CC2a
99	Don't know	CC2a
FM050d	What type of agricultural facility is this? [READ]	
1	Commercial Greenhouse	CC2a
2	Commercial Farm	CC2a
3	Dairy/Ranch	CC2a
4	Vineyard/Orchard	CC2a
5	Agricultural Storage (Grain Elevators, etc.)	CC2a
6	Equine Facility (Horse Boarding/Grooming/Racing/Breeding)	CC2a
77	OPEN\Describe type of agricultural facility	CC2a
88	Refused	CC2a
99	Don't know	CC2a
FM050e	Which of the following types of retail stores best describes this facility? Would you say… [READ]	
1	Department / Variety Store	CC2a
2	Retail Warehouse/Club	CC2a
3	Shop in Enclosed Mall	CC2a
4	Shop in Strip Mall	CC2a

5	Auto/Truck/Motorcycle Sales	CC2a
6	Art Gallery	CC2a
7	Auction House	CC2a
8	Heavy Equipment Sales	CC2a
9	Facility is a Mall/Strip Mall	CC2a
77	OPEN\DO NOT USE unless necessary	CC2a
88	Refused	CC2a
99	Don't know	CC2a

FM050f Which of the following types of warehouses best describes this facility? Would you say… [READ]

1	Refrigerated Warehouse	CC2a
2	Unconditioned Warehouse, High Bay (lighting higher than 13 ft.)	CC2a
3	Unconditioned Warehouse, Low Bay	CC2a
4	Conditioned Warehouse, High Bay (lighting higher than 13 ft.)	CC2a
5	Conditioned Warehouse, Low Bay	CC2a
6	Shipping/Distribution Center	CC2a
7	Garage/Parking/Storage for Commercial Fleet	CC2a
8	Public Self-Storage Facility	CC2a
77	OPEN\DO NOT USE unless necessary	CC2a
88	Refused	CC2a
99	Don't know	CC2a

FM050g Which of the following types of health care centers best describes this facility? Would you say… [READ]

1	Hospital	CC2a
2	Nursing Home	CC2a
3	Medical/Dental Office	CC2a
4	Clinic/Outpatient Care	CC2a
5	Medical/Dental Lab	CC2a
6	Alcohol/Drug Treatment/Rehabilitation	CC2a
7	Doctor's Office	CC2a
8	Dentist's Office	CC2a
9	Veterinary Hospital/Clinic	CC2a
77	OPEN\DO NOT USE unless necessary	CC2a
88	Refused	CC2a
99	Don't know	CC2a

FM050h Which of the following types of educational centers best describes this facility? Would you say… [READ]

1	Daycare or Preschool	CC2a
2	Elementary School	CC2a
3	Middle / Secondary School	CC2a
4	College or University	CC2a
5	Vocational or Trade School	CC2a
6	Instructional Studio (Dance/Music/Martial Arts)	CC2a
77	OPEN\DO NOT USE unless necessary	CC2a
88	Refused	CC2a
99	Don't know	CC2a

FM050i Which of the following types of lodging best describes this facility? Would you say… [READ]

1	Hotel	CC2a
2	Motel	CC2a
3	Resort	CC2a
4	Bed and Breakfast	CC2a
5	Campground/Trailer Camping/KOA	CC2a
6	Residential Hotel/Motel	CC2a
7	Dormitory/Sorority/Fraternity	CC2a
8	Activity Camp/Summer Campy	CC2a
77	OPEN\DO NOT USE unless necessary	CC2a
88	Refused	CC2a
99	Don't know	CC2a

FM050j Which of the following types of public assembly buildings best describes this facility? Would you say… [READ]

1	Religious Assembly (worship only)	CC2a
2	Religious Assembly (mixed use)	CC2a
3	Health/Fitness Center/Athletic Center/Gym	CC2a
4	Movie Theaters	CC2a
5	Theater / Performing Arts Venue	CC2a
6	Library / Museum	CC2a
7	Conference/Convention Center	CC2a
8	Community Center / Activity Center	CC2a
9	Country Club	CC2a
77	OPEN\DO NOT USE unless necessary	CC2a
88	Refused	CC2a
99	Don't know	CC2a

FM050k Which of the following types of service buildings best describes this facility? Would you say...[READ]

1	Hair Salon	CC2a
2	Nail Salon	CC2a
3	Massage Spa	CC2a
4	Day Spa	CC2a
5	Gas Station / Auto Repair	CC2a
6	Gas Station w/Convenience Store**	CC2a
7	Repair (Non-Auto)	CC2a
8	Copy Center / Printing,	CC2a
9	Package Delivery (Fed Ex / UPS / DHL),	CC2a
10	HVAC Repair Installation,	CC2a
11	Aircraft Maintenance / Repair	CC2a
12	Airport	CC2a
13	Parking Lot / Commuter Service	CC2a
14	Marina	CC2a
15	Amusement (mini-golf/go@-carts/skating/bowling)	CC2a
16	Pet Care / Grooming,	CC2a
17	Car Rental	CC2a

18	Car Wash	CC2a
19	Cemetery / Mortuary / Crematorium	CC2a
20	Equipment Rental	CC2a
21	Fleet Fueling Services	CC2a
22	Pest Control	CC2a
23	Photographer	CC2a
24	Vehicle Inspections	CC2a
25	Transportation	CC2a
26	Upholstery	CC2a
77	OPEN\DO NOT USE unless necessary	CC2a
88	Refused	CC2a
99	Don't know	CC2a

FM050l Which of the following types of buildings best describes this facility? Would you say...[READ]

1	Assembly / Light Manufacturing	CC2a
2	Food Processing Plant	CC2a
3	Recycling Center	CC2a
4	Commercial/Industrial Bakery	CC2a
5	Commercial Brewery / Winery	CC2a
6	Chemical / Petrochemical Production	CC2a
7	Industrial Process	CC2a
8	Radio / Television / Film / Music Production	CC2a
9	Energy Generation / Distribution	CC2a
10	Machine Shop	CC2a
11	Pharmaceutical Production/Manufacturing	CC2a
12	Mail Sorting	CC2a
13	Mining	CC2a
77	OPEN\DO NOT USE unless necessary	CC2a
88	Refused	CC2a
99	Don't know	CC2a

FM050m What type of laundry facility is this? [READ]

1	Coin Operated	CC2a
2	Commercial Laundry Facility	CC2a
3	Dry Cleaners	CC2a
77	OPEN\Record other building type	CC2a
88	Refused	CC2a
99	Don't know	CC2a

FM050n Which of the following types of buildings best describes this facility? Would you say...[READ]

1	Garden Style	CC2a
2	Mobile Home	CC2a
3	High-rise	CC2a
4	Townhouse	CC2a
5	Condominium	CC2a
6	Apartment	CC2a
7	Artists' Studio/Live Work/Loft	CC2a

8	Assisted Living	CC2a
77	OPEN\Record other building type	CC2a
88	Refused	CC2a
99	Don't know	CC2a

FM050o Which of the following types of buildings best describes this facility? Would you say...[READ]

1	Police station	CC2a
2	Fire station	CC2a
3	Post office	CC2a
4	Military	CC2a
5	Ambulance Service	CC2a
6	Jail/Correctional facility	CC2a
7	Courthouse	CC2a
8	Library	CC2a
9	Water/Waste Water Treatment	CC2a
10	General Government (Municipal/State/Federal Agency Buildings)	CC2a
11	Public Park	CC2a
77	OPEN\Record other building type	CC2a
88	Refused	CC2a
99	Don't know	CC2a

CUSTOMER CHARACTERISTICS

Now, I'd like to ask you questions regarding your facility.

CC2a What is the total square footage at this facility?

77	RECORD Square feet	CC2c
888888	Refused	CC3
999999	Don't know	CC3

IF CC2a IN (88, 99)

CC3 Would you say that the floor area is ...?

1	less than 1,500 sq. ft.	CC2c
2	1,500 - 5,000 sq. ft.	CC2c
3	5,000 - 10,000 sq. ft.	CC2c
4	10,000 – 25,000 sq. ft.	CC2c
5	25,000 – 50,000 sq. ft.	CC2c
6	50,000 – 75,000 sq. ft.	CC2c
7	75,000 – 100,000 sq. ft.	CC2c
8	over 100,000 sq. ft. (ag area)	CC2c
88	Refused	CC2c
99	Don't know	CC2c

CC2c Is the entire floor area of this facility heated or cooled?

1	Yes	CC3a
2	No	CC2d
88	Refused	C0
99	Don't know	C0

CC2d What percentage of this facilities total floor area is heated or cooled floor?

77	Percent	CC3a

101	Refused	C0
102	Don't know	C0

If CC2D > 0 or CC2C = 1; Else skip to C0

CC3a Is your space heated using electricity or gas?

1	Electricity	C0
2	Gas	C0
3	Both electricity and gas	C0
4	Propane	C0
5	None	C0
77	OPEN\Other-record	C0
88	Refused	C0
99	Don't know	C0

C0 About what percentage of your operating costs does energy account for?

1	Less than 1 percent	CC4
2	1-2 percent	CC4
3	3-5 percent	CC4
4	6-10 percent	CC4
5	11-15 percent	CC4
6	16-20 percent	CC4
7	21-50 percent	CC4
8	Over 51 percent	CC4
88	Refused	CC4
99	Don't Know	CC4

CC4 Does your organization own, lease or manage the facility?

1	Own	C5
2	Lease/Rent	C5
3	Manage	C5
88	Refused	C5
99	Don't know	C5

C5 How many locations does your organization have? Is it....

1	This facility only	CC6
2	2 to 4 locations	CC6
3	5 to 10 locations	CC6
4	11 to 25 locations	CC6
5	more than 25 locations	CC6
88	Don't know	CC6
99	Refused	CC6

ASK ALL

CC6 How active a role does your business take in making lighting purchase decisions at this facility? Would you say you are…

1	Very active – involved in all phases and have veto power	CC8
2	Somewhat active – we approve decisions and provide some input and review	CC8
3	Slightly active – we have a voice but it's not the dominant voice	CC8
4	Not active at all – we're part of a larger organization	CC8

5	Or, not active at all – our firm doesn't get involved in these issues	CC8
88	Refused	CC8
99	Don't know	CC8

CC8 In what year was the facility built?

&YRB	Year	CC11
8888	Refused	CC10
9999	Don't know	CC10

If CC8 in (88, 99) then Ask; Else skip to CC11;

CC10 If don't know, would you say it was…

1	After 2000	CC11
2	In the 1990's	CC11
3	1980s	CC11
4	1970s	CC11
5	1960s	CC11
6	1950	CC11
7	Before 1950	CC11
88	Refused	CC11
99	Don't know	CC11

CC11 In what year was this facility last remodeled? [PROBE FOR BEST GUESS]

&YRB	Year	CC12a
6666	Never Remodeled	CC12a
8888	Refused	CC11a
9999	Don't know	CC11a

Ask if CC11 in (88, 99); Else skip to CC12a;

CC11a Would you say the last remodeling was done …. [READ RESPONSES.]

1	Between 2008 and Present	CC12a
2	Between the years 2000 and 2007	CC12a
3	During the 1990s	CC12a
4	Before the 1990s	CC12a
88	Refused	CC12a
99	Don't know	CC12a

CC12a In what year was this organization established at this location?

&YRB	Year	CC13
8888	Refused	CC12b
9999	Don't know	CC12b

If CC12a in (88, 99) then ask; else skip to BC090;

CC12b Would you say it was…

1	After 2005	BC090
2	Between 2000 and 2005	BC090
3	In the 1990s	BC090
4	In the 1980s	BC090
5	In the 1970s	BC090
6	In the 1960s or	BC090
7	Before 1960	BC090

88	Don't know	BC090
99	Refused	BC090

ADDITIONAL FACILITY CHARACTERISTICS

BC090	Has the square footage of the facility increased, decreased or remained the same since January 2009?	
1	Increase in square footage	BC100
2	Decrease in square footage	BC110
3	Stayed the same	CA15
88	Refused	CA15
99	Don't know	CA15
	If BC090 = 1 then ask; Else skip to BC110;	
BC100	How many square feet were added?	
&SQFTA	Square feet	BC120
88	Refused	BC120
99	Don't know	BC120
	If BC090 = 2 then ask; Else skip to BC120;	
BC110	By how many square feet was the facility reduced?	
&SQFTR	Square feet	BC120
88	Refused	BC120
99	Don't know	BC120
	If BC090 in (1, 2) then ask; else skip to CA15;	
BC120	In what year did this change occur? IF DON'T KNOW, ASK FOR BEST GUESS	
1	2008	CA15
2	2009	CA15
3	2010	CA15
4	2011	CA15
5	2012	CA15
88	Refused	CA15
99	Don't know	CA15
CA15	Over the past 3 years, how would you characterize your organization's business outlook? Would you say it was …	
1	Excellent	CA15A
2	Good	CA15A
3	Fair	CA15A
4	Adequate	CA15A
5	Poor	CA15A
88	Refused	CA15A
99	Don't know	CA15A
CA15A	Projecting over the NEXT 3 years, how would you characterize your business outlook? Would you say….	
1	Excellent	FM070
2	Good	FM070
3	Fair	FM070
4	Adequate	FM070
5	Poor	FM070

6	DO NOT READ...going out of business	FM070
88	Refused	FM070
99	Don't know	FM070

FM070 How many people are currently working at the facility, including both full and part time? (IF DON'T KNOW ASK FOR BEST GUESS)

1	Ten or less	FM080
2	Between 11 and 25	FM080
3	26 to 50	FM080
4	51 to 75	FM080
5	76 to 100	FM080
6	101 to 250	FM080
7	251 to 500	FM080
8	501 to 1000	FM080
9	1001 to 2500	FM080
10	2501 to 5000	FM080
11	5000 or more	FM080
88	Refused	FM080
99	Don't know	FM080

FM080 Since January 2009 has the number of people working at this facility changed by more than 10%?

1	Yes	FM081
2	No	PC010
88	Refused	PC010
99	Don't know	PC010

If FM080 = 1 then ask; Else skip to PC010;

FM081 Would these changes have increased or decreased number of employees?

1	Increased number of employees	FM100
2	Decreased number of employees	PC010
88	Refused	FM100
99	Don't know	FM100

If FM081 in (1, 88, 99) then ask; else skip to PC010;

FM100 In 2008 approximately how many people were working at this facility, including both full- or part-time employees? (IF DON'T KNOW ASK FOR BEST GUESS)

&NUM03	Number of people	PC010
888	Refused	PC010
999	Don't know	PC010

PC010 Thinking back to 2008, were any changes made to the facility during 2008 that would change the energy consumption by more than 10%?

1	Yes	PC020
2	No	V1
88	Refused	V1
99	Don't know	V1

If PC010 = 1 then ask; Else skip to V1;

PC020 Would these changes have increased or decreased consumption?

1	Increased	V1
2	Decreased	V1
88	Refused	V1
99	Don't know	V1

ROLE OF CONTRACTORS

V1 Did you use a contractor/vendor to install the lighting measures that were installed through the 2010-2012 &PROGRAM Program?

1	Yes	V2
2	No	AP9
88	Refused	AP9
99	[DO NOT READ] Don't know/No Answer	AP9

If V1 = 1 then ask; Else skip to AP9;

V2 How did you come into contact with the contractor/vendor?

1	They contacted you	V2b
2	You contacted them	V3
3	You had worked with them before	V2a
77	OTHER - Record	V3
88	Refused	V3
99	[DO NOT READ] Don't know/No Answer	V3

Ask if V2 = 3; Else skip to V2b

V2a In relation to this project, did the vendor/contractor approach you about your lighting installation?

1	Yes	V2b
2	No	V3
88	Refused	V3
99	[DO NOT READ] Don't know/No Answer	V3

Ask if V2 = 1 or V2a = 1; Else skip to V3

V2b On a scale of 0 - 10, with 0 being NOT AT ALL LIKELY and 10 is VERY LIKELY, how likely is it that your organization would have installed this new lighting equipment had the contractor/vendor not contacted you?

1	0-10 response	V3
88	Refused	V3
99	Don't know/No Answer	V3

V3 Did the contractor/vendor tell you about or recommend the program?

1	Yes	V4
2	No	AP9
88	Refused	AP9
99	Don't know/No Answer	AP9

V4 Prior to coming into contact with the contractor/vendor, did you organization have plans to replace/install lighting equipment?

1	Yes	V4a
2	No	V4a
88	Refused	V4a
99	[DO NOT READ] Don't know/No Answer	V4a

V4a Using the same scale of 0 - 10 as before, how likely is it that your organization would have installed lighting equipment had the contractor/vendor not recommended it?

1	0-10 response	V4b
88	Refused	V4b
99	[DO NOT READ] Don't know/No Answer	V4b

V4b How likely is it that your organization would have installed lighting equipment with the same level of efficiency if the contractor/vendor had not recommended to do so?

1	0-10 response	V40
88	Refused	V40
99	[DO NOT READ] Don't know/No Answer	V40

V40 On a scale of 0 - 10, with 0 being very unlikely and 10 being very likely. How important was the input from the contractor you worked with in deciding which specific equipment to install? Was it …

1	0-10 response	AP9
88	Refused	AP9
99	Don't know	AP9

PROGRAM AWARENESS

Next, I'd like to ask you about various energy efficiency programs and what influenced your program participation.

AP9 How did you FIRST learn about <&UTILITY>'s <&PROGRAM> program? [DO NOT READ]

1	Bill insert	AP9a
2	Program Literature	AP9a
3	Account representative	AP9a
4	Program Approved vendor	AP9a
5	Program representative	AP9a
6	Utility or program website	AP9a
7	Trade publication	AP9a
8	Conference	AP9a
9	Newspaper article	AP9a
10	Word of mouth	AP9a
11	Previous experience with it	AP9a
12	Company used it at other locations	AP9a
13	Contractor	AP9a
14	Result of an audit	AP9a
15	Part of a larger expansion or remodeling effort	AP9a
77	Other (RECORD VERBATIM)	AP9a
88	Refused	A1b
99	Don't know	A1b

If AP9 in (1-77) then ask; Else skip to A1b;

AP9a How ELSE did you learn about &UTILITY's program? [DO NOT READ LIST, ACCEPT MULTIPLES]

1	Bill insert	N33
2	Program Literature	N33
3	Account representative	N33

4	Program Approved vendor	N33
5	Program representative	N33
6	Utility or program website	N33
7	Trade publication	N33
8	Conference	N33
9	Newspaper article	N33
10	Word of mouth	N33
11	Previous experience with it	N33
12	Company used it at other locations	N33
13	Contractor	N33
14	Result of an audit	N33
15	Part of a larger expansion or remodeling effort	N33
77	Other (RECORD VERBATIM)	N33
88	Refused	N33
99	Don't know	N33

N33

If AP9 = 3 or AP9A = 3 then ask; Else skip to A1b;

You mentioned that you have a Utility Account Rep.
Can you give me his or her name?
!!___Do you have his/her email address?
!___Do you have a phone number for him/her?
!___Do you have a cell phone number for him/her?\,

77	RECORD NAME, Phone, Email ETC	A1b
88	Refused	A1b
99	Don't know	A1b

INTEGRATED DEMAND SIDE MANAGEMENT

A1b

IF AUDIT = 1; THEN ASK ELSE ID0.

According to our records, your organization also received an AUDIT from <&UTILITY>. Is this correct?

1	Yes	ID0
2	No	ID0
88	Refused	ID0
99	Don't know	ID0

ID0

If AUDIT <> 1

To the best of your knowledge, has the facility located at this address received a <&UTILITY>-sponsored energy audit within the past 3 years?

1	Yes	A1c
2	No	A1c
88	Refused	A1c
99	Don't Know	A1c

A1c

IF TECH_ASST = 1, THEN ASK, ELSE A1d

According to our records, your organization received TECHNICAL ASSISTANCE from <&UTILITY>. Is this correct?

1	Yes	A1d
2	No	A1d
88	Refused	A1d
99	Don't know	A1d

IF FEAS_STUDY = 1, THEN ASK, ELSE A1e

A1d According to our records, your organization received a FEASABILITY STUDY from <&UTILITY>. Is this correct?

1	Yes	A1e
2	No	A1e
88	Refused	A1e
99	Don't know	A1e

IF RCX = 1, THEN ASK, ELSE A1f

A1e According to our records, your organization received RETROCOMMISSIONING from <&UTILITY>. Is this correct?

1	Yes	A1f
2	No	A1f
88	Refused	A1f
99	Don't know	A1f

IF PTRAIN = 1, THEN ASK. ELSE ASK ID1

A1f According to our records, your organization also received PROGRAM TRAINING from <&UTILITY>. Is this correct?

1	Yes	ID1
2	No	ID1
88	Refused	ID1
99	Don't know	ID1

ID1 Are you aware of other programs, other than the one we mentioned earlier, or resources that are designed to help organizations like yours reduce its energy bills?

1	Yes	ID2
2	No	ID3
88	Refused	ID3
99	Don't Know	ID3

If ID1 = 1 then ask; Else ID3;

ID2 What types of programs can you recall? **[RECORD ALL MENTIONS]** [After each response prompt with "Can you recall any others?"]

1	Rebates/incentives (include mentions of SPC and Express)	ID3
2	Building Commissioning (Retrocommissioning, Monitoring based commissioning)	ID3
3	Business energy audits and feasibility studies	ID3
4	Energy Centers (Pacific Energy Center, SCE CTAC)	ID3
5	Seminars, classes, and workshops	ID3
6	Solar or other Distributed Generation Programs (CSI, SGIP)	ID3
7	Demand Response Programs (Flex Your Power, Peak Choice, BIP, DBP, Aggregator, PDP) ID3	ID3
8	Upstream HVAC and Motors Program	ID3
77	Other programs [SPECIFY:]_____	ID3
88	Refused	ID3
99	Don't Know	ID3

ID3 Has your Account Representative, or any Program Staff or Program Vendors discussed solar, wind or other self-generation equipment opportunities with you?

1	Yes, Account Representative	ID3a

2	Yes, Program Staff	ID3a
3	Yes, Program Vendor	ID3a
4	No	ID3a
88	Refused	ID3a
99	Don't Know	ID3a

ID3a Has your Account Representative, Program Staff, or Program Vendors discussed Demand Reduction programs, technologies, or opportunities with you? (Select all that apply)

1	Yes, Account Representative	LI1
2	Yes, Program Staff	LI1
3	Yes, Program Vendor	LI1
4	No	LI1
88	Don't Know	LI1
99	Refused	LI1

EXISTING LIGHTING EQUIPMENT BATTERY

In this next section, we will be discussing the existing lighting equipment at your facility which was not RETROFITTED AS PART OF THE PROGRAM and has not been RETROFITTED OR INSTALLED BY YOU SINCE JANUARY 2010 outside of the program.

LI1 What are the primary types of lighting used at your facility that was not retrofitted through the program or by you personally since January 2010?

1	High Performance T8	LI1a
2	T8 fluorescent fixtures (1" diameter bulbs)	LI1a
3	T10 fluorescent fixtures	LI1a
4	T12 Fixtures (1.5" diameter bulbs)	LI1a
5	T5 Fixtures (5/8" diameter)	LI1a
6	Compact HID (High Intensity Discharge) Fixtures	LI1a
7	Screw-in Modular CFL bulbs	LI1a
8	Hardwired CFL fixtures	LI1a
9	Incandescent	LI1a
10	Other Fluorescent	LI1a
11	Fat/Thick Tubes	LI1a
12	Skinny/Thin Tubes	LI1a
13	LEDs (lamps, reflector lamps or fixtures - NOT exit signs)	LI1a
77	Other (PLEASE SPECIFY)	LI1a
88	Refused	LI1a
99	Don't know	LI1a

LI1a Which, if any, of the following automatic lighting controls are used on this older equipment?

1	Timers	LI3
2	Occupancy sensors	LI3
3	Photocells	LI3
66	NONE - NO AUTOMATIC LIGHTING CONTROLS	LI3
77	OPEN\Some other form of lighting controls-describe	LI3
88	Refused	LI3

99	Don't know	LI3
LI3	How old would you estimate this pre-retrofit lighting equipment to be? Remember, we are asking about the lighting equipment in use before you retrofitted either through the program or you retrofitted on your own since January 2010. Would you say the majority of it is...	
1	Less than 5 years old	LI4
2	Between 5 and 10 years old	LI4
3	Between10 and 15 years old	LI4
4	More than 15 years old	LI4
88	Refused	LI4
99	Don't know	LI4
LI4	And how would you describe the condition of this lighting equipment? Would you say it is....	
1	In poor condition	LI6
2	Fair condition	LI6
3	Good condition	LI6
88	Refused	LI6
99	Don’t know	LI6
LI6	Do you currently have any plans to retrofit your old lighting equipment?	
1	Yes	LI99
2	No	LI99
88	Refused	LI99
99	Don’t know	LI99

PROGRAM LIGHTING EQUIPMENT BATTERY

Comment	One way that organizations like yours can reduce their energy use is to install more energy efficient lighting equipment. We would like to ask you about the lighting changes you made as part of your participation in <%UTILITY>'s <%PROGRAM> Program.	LI99
LI99	**Continue if Custom = 1; Else skip to A3a if Deemed = 1;** Our records indicate that your organization installed CUSTOM LIGHTING EQUIPMENT through the &Program in our database, it is described as &CUSTOM _MEASURE. Is this correct?	
1	Yes	LI100
2	No	A3a
88	Refused	A3a
99	Don't know	A3a
LI100	What types of fixtures, ballasts or light controls were installed as part of this lighting installation?	
1	High performance T8 (1" diameter bulbs)	LI101A
2	T8 fluorescent fixtures (1” diameter bulbs)	LI101A
3	T10 fluorescent fixtures	LI101A
4	HID (High Density Discharge) Fixtures, Compact	LI101A
5	Compact Fluorescent, Screw-in Modular	LI90
6	Compact Fluorescent, Hardwire	LI101A

7	Exit Signs, Compact Fluorescent	LI101A
8	Exit Signs, LED	LI101A
9	Halogen	LI101A
10	Installed Reflectors	LI101A
11	Electronic Ballast	LI101A
12	Lighting Controls, Time Clock	LI101A
13	Lighting Controls, Occupancy Sensor	LI101A
14	Lighting Controls, Bypass/Delay Timers	LI101A
15	Lighting Controls, Photocell	LI101A
16	Other Fluorescent	LI101A
17	Skinny/Thin Tubes	LI101A
18	T5 Fixtures (5/8” diameter)	LI101A
19	Screw-in LEDs	LI101A
20	Screw-in LEDs Reflector Lamps	LI101A
21	LED Fixtures or Panels (e.g., replacement for linear fixtures)	LI101A
77	Other (PLEASE SPECIFY)	LI101A

START MACRO FOR CUSTOM MEASURES

LI101A	Approximately how many &LI100/&Prgm_LT1_Desc were installed through the &Program?	
77	Record #	LI101C
8888	Refused	LI101B
9999	Don't know	LI101B

IF LI101A IN (88, 99) the ask; Else skip to LI101c;

LI101B	Would you say that the number of &LI100/&Prgm_LT1_Desc installed under the program are	
1	less than 10 units	LI101C
2	11 - 50 units	LI101C
3	50 - 100 units	LI101C
4	More than 100 units	LI101C
88	Refused	LI101C
99	Don’t know	LI101C

LI101C	Were any of the program provided &Prgm_LT1_Desc placed/installed at another facility? If so, what percentage would you estimate?	
1	Yes, #record percentage	LI101D
2	No	LI101D
101	Refused	LI101D
102	Don't know	LI101D

LI101D	What type of lighting equipment was removed and replaced when you installed &Prgm_LT1_Desc through the &Program?	
1	High performance T8 (1" diameter bulbs)	LI101F
2	T8 fluorescent fixtures (1” diameter bulbs)	LI101F
3	T10 fluorescent fixtures	LI101F
4	T12 Fixtures (1.5” diameter bulbs)	LI101F

5	HID (High Density Discharge) Fixtures, Compact	LI101E
6	Compact Fluorescent, Screw-in Modular	LI101F
7	Compact Fluorescent, Hardwire	LI101F
8	Incandescent	LI101F
9	Exit Signs, Compact Fluorescent	LI101F
10	Exit Signs, LED	LI101F
11	Halogen	LI101F
12	Reflectors	LI101F
13	Electronic Ballast	LI101F
14	Magnetic Ballast	LI101F
15	Manual Switches	LI101F
16	Lighting Controls, Time Clock	LI101F
17	Lighting Controls, Occupancy Sensor	LI101F
18	Lighting Controls, Bypass/Delay Timers	LI101F
19	Lighting Controls, Photocell	LI101F
20	Other Fluorescent	LI101F
21	Fat/Thick Tubes	LI101F
22	Skinny/Thin Tubes	LI101F
23	T5 Fixtures (5/8” diameter)	LI101F
24	Screw-in LEDs	LI101F
25	Screw-in LEDs Reflector Lamps	LI101F
26	LED Fixtures or Panels (e.g., replacement for linear fixtures)	LI101F
66	Did not replace anything - new equipment	LI90
77	Other (PLEASE SPECIFY)	LI101F

ASK IF LI101D = 5; else skip to LI101F;

LI101E Were the HID lamps you removed High Pressure Sodium, Metal Halide, Mercury Vapor or Incandescent?

1	High pressure sodium	LI101F
2	Metal Halide	LI101F
3	Mercury Vapor	LI101F
4	Incandescent	LI101F
88	Refused	LI101F
99	Don't know	LI101F

LI101F Approximately how old were the lighting that was *removed* and replaced with &Prgm_LT1_Desc? Would you say...

1	Less than 5 years old	LI101G
2	Between 5 and 10 years old	LI101G
3	Between 10 and 15 years old	LI101G
4	More than 15 years old	LI101G
88	Refused	LI101G
99	Don't know	LI101G

LI101G How would you describe the removed equipment's condition? Would you say there were in…

1	Poor condition	LI101H
2	Fair condition	LI101H

3	Good condition	LI101H
88	Refused	LI101H
99	Don't know	LI101H

LI101H	Approximately what percentage of the lighting equipment that was *removed* and replaced was broken or not working prior to installing &Prgm_LT1_Desc?	
%	Percent	LI90
101	Refused	LI90
102	Don't know	LI90

	END MACRO	
	Ask only for CFL_flag = 1 or LI100 = 5	
LI90	Of the CFLs you received through the program, what percentage do you estimate were placed into storage for later use?	
77	Open Record	CUST_INSTALL_DATE_NU
88	Refused	CUST_INSTALL_DATE_NU
99	Don't know	CUST_INSTALL_DATE_NU

	ASK if CUST_INSTALL_DATE <> Null	
CUST_INSTALL_ DATE_NU	Our records indicate that your company installed this CUSTOM LIGHTING EQUIPMENT on <%CUSTOM_INSTALL_DATE>. Is this correct?	
1	Yes	A3
2	No	CUST_INSTALL_YEAR
88	Refused	CUST_INSTALL_YEAR
99	Don't know	CUST_INSTALL_YEAR

	ASK IF CUST_INSTALL_DATE = NULL	
CUST_INSTALL_ YEAR	In what year did you install this CUSTOM LIGHTING EQUIPMENT (PROBE FOR BEST GUESS)	
1	2009	CUST_INSTALL_MONTH
2	2010	CUST_INSTALL_MONTH
3	2011	CUST_INSTALL_MONTH
88	Refused	NTGBATTERY
99	Don't know	NTGBATTERY

	If CUST_INSTALL_MONTH in (1, 2, 3) then ask; Else skip to A3;	
CUST_INSTALL_ MONTH	And in which Month. If you don't know the MONTH, could you remember the SEASON?	
1	January	NTGBATTERY
2	February	NTGBATTERY
3	March	NTGBATTERY
4	April	NTGBATTERY
5	May	NTGBATTERY
6	June	NTGBATTERY
7	July	NTGBATTERY
8	August	NTGBATTERY
9	September	NTGBATTERY
10	October	NTGBATTERY
11	November	NTGBATTERY

12	December	NTGBATTERY
13	Fall	NTGBATTERY
14	Winter	NTGBATTERY
15	Spring	NTGBATTERY
16	Summer	NTGBATTERY
88	Refused	NTGBATTERY
99	Don't know	NTGBATTERY

NTGBATTERY **GO TO CUSTOM NTG BATTERY**
START LOOP DEEMED MEASURES, ELSE SKIP TO LI30

A3[A-C] According to our records, your organization installed/delamped &Quantity &Prgm_LT1_Desc through <UTILITY>'s &Program, is this correct? [IF NEEDED: delamping occurs when you retrofit your T12s to T8s and reduce the number of lamps in a fixture or simply reduce the number of fixtures]

1	Yes - Quantity is Correct	DEEMED_INSTALL_DATE_NU
2	Yes - Installed Different Quantity	A3_QTY
3	No, did not install	SKIP CHECK
88	Refused	SKIP CHECK
99	Don't know	SKIP CHECK

If A3[A-C](3 - 99), READ: "We must conduct this study with someone that knows about the installation of this measure."
ABANDONED USER30
If A3 = 2 or missing Qty; else skip to DEEM_INSTALL_DATE_NU

A3[A-C]_QTY Approximately how many &LI100/&Prgm_LT1_Desc were installed/delamped under the &Program?

77	Record #	DEEMED_INSTALL_DATE_NU
8888	Refused	A3_OTH
9999	Don't know	A3_OTH

IF A3_QTY IN (88, 99)

A3[A-C]_OTH Would you say that the number of &LI100/&Prgm_LT1_Desc installed/delamped was?

1	less than 10 units	DEEMED_INSTALL_DATE_NU
2	11 - 50 units	DEEMED_INSTALL_DATE_NU
3	50 - 100 units	DEEMED_INSTALL_DATE_NU
4	More than 100 units	DEEMED_INSTALL_DATE_NU
88	Refused	DEEMED_INSTALL_DATE_NU

99	Don't know	DEEMED_INSTALL_DATE_NU
DEEM_INSTALL_DATE_NU	**ASK if DEEM_INSTALL_DATE[1-2] <> Null** Our records indicate that your company installed the lighting equipment in &Install_MONTH &Install_YEAR through &Program, is this correct?	
1	Yes	LI18
2	No	DEEM_INSTALL_YEAR
88	Refused	DEEM_INSTALL_YEAR
99	Don't know	DEEM_INSTALL_YEAR
DEEM_INSTALL_YEAR	**Read if DEEM_PAID_DATE[1-3] <> Null and DEEM_INSTALL_DATE[1-3] = Null or LI9d = 2** According to our records, your organization received a rebate for the <(M1Delamp== 0)/installation/delamping> of ...<%LTMEAS1> ... on <%DEEM_PAID_DATE1>. In what year did you install/delamp &Prgm_LT1_Desc? (PROBE FOR BEST GUESS)	
1	2009	DEEM_INSTALL_MONTH
2	2010	DEEM_INSTALL_MONTH
3	2011	DEEM_INSTALL_MONTH
88	Refused	LI18
99	Don't know	LI18
DEEM_INSTALL_MONTH	And what month? {If they cannot recall month, try to get the season.}	
1	January	LI18
2	February	LI18
3	March	LI18
4	April	LI18
5	May	LI18
6	June	LI18
7	July	LI18
8	August	LI18
9	September	LI18
10	October	LI18
11	November	LI18
12	December	LI18
13	Fall	LI18
14	Winter	LI18
15	Spring	LI18
16	Summer	LI18
88	Refused	LI18
99	Don't know	LI18
LI18[A-C]	**Ask only for CFL = 1; else skip to LI19** Of the CFLs you received through the program, what percentage do you estimate were placed into storage for later use?	
	Open Record	LI19

101	Refused	LI19
102	Don't know	LI19
LI19[A-C]	**If A3 in (1-2); Else skip to LI30;** Were any of the program provided &Prgm_LT1_Desc installed/delamped at another facility? If so, what percentage would you estimate?	
1	Yes, #record percentage	LI20
2	No	LI20
88	Refused	LI20
99	Don't know	LI20
LI20[A-C]	**IF NOT M[1-3]DELAMP = 1 ask; Else skip to end of DEEMED MEASURE LOOP;** What type of lighting was removed and replaced when you installed &LTMEAS[1-3] through the &Program?	
1	High performance T8 (1" diameter bulbs)	LI22
2	T8 fluorescent fixtures (1” diameter bulbs)	LI22
3	T10 fluorescent fixtures	LI22
4	T12 Fixtures (1.5” diameter bulbs)	LI22
5	HID (High Density Discharge) Fixtures, Compact	LI21
6	Compact Fluorescent, Screw-in Modular	LI22
7	Compact Fluorescent, Hardwire	LI22
8	Incandescent	LI22
9	Exit Signs, Compact Fluorescent	LI22
10	Exit Signs, LED	LI22
11	Halogen	LI22
12	Install Reflectors	LI22
13	Electronic Ballast	LI22
14	Magnetic Ballast	LI22
15	Manual Switches	LI22
16	Lighting Controls, Time Clock	LI22
17	Lighting Controls, Occupancy Sensor	LI22
18	Lighting Controls, Bypass/Delay Timers	LI22
19	Lighting Controls, Photocell	LI22
20	Other Fluorescent	LI22
21	Fat/Thick Tubes	LI22
22	Skinny/Thin Tubes	LI22
23	T5 Fixtures (5/8” diameter)	LI22
24	Screw-in LEDs	LI122
25	Screw-in LEDs Reflector Lamps	LI122
26	LED Fixtures or Panels (e.g., replacement for linear fixtures)	LI122
66	ADDON_NEW	SKIP CHECK
77	Other (PLEASE SPECIFY)	LI22
LI21[A-C]	**ASK IF LI20 = 5; Else skip to LI22;** Were the HID lamps you removed High Pressure Sodium, Metal Halide, Mercury Vapor or Incandescent?	
1	High pressure sodium	LI22

2	Metal Halide	LI22
3	Mercury Vapor	LI22
4	Incandescent	LI22
88	Refused	LI22
99	Don't know	LI22
LI22[A-C]	**If LI20^= 66 then ask; Else skip to End of DEEMED Loop;** Approximately how old was the equipment that were *removed* and replaced with &Prgm_LT1_Desc? Would you say…	
1	Less than 5 years old	LI23
2	Between 5 and 10 years old	LI23
3	Between 10 and 15 years old	LI23
4	More than 15 years old	LI23
88	Refused	LI23
99	Don't know	LI23
LI23[A-C]	How would you describe the condition of the lighting equipment that was removed and replaced as a result of the installation of &Prgm_LT1_Desc? Would you say it was…	
1	In poor condition	LI24
2	Fair condition, or	LI24
3	Good condition	LI24
88	Refused	LI24
99	Don’t know	LI24
LI24[A-C]	Approximately what percentage of the lighting equipment that was *removed* and replaced was broken or not working prior to installing &Prgm_LT1_Desc?	
%	Percent	SKIP CHECK
88	Refused	SKIP CHECK
99	Don't know	SKIP CHECK
SKIP CHECK	**GO TO DEEMED NTG BATTERY AND RETURN TO A3B IF NEEDED, THEN A3C IF NEEDED. ONCE LOOPS ARE COMPLETE, GO TO LI30**	
	HIGH BAY AND DELAMPING	
LI30	Considering all of the lighting changes we just discussed, approximately what percentage of the facility’s lighting was affected by those changes?	
%	Percent	HB1
101	Refused	HB1
102	Don't know	HB1
HB1	**If Linear = 1 or LI100 in (1, 2 ,3, 16, 17, 18, 77); else skip to HB1a** Thinking about all of the types of linear fluorescent bulbs that were installed through the program, what is the highest height above the area they light? [IN FEET]	
1	Record #	HB2
66	They Did not install any Linears	HB1a

88	Refused	HB2
99	Don't know	HB2

HB2

IF HB1 < 13 then ask; else skip to HB3;

Just to double check, was any of the linear fluorescent lighting installed through the program at a height of 13 or more feet above the area it is meant to light? This would qualify as HIGH BAY lighting.

1	Yes	HB3
2	No	HB1a
88	Refused	HB1a
99	Don't know	HB1a

HB3

Ask if HB1 > 13, but not 66, 88, 99 or HB2 = 1 else skip to HB1a

What is the main kind of linear bulbs located at this height?

1	T8s	HB1a
2	T5s	HB1a
77	OPEN\RECORD OTHER	HB1a
88	Refused	HB1a
99	Don't know	HB1a

HB1a

Ask if Non_Linear = 1 or LI100 in (4, 5, 6, 9, 77); else skip to DEL1;

Other than linear fluorescents, is any of the lighting installed through the program considered to be High Bay? (If needed, lighting higher than 13 ft.)

1	Yes	HB2a
2	No	DEL1
88	Refused	DEL1
99	Don't know	DEL1

HB2a

Ask if HB1a=1 else skip to DEL1

What kind of High Bay Lighting is it?

1	HID (High-intensity discharge)	DEL1
2	Mercury Vapor	DEL1
3	CFLs	DEL1
77	OPEN\RECORD OTHER	DEL1
88	Refused	DEL1
99	Don't know	DEL1

DEL1

Ask if DELAMP = 1; else skip to DEL1a;

We also show that you delamped linear fluorescent fixtures. Is this correct? (If needed: delamping occurs when you retrofit your T12s to T8s and reduce the number of lamps in a fixture or simply reduce the number of fixtures.)

1	Yes	DEL2
2	No	L_MSP1
88	Refused	L_MSP1
99	Don't know	L_MSP1

Ask if DELAMP ^= 1 and Linear = 1 and M1Delamp ^= 1 and M2Delamp ^= 1 and M3Delamp ^= 1 OR LI100(1-3, 16-18, 77);

DEL1a As part of the retrofit you had done during your participation in &PROGRAM program did you have any delamping done? (If needed: delamping occurs when you retrofit your T12s to T8s and reduce the number of lamps in a fixture or simply reduce the number of fixtures.)

1	Yes	DEL2
2	No	L_MSP1
88	Refused	L_MSP1
99	Don't know	L_MSP1

Ask if DEL1 = 1 or DEL1a = 1 or (M1Delamp = 1 and A3A in (1,2)) or (M2Delamp = 1 and A3B in (1,2)) or (M3Delamp = 1 and A3C in (1,2))

There are a few different types of delamping that can take place. Today we will be asking about 3 types in particular. One type of delamping occurs when fixtures are simply removed (removal only). Another type of delamping occurs when the fixtures themselves are removed and replaced with new fixtures containing less bulbs (remove and replace fixtures). The final type is where the current fixtures are retrofitted, not replaced, to accommodate less bulbs (reduce # of bulbs).

DEL2 Have you had Removal only Delamping done within your facility since 2009?

1	Yes	DEL2a
2	No	DEL3
88	Refused	DEL3
99	Don't know	DEL3

If DEL2 = 1 then ask; else skip to DEL3;

DEL2a What percent of the original fixtures within the retrofitted area were removed?

77	Open Record	DEL3
88	Refused	DEL3
99	Don't know	DEL3

DEL3 Have you had Remove and Replace Delamping done within your facility since 2009? Remove and Replace occurs when the fixtures themselves are removed and replaced with new fixtures containing less bulbs.

1	Yes	DEL3a
2	No	DEL4
88	Refused	DEL4
99	Don't know	DEL4

If DEL3 = 1 then ask; else skip to DEL4;

DEL3a What type of fixtures were removed?

77	Open Record	DEL3b
88	Refused	DEL3b
99	Don't know	DEL3b

DEL3b What type of fixtures were installed?

77	Open Record	DEL3c
88	Refused	DEL3c
99	Don't know	DEL3c

DEL3c How many lamps per fixture were present prior to the delamping retrofit?[PROBE FOR BEST GUESS IF DON'T KNOW]

1	1	DEL3d
2	2	DEL3d
3	3	DEL3d
4	4	DEL3d
5	5	DEL3d
6	6	DEL3d
7	7	DEL3d
8	8	DEL3d
88	Refused	DEL3d
99	Don't know	DEL3d

DEL3d How many lamps per fixture are present now, after the delamping retrofit? [PROBE FOR BEST GUESS IF DON'T KNOW]

1	1	DEL3E
2	2	DEL3E
3	3	DEL3E
4	4	DEL3E
5	5	DEL3E
6	6	DEL3E
7	7	DEL3E
8	8	DEL3E
88	Refused	DEL4
99	Don't know	DEL4

DEL3E Approximately how old were the fixtures that were *removed* and replaced as a result of this Remove and Replace delamping? Would you say…

1	Less than 5 years old	LI23
2	Between 5 and 10 years old	LI23
3	Between 10 and 15 years old	LI23
4	More than 15 years old	LI23
88	Refused	LI23
99	Don't know	LI23

DEL3F How would you describe the condition of the fixtures that were removed and replaced as a result of the Remove and Replace delamping? Would you say they were in…

1	Poor condition	LI24
2	Fair condition, or	LI24
3	Good condition	LI24
88	Refused	LI24

99	Don't know	LI24
DEL3G	Approximately what percentage of the fixtures that were removed and replaced were broken or not working prior to the Remove and Replace delamping?	
%	Percent	LI30
101	Refused	LI30
102	Don't know	LI30
DEL4	Have you had a delamping retrofit to reduce the number of lamps per fixture within your facility since 2009?	
1	Yes	DEL4a
2	No	DEL5
88	Refused	DEL5
99	Don't know	DEL5
DEL4a	**If DEL4 = 1 then ask; else skip to DEL5;** How many lamps per fixture were present prior to the delamping retrofit?[PROBE FOR BEST GUESS IF DON'T KNOW]	
77	Open Record	DEL4b
88	Refused	DEL4b
99	Don't know	DEL4b
DEL4b	How many lamps per fixture are present now, after the delamping retrofit? [PROBE FOR BEST GUESS IF DON'T KNOW]	
77	Open Record	DEL5
88	Refused	DEL5
99	Don't know	DEL5
DEL5	Is the amount of lighting better, worse, or the same than before your delamping job?	
1	Better	L_MSP1
2	Worse	DEL11
3	Same	L_MSP1
88	Refused	DEL11
99	Don't know	DEL11
DEL11	**If DEL5 in (2, 88, 99) then ask; else skip to L_MSP1;** Did you install additional lighting equipment to increase the amount of lighting in the delamped area(s)?	
1	Yes	L_MSP1
2	No	L_MSP1
88	Refused	L_MSP1
99	Don't know	L_MSP1

NTG QUESTIONS

[READ] For the sake of expediency, during the balance of the interview, we will be referring to the <&PROGRAM> as the PROGRAM and we will be referring to the installation of ... <&MEASURE> as the MEASURE. I will repeat this from time to time during the study as your organization may have installed more than one measure through more than one program.

A3 There are usually a number of reasons why an organization like yours decides to participate in energy efficient programs like this one by installing energy efficient lights. In your own words, can you tell me why you decided to participate in this program?

1	To replace old or outdated lighting equipment	N2
2	As part of a planned remodeling, build-out, or expansion	N2
3	To gain more control over how the equipment was used	N2
4	Maintenance downtime/associated expenses for old equip were too high	N2
5	Had process problems and were seeking a solution	N2
6	To improve lighting equipment performance	N2
7	To improve production as a result of lighting	N2
8	To comply with codes set by regulatory agencies	N2
9	To improve visibility/plant safety	N2
10	To comply with company policies regarding regular lighting retrofits or remodeling	N2
11	To get a rebate from the program	N2
12	To protect the environment	N2
13	To reduce energy costs	N2
14	To reduce energy use/power outages	N2
15	To update to the latest technology	N2
77	RECORD VERBATIM	N2
88	Don't know	N2
99	Refused	N2

N2 Did your organization make the decision to install this new lighting equipment before or after you became aware of rebates/cost reduction available through the PROGRAM?

1	Before	N3a
2	After	N3a
88	Refused	N3a
99	Don't know	N3a

[READ] Next, I'm going to ask you to rate the importance of the program as well as other factors that might have influenced your decision to install this lighting equipment through the program. Using a scale of 0 to 10 where 0 means not at all important and 10 means extremely important, how would you rate the importance of...

N3a The age or condition of the old equipment

#	Record 0 to 10 score (_____)	N3aa
88	Refused	N3b
99	Don't know	N3b

IF N3a > 5 and NTG_TYPE = 2 THEN ASK.

N3aa How, specifically, did this enter into your decision to install/delamp this lighting?

77	RECORD VERBATIM	N3b
88	Don't know	N3b
99	Refused	N3b

N3b Availability of the PROGRAM rebate/cost reduction

#	Record 0 to 10 score (_____)	N3bb
88	Refused	N3c
99	Don't know	N3c

IF N3b > 7 AND NTG_TYPE = 2, THEN ASK.

N3bb Why do you give it this rating?

77	Record VERBATIM	N3c
88	Refused	N3c
99	Don't know	N3c

IF &FEAS_STUDY=1, A1B(1), &TECH_ASSIST=1, or ID0(1) THEN ASK, ELSE N3d

N3c Please rate the degree of importance of information provided through...
A1D(1)/<(FEAS_STUDY = 1)/ The Feasibility study/>
A1B(1)/<(AUDIT = 1)/The Facility or System AUDIT/>
A1C(1)/<(TECH_ASST = 1)/The Technical Assistance/>

#	Record 0 to 10 score (_____)	N3cc
88	Refused	N3d
99	Don't know	N3d

IF N3c > 7 and NTG_TYPE = 2, THEN ASK.

N3cc Why do you give it this rating?

77	Record VERBATIM	N3d
88	Refused	N3d
99	Don't know	N3d

If V1 = 1 then ask; Else skip to N3e.

N3d Recommendation from an equipment vendor that sold you the lighting equipment and/or installed it for you **[VENDOR_1]**

#	Record 0 to 10 score (_____)	N3e
88	Refused	N3e
99	Don't know	N3e

N3e. Your previous experience with energy efficient lighting projects?

#	Record 0 to 10 score (_____)	N3f
88	Refused	N3f
99	Don't know	N3f

N3f Your previous experience with <&UTILITY>'s &PROGRAM or a similar utility program?

#	Record 0 to 10 score (_____)	N3g
88	Don't know	N3g
99	Refused	N3g

IF A1F=1 and NTG_TYPE = 3 THEN ASK, ELSE N3h

N3g Information from &PROGRAM or &UTILITY training course?

#	Record 0 to 10 score (_____)	N3gg
88	Refused	N3h
99	Don't know	N3h

IF N3g > 5, THEN ASK.

N3gg What type of information was provided during the training?

77	Record VERBATIM	N3ggg

88	Refused	N3ggg
99	Don't know	N3ggg
N3ggg	How, specifically, did this enter into your decision to install/delamp this lighting equipment?	
77	RECORD VERBATIM	N3h
88	Don't know	N3h
99	Refused	N3h
N3h	Information from &PROGRAM or &UTILITY marketing materials?	
#	Record 0 to 10 score (_____)	N3hh
88	Refused	N3j
99	Don't know	N3j
	IF N3h > 5 and NTG_TYPE = 2, THEN ASK	
N3hh	What type of information was provided that pertained to the PROJECT?	
77	Record VERBATIM	N3hhh
88	Refused	N3hhh
99	Don't know	N3hhh
	IF N3hh = 77, THEN ASK	
N3hhh	How, specifically, did this enter into your decision to install/delamp this energy efficient lighting equipment?	
77	RECORD VERBATIM	N3j
88	Don't know	N3j
99	Refused	N3j
	IF NTG_TYPE = 2	
N3j	Standard practice in your business/industry	
#	Record 0 to 10 score (_____)	N3k
88	Refused	N3k
99	Don't know	N3k
	If AP9 = 3 or AP9A = 3 then ask; Else skip to N3m;	
N3l	Endorsement or recommendation by your account rep?	
#	Record 0 to 10 score (_____)	N3ll
88	Refused	N3m
99	Don't know	N3m
	IF N3l > 5, THEN ASK	
N3ll	What did they recommend?	
77	Record VERBATIM	N3lll
88	Refused	N3lll
99	Don't know	N3lll
N3lll	How, specifically, did this enter into your decision to install this project using energy efficient equipment?	
77	RECORD VERBATIM	N3m
88	Don't know	N3m
99	Refused	N3m
	IF NTG_TYPE = 2, ASK	
N3m	Corporate policy or guidelines	
#	Record 0 to 10 score (_____)	N3mm

88	Refused	N3mm
99	Don't know	N3mm

IF N3m > 5, THEN ASK.

N3mm How, specifically, did this enter into your decision to install/delamp this lighting equipment?

77	RECORD VERBATIM	N3n
88	Don't know	N3n
99	Refused	N3n

N3n Payback or return on investment of installing this lighting equipment

#	Record 0 to 10 score (_____)	N3o
88	Refused	N3o
99	Don't know	N3o

N3o To Improve overall quality of lighting?

#	Record 0 to 10 score (_____)	N3oo
88	Refused	N3p
99	Don't know	N3p

IF N3o > 5, THEN ASK.

N3oo How, specifically, did this enter into your decision to install/delamp this lighting equipment?

77	RECORD VERBATIM	N3p
88	Don't know	N3p
99	Refused	N3p

IF FM050 = 12 AND NTG_TYPE = 4, THEN ASK, ELSE SKIP TO N3r

N3p Compliance with state or federal regulations or standards such as Title 24?

#	Record 0 to 10 score (_____)	N3pp
88	Refused	N3r
99	Don't know	N3r

IF N3p > 5, THEN ASK.

N3pp How, specifically, did this enter into your decision to upgrade to energy efficient equipment?

77	RECORD VERBATIM	N3r
88	Don't know	N3r
99	Refused	N3r

N3r Compliance with your organization's normal remodeling or lighting replacement practices?

#	Record 0 to 10 score (_____)	N3rr
88	Refused	N3s
99	Don't know	N3s

IF N3r > 5, THEN ASK.

N3rr How, specifically, did this enter into your decision to install/delamp this lighting equipment?

77	RECORD VERBATIM	N3s.
88	Don't know	N3s.
99	Refused	N3s.

N3s	Were there any other factors we haven't discussed that were influential in your decision to install/delamp this MEASURE?	
1	Nothing else influential	CC1
77	Record verbatim	N3ss
88	Refused	CC1
99	Don't know	CC1
N3ss	Using the same zero to 10 scale, how would you rate the influence of this factor?	
#	Record 0 to 10 score (_____)	CC1
88	Refused	CC1
99	Don't know	CC1
	CONSISTENCY CHECKS ON N3p, N3q and N3r	
	IF A3 = 8, AND N3p < 4, THEN ASK.	
CC1	You indicated earlier that compliance with codes or regulatory policies was one of the reasons you did the project. However, just now you scored the importance of compliance with state or federal regulations or standards such as Title 24 in your decision making fairly low, why is that?	
77	RECORD VERBATIM	CC1a
88	Don't know	CC1a
99	Refused	CC1a
	IF A3 not equal to 8, and N3p > 7, THEN ASK.	
CC1a	You indicated earlier that compliance with codes or regulatory policies was not one of the primary reasons you did the project. However, just now you scored the importance of compliance with state or federal regulations or standards such as Title 24 in your decision making fairly high, why is that?	
77	RECORD VERBATIM	CC3
88	Don't know	CC3
99	Refused	CC3
	IF A3 = 2 or 10, AND N3r < 4, THEN ASK.	
NCC3	You indicated earlier that a regularly scheduled retrofit was one of the reasons you did the project. However, just now you scored the importance of compliance with your companies regularly schedule retrofit or lighting replacement in your decision making fairly low, why is that?	
77	RECORD VERBATIM	CC3a
88	Don't know	CC3a
99	Refused	CC3a
	IF A3 ^= 2 and A3 ^= 9 and A3^=10 AND N3r > 7 THEN ASK.	
NCC3a	You indicated earlier that a regularly scheduled retrofit was NOT one of the reasons you did the project. However, just now you scored the importance of compliance with your companies regularly schedule retrofit or lighting replacement in your decision making fairly high, why is that?	
77	RECORD VERBATIM	N33
88	Don't know	N33
99	Refused	N33
	ASK ALL	

PAYBACK BATTERY (If payback importance > 5)

If INCENT < 100 AND NTG_TYPE = 2, then ask; Else skip to N33;

P1 What financial calculations does your company typically make before proceeding with the installation of lighting equipment like you installed through the program?

1	Payback	P2
2	Return on investment	P2
77	Record VERBATIM	P2
88	Don't know	P2
99	Refused	P2

If P1 = 1, ask; else skip to P2B;

P2A What is your threshold in terms of the payback or return on investment your company uses before deciding to proceed with installing lighting equipment like you installed through the program?

1	0 to 6 months	P3
2	6 months to 1 year	P3
3	1 to 2 years	P3
4	2 to 3 years	P3
5	3 to 5 years	P3
6	Over 5 years	P3
88	Don't know	P3
99	Refused	P3

If P1 = 2, then ask;

P2B What is your ROI?

1	Record ROI____;	P3

P3 Did the rebate move your lighting equipment project within this acceptable range?

1	Yes	P4
2	No	P3a
88	Don't know	P3a
99	Refused	P3a

If P3 = 1 then ask; Else skip to P3A;

P4. On a scale of 0 to 10, with a 10 meaning a “Very Important” and a 0 meaning “Not at all important”, how important in your decision was it that the project was now in the acceptable range?

#	Record 0 to 10 score (_____)	P3a
88	Refused	P3a
99	Don't know	P3a

CONSISTENCY CHECKS ON N3b and P3

IF P3 = 1, AND N3b < 5, THEN ASK.

P3a The rebate seemed to make the difference between meeting your financial criteria and not meeting them, but you are saying that the rebate didn’t have much effect on your decision, why is that?

77	Record VERBATIM	P3e
88	Don't know	P3e
99	Refused	P3e

IF P3 = 2, AND N3b > 5, THEN ASK.

The rebate didn't cause the installation of lighting equipment to meet your company's financial criteria, but you said that the rebate had an impact on the decision to install this lighting equipment.

P3e. Why did it have an impact?

77	Record VERBATIM	N33
88	Don't know	N33
99	Refused	N33

Next, I would like you to rate the importance of the PROGRAM in your decision to implement this MEASURE as opposed to other factors that may have influenced your decision such as...(SCAN BELOW AND READ TO THEM THOSE

ITEMS WHERE THEY GAVE A RATING OF 8 or higher)

<%N3A> Age or condition of old equipment,

<%N3D> Equipment Vendor recommendation

<%N3E> Previous experience with this measure

<%N3F> Previous experience with this program

<%N3J> Standard practice in your business/industry

<%N3M> Corporate policy or guidelines

<%N3N> Payback on investment.

<%N3O> To improve production as a result of lighting,

<%N3P> Compliance with state or federal regulations or standards such as Title 24

<%N3R> Compliance with normal maintenance or retrocommissioning policies or your companies regularly scheduled retrofit or lighting replacement

If you were given 10 points to award in total, how many points would give to the importance of the program and how many points would you give to these other factors?\

N41 How many of the ten points would you give to the importance of the PROGRAM in your decision?

#	Record 0 to 10 score (_____)	N42
88	Refused	N42
99	Don't know	N42

N42 And how many points would you give to all of these other factors?\

#	Record 0 to 10 score (_____)	N41a
88	Refused	N41a
99	Don't know	N41a

If N41 <> 88 and N41 <> 99 and N42 <> 88 and N42 <> 99, computer N41 + N42. While N41+N42 <> 10, display:

__We want these two sets of numbers to equal 10.

<%N41> for Program influence and

<%N42> for Non Program factors

Now I would like you to think about the action you would have taken with regard to the installation of this equipment if the &PROGRAM had not been available.

IF MEASURE= REPLACEMENT THEN ASK; Else skip to N5aa;

N5 Using a likelihood scale from 0 to 10, where 0 is Not at all likely and 10 is Extremely likely, if THE PROGRAM had NOT BEEN AVAILABLE, what is the likelihood that you would have installed exactly the same program qualifying lighting equipment that you did in this project?

#	Record 0 to 10 score (_____)	N5a
88	Refused	N5B
99	Don't know	N5B

IF MEASURE = ADD-ON THEN ASK; Else skip to N6;

N5aa Using a likelihood scale from 0 to 10, where 0 is Not at all likely and 10 is Extremely likely, if THE PROGRAM had NOT BEEN AVAILABLE, what is the likelihood that you would have installed exactly the same lighting equipment at the same time as you did?

#	Record 0 to 10 score (_____)	N6
88	Don't know	N6
99	Refused	N6

CONSISTENCY CHECKS

IF N3b > 7 and N5 > 7, THEN ASK.

N5a When you answered ...<%N3B> ... for the question about the influence of the rebate, I would interpret that to mean that the rebate was quite important to your decision to install. Then, when you answered ..<%N5>... for how likely you would be to install the same equipment **without** the rebate, it sounds like the rebate was not very important in your installation decision.
I want to check to see if I am misunderstanding your answers or if the questions may have been unclear. Will you explain in your own words, the role the rebate played in your decision to install this efficient equipment?

77	Record VERBATIM	NN5aa
88	Don't know	NN5aa
99	Refused	NN5aa

NN5aa Would you like for me to change your score on the importance of the rebate that you gave a rating of <%N3B> and/or change your rating on the likelihood you would install the same equipment without the rebate which you gave a rating of <%N5> and/or we can change both if you wish?

77	Record how they would rate rebate influence and how they would rate likeliness to install without the rebate	N5b
88	Don't know	N5b
99	Refused	N5b

If MEASURE = REPLACEMENT then ask; Else skip to N6;

N5b Using the same scale as before, if the program had not been available, what is the likelihood that you would have done this project at the same time as you did?

#	Record 0 to 10 score (_____)	TD1
88	Refused	TD1
99	Don't know	TD1

DEFERRED FREE RIDERSHIP FOLLOW-UP

INTRO FOR BOTH TD1 and TD1a

Next, I'd like to ask a couple of questions to help us estimate at what point in the future you would definitely have replaced your existing equipment. We understand that you can't know exactly when you would have done this, especially so far into the future. We're just trying to get a sense of how long you think the current equipment or process would have kept serving your company's needs before you had to or chose to replace it.

If N5b < 9, ask TD1, ELSE N6;

TD1

If the program had not been available, how likely is it that you would have replaced your existing equipment within one year of when you did?

1	Definitely would have (1.0 probability)	N6
2	Probably would have (0.75 probability)	TD2
3	50-50 chance (0.50 probability)	TD2
4	Probably not (0.25 probability)	TD2
5	Definitely not (0.0 probability)	TD2

IF TD1 = 2, 3, 4, 5 ASK TD2, ELSE GO TO N6

TD2

If the program had not been available, how likely is it that you would have replaced your existing equipment within three years of when you did?

1	Definitely would have (1.0 probability)	N9bb
2	Probably would have (0.75 probability)	TD3
3	50-50 chance (0.50 probability)	TD3
4	Probably not (0.25 probability)	TD3
5	Definitely not (0.0 probability)	TD3

IF TD2= 2, 3, 4, 5 ASK TD3, ELSE GO TO N6

TD3

If the program had not been available, how likely is it that you would have replaced your existing equipment within five years of when you did?

1	Definitely would have (1.0 probability)	N9bb
2	Probably would have (0.75 probability)	N9bb
3	50-50 chance (0.50 probability)	N9bb
4	Probably not (0.25 probability)	N9bb
5	Definitely not (0.0 probability)	N9bb

CONSISTENCY CHECK ON AGE

IF (N3a > 6 AND TD3 = 3, 4 or 5) THEN ASK. ELSE N6.

N9bb

Earlier when asked about the influence of the age/condition of the old equipment on your decision to install this new equipment, you gave me a rating of <%N3A> out of ten. I would interpret this to mean that the age/condition was quite influential in your decision to install this new equipment when you did. Perhaps I have either recorded something incorrectly or maybe you could explain in your own words the role the age/condition of the existing equipment played in your decision to install this new energy-efficient equipment.

77	Record VERBATIM	N6
88	Don't know	N6
99	Refused	N6

ADDITIONAL BASELINE INPUT

N6 Now I would like you to think one last time about what action you would have taken if the program had not been available. Which of the following alternatives would you have been MOST likely to do?

1	Install/Delamped fewer units	N6a
2	Install standard efficiency equipment or whatever required by code	N7
3	Installed equipment more efficient than code but less efficient than what you installed through the program	N6b
4	Done nothing	N7
5	Done the same thing I would have done as I did through the program	N7
6	Repair or overhaul the existing equipment	N6c
77	something else (specify what _____)	N7
88	Don't know	N7
99	Refused	N7

N6a How many fewer units would you have installed/Delamped? (It is okay to take an answer such as ...HALF...or 10 percent fewer ... etc.)

77	RECORD VERBATIM	N7
88	Refused	N7
99	Refused	N7

N6b Can you tell me what model or efficiency level you were considering as an alternative? (It is okay to take an answer such as … 10 percent more efficient than code or 10 percent less efficient than the program equipment)

77	RECORD VERBATIM	N7
88	Don't know	N7
99	Refused	N7

N6c How long do you think the repaired lighting equipment would have lasted before requiring replacement?

77	RECORD VERBATIM	N7
88	Don't know	N7
99	Refused	N7

EARLY REPLACEMENT BATTERY

[IF N5b < 8 and A3 = 1, 4,8, or 10 THEN ASK. ELSE SKIP TO SP1]

Earlier, when I asked you a question about why you decided to implement the project, you gave reasons related to <A3> Now I would like to ask you some follow up questions regarding these responses you gave me.

IF MEASURE=REPLACEMENT THEN ASK,

ER2 How many more years do you think your lighting system would have gone before failing and required replacement?

Yrs	___ Estimated Remaining Useful Life	ER6
88	Don't know	ER6
99	Refused	ER6

IF A3 = 4, THEN ASK,

ER6 How much downtime did you experience in the past year?

Wks	_____Downtime Estimate	ER9

88	Don't know	ER9
99	Refused	ER9

ER9 In your opinion, based on the economics of operating this equipment, for how many more years could you have kept this equipment functioning?

Yrs	___ Estimated Remaining Useful Life	ER11
88	Don't know	ER11
99	Refused	ER11

ER15 **IF A3 = 8, THEN ASK,**
Can you briefly describe the specific code/regulatory requirements that this project addressed?

77	RECORD VERBATIM	ER19
88	Don't know	ER19
99	Refused	ER19

ER19 **IF A3 = 10, THEN ASK,**
Can you briefly describe the specific company policies regarding regular/normal maintenance/replacement policy(ies) that were relevant to this project?
Can you briefly describe the specific company policies regarding regular lighting retrofits and remodeling?

77	RECORD VERBATIM	SP1
88	Don't know	SP1
99	Refused	SP1

PROCESS QUESTIONS

PP1 What do you believe the PROGRAM'S primary strengths are?

77	Record VERBATIM	PP2
88	Don't know	PP2
99	Refused	PP2

PP2 What concerns do you have about the PROGRAM, if any? (IF NEEDED: What do you view as the primary features that need to be improved?)

77	Record VERBATIM	PP4
88	Don't know	PP4
99	Refused	PP4

PP4 On a scale of 0 - 10, where 0 is completely dissatisfied and 10 is completely satisfied, how would you rate your OVERALL satisfaction with the &PROGRAM?

#	Record 0 to 10 score (_____)	PP5
88	Refused	PP5
99	Don't know	PP5

PP5 **IF PP4 < 4, THEN ASK. ELSE PP5A**
Why do you say that?

77	Record VERBATIM	PP5A
88	Don't know	PP5A
99	Refused	PP5A

PP5A Using the same 0 - 10 scale, how would you rate your OVERALL satisfaction with the performance of the lighting measures you had installed?

#	Record 0 to 10 score (_____)	PP5B
88	Refused	PP6
99	Don't know	PP6

IF PP5A < 6, THEN ASK. ELSE PP6.

PP5B Why do you say that?

77	Record VERBATIM	PP6
88	Don't know	PP6
99	Refused	PP6

ASK IF [&Implementer = "a local government" , "state government", or "an independent firm"]. ELSE PP10.

IF &PRGNAME is not an IOU administered program:

PP6 The program you participated in was run by &IMPLEMENTER. Has your organization participated in energy efficiency programs run by &IOU in the past three years?

1	Yes	PP8
2	No	PP10
88	Refused	PP10
99	Don't know	PP10

PP8 Please consider your recent experience with the PROGRAM run by &IMPLEMENTER versus your past experience with the program run by &UTILITY. Are there any differences between the two that stand out? Any there attributes or services that seemed better in one or the other?

77	Yes, Record VERBATIM	PP10
78	No differences	PP10
88	Don't know	PP10
99	Refused	PP10

ASK IF &PRGNAME is IOU administered program. ELSE PP12.

PP10 The program you participated in was run by &UTILITY. Have you participated in programs run by governments, institutions, or other independent firms in the past three years? (select all that apply)

1	Local Government	PP14
2	State Government or Institution	PP14
3	Independent Firm	PP12
88	Refused	PP16
99	Don't know	PP16

If PP10 = 3 "Independent Firm", then ask

PP12 Please consider your experiences with the program run by an independent firm versus your recent experience with the program run by an independent firm versus your recent experience with &UTILITY's program. Are there any differences between the two that stand out? Are there attributes or services that seemed better in one or the other? (NOTE: SPECIFY WHICH ENTITY IS REFERRED TO IN EACH COMMENT)

1	No differences	PP16
77	Yes, RECORD DIFFERENCES	PP16
88	Refused	PP16

99	Don't know	PP16

If PP6 = 1 and PP10 < 4, then ask;

PP14 Please consider your experiences with the program run by a government or institution versus your recent experience with <UTILITY>'s PROGRAM. Are there any differences between the two that stand out? Are there attributes that seemed better in one or the other? (NOTE: SPECIFY WHICH ENTITY IS REFERRED TO IN EACH COMMENT)

77	Yes, Record VERBATIM	PP16
78	No differences	PP16
88	Refused	PP16
99	Don't know	PP16

ASK if PP6 = 1 OR PP10 = 1, 2 or 3. ELSE PP3.

PP16 Which entity, the UTILITY program or the IMPLEMENTER program was more effective in supporting your organization's decision making process?

1	IMPLEMENTER	PP18
2	UTILITY	PP18
3	Very little difference	PP18
88	Refused	PP18
99	Don't know	PP18

If PP16 in (1, 2) then ask; else skip to PP20;

PP18 How significant was this difference? Would you say…

1	Very Significant	PP20
2	Somewhat Significant	PP20
3	Not very significant	PP20
88	Refused	PP20
99	Don't know	PP20

PP20 Which entity had a better technical understanding of the energy use at your facility and provided the best technical assistance in specifying the project?

1	&IMP2	PP22
2	&IOU	PP22
3	Very little difference	PP22
88	Refused	PP22
99	Don't know	PP22

If PP20 in (1, 2) then ask; else skip to PP24;

PP22 How significant was this difference? Would you say…

1	Very Significant	PP24
2	Somewhat Significant	PP24
3	Not very significant	PP24
88	Refused	PP24
99	Don't know	PP24

PP24 Which entity was more effective in supporting you through the application process

1	&IMP2	PP26
2	&IOU	PP26
3	Very little difference	PP26

88	Refused	PP26
99	Don't know	PP26

If PP24 in (1, 2) then ask; else skip to PP3;

PP26 How significant was this difference? Would you say…

1	Very Significant	PP3
2	Somewhat Significant	PP3
3	Not very significant	PP3
88	Refused	PP3
99	Don't know	PP3

PP3 Do you have any comments on the current incentive structure of the PROGRAM?

1	No	ID1
77	Yes - RECORD COMMENTS_____	ID1
88	Don't know	ID1
99	Refused	ID1

LONG TERM INFLUENCE

If NTG_TYPE = 2

IF N3f > 4, THEN ASK, ELSE CCC12A

Now I'd like you to think about your organization's experiences with %UTILITY's energy efficiency programs and efforts over the longer term, for example, over the past 5, 10, or even 20 years.

In an earlier question, you indicated that your previous experience with utility energy efficiency programs was a factor that influenced your decision to implement this PROJECT. I would like to ask you a few questions about this experience.

LT2 For how many years have you been participating in UTILITY's energy efficiency PROGRAM(s)?

# yrs	Record Number of Years	LT3
88	Refused	LT3
99	Don't know	LT3

LT3 During this time, how many times has your organization participated in these PROGRAM(s)?

1	7 to 10 times, or more	CA6
2	4 to 7 times	CA6
3	2 to 4 times	CA6
4	less than 2 times	CA6
88	Refused	LT6
99	Don't know	LT6

IF LT3(1||4);

CA6 What type of equipment did you install through this (these) program(s)? [READ RESPONSE CATEGORIES]

1	Indoor lighting	LT6
2	Cooling equipment	LT6
3	Natural gas equipment, such as water heater, furnace or appliances	LT6
4	Insulation or windows	LT6
5	Refrigeration	LT6
6	Industrial process equipment	LT6
7	Greenhouse heat curtains	LT6

8	Food service equipment	LT6
77	OPEN \SOMETHING OTHER (specify)	LT6
88	Refused	LT6
99	Don't Know	LT6

LT6 What factors led you to participate in these program(s)?

77	Record VERBATIM	LT7
88	Refused	LT7
99	Don't know	LT7

LT7 And exactly how did that experience help to convince you to install this lighting equipment?

77	Record VERBATIM	LT8
88	Refused	LT8
99	Don't know	LT8

LT8 **IF LT3 = 1 or 2, THEN ASK. ELSE CCC12A.**
Have these programs had any long-term influence on your organization's energy efficiency related practices and policies that go beyond the immediate effect of incentives on individual projects? [DO NOT READ: Examples are causing them to add energy efficiency procurement policies, internal incentive or reward structures for improving energy efficiency, or adoption of energy management best practices.]

1	Yes	LT9
2	No	CC12A
88	Refused	CC12A
99	Don't know	CC12A

LT9 **If LT8 = 1 then ask; else skip to CA2;**
Has your organization developed a specification policy for the selection of energy-efficient equipment? [EXAMPLES... REQUIREMENTS THAT ALL NEW FLUORESCENT LIGHTING SYSTEMS USE ELECTRONIC BALLAST, OR THAT ALL NEW MOTORS BE PREMIUM EFFICIENCY]

1	Yes	LT10
2	No	LT10
88	Refused	LT10
99	Don't know	LT10

LT10 Has your organization assigned responsibility for controlling energy usage and costs to any of the following?

1	An in-house staff person	LT11
2	A group of staff	LT11
3	An outside contractor	LT11
4	NONE OF THESE	LT11
88	Refused	LT11
99	Don't know	LT11

LT11 Does your organization have any internal incentive or reward policies for business units or staff responsible for managing energy costs?

1	Yes	LC7
2	No	CA2

88	Refused	CA2
99	Don't know	CA2

LC7 How do these incentive/reward structures work?

77	OPEN/Record	CA2
88	Refused	CA2
99	Don't know	CA2

CA2 In marketing materials or in communications with customers, does your company highlight the ways in which your business is environmentally conscious?

1	Yes	RETURN TO PROGRAM LIGHTING EQUIPMENT BATTERY
2	No	RETURN TO PROGRAM LIGHTING EQUIPMENT BATTERY
77	OPEN\RECORD OTHER	RETURN TO PROGRAM LIGHTING EQUIPMENT BATTERY
88	Refused	RETURN TO PROGRAM LIGHTING EQUIPMENT BATTERY
99	Don't know	RETURN TO PROGRAM LIGHTING EQUIPMENT BATTERY

LIGHTING SPILLOVER

If LI30 ^= 100; else skip to CL1

READ Comment IF &Program LIGHTING PARTICIPANT

Comment	Thanks for discussing the new lighting equipment that you installed through the program. Next I would like to discuss any lighting equipment you might have installed OUTSIDE of the program	L_MSP1

ASK ALL

L_MSP1 Since January 2010 have you purchased and installed any lighting on your own without any assistance from the &Utility &Program or another utility program either at this facility or at other locations?

1	Yes, only at this facility	LSP2
2	Yes, only at other locations	LSP2
3	Yes, at this facility and other locations	LSP2
4	No	T12Intro
88	Refused	T12Intro
99	Don't know	T12Intro

If L_MSP1 in (1-3); else skip to CL1

LSP2 What type of fixtures, ballasts, or lighting controls were installed as part of this lighting retrofit that was done without any assistance from your utility? [SELECT ALL THAT APPLY, AFTER EACH RESPONSE, PROMPT WITH,] **LIGHT_TECH1B**

1	High performance T8 fluorescent fixtures (1” diameter bulbs)	High
2	T8 fluorescent fixtures (1” diameter bulbs)	High
3	T10 fluorescent fixtures	Low

4	T12 Fixtures (1.5” diameter bulbs)	Low
5	HID (High Density Discharge) Fixtures, Compact	High
6	Compact Fluorescent, Screw-in Modular	High
7	Compact Fluorescent, Hardwire	High
8	Incandescent	None
9	Exit Signs, Compact Fluorescent	High
10	Exit Signs, LED	High
11	Halogen	Low
12	Install Reflectors	High
13	Electronic Ballast	Low
14	Magnetic Ballast	Low
15	Lighting Controls, Time Clock	High
16	Lighting Controls, Occupancy Sensors	High
17	Lighting Controls, Bypass/Delay Timers	High
18	Lighting Controls, Photocell	High
19	Other Fluorescent	Low
20	Fat/Thick Tubes	Low
21	Skinny/Thin Tubes	High
22	T5 Fixtures (5/8” diameter)	High
23	Generic LED (Screw Based)	High
24	Screw-in LEDs Reflector Lamps	High
25	LED Fixtures or Panels (e.g., replacement for linear fixtures)	High
77	Other (PLEASE SPECIFY)	Low
88	Refused	None
99	Don't Know	None

ASK IF LSP2=5 ; ELSE SKIP TO MSP2A

LI17 Were the HID lamps you installed High Pressure Sodium, Metal Halide, Mercury Vapor or Incandescent?

1	High pressure sodium	Loop
2	Metal Halide	Loop
3	Mercury Vapor	Loop
4	Incandescent	Loop
88	Refused	Loop
99	Don't know	Loop

Loop **LOOP THROUGH MSP2 TO MSP26**

ASK IF LIGHT_TECH1B = High; Else Skip to MSP26

READ: Now I would like to ask you a few questions about the &LIGHT_TECH1B that you purchased outside the program.

If L_MSP1 in (1-2); else skip to MSP2B

MSP2A How many &LIGHT_TECH1B did you purchase for this facility?

1	{Record Number} for this facility	MSP2B
88	Refused	MSP2B
99	Don't know	MSP2B

If L_MSP1 in (2-3)

MSP2B How many &LIGHT_TECH1B products did you buy on your own for other locations?

1	{Record Number} for another facility	MSP4

88	Refused	MSP4
99	Don't know	MSP4

MSP4

I'm going to read a statement about this equipment that you purchased on your own. On a scale from 1-10, with 1 indicating that you strongly disagree, and 10 indicating that you strongly agree, please rate the following statement.

My experience with the 2010-2012 &Utility &Program influenced my decision to install different types of high efficiency equipment on my own.

	{Record Response (1-10)} _____	MSP5
88	Refused	MSP5
99	Don't Know	MSP5

MSP5

If MSP4 > 5 then ask; Else skip to MSP6;

Why do you give it this rating?

77	Record VERBATIM	MSP17
88	Don't know	MSP17
99	Refused	MSP17

MSP17

Why did you purchase this lighting without the financial assistance available through &Utility program? {DO NOT READ; INDICATE ALL THAT APPLY}

1	Too much paperwork	MSP19
2	Takes too long to get approval	MSP19
3	No time to participate, needed equipment immediately	MSP19
4	The program had ended	MSP19
5	The equipment would not qualify {PROBE: Why not?}	MSP19
6	The amount of the rebate wasn't important enough	MSP19
7	Did not know the program was available	MSP19
8	There was no program available	MSP19
77	Other {SPECIFY}	MSP19
88	Refused	MSP19
99	Don't know	MSP19

MSP19

Was this measure specifically recommended by a PROGRAM/UTILITY sponsored audit, report or program technical specialist?

1	Yes	MSP20
2	No	MSP20
88	Refused	MSP20
99	Don't know	MSP20

MSP20

If you had not participated in the Program, how likely is it that your organization would still have implemented this measure, using a 0 to 10 scale where 0 means you definitely WOULD NOT have implemented this measure and 10 means you definitely WOULD have implemented this measure?

#	Record 0 to 10 likelihood rating (_____)	MSP23
88	Refused	MSP23
99	Don't know	MSP23

ASK ALL LIGHTING ADOPTERS

MSP23	In what year did you install &LIGHT_TECH1B? (PROBE FOR BEST GUESS)	
1	2010	MSP24
2	2011	MSP24
88	Refused	MSP25
99	Don't know	MSP24
MSP24	And in which month? If you cannot get month, try to get the season.	
1	January	MSP25
2	February	MSP25
3	March	MSP25
4	April	MSP25
5	May	MSP25
6	June	MSP25
7	July	MSP25
8	August	MSP25
9	September	MSP25
10	October	MSP25
11	November	MSP25
12	December	MSP25
13	Fall	MSP25
14	Winter	MSP25
15	Spring	MSP25
16	Summer	MSP25
88	Refused	MSP25
99	Don't know	MSP25
MSP25	Did you receive a rebate for the purchase of the &LIGHTING_TECH1B?	
1	Yes	MSP26
2	No	MSP26
88	Refused	MSP26
99	Don't know	MSP26

ASK IF LIGHT_TECH1B = Low and LOOP; Else Skip to CFL_Comment

Next I'd like to ask you a few questions about the equipment that was removed and replaced when you installed the &LIGHT_TECH1B…

MSP26	What type of lighting was removed and replaced when you installed &LIGHT_TECH1B?	
1	High performance T8 (1" diameter bulbs)	MSP27
2	T8 fluorescent fixtures (1” diameter bulbs)	MSP27
3	T10 fluorescent fixtures	MSP27
4	T12 Fixtures (1.5” diameter bulbs)	MSP27
5	HID (High Density Discharge) Fixtures, Compact	MSP27
6	Compact Fluorescent, Screw-in Modular	MSP27
7	Compact Fluorescent, Hardwire	MSP27
8	Incandescent	MSP27
9	Exit Signs, Compact Fluorescent	MSP27
10	Exit Signs, LED	MSP27

11	Halogen	MSP27
12	Install Reflectors	MSP27
13	Electronic Ballast	MSP27
14	Magnetic Ballast	MSP27
15	Lighting Controls, Time Clock	MSP27
16	Lighting Controls, Occupancy Sensor	MSP27
17	Lighting Controls, Bypass/Delay Timers	MSP27
18	Lighting Controls, Photocell	MSP27
19	Other Fluorescent	MSP27
20	Fat/Thick Tubes	MSP27
21	Skinny/Thin Tubes	MSP27
22	T5 Fixtures (5/8" diameter)	MSP27
66	NOTHING, EQUIPMENT WAS ONLY ADDED, NOT REPLACED	MSP27
77	Other (PLEASE SPECIFY)	MSP27
88	Refused	MSP27
99	Don't know	MSP27

MSP27 Approximately how old was this light equipment that you removed/replaced? Would you say…

1	Less than 5 years old	MSP28
2	Between 5 and 10 years old	MSP28
3	Between 10 and 15 years old	MSP28
4	More than 15 years old	MSP28
88	Refused	MSP28
99	Don't know	MSP28

MSP28 How would you describe the condition of this removed equipment? Would you say they were…

1	In poor condition	MSP29
2	Fair condition, or	MSP29
3	Good condition	MSP29
88	Refused	MSP29
99	Don't know	MSP29

MSP29 Approximately what percentage of this removed lighting equipment was broken or not working prior to installing…

%	Percent	CFL_Comment
88	Refused	CFL_Comment
99	Don't know	CFL_Comment

CFL_Comment	I'd like to ask you some specific questions about the CFLs you purchased outside of your participation in the program.	CFL1A

Ask if LSP2 = 6 and CFL_Flag = 1 or LI100 = 5

CFL1A Where did you purchase the CFLs? [ACCEPT MULTIPLES]

1	Home Depot	CFL3
2	Costco	CFL3
3	Orchard Supply Hardware	CFL3
4	ACE Hardware	CFL3
5	Lowe's	CFL3

6	SaveMart	CFL3
7	K-Mart	CFL3
8	Sam's Club	CFL3
9	Smart & Final	CFL3
10	Yardbirds Home Center	CFL3
11	Fry's Electronics	CFL3
12	True Value	CFL3
65	CONTRACTOR INSTALLED	CFL3
77	OTHER [Specify:]	CFL3
88	Refused	CFL3
99	Don't know	CFL3

CFL3 Were all these CFLs installed or were some put in storage for later use?

1	All installed	LI30_A
2	All in storage	CFL5
3	Some in storage, Some installed	CFL4
88	Refused	LI30_A
99	Don't Know	LI30_A

IF CFL3 = 3

CFL4 What percentage were installed?

77	Open Record	CFL5
88	Refused	CFL5
99	Don't know	CFL5

IF CFL3 = in (2, 3)

CFL5 Why were they put in storage?

77	Open Record	LI30_A
88	Refused	LI30_A
99	Don't know	LI30_A

LI30_A Considering all of the lighting changes we just discussed (purchases outside the programs), approximately what percentage of the facility's lighting was affected by those changes?

%	Percent	T12Intro
101	Refused	T12Intro
102	Don't know	T12Intro

USE OF T12s AND AWARENESS OF T12 PHASE OUT

T12Intro I would now like to ask you some questions about your familiarity with a change in the law that affects the production and availability of certain less efficient linear fluorescent lamps.

If LI1 = (4, 11) and LSP2 = (4, 20) skip to T12_1a

T12_1 Do you currently use T12 fluorescent lamps for any of your lighting needs? These would be linear fluorescent tubes that are 1.5" in diameter or are fatter/thicker than other linear fluorescent lamps.

1	Yes	T12_1a
2	No	T12_1a
88	Refused	T12_1a
99	Don't Know	T12_1a

If LI101D = (4, 21) or LI20[A-C] = (4, 21) THEN SKIP TO T12_1b

T12_1a Have you retrofitted any T12 linear fluorescent lighting systems to more energy efficient linear fluorescent lighting such as T8s or T5s within the last year?

1	Yes	T12_1b
2	No	T12_2
88	Refused	T12_2
99	Don't Know	T12_2

If T12_1 = 2 AND T12_1a = 2, GO TO CL1

If T12_1a = 1 or LINEAR = 1 or LF_DELAMP = 1, ASK;

T12_1b For what percent of the linear fluorescent lighting that you've retrofitted in the last year did you receive rebates from your utility? Your best estimate is fine.

77	RECORD percent	T12_2
101	Refused	T12_2
2	Don't Know	T12_2

IF T12_1 = 2, THEN SKIP TO T12_3. IF LI1 IN (4, 11) OR LSP2 = (4, 20), READ: "Earlier you mentioned that you use T12s or fat/thick linear fluorescent tubes for some of your lighting needs." ELSE CONTINUE WITH T12_2

T12_2 Do you carry an inventory of T12 linear fluorescent lamps to use when your existing ones burn out?

1	Yes	T12_2a
2	No	T12_3
88	Refused	T12_3
99	Don't Know	T12_3

T12_2a How long do you estimate your inventory of T12 fluorescent lamps will last?

77	RECORD length of time	T12_3
88	Refused	T12_3
99	Don't Know	T12_3

T12_3 Are you aware of the new law that came into effect in July of 2012 that has phased out the production of most T12 linear fluorescent lamps?

1	Yes	T12_5
2	No	T12_4
88	Refused	T12_4
99	Don't Know	T12_4

T12_4 You may have heard that the Department of Energy has issued a mandate that prohibits the production of less efficient fluorescent lighting systems. As of last July, the production of many T12 lamps has been phased out. Does this sound familiar?

1	Yes	T12_5
2	No	T&T
88	Refused	T&T
99	Don't Know	T&T

T12_5 How did you become aware of the law affecting the production of T12 lamps? [ALLOW MULTIPLES]

1	From a lighting retailer/vendor	T12_6

2	Utility account representative	T12_6
3	Utility program representative	T12_6
4	Utility or program website	T12_6
5	Contractor	T12_6
6	Lighting manufacturer - if selected, ask which one and RECORD	T12_6
8	Energy services company	T12_6
9	Newspaper article	T12_6
10	Radio	T12_6
11	Internet	T12_6
12	Trade publication	T12_6
13	Conference	T12_6
14	Word of mouth	T12_6
15	Result of an audit	T12_6
77	Other (RECORD VERBATIM)	T12_6
88	Refused	T12_6
99	Don't know	T12_6

ASK IF LI101D IN (4, 21) OR LI20[A-C] IN (4, 21) OR T12_1a = 1; ELSE SKIP TO T12_20

T12_6 Did you choose to replace your T12 lamps to higher efficiency linear fluorescent lighting because of the T12 phase out?

1	Yes	T12_7
2	No	T12_20
88	Refused	T12_20
99	Don't Know	T12_20

ASK IF T12_6 = 1

T12_7 Do you think the T12 phase out has had an influence on your decisions to retrofit your T12 systems earlier than you otherwise would have?

1	Yes	T12_8
2	No	T12_20
88	Refused	T12_20
99	Don't Know	T12_20

T12_8 How much earlier did you retrofit your T12 lighting systems due to the T12 phase out?

1	6 months earlier than they would have	T12_10
2	between 6 months and 1 year earlier	T12_10
3	1 to 2 years earlier	T12_10
4	2 to 4 years earlier	T12_10
5	4 to 7 years earlier	T12_10
77	Other - RECORD	T12_10
88	Refused	T12_10
99	Don't Know	T12_10

T12_10 On a scale of 0 to 10 where 10 means completely influential and 0 means not at all influential, how influential was the T12 phase out on your decision to retrofit your T12 lighting system?

77	RECORD 0 TO 10	T12_20
88	Refused	T12_20
99	Don't Know	T12_20

ASK IF T12_1 = 1 OR LI1 IN (4, 11) OR LSP2 IN (4, 20)

T12_20 Because of the T12 phase out, have you thought about replacing your T12 linear fluorescent lighting to higher efficiency linear fluorescent lighting?

1	Yes	T12_21
2	No	T12_21
88	Refused	T12_21
99	Don't Know	T12_21

T12_21 On a scale of 0 to 10 where 10 means extremely likely and 0 means not at all likely, how likely are you to replace your T12 fixtures with a lighting system that is the minimum allowable level of efficiency within the next year as a result of the T12 phase out?

77	RECORD 0 TO 10	T12_22
88	Refused	T12_22
99	Don't Know	T12_22

T12_22 On a scale of 0 to 10 where 10 means extremely likely and 0 means not at all likely, how likely are you to replace your T12 fixtures with a lighting system that is better than the minimum allowable level of efficiency within the next year as a result of the T12 phase out?

77	RECORD 0 TO 10	T&T
88	Refused	T&T
99	Don't Know	T&T

OTHER END USES

ASK ALL

CL1 What type of equipment is used to cool this facility? (allow multiples)

1	**No A/C**	R1
2	**Split system** (two components; compressor is separate from the supply air fan, air conditioner, or heat pump)	CL2
3	**Packaged systems** (one component; rooftop units)	CL2
4	**Package Terminal A/C or Heat Pump** (e.g., Hotel/Motel units)	CL2
5	**Evaporative coolers** (swamp coolers)	CL2
6	**Water or Air Chiller** (Central plant)	CL2
7	**Window/Wall Units**	CL2
77	Other (Specify)	CL2
88	Refused	CL2
99	Don’t Know	CL2

If CL1 ^= 1; else skip to R1

CL2 What is the primary fuel used by this cooling equipment?

1	Electricity	R1
2	Natural Gas	R1
3	Both Electricity and Gas	R1
77	Other (PLEASE SPECIFY)	R1

88	Refused	R1

Now I would like to ask you a couple of questions about your **refrigeration** equipment.

R1 What kinds of refrigeration equipment, if any, is present at your facility? [DO NOT READ]

1	Residential Sized Refrigerator	G1
2	Residential Sized Freezer	G1
3	Larger Standard Refrigerator (>30 cubic feet)	G1
4	Self-Contained - Coffin/Horizontal Case	G1
5	Self-Contained - Vertical Case (multi shelf)	G1
6	Single-Deck display cases - Open single-deck	G1
7	Single-Deck display cases - Closed service case	G1
8	Single-Deck display cases - Island coffin/tub (shop around)	G1
9	Single-Deck display cases - Coffin/tub (one-side shopping)	G1
10	Multi-Deck (vertical) display cases - Open/reach-in multi-deck	G1
11	Multi-Deck (vertical) display cases - Glass-door cases	G1
12	Walk-Ins and Preparation Areas - Freezer/Low Temp	G1
13	Walk-Ins and Preparation Areas - Cooler/Med Temp	G1
66	NONE - no refrigeration equipment	G1
77	Other Refrigeration (Specify)	G1
88	Refused	G1
99	Don't know	G1

G1 Which of the following natural gas equipment is present at your facility?

1	Water Heater	GH1
2	Furnace	GH1
3	Boiler	GH1
4	Stove	GH1
5	Clothes Dryer	GH1
66	NONE … Don't use Natural Gas	GH1
77	Other (specify)	GH1
88	Refused	GH1
99	Don't know	GH1

GH1 Do you have greenhouses at your facility?

1	Yes	GH2
2	No	ST1
88	Refused	ST1
99	Don’t know	ST1

Ask if GH1 = 1; Else skip to ST1;

GH2 How many square feet of greenhouses do you have at your facility?

SQFT	Square feet	ST1
88	Refused	ST1
99	Don’t know	ST1

ST1 Do you have steam traps at your facility?

1	Yes	ST2
2	No	M1
88	Refused	M1

99	Don't know	M1

Ask if ST1 = 1; Else skip to M1

ST2 How many steam traps are currently installed at your facility? Just a rough estimate would be fine.

	Number of Steam traps	M1
88	Refused	M1
99	Don't know	M1

M1 Do you currently have any motors installed in your facility?

1	Yes	M2
2	No	OT2
88	Refused	OT2
99	Don't know	OT2

Ask if M1 = 1; Else skip to OT2;

M2 How many motors are currently installed at your facility? Just a rough estimate would be fine.

	Number of Motors	M3
88	Refused	M3
99	Don't know	M3

M3 What two or three applications account for most of the *motor* energy used in your facility?

1	Pumping	OT2
2	Fans/Blowers	OT2
3	Compressed Air	OT2
4	Materials handling (conveyor belts)	OT2
5	Production process machinery	OT2
6	Ventilation/HVAC	OT2
7	Boiler fans	OT2
77	Other (Specify)	OT2
88	Refused	OT2
99	Don’t Know	OT2

OT2 Besides what we have already covered, since January 2009, have you added or replaced other equipment that is expected to significantly affect overall energy consumption (This includes Refrigeration, Cooling, Heating, and Gas Equipment)?

1	Yes	OT3
2	No	ALWAYS
88	Refused	ALWAYS
99	Don't know	ALWAYS

Ask if OT2 = 1; Else skip to ALWAYS;

OT3 Which of the following types of equipment were installed since January 2010? (READ FIRST FOUR THEN ASK FOR OTHER) &OTHEREQUIP 1

1	Food Service Equipment	OT5
2	Water Heating Equipment	OT5
3	Outdoor Lighting Equipment	OT5
4	Compressed Air Equipment	OT5
5	Heating, Ventilation, Air Conditioning or other Cooling equipment	OT5
6	Refrigeration Equipment	OT5

7	Gas Equipment	OT5
77	Other (SPECIFY) – 1st mention	OT5
88	Refused	ALWAYS
99	Don't Know	ALWAYS

For the first three equipment types mentioned in OT3, ask OT5 through OT18

Question name endings have e_# associated with the response # from OT3

OT5 Please describe the type of &OTHEREQUIP1 that was installed?

77	Record verbatim	OT6
88	Refused	OT6
99	Don't know	OT6

OT6 Please describe the quantity of &OTHEREQUIP1 that was installed?

77	Record verbatim	OT7
88	Refused	OT7
99	Don't know	OT7

OT7 Please describe the efficiency level of &OTHEREQUIP1 that was installed?

1	Standard Efficiency	OT10
2	High Efficiency	OT10
3	Energy Star	OT10
88	Refused	OT10
99	Don't know	OT10

OT10 In what year did you install OTHEREQUIP1?

1	2009	OT11
2	2010	OT11
3	2011	OT11
88	Refused	OT18
99	Don't know	OT18

OT11 And can you recall which month? If cannot get month – ask for season

1	January	OT18
3	March	OT18
4	April	OT18
5	May	OT18
6	June	OT18
7	July	OT18
8	August	OT18
9	September	OT18
10	October	OT18
11	November	OT18
12	December	OT18
13	Fall	OT18
14	Winter	OT18
15	Spring	OT18
16	Summer	OT18
88	Refused	OT18
99	Don't know	OT18

Ask if OT7 in (2-3); else skip to ALWAYS;

OT18 Did you receive a rebate for the purchase of &OTHEQUIP1?

1	Yes	ALWAYS
2	No	ALWAYS
88	Refused	ALWAYS
99	Don't know	ALWAYS

OPERATING HOURS

We are almost finished. The next few questions are to help us get a full understanding of your organization's operational hours.

ALWAYS Is your organization operation 24 hours a day, 7 days a week?

1	Yes	HOLIDAYS
2	No	HOLIDAYS
88	Refused	HOLIDAYS

HOLIDAYS Does your facility closed for any holidays during the year? If so, which one(s)?

1	New Year's Day - January 1	DAYS
2	Martin Luther King Jr. Day - January 18, 2010 (3rd Monday in January)	DAYS
3	President's Day - February 15, 2010 (3rd Monday in February)	DAYS
4	Memorial Day - May 31, 2010 (Last Monday in May)	DAYS
5	Independence Day - July 4th (Or Surrounding Monday/Friday if July 4 is a weekend)	DAYS
6	Labor Day - September 6, 2010 (First Monday in September)	DAYS
7	Thanksgiving - November 26, 2010 (4th Thursday in November)	DAYS
8	Day after Thanksgiving	DAYS
9	Christmas Eve - December 24	DAYS
10	Christmas Day - December 25	DAYS
66	NO HOLIDAY CLOSURES	DAYS
77	Other - Specify	DAYS
88	Refused	DAYS
99	Don't Know	DAYS

Ask if ALWAYS = 2; else skip to OS_REC;

DAYS Is your facility closed any of the 7 days of the week? If so, which days are you CLOSED?

1	Monday	MONDAY_OPEN
2	Tuesday	MONDAY_OPEN
3	Wednesday	MONDAY_OPEN
4	Thursday	MONDAY_OPEN
5	Friday	MONDAY_OPEN
6	Saturday	MONDAY_OPEN

7	Sunday	MONDAY_OPEN
66	Open EVERYDAY	MONDAY_OPEN
88	REFUSED	MONDAY_OPEN
99	DON'T KNOW	MONDAY_OPEN
MONDAY_OPEN	**Ask if DAYS ~= 1; else skip to TUESDAY_OPEN;** What time do you open your facility on MONDAY?	
	Record Time 1AM - 12:30 AM in 12 hour format by half hour as 1-24	MONDAY_CLOSE
88	REFUSED	MONDAY_CLOSE
99	DON'T KNOW	MONDAY_CLOSE
MONDAY_CLOSE	What time do you close your facility on MONDAY?	
	Record Time 1AM - 12:30 AM in 12 hour format by half hour as 1-24	TUESDAY_OPEN
88	REFUSED	TUESDAY_OPEN
99	DON'T KNOW	TUESDAY_OPEN
TUESDAY_OPEN	**Ask if DAYS ~= 2; else skip to WEDNESDAY_OPEN;** What time do you open your facility on TUESDAY?	
	Record Time 1AM - 12:30 AM in 12 hour format by half hour as 1-24	TUESDAY_CLOSE
88	REFUSED	TUESDAY_CLOSE
99	DON'T KNOW	TUESDAY_CLOSE
TUESDAY_CLOSE	What time do you close your facility on TUESDAY?	
	Record Time 1AM - 12:30 AM in 12 hour format by half hour as 1-24	WEDNESDAY_OPEN
88	REFUSED	WEDNESDAY_OPEN
99	DON'T KNOW	WEDNESDAY_OPEN
WEDNESDAY_OPEN	**Ask if DAYS ~= 3; else skip to THURSDAY_OPEN;** What time do you open your facility on WEDNESDAY?	
	Record Time 1AM - 12:30 AM in 12 hour format by half hour as 1-24	WEDNESDAY_CLOSE
88	REFUSED	WEDNESDAY_CLOSE
99	DON'T KNOW	WEDNESDAY_CLOSE
WEDNESDAY_CLOSE	What time do you close your facility on WEDNESDAY?	
	Record Time 1AM - 12:30 AM in 12 hour format by half hour as 1-24	THURSDAY_OPEN
88	REFUSED	THURSDAY_OPEN
99	DON'T KNOW	THURSDAY_OPEN
	Ask if DAYS ~= 4; else skip to FRIDAY_OPEN;	

THURSDAY_OPEN	What time do you open your facility on THURSDAY?	
	Record Time 1AM - 12:30 AM in 12 hour format by half hour as 1-24	THURSDAY_CLOSE
88	REFUSED	THURSDAY_CLOSE
99	DON'T KNOW	THURSDAY_CLOSE
THURSDAY_CLOSE	What time do you close your facility on THURSDAY?	
	Record Time 1AM - 12:30 AM in 12 hour format by half hour as 1-24	FRIDAY_OPEN
88	REFUSED	FRIDAY_OPEN
99	DON'T KNOW	FRIDAY_OPEN
FRIDAY_OPEN	**Ask if DAYS ~= 5; else skip to SATURDAY_OPEN;** What time do you open your facility on FRIDAY?	
	Record Time 1AM - 12:30 AM in 12 hour format by half hour as 1-24	FRIDAY_CLOSE
88	REFUSED	FRIDAY_CLOSE
99	DON'T KNOW	FRIDAY_CLOSE
FRIDAY_CLOSE	What time do you close your facility on FRIDAY?	
	Record Time 1AM - 12:30 AM in 12 hour format by half hour as 1-24	SATURDAY_OPEN
88	REFUSED	SATURDAY_OPEN
99	DON'T KNOW	SATURDAY_OPEN
SATURDAY_OPEN	**Ask if DAYS ~= 6; else skip to SUNDAY_OPEN;** What time do you open your facility on SATURDAY?	
	Record Time 1AM - 12:30 AM in 12 hour format by half hour as 1-24	SATURDAY_CLOSE
88	REFUSED	SATURDAY_CLOSE
99	DON'T KNOW	SATURDAY_CLOSE
SATURDAY_CLOSE	What time do you close your facility on SATURDAY?	
	Record Time 1AM - 12:30 AM in 12 hour format by half hour as 1-24	SUNDAY_OPEN
88	REFUSED	SUNDAY_OPEN
99	DON'T KNOW	SUNDAY_OPEN
SUNDAY_OPEN	**Ask if DAYS ~= 7; else skip to DIFF_SCHEDULE;** What time do you open your facility on SUNDAY?	
	Record Time 1AM - 12:30 AM in 12 hour format by half hour as 1-24	SUNDAY_CLOSE
88	REFUSED	SUNDAY_CLOSE
99	DON'T KNOW	SUNDAY_CLOSE

SUNDAY_CLOSE	What time do you close your facility on SUNDAY?	
	Record Time 1AM - 12:30 AM in 12 hour format by half hour as 1-24	DIFF_SCHEDULE
88	REFUSED	DIFF_SCHEDULE
99	DON'T KNOW	DIFF_SCHEDULE

DIFF_SCHEDULE	Some organizations have different schedules for certain times of the year. Does your organization maintain a different schedule for certain months of the year?	
1	Yes	MONTHS
2	No	OS_REC
88	REFUSED	OS_REC
99	DON'T KNOW	OS_REC

MONTHS	**Ask if DIFF_SCHEDULE = 1; Else skip to OS_REC;** Which months of the year does the schedule vary from the times I just recorded?	
1	January	ALT_DAYS
2	February	ALT_DAYS
3	March	ALT_DAYS
4	April	ALT_DAYS
5	May	ALT_DAYS
6	June	ALT_DAYS
7	July	ALT_DAYS
8	August	ALT_DAYS
9	September	ALT_DAYS
10	October	ALT_DAYS
11	November	ALT_DAYS
12	December	ALT_DAYS
88	REFUSED	ALT_DAYS
99	DON'T KNOW	ALT_DAYS

ALT_ALWAYS	Is your organization operation 24 hours a day, 7 days a week?	
1	Yes	HOLIDAYS
2	No	HOLIDAYS
88	Refused	HOLIDAYS

ALT_DAYS	**If ALT_ALWAYS~=1 then ask; Else skip to OS_REC;** During this alternate schedule, is your facility closed any of the 7 days of the week? If so, which days are you CLOSED?	
1	Monday	ALT_MONDAY_OPEN
2	Tuesday	ALT_MONDAY_OPEN
3	Wednesday	ALT_MONDAY_OPEN
4	Thursday	ALT_MONDAY_OPEN
5	Friday	ALT_MONDAY_OPEN
6	Saturday	ALT_MONDAY_OPEN

7	Sunday	ALT_MONDAY_OPEN
66	Open EVERYDAY	ALT_MONDAY_OPEN
88	REFUSED	ALT_MONDAY_OPEN
99	DON'T KNOW	ALT_MONDAY_OPEN
ALT_MONDAY_OPEN	**Ask if ALT_DAYS ~= 1; else skip to ALT_TUESDAY_OPEN;** For the alternate schedule, what time do you open your facility on MONDAY?	
	Record Time 1AM - 12:30 AM in 12 hour format by half hour as 1-24	ALT_MONDAY_CLOSE
88	REFUSED	ALT_MONDAY_CLOSE
99	DON'T KNOW	ALT_MONDAY_CLOSE
ALT_MONDAY_CLOSE	What time do you close your facility on MONDAY?	
	Record Time 1AM - 12:30 AM in 12 hour format by half hour as 1-24	ALT_TUESDAY_OPEN
88	REFUSED	ALT_TUESDAY_OPEN
99	DON'T KNOW	ALT_TUESDAY_OPEN
ALT_TUESDAY_OPEN	**Ask if ALT_DAYS ~= 2; else skip to ALT_WEDNESDAY_OPEN;** What time do you open your facility on TUESDAY during your alternate schedule?	
	Record Time 1AM - 12:30 AM in 12 hour format by half hour as 1-24	ALT_TUESDAY_CLOSE
88	REFUSED	ALT_TUESDAY_CLOSE
99	DON'T KNOW	ALT_TUESDAY_CLOSE
ALT_TUESDAY_CLOSE	What time do you close your facility on TUESDAY?	
	Record Time 1AM - 12:30 AM in 12 hour format by half hour as 1-24	ALT_WEDNESDAY_OPEN
88	REFUSED	ALT_WEDNESDAY_OPEN
99	DON'T KNOW	ALT_WEDNESDAY_OPEN
ALT_WEDNESDAY_OPEN	**Ask if ALT_DAYS ~= 3; else skip to ALT_THURSDAY_OPEN;** What time do you open your facility on WEDNESDAY during your alternate schedule?	
	Record Time 1AM - 12:30 AM in 12 hour format by half hour as 1-24	ALT_WEDNESDAY_CLOSE
88	REFUSED	ALT_WEDNESDAY_CLOSE
99	DON'T KNOW	ALT_WEDNESDAY_CLOSE
ALT_WEDNESDAY_CLOSE	What time do you close your facility on WEDNESDAY?	
	Record Time 1AM - 12:30 AM in 12 hour format by half hour as 1-24	ALT_THURSDAY_OPEN
88	REFUSED	ALT_THURSDAY_OPEN
99	DON'T KNOW	ALT_THURSDAY_OPEN
	Ask if ALT_DAYS ~= 4; else skip to ALT_FRIDAY_OPEN;	

ALT_THURSDAY_OPEN	What time do you open your facility on THURSDAY during your alternate schedule?	
	Record Time 1AM - 12:30 AM in 12 hour format by half hour as 1-24	ALT_THURSDAY_CLOSE
88	REFUSED	ALT_THURSDAY_CLOSE
99	DON'T KNOW	ALT_THURSDAY_CLOSE
ALT_THURSDAY_CLOSE	What time do you close your facility on THURSDAY?	
	Record Time 1AM - 12:30 AM in 12 hour format by half hour as 1-24	ALT_FRIDAY_OPEN
88	REFUSED	ALT_FRIDAY_OPEN
99	DON'T KNOW	ALT_FRIDAY_OPEN
ALT_FRIDAY_OPEN	**Ask if ALT_DAYS ~= 5; else skip to ALT_SATURDAY_OPEN;** What time do you open your facility on FRIDAY during this alternate schedule?	
	Record Time 1AM - 12:30 AM in 12 hour format by half hour as 1-24	ALT_FRIDAY_CLOSE
88	REFUSED	ALT_FRIDAY_CLOSE
99	DON'T KNOW	ALT_FRIDAY_CLOSE
ALT_FRIDAY_CLOSE	What time do you close your facility on FRIDAY?	
	Record Time 1AM - 12:30 AM in 12 hour format by half hour as 1-24	ALT_SATURDAY_OPEN
88	REFUSED	ALT_SATURDAY_OPEN
99	DON'T KNOW	ALT_SATURDAY_OPEN
ALT_SATURDAY_OPEN	**Ask if ALT_DAYS ~= 6; else skip to ALT_SUNDAY_OPEN;** I recorded that during your alternate schedule you are also open on Saturday. What time do you open your facility on SATURDAY?	
	Record Time 1AM - 12:30 AM in 12 hour format by half hour as 1-24	ALT_SATURDAY_CLOSE
88	REFUSED	ALT_SATURDAY_CLOSE
99	DON'T KNOW	ALT_SATURDAY_CLOSE
ALT_SATURDAY_CLOSE	What time do you close your facility on SATURDAY?	
	Record Time 1AM - 12:30 AM in 12 hour format by half hour as 1-24	ALT_SUNDAY_OPEN
88	REFUSED	ALT_SUNDAY_OPEN
99	DON'T KNOW	ALT_SUNDAY_OPEN
ALT_SUNDAY_OPEN	**Ask if ALT_DAYS ~= 7; else skip to OS_REC;** I recorded that during your alternate schedule you are also open on Sunday. What time do you open your facility on SUNDAY?	
	Record Time 1AM - 12:30 AM in 12 hour format by half hour as 1-24	ALT_SUNDAY_CLOSE
88	REFUSED	ALT_SUNDAY_CLOSE

99	DON'T KNOW	ALT_SUNDAY_CLOSE

ALT_SUNDAY_CLOSE What time do you close your facility on SUNDAY?

	Record Time 1AM - 12:30 AM in 12 hour format by half hour as 1-24	OS_REC
88	REFUSED	OS_REC
99	DON'T KNOW	OS_REC

ONSITE RECRUITING

TO SCHEDULE INSTALLATION OF LIGHTING LOGGERS

If Logger_Flag = 1; Else Skip to Comment1

In order to improve this program's performance, &UTILITY would also like to make an accurate measurement of the energy savings associated with fluorescent lighting by collecting and analyzing information from selected customers.

If you agree to participate, Itron, on behalf of &UTILITY, will come to your business to install lighting logger devices on your lights to record when each light is in use. The lighting loggers would then be installed in an unobtrusive place and would be removed by us at the end of the research project. We expect the site visit to take about two hours. We'll come back and remove the logger devices within 3-6 months. Note, the electric use data will be used strictly for the study of the &Program and will not affect your electric service at all. You will need to sign a brief participation agreement.

LOG_REC Are you interested in participating in this project?

1	Yes	Comment2
2	No	Comment1
88	Refused	Comment1
99	Don't know	Comment1

TO SCHEDULE ONSITE VERIFICATION

COMMENT1 As we've discussed, the &Program is an important component of the California Public Utilities Commission's ongoing efforts to save energy and reduce emissions affecting climate change. In order to improve this program's performance, the CPUC would like to make an accurate measurement of the energy savings associated with energy efficiency equipment installed by collecting and analyzing information from selected customers.

COMMENT2 Your input to this research is extremely important. By receiving a rebate through the &PROGRAM, your firm has agreed to allow verification of the installation of the equipment rebated through the program.

Our verification technician will need to meet a facilities representative of your company. This should be either the manager of the facility or part of the facilities staff.

OS_NAME1 May I please have the name of the person who our technician can call you to set up an appointment time?

77	Record Name	OS_PHONE1
99	Don't know	T&T

OS_PHONE1 May I also have the best phone number for the technician to reach this person?

&OS_PHONE1	PHONE FOR PRIMARY CONTACT	OTHER
88	Refused	T&T
99	Don't know	T&T
OTHER	Is there another person that the engineer might speak with at your company, if this primary person is not available?	
&OTHER	Get name	OS_NAME2
88	Refused	T&T
99	Don't know	T&T
OS_NAME2	May I please have their name so our technician can call them at another time?	
&OS_NAME2	Get name	OS_PHONE2
88	Refused	T&T
99	Don't know	T&T
OS_PHONE2	May I also have the best phone number for the technician to reach them?	
&OS_PHONE2	Get phone number	HB_Lift
88	Refused	T&T
99	Don't know	T&T
HB_Lift	**Ask if HighBay_Flag = 1 or HB1>1=13 or HB2 = 1 or HB1a = 1; Else skip to VERIFY;** Do you have some form or a lift or ladder available to reach the lighting at your facility that is located 13ft or more above ground?	
1	Yes	VERIFY
2	No	VERIFY
88	Refused	T&T
99	Don't know	T&T
OS_Business	Do you have a sign or business name other than &BUSINESS that our technicians should look for when they visit your site?	
1	Yes	OS_Bus_name
2	No	Vendor_Name
88	Refused	T&T
99	Don't know	T&T
OS_Bus_Name	What is the sign or business name they should be looking for?	
1	Get name	OS_REC
VENDOR_NAME	You mentioned that you had a vendor/contractor that helped you with the installation of the lighting equipment that was installed through the 2010-2012 &IOU &PROGRAM program. Can you give me his or her name? !!___Do you have his/her email address? !___Do you have a phone number for him/her? !___Do you have a cell phone number for him/her?\,	
77	RECORD NAME, Phone, Email ETC	VERIFY
88	Refused	VERIFY
99	Don't know	VERIFY
END.	Those are all the questions I have for today. Thank you for your time and help in this important study.	

Appendix B

WO29 Onsite Survey Instrument

CPUC 2012 Non-Residential Lighting Evaluation
On-Site Verification Survey Form

General Site Information (from phone survey & IOU tracking database)

Itron SiteID			
Sample Strata		What to Do	
Evaluation Phase		What to Log	

Corporate (Multi-Site) Name			
Business Name (Tracking Data)			
Actual Business Name			
Service Address			
City		Zip Code	
CORRECTIONS TO SITE INFORMATION			
Revised Corp. (Multi-Site) Name			
Revised Business Name			
Revised Service Address			
Revised City		Revised Zip	

Site Contact Information

PS Completion Date:	_____	Length (min)	____	Respondent:		Date of Install:	

	Contacted	Contact Name	Phone Number	Alternate Phone	Email Address
OS Primary	☐				
OS Back-up	☐				
OS Other	☐				

Note: Use the "Contacted" check box to indicate the actual contact(s) for the site visit.

Scheduling Notes/Special Instructions for On-site Visit: _____

_____

_____

Survey Tracking Information

Survey Company:		Assigned Surveyor's Initials:	
Survey Travel Mileage:	miles	Total Travel Time	hrs
Survey Duration (24 hr clock)	Start:	Survey Duration (24 hr clock)	End:
Total Onsite Time	hrs	Total Time to Fill Out Survey Form	hrs

	Date:	Initials
Field survey completed:	__ __ / __ __ / __ __	__ __ __
Survey received from surveyor:	__ __ / __ __ / __ __	__ __ __
Initial QC check completed:	__ __ / __ __ / __ __	__ __ __
Survey sent back to surveyor (*if needed*):	__ __ / __ __ / __ __	__ __ __
Received from surveyor (*if needed*):	__ __ / __ __ / __ __	__ __ __
Itron QC completed:	__ __ / __ __ / __ __	__ __ __
Data entry (DE) completed:	__ __ / __ __ / __ __	__ __ __
Logger extraction DE complete:	__ __ / __ __ / __ __	__ __ __
Follow-up Logger Extraction DE complete:	__ __ / __ __ / __ __	__ __ __

IOU Tracking Data Measure Summary Sheet

This is a summary of all of the measures implemented at this site as extracted from the IOU tracking database. All of the measures listed here should also be found on the measure-level verification forms.

Measure Category	Meas ID	Measure Code	IOU MeasureName	Unit Basis	Rebated # of Units	Reference Meas Code

Lighting Other Description

Measure Code	Revised MeasureName Description	Rebated # of Units

Phone Survey Self-Reported Measure Counts for Calculated kWh Measures

CATI Measure Category-RebatedUnits-UnitBasis	Self Report # of Units

Phone Survey CFL-Specific Information

CATI Measure Category	Self Report % in Storage	% Installed outside this Facility

CFLs: Self-Report # of CFLs bought Outside Program	

Phone Survey High Bay Information

High Bay?	Max Fixture Height (ft)	Access to fixtures via lift or ladder?

Custom Measure Summary

Meas ID	Measure Name	Measure State	Activity Area	Unit Basis	Qty	Lamps per Fixture	Length	Type	Watts

Site & Business Characteristics

PRIMARY BUSINESS TYPE CODE *(do not leave blank)*:		*(Use codes from Business Type Table on next page)*

Phone Survey	**Phone Survey Building Type:**	*FM050*
	Detailed Building Type:	*FM050a-j*

Primary Product or Service: Give a brief description about the type of work and/or primary product/service. What is the primary activity(ies) that occur here and what makes this premise unique from other businesses of this type?	
Recent Survey Area Changes: Give a brief description about any changes made to this site since January 2009 that significantly impacted energy usage.	
Percent of Site Lighting Retrofitted: What percent of the site lighting was retrofitted? Describe whether it was almost all of the lighting or just certain areas.	

Fields in this table will be populated as much as possible with data from the phone survey. However, any fields that are blank should be completed during the on-site verification. Any fields that are incorrect should also be corrected.

Electric Utility	PGE SCE SDGE SMUD LADWP OT _____		
Gas Utility	PGE SCG SDGE AllElec/None Propane LBGO SWG OT _____		
Is this premise owner-occupied (**O**) or leased (**L**)?	*CC4*	Revised	O L
How many full-time equivalent employees work at this premise?	*FM070*	Revised	
What is the total occupied floor area of this premise? (exclude prkg garage)	*CC2a / CC2b* ft^2	Revised	_____ft^2
-- If the premise has an enclosed parking garage, what is the floor area?	_____ft^2		
What percent of the total floor area is heated or cooled?	*CC2c / CC2d* %	Revised	_____%
How many buildings are part of this premise?			
What year was this business established at this location?	*CC12a*	Revised	
What year was the majority of the facility built?	*CC8*	Revised	
Cooling Type: 1=No A/C 2=Split-System 3=PkgRooftop 4=PTAC/PTHP 5=EvapCool 6=Chiller 7=IndivAC/HP 8=WLHP OT=Other		Revised	
Heating Fuel Type: 1=Electric 2=Gas 3=Both 4=Propane 5=None OT=Other		Revised	
What kind of site is this? **P** = Part of a bldg **B** = Single building **SM** = Small multi-building **CM** = Campus (multi-bldg, subsampled bldgs) **OT** = Other _____			
For single, stand-alone buildings or partial buildings: Number of stories/floors			

Premise-Level Schedule Definitions

Standard Holidays *(check all that apply)* ☐ N/A

Indicate below which, if any, standard holidays that the business is closed or operation deviates drastically from normal/typical operations, and indicate on Form BUS_HRS what the holiday operation hours are. Indicate any additional holidays in the comment block.

New Year's Eve	☐	July 4th Celebrated	☐
New Year's Day	☐	Labor Day	☐
New Year's Day Celebrated	☐	Columbus Day	☐
Martin Luther King Day	☐	Veterans' Day	☐
Presidents' Day	☐	Thanksgiving	☐
St. Patrick's Day	☐	Thanksgiving Friday	☐
Easter Sunday	☐	Christmas Eve	☐
Memorial Day	☐	Christmas Day	☐
Flag Day	☐	Christmas Day Celebrated	☐
July 4th	☐	Caesar Chavez Day	☐
Other (1) _____	☐	Other (2)_____	☐

Seasonal Operation Periods ☐ N/A

Define seasonal operation periods for significant periods of time where business hours and/or equipment operation differs significantly from normal or typical business hours and/or equipment operation. To indicate seasonal operation periods, provide a brief description of the period (e.g. "spring break", "winter break", "summer break", "extended holiday hours"), and list the beginning/ending months (1-12) and days for up to three time periods.

Typical Schedule			**Seasonal Time Period**					
1			**2**			**3**		
Description _____			Description _____			Description _____		
Begin Month/Day			Begin Month/Day			Begin Month/Day		
End Month/Day			End Month/Day			End Month/Day		
Begin Month/Day			Begin Month/Day			Begin Month/Day		
End Month/Day			End Month/Day			End Month/Day		
Begin Month/Day			Begin Month/Day			Begin Month/Day		
End Month/Day			End Month/Day			End Month/Day		

Holiday and Seasonal Operation Comments:

_____
_____
_____
_____
_____
_____

Business Schedule

Primary Business Hours

Define typical operation for all Day Types listed below and specify hours in military time (00 to 24). For partial (i.e. not full) operation days, also indicate the approximate % of full operation as Partial Op %.

Day Type	From Phone Survey	Corrected Business Hours	Closed All Day?	Open 24 hrs?	PartialOp%
Monday	from _____ to _____	from _____ to_____			
Tuesday	from _____ to _____	from _____ to_____			
Wednesday	from _____ to _____	from _____ to_____			
Thursday	from _____ to _____	from _____ to_____			
Friday	from _____ to _____	from _____ to_____			
Saturday	from _____ to _____	from _____ to_____			
Sunday	from _____ to _____	from _____ to_____			
Holidays	from _____ to _____	from _____ to_____			

Seasonal Operation Business Hours – Time Period 2

☐ N/A

Day Type	From Phone Survey	Corrected Business Hours	Closed All Day?	Open 24 hrs?	PartialOp%
Monday	from _____ to _____	from _____ to_____			
Tuesday	from _____ to _____	from _____ to_____			
Wednesday	from _____ to _____	from _____ to_____			
Thursday	from _____ to _____	from _____ to_____			
Friday	from _____ to _____	from _____ to_____			
Saturday	from _____ to _____	from _____ to_____			
Sunday	from _____ to _____	from _____ to_____			
Holidays	from _____ to _____	from _____ to_____			

Seasonal Operation Business Hours – Time Period 3

☐ N/A

Day Type	Business Hours	Closed All Day?	Open 24 hrs?	PartialOp%
Monday	from _____ to_____	Y N	Y N	
Tuesday	from _____ to_____	Y N	Y N	
Wednesday	from _____ to_____	Y N	Y N	
Thursday	from _____ to_____	Y N	Y N	
Friday	from _____ to_____	Y N	Y N	
Saturday	from _____ to_____	Y N	Y N	
Sunday	from _____ to_____	Y N	Y N	
Holidays	from _____ to_____	Y N	Y N	

Activity Area Definitions

Activity Area ID# Assignments *Identify an Area ID# for each distinct Activity Area type within the surveyed area. Indicate each area on the Site Plan sketch, Form PREM_SKETCH. Also consider lighting system controls and operation when defining these areas.*

Area ID#	Activity Area Code (AA Code)	Surveyor's Description of Area (include floor and Bldg identifiers if needed)	% of Total Premise Floor Area	Windows or Skylights	Conditioned Space Type Code	Total Qty of this Area Type On-site
1				W S		
2				W S		
3				W S		
4				W S		
5				W S		
6				W S		
7				W S		
8				W S		
9				W S		
10				W S		
11				W S		
12				W S		
13				W S		
14				W S		
15				W S		
16				W S		
17				W S		
18				W S		
19				W S		
20				W S		
21				W S		
22				W S		
23				W S		
24				W S		
25				W S		

Conditioned Space Type Codes				
CH = Cooled & Heated	CL = Only Cooled	HT = Only Heated	ECH = EvapCooled & Heated	ECL = Only EvapCool
NU = HVAC present but not used	RF = Refrigerated	UN = Unconditioned	OU = Outside	OT = Other (describe in comments)

COMMENTS:

Premise/Site-Plan Sketch

This sketch should provide a high-level view of the premise and its surroundings as it is actually configured. Attach site plans and floor plans available from other sources. Sketch all buildings and the closest streets/roadways in both directions. Mark the orientation of True North. Use multiple sheets/drawings if necessary. Also indicate the "front" or primary entrance for each building. A site map or site plans can be used in place of this, as long as streets can be shown.

Premise/Site-Plan sketch comments:

_____

_____

_____

Premise/Site-Plan Sketch

Premise/Site-Plan sketch comments:

_____

_____

_____

_____

Hourly Operation Schedules

Use this form if equipment operation is independent of Business Hours as indicated on Form BUS_HRS. Use one block for each end use. Indicate the applicable daytypes for each day type schedule, and account for all day types including holidays. Specify the % of max. occupancy or equipment-on for all time periods, and be sure to accurately capture transition periods. Pay attention to lighting control type as a separate schedule is needed for different control types.

Hour	12-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12

Schedule #_____ LtgCtrlType:_____ Description_____

Applicable DayTypes		% Equipment On											
M T W T F S S H	AM												
	PM												
M T W T F S S H	AM												
	PM												
M T W T F S S H	AM												
	PM												
M T W T F S S H	AM												
	PM												

Schedule #_____ LtgCtrlType:_____ Description_____

Applicable DayTypes		% Equipment On											
M T W T F S S H	AM												
	PM												
M T W T F S S H	AM												
	PM												
M T W T F S S H	AM												
	PM												
M T W T F S S H	AM												
	PM												

Schedule #_____ LtgCtrlType:_____ Description_____

Applicable DayTypes		% Equipment On											
M T W T F S S H	AM												
	PM												
M T W T F S S H	AM												
	PM												
M T W T F S S H	AM												
	PM												
M T W T F S S H	AM												
	PM												

Hourly Operation Schedules

Use this form if equipment operation is independent of Business Hours as indicated on Form 7a/b. Use one block for each end use. Indicate the applicable daytypes for each day type schedule, and account for all day types including holidays. Specify the % of max. occupancy or equipment-on for all time periods, and be sure to accurately capture transition periods.

Hour	12-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12

Schedule #_____ LtgCtrlType:_____ Description_____

Applicable DayTypes		% Equipment On											
M T W T F S S H	AM												
	PM												
M T W T F S S H	AM												
	PM												
M T W T F S S H	AM												
	PM												
M T W T F S S H	AM												
	PM												

Schedule #_____ LtgCtrlType:_____ Description_____

Applicable DayTypes		% Equipment On											
M T W T F S S H	AM												
	PM												
M T W T F S S H	AM												
	PM												
M T W T F S S H	AM												
	PM												
M T W T F S S H	AM												
	PM												

Schedule #_____ LtgCtrlType:_____ Description_____

Applicable DayTypes		% Equipment On											
M T W T F S S H	AM												
	PM												
M T W T F S S H	AM												
	PM												
M T W T F S S H	AM												
	PM												
M T W T F S S H	AM												
	PM												

Lighting Logger Installation Form

Use this table to record information for installed measurement devices such as lighting loggers.

Installation Date		**Extraction Date**	
Installer's Initials		**Extraction Initials**	
Scheduled Extraction Date			

Installation

Logger Serial Number					
Primary or Backup Logger?	P B	P B	P B	P B	P B
Placement Area ID# (ref only)					
Lighting Tech Type (HIM)	**CF LF HID LED HB**	**CF LF HID LED HB**	**CF LF HID LED HB**	**CF LF HID LED HB**	**CF LF HID LED HB**
Logger Placement on Fixture	**I**(nt) **E**(xt) **O**(ther)	**I**(nt) **E**(xt) **O**(ther)	**I**(nt) **E**(xt) **O**(ther)	**I**(nt) **E**(xt) **O**(ther)	**I**(nt) **E**(xt) **O**(ther)
Placement Description Include building, floor, room #, etc. and be descriptive enough that it can be located for extraction.					
Schedule #					

Extraction

Logger Intact? See Legend Belo	**Y N L *P***	**Y N L *P***	**Y N L *P***	**Y N L *P***	**Y N L *P***
Logger Tested "OK" (On/Off)	**Y N** NA	**Y N** NA	**Y N** NA	**Y N** NA	**Y N** NA
% "ON" Time	%	%	%	%	%
Extraction Comments					
Logger Date&Time (HH:MM)					
Computer Date&Time (HH:MM)					
Alternate Extraction Date					

Logger Intact: "Y" – If logger is as originally installed, does not appear to be tampered with, and display indicates the logger is working
Logger Tested "OK" – If Logger Intact was "Y" then is it properly logging the light ON/OFF, "Y" or "N"? If Logger Intact was "N" use "NA"

Lighting Logger Installation Form (continued)

Use this table to record information for installed measurement devices such as lighting loggers.

Installation

Logger Serial Number					
Primary or Backup Logger?	P B	P B	P B	P B	P B
Placement Area ID# (ref only)					
Lighting Tech Type (HIM)	**CF LF HID LED HB**	**CF LF HID LED HB**	**CF LF HID LED HB**	**CF LF HID LED HB**	**CF LF HID LED HB**
Logger Placement on Fixture	**I**(nt) **E**(xt) **O**(ther)	**I**(nt) **E**(xt) **O**(ther)	**I**(nt) **E**(xt) **O**(ther)	**I**(nt) **E**(xt) **O**(ther)	**I**(nt) **E**(xt) **O**(ther)
Placement Description Include building, floor, room #, etc. and be descriptive enough that it can be located for extraction.					
Schedule #					

Extraction

Logger Intact? (L=Lost/missing)	**Y N L *P***	**Y N L *P***	**Y N L *P***	**Y N L *P***	**Y N L *P***
Logger Tested "OK" (On/Off)	**Y N** NA	**Y N** NA	**Y N** NA	**Y N** NA	**Y N** NA
% "ON" Time	%	%	%	%	%
Extraction Comments					
Logger Date&Time (HH:MM)					
Computer Date&Time (HH:MM)					
Alternate Extraction Date					

Logger Intact: "Y" – If logger is as originally installed, does not appear to be tampered with, and display indicates the logger is working
Logger Tested "OK" – If Logger Intact is "Y" then is it properly logging the light ON/OFF, "Y" or "N"? If Logger Intact is "N" use "NA"

Lighting Logger Installation Form (continued)

Use this table to record information for installed measurement devices such as lighting loggers.

Installation

Logger Serial Number					
Primary or Backup Logger?	P B	P B	P B	P B	P B
Placement Area ID# (ref only)					
Lighting Tech Type (HIM)	**CF LF HID LED HB**	**CF LF HID LED HB**	**CF LF HID LED HB**	**CF LF HID LED HB**	**CF LF HID LED HB**
Logger Placement on Fixture	**I**(nt) **E**(xt) **O**(ther)	**I**(nt) **E**(xt) **O**(ther)	**I**(nt) **E**(xt) **O**(ther)	**I**(nt) **E**(xt) **O**(ther)	**I**(nt) **E**(xt) **O**(ther)
Placement Description Include building, floor, room #, etc. and be descriptive enough that it can be located for extraction.					
Schedule #					

Extraction

Logger Intact? (L=Lost/missing)	**Y N L *P***	**Y N L *P***	**Y N L *P***	**Y N L *P***	**Y N L *P***
Logger Tested "OK" (On/Off)	**Y N** NA	**Y N** NA	**Y N** NA	**Y N** NA	**Y N** NA
% "ON" Time	%	%	%	%	%
Extraction Comments					
Logger Date&Time (HH:MM)					
Computer Date&Time (HH:MM)					
Alternate Extraction Date					

Logger Intact: "Y" – If logger is as originally installed, does not appear to be tampered with, and display indicates the logger is working
Logger Tested "OK" – If Logger Intact is "Y" then is it properly logging the light ON/OFF, "Y" or "N"? If Logger Intact is "N" use "NA"

CFL Compact Fluorescent Lighting Measures

IOU Tracking Data	Measure Category	CFL_MeasCategory
	Measure Code	CFL_OS_MeasCode
	Measure Name	CFL_OS_MeasName
	Rebated #of Units	CFL_IOUUnitQtyRebated
	IOU Unit Basis	CFL_IOUUnitBasis
	Correct Unit Basis (if incorrect above above)	
	Can Rebated measures be clearly identified?	Y N
Visual Verification Data	Inside or outside lighting?	**I O**
	Total number of fixtures	
	Number of lamps per fixture	
	Total number of lamps	
	Ltg Application Type Code	
	Fixture Mount Type Code	
	Ltg Control Code	
	***Multilevel:* Fixture or Lamp switched?**	**ML-F ML-L NA**
Verification Counts	**(A) Installed & Operational # of units (ex post quantity)**	#
	-- Was subsampling or estimation used?	**Y N**
	-- # fixtures switched off (basis may be different than IOU unit basis)	
	-- # of lamps burned out in partial operation fixtures	
	(B) # of Non-Operable (broken/entire fixture burned-out) Units in place	#
	(C) # of Units in Storage/Spares	#
	-- Utility rebate sticker observed on packages?	**Y N**
Physical Inspection Data	*Check box if Lamps/Fixtures are NOT accessible (explain in comments)*	☐
	Number of units physically inspected	
	*If more than one type	**Primary** / ***Secondary**
	Lamp Wattage	
	Make/Manufacturer	
	Model/Lamp Code	
	Energy Star Observed	
	CFL Lamp Shape Code	
	Ballast configuration: M=Modular I=Integral	**M I** / **M I**
	Lamp Base Type Code:	**P M C I MO ADP GU24 OT** / **P M C I MO ADP GU24 OT**
	# of lamps	
Baseline System Summary Data (Observed or Self-Reported)	Is post-installation operation the same as pre-retrofit operation?	**Y N**
	-- If pre-retrofit operation was different, specify Sched #	
	Approximate age of existing lighting system prior to retrofit (years)	
	Lamp Type Code	
	Lamp Wattage	
	Control Type Code	
	Number of lamps per fixture	
Observed versus Rebated # of Units is: E=Equal M=More L=Less OT (describe)		**E M L OT**
If Disposition Not Equal: Site Contact/Self-Report Questions	Self-Reported # of rebated units onsite (probe for rebated under 10-12)	
	Others purchased since rebated units installed	
	(D) # of units located at Other Affiliated Sites	#

Failed (and Replaced) <u>Rebated</u> Units (Indirect/Self-Report)	How long did units typically operate before failure (months)?		
	(E) # of rebated units that Failed, but replaced w/ incandescent		#
	# of rebated units that Failed but were replaced in-kind (Ref)		
Removed <u>Rebated</u> Units (Indirect/Self-Report)	**(F)** # of rebated units that were Removed and not replaced		#
	-- When were the units removed? (month/year if possible)		
	-- Describe why units were removed in comments		
(Sum A-F) Total # of units accounted for on-site			**(reqd)**
Total # of units (A-F) MORE than Rebated # of Units	# that were rebated by other programs/projects?		
	# that were purchased at Retailer?		
	# that were received from utility give-away program?		
	# that were obtained from OTHER means (describe in comments)?		
Total # of units (A-F) LESS than Rebated # of Units	# of rebated units, other site contact explanation (note in comments)		
	# of rebated units, unaccounted for		

CFL – Activity Area Assignment Table **Measure Code:_____**

Use this table to associate CFL # of units to Activity Areas, equipment operation schedules, and lighting loggers. The values in the "Represented # of Units" column must add up to the total # of installed and operational units in the table above.

Area ID #	Sched #	Item #	Primary or Secondary Type	Control type Code	Repres. # of Units	% of Total Inst&Op. Units (Ref)	Primary Logger S/N	Ref. Logger	Back-up Logger S/N	Comments
			P S			%		☐		
			P S			%		☐		
			P S			%		☐		
			P S			%		☐		
			P S			%		☐		
			P S			%		☐		
			P S			%		☐		
			P S			%		☐		
			P S			%		☐		
			P S			%		☐		
			P S			%		☐		
			P S			%		☐		
			P S			%		☐		
			P S			%		☐		
			P S			%		☐		
						%	<= Totals # of Installed & Operational Units check *(no data entry)*			

Comments:_____

Linear Fluorescent Lighting Measures

IOU Tracking Data	Measure Category	LINFLUOR_MeasCategory
	Measure Code	*LINFLUOR_OS_MeasCode*
	Measure Name	LINFLUOR_OS_MeasName
	Rebated #of Units	LINFLUOR_IOUUnitQtyRebated
	IOU Unit Basis	*LINFLUOR_IOUUnitBasis*
	Correct Unit Basis (if incorrect above above)	
	Can Rebated measures be clearly identified?	Y N
	Associated DELAMP Measure Code *(if applicable)*	
	All associated CASCADE Measure Code(s) *(if applicable)*	
Visual Verification Data	Inside or outside lighting?	**I O**
	Ceiling height in ft	
	Fixture height from floor in ft	
	Total number of fixtures	
	PREDOMINANT # of lamps per fixture	
	Total number of lamps	
	Tube Length in ft. (e.g. 1.5 2 3 4 8)	
	Tube Diameter (T5 T8 T12)	**T8 T5 T12**
	Special fixture type: Delamped or Tandem?	**D T**
	***Multilevel:* Fixture or Lamp switched?**	**ML-F ML-L NA**
	Ltg Application Code	
	Fixture Mount type code	
	Shiny/polished reflector?	**Y N**
Verification Counts	**(A) Installed & Operational # of units (ex post quantity)**	
	-- Was sub sampling or estimation used?	**Y N**
	-- # fixtures switched off (basis may be different than IOU unit basis)	
	-- # of lamps burned out in partial operation fixtures	
	(B) # of Non-Operable (broken/entire fixture burned-out) Units in place	
	(C) # of Rebated Units in Storage/Spares	
Physical Inspection Data	*Check box if Lamps/Fixtures are NOT accessible (explain in comments)*	☐
	Number of units physically inspected	
	Lamp Wattage	
	Lamp Make/Manufacturer	
	Lamp Model/Lamp Code	
	Ballst type: **M**=Magnetic **E**=Electronic **A**=Advanced	**M E A**
	Ballast Type Code	
	Predominant Fixture Type: # of ballasts per fixture	
	Ballast Model #	
	Ballast Manufacturer/Brand	
	Secondary Fixture Type: # of ballasts per fixture	
	Ballast Model #	
	Ballast Manufacturer/Brand	
Baseline System Summary Data (Observed or Self-Reported)	Is post-installation operation the same as pre-retrofit operation?	**Y N**
	-- If pre-retrofit operation was different, specify Sched #	
	Lamp Type Code	
	Lamp Wattage	
	Control type Code	
	Tube Length and Diameter (e.g. 4ft T12)	
	Number of lamps per fixture	
	Ballast type: **M**=Magnetic **E**=Electronic **A**=Advanced	**M E A**

Observed versus Rebated # of Units is: E=Equal M=More L=Less OT (describe)		**E M L OT**
If Disposition Not Equal: Site Contact/Self-Report Questions	Self-Reported # of rebated units onsite (probe for rebated under 10-12)	
	Others purchased since rebated units installed	
	(D) # of units located at Other Affiliated Sites	
Failed (and Replaced) <u>Rebated</u> Units (Indirect/Self-Report)	How long did units typically operate before failure (months)?	
	(E) # of rebated units that Failed, but were replaced w/<u>different tech</u>	
	# of rebated units that Failed but were replaced in-kind (Ref)	
Removed <u>Rebated</u> Units (Indirect/Self-Report)	**(F)** # of rebated units that were Removed and not replaced	
	-- When were the units removed? (month/year if possible)	
	-- Describe why units were removed in comments	
(Sum A-F) Total # of units accounted for on-site		**(reqd)**
Total # of units (A-F) MORE than Rebated # of Units	# that were rebated by other programs/projects?	
	# that were obtained from OTHER means (explain in comments)?	
Total # of units (A-F) LESS than Rebated # of Units	# of rebated units, other site contact explanation (note in comments)	
	# of rebated units, unaccounted for	

Linear - Activity Area Assignment Table (AAAT) Measure Code: _____

Use the AAAT below to associate lighting units to Activity Areas, equipment oper. schedules, and lighting loggers. The values in the "Represented # of Units" column must add up to the ***total # of Installed and Operational*** *units in the table above.*

- *<u>If ONLY FIXTURE **DENT LL**</u>: Only fill out **<u>AAAT</u>** below.*
- *<u>If **DENT LL & (DENT CT or HOBO)**</u>: Fill out **<u>AAAT</u>** with logger info **&** the **<u>HIGHBAY</u>** Form for Panel Metering*
- *<u>If ONLY **PANEL METERING**</u>: Check **<u>N/A</u>** box and <u>only</u> fill out **<u>HIGHBAY</u>** Form.*

Circle all that apply: *(If Verify Only, circle 'NA', <u>and fill out AAAT</u>)*

Metering Type:	DENT LL	DENT CT	HOBO	NA

☐ **N/A**

Area ID #	Sched #	Item #	Control Type Code	Repres. # of Units	% of Total Inst&Op. Units (Ref)	Primary Logger S/N	Ref. Logger	Back-up Logger S/N	Comments
					%		☐		
					%		☐		
					%		☐		
					%		☐		
					%		☐		
					%		☐		
					%		☐		
					%		☐		
					%		☐		
					%		☐		
					%		☐		
					%		☐		
					%	<= Total # of Installed & Operational Units check *(no data entry)*			

Comments (for delamping, explain how counts were confirmed: tombstone shadows observed, etc.)**:** _____
_____
_____
_____

Baseline Technology Characterization

Approximate age of existing lighting system prior to retrofit (years)	
Prior to retrofit, if original lamps were replaced, were they replaced with **Energy Saver** lamps?	**Y N**
Since original fixtures were installed, approximately how many **ballasts** had been replaced?	
Were the replacement ballasts **M**agnetic, **E**lectronic or **A**dvanced?	**M E A**
What % of the originally installed fixtures had ballasts replaced since July 2010?	
Condition of original fixtures prior to retrofit (**G**ood, **F**air, **P**oor)	**G F P**
What % of original fixtures were completely burned out?	
What % of original fixtures were partially burned out?	
On a scale of 1-10, Please rate the following topics on their level of influence for retrofitting the lighting fixtures:	
Burned out fixtures	
Adequate lighting levels	
Major Renovation / Re-Modeling	
Safety of Occupants	
Productivity of Occupants	
Lowering energy consumption and energy bills	
Going green	
Utility Incentive	
Other (*describe in comments*)	
Considering all of the influential factors above, in the absence of an energy efficiency rebate program: How long would you have continued to operate the original fixtures before replacing them? (years)	

Comments: _____

_____

_____

_____

Delamping Lighting Measures

IOU Tracking Data	Measure Category	DELAMP_MeasCategory
	Measure Code	*DELAMP_OS_MeasCode*
	Measure Name	DELAMP_OS_MeasName
	Rebated #of Units	DELAMP_IOUUnitQtyRebated
	IOU Unit Basis	*DELAMP_IOUUnitBasis*
	Correct Unit Basis (if incorrect above above)	
	Can Rebated measures be clearly identified?	Y N
	Associated LINFLUOR Measure Code *(if applicable)*	
Visual Verification Data	Inside or outside lighting?	**I O**
	Ceiling height in ft	
	Fixture height from floor in ft	
	Total number of fixtures	
	Number of lamps per fixture	
	Number of **delamped** lamps per fixture	
	Total number of lamps	
	Tube Length in ft. (e.g. 1.5 2 3 4 8)	
	Tube Diameter (T5 T8 T12)	**T8 T5 T12**
	Special fixture type: Delamped or Tandem?	**D T**
	Multilevel: **F**ixture or **L**amp switched?	**ML-F ML-L NA**
	Ltg Application Code	
	Fixture Mount type code	
	Shiny/polished reflector?	**Y N**
Verification Counts	**(A) Delamped # of units (ex post quantity = Installed & Operable)**	
	-- Was subsampling or estimation used?	**Y N**
	-- # fixtures switched off (basis may be different than IOU unit basis)	
	-- # of lamps burned out in partial operation fixtures	
	(B) # of Non-Operable (broken/entire fixture burned-out) Units in place	
	(C) # of Rebated Units in Storage/Spares	
Physical Inspection Data	*Check box if Lamps/Fixtures are NOT accessible (explain in comments)*	☐
	Number of fixtures physically inspected (for evidence of delamping)	
	Installed Lamp Wattage	
	Installed Lamp Make/Manufacturer	
	Installed Lamp Model/Lamp Code	
	Ballst type: **M**=Magnetic **E**=Electronic **A**=Advanced	**M E A**
	Ballast Type Code	
	Predominant Fixture Type: # of ballasts per fixture	
	Ballast Model #	
	Ballast Manufacturer/Brand	
	Secondary Fixture Type: # of ballasts per fixture	
	Ballast Model #	
	Ballast Manufacturer/Brand	
Baseline System Summary Data	Is post-installation operation the same as pre-retrofit operation?	**Y N**
	-- If pre-retrofit operation was different, specify Sched #	

	Approximate age of existing lighting system prior to retrofit (years)	
	Lamp Type Code	
	Lamp Wattage	
	Tube Length and Diameter (e.g. 4ft T12)	
	Number of lamps per fixture	
	Ballast type: **M**=Magnetic **E**=Electronic **A**=Advanced	**M E A**
Observed versus Rebated # of Units is: E=Equal M=More L=Less OT (describe)		**E M L OT**
If Disposition Not Equal: Site Contact/Self-Report Questions	Self-Reported # of rebated units onsite (probe for rebated under 10-12)	
	Others purchased since rebated units installed	
	(D) # of units located at Other Affiliated Sites	
Failed (and Replaced) Rebated Units (Indirect/Self-Report)	How long did units typically operate before failure (months)?	
	(E) # of rebated units that Failed, but were replaced w/different tech	
	# of rebated units that Failed but were replaced in-kind (Ref)	
Removed Rebated Units (Indirect/Self-Report)	**(F)** # of rebated units that were Removed and not replaced	
	-- When were the units removed? (month/year if possible)	
(Sum A-F) Total # of units accounted for on-site		**(reqd)**
Total # of units (A-F) MORE than Rebated # of Units	# that were rebated by other programs/projects?	
	# that were obtained from other means (explain in comments)?	
Total # of units (A-F) LESS than Rebated # of Units	# of rebated units, other site contact explanation (note in comments)	
	# of rebated units, unaccounted for	

Delamping – Activity Area Assignment Table Measure Code:_____

For fixtures that are covered by both a* LF *and a* Delamping *measure, the logger information should be recorded on the LF form and copied below, making sure to check all Ref. Logger boxes. *Use this table to associate lighting units to Activity Areas, equipment operation schedules, and lighting loggers. The values in the "Represented # of Units" column must add up to the total # of installed and operational units in the table above.*

Area ID #	Sched #	Item #	Control Type Code	Repres. # of Units	% of Total Inst&Op. Units (Ref)	Primary Logger S/N	Ref. Logger	Back-up Logger S/N	Comments
					%		☐		
					%		☐		
					%		☐		
					%		☐		
					%		☐		
					%		☐		
					%		☐		
					%		☐		
					%		☐		
					%		☐		
					%		☐		
					%	<= Total # of Installed & Operational Units check *(no data entry)*			

Comments (for delamping, explain how counts were confirmed: tombstone shadows observed, etc. and any discrepancies in observed versus rebated quantities)**:** _____

_____

Occupancy Sensor Lighting Measures (1 of 2): Verification Totals

NOTE: If any lighting measures are associated with the Occupancy Sensors, **FIRST** fill out the lighting measure forms, then fill out this form, making sure to link the Occ. Sensor **Item #'s** to the other measure forms.

IOU Tracking Data	Measure Category	LIGHTINGCONTROL_MeasCategory
	Measure Code	LIGHTINGCONTROL _OS_MeasCode
	Measure Name	LIGHTINGCONTROL _OS_MeasName
	Rebated #of Units	LIGHTINGCONTROL _IOUUnitQtyRebated
	IOU Unit Basis	LIGHTINGCONTROL _IOUUnitBasis
	Correct Unit Basis (if incorrect above above)	
	Can Rebated measures be clearly identified?	Y N

Verification Counts and Physical Inspection Data	Inside or Outside Occupancy Sensors	**I O**
	Installed & Operational # of Occupancy Sensor Units (A)	
	Was subsampling or estimation used?	**Y N**
	Number of Non-Operable (broken/non-powered) Units in place (B)	
	Occupancy Sensor Make/Manufacturer	
	Occupancy Sensor Model	
	Number of Units in Storage/Spares (C)	
	Check box if Lamps/Fixtures are NOT accessible (explain in comments)	☐
	Number of units physically inspected	
Controlled Wattage	Controlled Total Nominal Lamp Wattage: ***(Sum of All (F)'s from the Controlled Watts Detail tables)***	
	Observed versus Rebated # of Units is: E=Equal M=More L=Less OT (describe)	**E M L OT**
If Disposition Not Equal: Site Contact/Self-Report Questions	Self-Reported # of rebated units onsite (probe for rebated under 10-12)	
	Others purchased since rebated units installed	
	(D) # of units located at Other Affiliated Sites	
Failed (and Replaced) Rebated Units (Indirect/Self-Report)	How long did units typically operate before failure (months)?	
	(E) # of rebated units that Failed, but were replaced w/different tech	
	# of rebated units that Failed but were replaced in-kind (Ref)	
Removed Rebated Units (Indirect/Self-Report)	**(F)** # of rebated units that were Removed and not replaced	
	-- When were the units removed? (month/year if possible	
	-- Describe why units were removed in comments	
	(Sum A-F) Total # of units accounted for on-site	**(reqd)**
Total # of units (A-F) MORE than Rebated # of Units	# that were rebated by other programs/projects	
	# that were obtained from OTHER means (explain in comments)	
Total # of units (A-F) LESS than Rebated # of Units	# of rebated units, other site contact explanation (note in comments)	
	# of rebated units, unaccounted for	

Comments:_____

Occ. Sensor Ltg Measures (2 of 2): Controlled Watts Detail **Measure:_____**

Control Information						
OccupancySensor Item #						
Associated **Panel Meter Item #**: *(if applicable)*						
Installed & Operational *(OP)* or Non-Operable *(N-OP)*	OP	N-OP	OP	N-OP	OP	N-OP
Inside or Outside Occupancy Sensor(s)	I	O	I	O	I	O
Area ID # / Sched #						
Control Type Code						
Control Time Delay (minutes)						
If Non-Operable, **Control Type Code** now controlling fixtures						
Were sensors added to a **non**-retroffited lighting system?	Y	N	Y	N	Y	N
Associated Lighting Measure Code(s) If **'N'** & applicable						
Lamp Type code						
Total # of Controls represented here: ***(A)***						
# of Fixtures on EACH control ***(B)***						
# of Lamps Per Fixture Controlled by Occ. Sensor ***(C)***						
# of Lamps per fixture						
Total number of lamps burnt out ***(D)***						
Number of Fixtures physically inspected						
Lamp Make/Manufacturer						
Lamp Model						
Lamp Wattage ***(E)***						
Total Controlled Lamp Wattage: ***(A*B*C*E)-(D*E)*** ***(F)***						
Tube diameter (T8 or T5)						
Ballst type:	**M**	**E** **A**	**M**	**E** **A**	**M**	**E** **A**
Ballast Type Code						
# of Ballasts per fixture						
Ballast Manufacturer/Brand						
Ballast Model #						
Baseline System Summary Data (observed or self-eported)						
Pre-retrofit Control Type Code						
(required) Pre-retrofit operation Sched #						
Approximate age of existing lighting system prior to retrofit						
Logger Information						
Logger Type: *(**DCT** = DENT CT, **H**=HOBO, **DLL**=DENT LL)*	DCT	H DLL	DCT	H DLL	DCT	H DLL
Primary Logger S/N:						
Reference Logger: *(Check if logger info already exists on this form or another)*	☐		☐		☐	
Backup Logger S/N:						
Logger Channel # HOBO						
CT Amp size HOBO						
Comments: *(Make sure to provide detailed comments about the information above and/or logger, if it is associated with other measures, Acitvity Area Assignement Tables, or Panel Metering)*						

HID High Intensity Discharge Lighting Measures

IOU Tracking Data	Measure Category	HID_MeasCategory
	Measure Code	HID_OS_MeasCode
	Measure Name	HID_OS_MeasName
	Rebated #of Units	HID_IOUUnitQtyRebated
	IOU Unit Basis	HID_IOUUnitBasis
	Correct Unit Basis (if incorrect above above)	
	Can Rebated measures be clearly identified?	Y N
Visual Verification Data	Inside or outside lighting?	**I O**
	Lamp Type Code	
	Ceiling height in ft	
	Fixture height from floor in ft	
	Total number of fixtures	
	Number of lamps per fixture	
	***Multilevel:* Fixture or Lamp switched?**	**ML-F ML-L NA**
	Total number of lamps	
	Ltg Control Type Code	
	Ltg Application Code	
	Fixture Mount type code	
Verification Counts	**(A) Installed & Operational (or delamped) # of units (ex post quantity)**	
	-- Was subsampling or estimation used?	**Y N**
	-- # fixtures switched off (basis may be different than IOU unit basis)	
	-- # of lamps burned out in partial operation fixtures	
	(B) # of Non-Operable (broken/entire fixture burned-out) Units in place	
	(C) # of Rebated Units in Storage/Spares	
Physical Inspection Data	*Check box if Lamps/Fixtures are NOT accessible (explain in comments)*	☐
	Number of units physically inspected	
	Lamp Wattage	
	Lamp Make/Manufacturer	
	Lamp Model/Lamp Code	
	Ballst type: **M**=Magnetic **E**=Electronic **A**=Advanced	**M E A**
	Ballast Type Code	
	Predominant Fixture Type: # of ballasts per fixture	
	Ballast Model #	
	Ballast Manufacturer/Brand	
	Secondary Fixture Type: # of ballasts per fixture	
	Ballast Model #	
	Ballast Manufacturer/Brand	
Baseline System Summary Data (Observed or Self-Reported)	Is post-installation operation the same as pre-retrofit operation?	**Y N**
	-- If pre-retrofit operation was different, specify Sched #	
	Approximate age of exisiting lighting system prior to retrofit (years)	
	Lamp Type Code	
	Lamp Wattage	
	Tube Length and Diameter (e.g. 4ft T12)	
	Number of lamps per fixture	
	Ballast type: **M**=Magnetic **E**=Electronic **A**=Advanced	**M E A**
Observed versus Rebated # of Units is: E=Equal M=More L=Less OT (describe)		**E M L OT**

If Disposition Not Equal: Site Contact/Self-Report Questions	Self-Reported # of rebated units onsite (probe for rebated under 10-12)	
	Others purchased since rebated units installed	
	(D) # of units located at Other Affiliated Sites	
Failed (and Replaced) Rebated Units (Indirect/Self-Report)	How long did units typically operate before failure (months)?	
	(E) # of rebated units that Failed, but were replaced w/different tech	
	# of rebated units that Failed but were replaced in-kind (Ref)	
Removed Rebated Units (Indirect/Self-Report)	**(F)** # of rebated units that were Removed and not replaced	
	-- When were the units removed? (month/year if possible)	
	-- Describe why units were removed in comments	
	(Sum A-F) Total # of units accounted for on-site	**(reqd)**
Total # of units (A-F) MORE than Rebated # of Units	# that were rebated by other programs/projects?	
	# that were obtained from OTHER means (explain in comments)?	
Total # of units (A-F) LESS than Rebated # of Units	# of rebated units, other site contact explanation (note in comments)	
	# of rebated units, unaccounted for	

HID Lighting – Activity Area Assignment Table (AAAT) Measure Code: _____

Use the AAAT below to associate lighting units to Activity Areas, equipment oper. schedules, and lighting loggers. The values in the "Represented # of Units" column must add up to the total # of installed and operational units in the table above.

- *If only **DENT LL**: Only fill out **AAAT** below.*
- *If **DENT LL & (DENT CT or HOBO)**: Fill out **AAAT** with **DENT LL** info, & **HIGHBAY** Form for Panel Metering*
- *If only **DENT CT** or **HOBO**: Check **N/A** box and only fill out **HIGHBAY** Form.*

Circle all that apply: *(If Verify Only, circle 'NA', and fill out AAAT)*

Metering Type:	DENT LL	DENT CT	HOBO	NA

☐ **N/A**

Area ID #	Sched #	Item #	Control Type Code	Repres. # of Units	% of Total Inst&Op. Units (Ref)	Primary Logger S/N	Ref. Logger	Back-up Logger S/N	Comments
					%		☐		
					%		☐		
					%		☐		
					%		☐		
					%		☐		
					%		☐		
					%		☐		
					%		☐		
					%		☐		
					%		☐		
					%		☐		
					%		☐		
					%		☐		
					%		☐		
					%	<= Total # of Installed & Operational Units check *(no data entry)*			

Comments:_____

LED Lamp Lighting Measures

IOU Tracking Data	Measure Category	LED_MeasCategory
	Engineering Estimation Method	LED_EngEstMethod
	Measure Code	LED_OS_MeasCode
	Measure Name	LED_OS_MeasName
	Rebated #of Units	LED_IOUUnitQtyRebated
	IOU Unit Basis	LED_IOUUnitBasis
	Correct Unit Basis (only if incorrect above)	
	Can Rebated measures be clearly identified?	Y N
Visual Verification Data	Inside or outside lighting?	**I O**
	Total number of fixtures	
	Number of lamps per fixture	
	Total number of lamps	
	Ltg Application Type Code	
	Fixture Mount Type Code	
	Ltg Control Code	
	***Multilevel:* Fixture or Lamp switched?**	**ML-F ML-L NA**
Verification Counts	**(A) Installed & Operational # of units (ex post quantity)**	
	-- Was subsampling or estimation used?	**Y N**
	-- # fixtures switched off (basis may be different than IOU unit basis)	
	-- # of lamps burned out in partial operation fixtures	
	(B) # of Non-Operable (broken/entire fixture burned-out) Units in place	
	(C) # of Units in Storage/Spares	
	-- Utility rebate sticker observed on packages?	**Y N**
Physical Inspection Data	*Lamps/fixtures are NOT accessible (Check box & explain in comments)*	☐
	Number of units physically inspected	
	*If more than one type	**Primary** / ***Secondary**
	Lamp Wattage	
	Make/Manufacturer	
	Model/Lamp Code	
	Lamp Shape/Features Code	
	Lamp Base Type Code:	**P M C I MO ADP GU24 OT** / **P M C I MO ADP GU24 OT**
	Installed and OP # of lamps	
Baseline System Summary Data (Observed or Self-Reported)	Is post-installation operation the same as pre-retrofit operation?	**Y N**
	-- If pre-retrofit operation was different, specify Sched #	
	Lamp Type Code	
	Watts per lamp	
	Number of lamps per fixture	
Observed versus Rebated # of Units is: E=Equal M=More L=Less OT (describe)		**E M L OT**
If Disposition Not Equal: Site Contact/Self-Report Questions	Self-Reported # of rebated units onsite (probe for rebated under 10-12)	
	Others purchased since rebated units installed	
	(D) # of units located at Other Affiliated Sites	

Failed (and Replaced) <u>Rebated</u> Units (Indirect/Self-Report)	How long did units typically operate before failure (months)?	
	(E) # of rebated units that Failed, but replaced w/ incandescent	
	# of rebated units that Failed but were replaced in-kind (Ref)	
Removed <u>Rebated</u> Units (Indirect/Self-Report)	**(F)** # of rebated units that were Removed and not replaced	
	-- When were the units removed? (month/year if possible)	
	-- Describe why units were removed **in comments**	
(Sum A-F) Total # of units accounted for on-site		**(reqd)**
Total # of units (A-F) MORE than Rebated # of Units	# that were rebated by other programs/projects?	
	# that were obtained from OTHER means (explain in comments)?	
Total # of units (A-F) LESS than Rebated # of Units	# of rebated units, other site contact explanation (note in comments)	
	# of rebated units, unaccounted for	

LED – Activity Area Assignment Table **Measure Code:_____**

Use this table to associate LED # of units to Activity Areas, equipment operation schedules, and lighting loggers. The values in the "Represented # of Units" column must add up to the total # of installed and operational units in the table above.

Area ID #	Sched #	Item #	Primary or Secondary Type	Control type Code	Repres. # of Units	% of Total Inst&Op. Units (Ref)	Primary Logger S/N	Ref. Logger	Back-up Logger S/N	Comments
			P S			%		☐		
			P S			%		☐		
			P S			%		☐		
			P S			%		☐		
			P S			%		☐		
			P S			%		☐		
			P S			%		☐		
			P S			%		☐		
			P S			%		☐		
			P S			%		☐		
			P S			%		☐		
			P S			%		☐		
			P S			%		☐		
			P S			%		☐		
			P S			%		☐		
						%	<= Totals # of Installed & Operational Units check *(no data entry)*			

Comments:_____

Baseline Characterization

Please describe why these lights were changed to LEDs instead of any other lighting technology	
Approximate age of existing lighting system prior to retrofit (years)	
Condition of original fixtures prior to retrofit (**G**ood, **F**air, **P**oor)	**G F P**
What % of original fixtures were completely burned out?	
What % of original fixtures were partially burned out?	
On a scale of 1-10, Please rate the following topics on their level of influence for retrofitting the lighting fixtures:	
Burned out fixtures	
Adequate lighting levels	
Major Renovation / Re-Modeling	
Safety of Occupants	
Productivity of Occupants	
Lowering energy consumption and energy bills	
Long lamp life	
Low maintenance	
Going green	
Utility Incentive	
Other (*describe in comments*)	
Considering all of the influential factors above, in the absence of an energy efficiency rebate program: How long would you have continued to operate the original fixtures before replacing them? (years)	

Comments: _____

LED Hardwired Fixture Lighting Measures

IOU Tracking Data	Measure Category		LEDFixture _MeasCategory
	Measure Code		LEDFixture *_OS_MeasCode*
	Measure Name		LEDFixture_OS_MeasName
	Rebated #of Units		LEDFixture _IOUUnitQtyRebated
	IOU Unit Basis		*LEDFixture_IOUUnitBasis*
	Correct Unit Basis (if incorrect above above)		
	Can Rebated measures be clearly identified?		Y N
Visual Verification Data	Inside or outside lighting?		**I O**
	Ceiling height in ft		
	Fixture height from floor in ft		
	Ltg Application Code		
	Fixture Mount type code		
	Total number of fixtures		
	If LED Linear Tubes or Track lighting fixtures	Fixture Replacement or Lamp Replacement	**FR LP**
		PREDOMINANT # Lamps per Fixture	
		Total number of lamps	
	Lamp Shape/Features Code		
	If LED **bar, strip, string, or tape**: Provide length (ft)		
	If LED **panel/head**: Provide dimensions (length X width in ft)		Length _____X_____Width (ft)
	If LED **linear fixture:** Fixture dimensions (length X width in ft)		Length _____X_____Width (ft)
	and Tube length (ft)		
	Multilevel: **F**ixture or **L**amp switched?		**ML-F ML-L NA**
Verification Counts	**(A) Installed & Operational # of units (ex post quantity)**		
	-- Was sub sampling or estimation used?		**Y N**
	-- # fixtures switched off (basis may be different than IOU unit basis)		
	(B) # of Non-Operable (broken/entire fixture burned-out) Units in place		
	(C) # of Rebated Units in Storage/Spares		
Physical Inspection Data	*Check box if Fixtures are NOT accessible (explain in comments)*		☐
	Number of units physically inspected		
	If the Unit Basis = Lamp: Provide Lamp information instead of Fixture info	Fixture Wattage:	
		Fixture Make/Manufacturer	
		Fixture Model Number	
Baseline System Summary Data (Observed or Self-Reported)	Is post-installation operation the same as pre-retrofit operation?		**Y N**
	-- If pre-retrofit operation was different, specify Sched #		
	Control type Code		
	Lamp Type Code		
	(If LF Baseline) - Tube Length and Diameter (e.g. 4ft T12)		
	# Lamps/Fixture		
	Lamp Wattage		
	If **NOT** LF Baseline: Fixture Description (i.e. unique characteristics)		
Observed versus Rebated # of Units is: E=Equal M=More L=Less OT (describe)			**E M L OT**
If Disposition Not Equal: Site Contact/Self-Report Questions	Self-Reported # of rebated units onsite (probe for rebated under 10-12)		
	Others purchased since rebated units installed		
	(D) # of units located at Other Affiliated Sites		
Failed (and Replaced) Rebated Units (Indirect/Self-Report)	How long did units typically operate before failure (months)?		
	(E) # of rebated units that Failed, but were replaced w/different tech		
	# of rebated units that Failed but were replaced in-kind (Ref)		

Removed Rebated Units (Indirect/Self-Report)	**(F)** # of rebated units that were Removed and not replaced	
	-- When were the units removed? (month/year if possible)	
	-- Describe why units were removed **in comments**	
(Sum A-F) Total # of units accounted for on-site		**(reqd)**
Total # of units (A-F) MORE than Rebated # of Units	# that were rebated by other programs/projects?	
	# that were obtained from OTHER means (explain in comments)?	
Total # of units (A-F) LESS than Rebated # of Units	# of rebated units, other site contact explanation (note in comments)	
	# of rebated units, unaccounted for	

LED Fixture - Activity Area Assignment Table (AAAT) Measure Code: _____

*Use the AAAT below to associate lighting units to Activity Areas, equipment oper. Schedules, and lighting loggers. The values in the "Represented # of Units" column must add up to the **total # of Installed and Operational** units in the table above.*

- *If ONLY FIXTURE **DENT LL**: Only fill out **AAAT** below.*
- *If **DENT LL & (DENT CT or HOBO)**: Fill out **AAAT** with logger info **&** the **HIGHBAY** Form for Panel Metering*
- *If ONLY **PANEL METERING**: Check **N/A** box and only fill out **HIGHBAY** Form.*

Circle all that apply: *(If Verify Only, circle 'NA', and fill out AAAT)*

Metering Type:	DENT LL	DENT CT	HOBO	NA

☐ **N/A**

Area ID #	Sched #	Item #	Control Type Code	Repres. # of Units	% of Total Inst&Op. Units (Ref)	Primary Logger S/N	Ref. Logger	Back-up Logger S/N	Comments
					%		☐		
					%		☐		
					%		☐		
					%		☐		
					%		☐		
					%		☐		
					%		☐		
					%		☐		
					%		☐		
					%		☐		
					%		☐		
					%		☐		
					%	<= Total # of Installed & Operational Units check *(no data entry)*			

Comments _____
_____
_____
_____

Baseline Characterization

Please describe why these lights were changed to LEDs instead of any other lighting technology	
Approximate age of existing lighting system prior to retrofit (years)	
Condition of original fixtures prior to retrofit (**G**ood, **F**air, **P**oor)	**G F P**
What % of original fixtures were completely burned out?	
What % of original fixtures were partially burned out?	
On a scale of 1-10, Please rate the following topics on their level of influence for retrofitting the lighting fixtures:	
Burned out fixtures	
Adequate lighting levels	
Major Renovation / Re-Modeling	
Safety of Occupants	
Productivity of Occupants	
Lowering energy consumption and energy bills	
Long lamp life	
Low maintenance	
Going green	
Utility Incentive	
Other (*describe in comments*)	
Considering all of the influential factors above, in the absence of an energy efficiency rebate program: How long would you have continued to operate the original fixtures before replacing them? (years)	

Comments: _____

Panel Meter - Circuit Spot Measurement Table: (REFERENCE ONLY – NO DATA ENTRY)

Note 1: Fill this table out, then fill out the ***Consolidated Logging Circuit Table*** below.

Circuit Label #	Phase	# Fixtures Controlled *(DD)*	# Lamps per Fixture *(EE)*	Watts per Lamp (FF)	# Lamps Burnt Out (GG)	*(DD*EE*FF) -(FF*GG)* Calc. Circuit Watts *(HH)*	Measured Circuit Watts (MW) *(II)*	PF (JJ)	Measured Volts *(KK)*	Measured Amps *(LL)*	Measured Parasistic Watts *(MM)*	Comments

Panel Meter – Consolidated Logging Circuit Table: (REFERENCE ONLY – NO DATA ENTRY)

Note 1: After each circuit measurement is recorded in the table above, fill out the table below; here you can roll up >1 circuit into a single CT channel (if on the same phase).
Note 2: You will copy **ALL** values from the table below into their fields on the ***Panel Meter – Final Spot Measurement and Logging*** form.
Note 3: The "**Item #**" below should correlate to the "**Item #**" on the ***Panel Meter – Final Spot Measurement and Logging*** form.

	From table above			*DCT or HOBO*		*(HOBO)*	*From applicalbe fields in table above*					*From applicalbe fields in table above*				
Item # *(A)*	Circuit Label #*(s)* *(B)*		Phase *(C)*	Logger Type *(X)*	Logger ID *(Y)*	CT Channel # *(Z)*	Total Fixtures Controlled *(D)*	# Lamps per Fixture *(E)*	Watts per Lamp *(F)*	# Lamps Burnt Out *(G)*	Sum Circuit Watts *(H)*	Sum Meas. Watts *(I)*	Avg. *PF* (J)	Avg. Meas. Volts *(K)*	Sum *Meas. Amp* *(L)*	Sum Parasitic Watts *(M)*

Panel Meter – Final Spot Measurement and Logging – (DATA ENTRY)

Breaker Circuit and Point of Control (POC) Assessment							
Panel Meter Item #:	***(A)***						
Associated Measure Code(s)							
IOU Unit Basis							
Panel number/identifier (if applicable)							
Circuit Label Number(s):	***(B)***						
Phase of Circuit(s):	***(C)***	A B C		A B C		A B C	
Breaker(s) Rated Amps							
Control Type Code (CTC)							
# Wall switches connected to this Circuit							
Circuit Configuration Code (CCC)							
Schedule #							
Area ID #: *(if >1 AA, enter from left to right)*							
# Rebated Controls per Activity Area(s) above:							
Fixture Verification and Nominal Watt Calculation							
Circuit(s) tested (On/Off)?		Y N		Y N		Y N	
# of Rebated **Units** on Circuit(s)		`					
# of Rebated Fixtures controlled by Circuit(s):	***(D)***						
# of Rebated Lamps per Fixture:	***(E)***						
Rated Lamp Wattage:	***(F)***						
# of Lamps Burned-out or Non-Operable:	***(G)***						
Total Nominal Rebated Circuit(s) Watts: ***(D*E*F)-(F*G)***	***(H)***						
Spot Measurements							
Max Measured Wattage: (with all fixtures on Circuit ON):	***(I)***		G N		G N		G N
Power Factor: *(if 2 circuits on 1 CT, average the PF)*:	***(J)***						
Measured Circuit(s) Voltage: (to Ground or Neutral):	***(K)***						
Max Measured Amperage: (with all fixtures 'ON'):	***(L)***						
% Meas. vs. Calc. Watts: ***(I/H*100)***; Is this between 90-110%?		%	Y N	%	Y N	%	Y N
Non-Rebated or Parsitic Loads							
Do Non-Rebated or Parasitic Loads exist on this Circuit?		Y N DK		Y N DK		Y N DK	
Is the parasitic load Constant or Variable?		C V NA		C V NA		C V NA	
Parasitic Wattage: (only if a contant parasitic load):	***(M)***						
Logger Information							
Logger Type: *(**DCT** = DENT CT, **H**=HOBO)*	***(X)***	DCT H		DCT H		DCT H	
Primary Logger S/N:	***(Y)***						
Logger Channel #	***(Z)***						
Reference Logger:		☐		☐		☐	
Reference Channel:		☐		☐		☐	
CT Amp size							
Logger Installation Comments							

Panel Meter – Final Spot Measurement and Logging – (DATA ENTRY)

Breaker Circuit and Point of Control (POC) Assessment				
Panel Meter Item #:	***(A)***			
Associated Measure Code(s)				
IOU Unit Basis				
Panel number/identifier (if applicable)				
Circuit Label Number(s):	***(B)***			
Phase of Circuit(s):	***(C)***	A B C	A B C	A B C
Breaker(s) Rated Amps				
Control Type Code (CTC)				
# Wall switches connected to this Circuit				
Circuit Configuration Code (CCC)				
Schedule #				
Area ID #: *(if >1 AA, enter from left to right)*				
# Rebated Controls per Activity Area(s) above:				
Fixture Verification and Nominal Watt Calculation				
Circuit(s) tested (On/Off)?		Y N	Y N	Y N
# of Rebated **Units** on Circuit(s)		`		
# of Rebated Fixtures controlled by Circuit(s):	***(D)***			
# of Rebated Lamps per Fixture:	***(E)***			
Rated Lamp Wattage:	***(F)***			
# of Lamps Burned-out or Non-Operable:	***(G)***			
Total Nominal Rebated Circuit(s) Watts: ***(D*E*F)-(F*G)***	***(H)***			
Spot Measurements				
Max Measured Wattage: (with all fixtures on Circuit ON):	***(I)***	G N	G N	G N
Power Factor: *(if 2 circuits on 1 CT, average the PF)*:	***(J)***			
Measured Circuit(s) Voltage: (to Ground or Neutral):	***(K)***			
Max Measured Amperage: (with all fixtures 'ON'):	***(L)***			
% Meas. vs. Calc. Watts: ***(I/H*100)***; Is this between 90-110%?		% Y N	% Y N	% Y N
Non-Rebated or Parsitic Loads				
Do Non-Rebated or Parasitic Loads exist on this Circuit?		Y N DK	Y N DK	Y N DK
Is the parasitic load Constant or Variable?		C V NA	C V NA	C V NA
Parasitic Wattage: (only if a contant parasitic load):	***(M)***			
Logger Information				
Logger Type: ***(DCT** = DENT CT, **H**=HOBO)*	***(X)***	DCT H	DCT H	DCT H
Primary Logger S/N:	***(Y)***			
Logger Channel #	***(Z)***			
Reference Logger:		☐	☐	☐
Reference Channel:		☐	☐	☐
CT Amp size				
Logger Installation Comments				

Panel Meter – Final Spot Measurement and Logging

Breaker Circuit and Point of Control (POC) Assessment								
Panel Meter Item #:	***(A)***							
Associated Measure Code(s)								
IOU Unit Basis								
Panel number/identifier (if applicable)								
Circuit Label Number(s):	***(B)***							
Phase of Circuit(s):	***(C)***	A B C		A B C		A B C		
Breaker(s) Rated Amps								
Control Type Code (CTC)								
# Wall switches connected to this Circuit								
Circuit Configuration Code (CCC)								
Schedule #								
Area ID #: *(if >1 AA, enter from left to right)*								
# Rebated Controls per Activity Area(s) above:								
Fixture Verification and Nominal Watt Calculation								
Circuit(s) tested (On/Off)?		Y N		Y N		Y N		
# of Rebated **Units** on Circuit(s)		`						
# of Rebated Fixtures controlled by Circuit(s):	***(D)***							
# of Rebated Lamps per Fixture:	***(E)***							
Rated Lamp Wattage:	***(F)***							
# of Lamps Burned-out or Non-Operable:	***(G)***							
Total Nominal Rebated Circuit(s) Watts: ***(D*E*F)-(F*G)***	***(H)***							
Spot Measurements								
Max Measured Wattage: (with all fixtures on Circuit ON):	***(I)***		G N		G N		G N	
Power Factor: *(if 2 circuits on 1 CT, average the PF)*:	***(J)***							
Measured Circuit(s) Voltage: (to Ground or Neutral):	***(K)***							
Max Measured Amperage: (with all fixtures 'ON'):	***(L)***							
% Meas. vs. Calc. Watts: ***(I/H*100)***; Is this between 90-110%?		%	Y N	%	Y N	%	Y N	
Non-Rebated or Parsitic Loads								
Do Non-Rebated or Parasitic Loads exist on this Circuit?		Y N DK		Y N DK		Y N DK		
Is the parasitic load Constant or Variable?		C V NA		C V NA		C V NA		
Parasitic Wattage: (only if a contant parasitic load):	***(M)***							
Logger Information								
Logger Type: ***(DCT** = DENT CT, **H**=HOBO)*	***(X)***	DCT H		DCT H		DCT H		
Primary Logger S/N:	***(Y)***							
Logger Channel #	***(Z)***							
Reference Logger:		☐		☐		☐		
Reference Channel:		☐		☐		☐		
CT Amp size								
Logger Installation Comments								

General Comments

Item #	Form Name	Comments

Site Photo Log

Record site photo information here including the PhotoID (i.e. digital file name) and a brief description of the photo where needed. Site Photos should include the site entrance and entire building, rebated measures, and close-up photos of nameplates, lamp codes, and other make/model identification. Refer to the training manual for more on what photos to take. Photo/file naming conventions is SiteID_Item# or SiteID 00# (e.g. PGE_056789_1.jpg, PGE_056789 001.jpg).

Item #	Description/Comments/Measure Code *(no data entry)*
1	
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Incentive Payment

My signature acknowledges that I received a participation incentive in the form of a $____ gift card for the survey effort regarding the California Saturation Survey / California Market Share Tracking effort.

Print Name		**Date Received**	
Gift Card Company		**Gift Card Serial #**	
Signature			

Appendix C

NTGR Working Group Framework for NTG Analysis

Methodological Framework for Using the Self-Report Approach to Estimating Net-to-Gross Ratios for Nonresidential Customers

Prepared for the Energy Division, California Public Utilities Commission

By

The Nonresidential Net-To-Gross Ratio Working Group

October 16, 2012

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Appendix A: References

Acknowledgments

As part of the evaluation of the 2010-12 energy efficiency programs designed and implemented by the four investor-owned utilities (Pacific Gas & Electric Company, Southern California Edison Company, Southern California Gas Company, and San Diego Gas and Electric Company) and third parties, the Energy Division of the California Public Utilities Commission (CPUC) re-formed the nonresidential net-to-gross ratio working group that was originally formed during the PY2006-2008 evaluation. The main purpose of this group was to furtherrefine and improve the standard net-to-gross methodological framework that was developed during the PY2006-2008 evaluation cycle. This framework includes decision rules, for integrating in a systematic and consistent manner the findings from both quantitative and qualitative information in estimating net-to-gross ratios. The working group, listed alphabetically, is composed of the following evaluation professionals:

- Jennifer Fagan, Itron, Inc.
- Nikhil Gandhi, Strategic Energy Technologies, Inc.
- Kay Hardy, Energy Division, CPUC
- Jeff Hirsch, James J. Hirsch & Associates
- Richard Ridge, Ridge & Associates
- Mike Rufo, Itron, Inc.
- Claire Palmgren, KEMA
- Valerie Richardson, KEMA
- Philippus Willems, PWP, Inc.

A public webinar was conducted to obtain feedback from the four investor-owned utilities and other interested stakeholders. The questionnaire was then pre-tested and, based on the pre-test results, finalized in December 2011.

1. OVERVIEW OF THE LARGE NONRESIDENTIAL FREE RIDERSHIP APPROACH

The methodology described in this section was developed to address the unique needs of Large Nonresidential customer projects developed through energy efficiency programs offered by the four California investor-owned utilities and third-parties. This method relies exclusively on the Self-Report Approach (SRA) to estimate project and program-level Net-to-Gross Ratios (NTGRs), since other available methods and research designs are generally not feasible for large nonresidential customer programs. This methodology provides a standard framework, including decision rules, for integrating findings from both quantitative and qualitative information in the calculation of the net-to-gross ratio in a systematic and consistent manner. This approach is designed to fully comply with the *California Energy Efficiency Evaluation: Protocols: Technical, Methodological, and Reporting Requirements for Evaluation Professionals* (Protocols) and the *Guidelines for Estimating Net-To-Gross Ratios Using the Self-Report Approaches* (Guidelines)**.**

This approach preserves the most important elements of the approaches previously used to estimate the NTGRs in large nonresidential customer programs. However, it also incorporates several enhancements that are designed to improve upon that approach, for example:

- The method incorporates a 0 to 10 scoring system for key questions used to estimate the NTGR, rather than using fixed categories that are assigned weights.

- The method asks respondents to jointly consider and rate the importance of the many likely events or factors that may have influenced their energy efficiency decision making, rather than focusing narrowly on only their rating of the program's importance. This question structure more accurately reflects the complex nature of the real-world decision making and should help to ensure that all non-program influences are reflected in the NTGR assessment in addition to program influences.

It is important to note that the NTGR approach described in this document is a general framework, designed to address all large nonresidential programs. In order to implement this approach on a program-specific basis, it also needs to be customized to reflect the unique nature of the individual programs.

2. BASIS FOR SRA IN SOCIAL SCIENCE LITERATURE

The social sciences literature provides strong support for use of the methods used in the SRA to assess program influence. As the *Guidelines* notes,

> More specifically, the SRA is a mixed method approach that involves asking one or more key participant decision-makers a series of structured and open-ended questions about whether they would have installed the same EE equipment in the

absence of the program as well as questions that attempt to rule out rival explanations for the installation (Weiss, 1972; Scriven, 1976; Shadish, 1991; Wholey et al., 1994; Yin, 1994; Mohr, 1995). In the simplest case (e.g., residential customers), the SRA is based primarily on quantitative data while in more complex cases the SRA is strengthened by the inclusion of additional quantitative and qualitative data which can include, among others, in-depth, open-ended interviews, direct observation, and review of program records. Many evaluators believe that additional qualitative data regarding the economics of the customer's decision and the decision process itself can be very useful in supporting or modifying quantitatively-based results (Britan, 1978; Weiss and Rein, 1972; Patton, 1987; Tashakkori and Teddlie, 1998).[1]

More details regarding the philosophical and methodological underpinnings of this approach are in Ridge, Willems and Fagan (2009), Ridge, Willems, Fagan and Randazzo (2009) and Megdal, Patil, Gregoire, Meissner, and Parlin (2009). In addition to these two articles, Appendix A provides an extensive listing of references in the social sciences literature regarding the methods employed in the SRA.

3. FREE RIDERSHIP ANALYSIS BY PROJECT TYPE

There are three levels of free-ridership analysis. The most detailed level of analysis, the **Standard – Very Large Project** NTGR, is applied to the largest and most complex projects (representing 10 to 20% of the total) with the greatest expected levels of gross savings[2] The **Standard** NTGR, involving a somewhat less detailed level of analysis, is applied to projects with moderately high levels of gross savings. The least detailed analysis, the **Basic** NTGR, is applied to all remaining projects. Evaluators must exercise their own discretion as to what the appropriate thresholds should be for each of these three levels.

4. SOURCES OF INFORMATION ON FREE RIDERSHIP

There are five sources of free-ridership information in this study. Each level of analysis relies on information from one or more of these sources. These sources are described below.

1. **Program Files**. As described in previous sections of this report, programs often maintain a paper file for each paid application. These can contain various pieces of information which are relevant to the analysis of free-ridership, such as letters written by the utility's customer representatives that document what the customer had planned to do in the absence of the rebate and explain the customer's motivation for implementing the efficiency measure. Information on the measure payback with and without the rebate may also be available.

[1] *Guidelines for Estimating Net-To-Gross Ratios Using the Self-Report Approaches*, October 15, 2007, pg. 3.

[2] Note that we do not refer to an Enhanced level of analysis, since this is defined by the Protocols to involve the application of two separate analysis approaches, such as billing analysis or discrete choice modeling.

2. **Decision-Maker Surveys**. When a site is recruited, one must also determine who was involved in the decision-making process which led to the implementation of measures under the program. They are asked to complete a Decision Maker survey. This survey obtains highly structured responses concerning the probability that the customer would have implemented the same measure in the absence of the program. First, participants are asked about the timing of their program awareness relative to their decision to purchase or implement the energy efficiency measure. Next, they are asked to rate the importance of the program versus non-program influences in their decision making. Third, they are asked to rate the significance of various factors and events that may have led to their decision to implement the energy efficiency measure at the time that they did. These include:

   - the age or condition of the equipment,
   - information from a feasibility study or facility audit
   - the availability of an incentive or endorsement through the program
   - a recommendation from an equipment supplier, auditor or consulting engineer
   - their previous experience with the program or measure,
   - information from a program-sponsored training course or marketing materials provided by the program
   - the measure being included as part of a major remodeling project
   - a suggestion from program staff, a program vendor, or a utility representative
   - a standard business practice
   - an internal business procedure or policy
   - stated concerns about global warming or the environment
   - a stated desire to achieve energy independence.

   In addition, the survey obtains a description of what the customer would have done in the absence of the program, beginning with whether the implementation was an early replacement action. If it was not, the decision maker is asked to provide a description of what equipment would have been implemented in the absence of the program, including both the efficiency level and quantities of these alternative measures. This is used to adjust the gross engineering savings estimate for partial free ridership, as discussed in Section 5.2.

   This survey contains a core set of questions for **Basic** NTGR sites, and several supplemental questions for both **Standard and Standard – Very Large** NTGR sites For example, if a Standard or Standard-Very Large respondent indicates that a financial calculation entered highly into their decision, they are asked additional questions about their *financial criteria* for investments and their rationale for the current project in light of them. Similarly, if they respond that a *corporate policy* was a primary consideration in their decision, they are asked a series of questions about the specific policy that led to their adoption of the installed measure. If they indicate the installation was a *standard practice*, there are supplemental questions to understand the origin and evolution of that standard practice within their

organization. These questions are intended to provide a deeper understanding of the decision making process and the likely level of program influence versus these internal policies and procedures. Responses to these questions also serve as a basis for consistency checks to investigate conflicting answers regarding the relative importance of the program and other elements in influencing the decision. In addition, **Standard – Very Large** sites may receive additional detailed probing on various aspects of their installation decision based on industry- or technology-specific issues, as determined by review of other information sources. For Standard-Very Large sites all these data are used to construct an internally consistent "story" that supports the NTGR calculated based on the overall information given.

3. **Vendor Surveys**. A Vendor Survey is completed for all **Standard** and **Standard-Very Large** NTGR sites that utilized vendors, and for **Basic** NTGR sites that indicate a high level of vendor influence in the decision to implement the energy efficient measure. For those sites that indicate the vendor was very influential in decision making, the vendor survey results enter directly into the NTGR scoring. The vendor survey findings are also be used to corroborate Decision Maker findings, particularly with respect to the vendor's specific role and degree of influence on the decision to implement the energy efficient measure. Vendors are queried on the program's significance in their decision to recommend the energy efficient measures, and on their likelihood to have recommended the same measure in the absence of the program. Generally, the vendors contacted as part of this study are contractors, design engineers, distributors, and installers.

4. **Utility and Program Staff Interviews**. For the Standard and Standard-Very Large NTGR analyses, interviews with utility staff and program staff are also conducted. These interviews are designed to gather information on the historical background of the customer's decision to install the efficient equipment, the role of the utility and program staff in this decision, and the name and contact information of vendors who were involved in the specification and installation of the equipment.

5. **Other information**. For **Standard – Very Large Project** NTGR sites, secondary research of other pertinent data sources is performed. For example, this could include a review of standard and best practices through industry associations, industry experts, and information from secondary sources (such as the U.S. Department of Energy's Industrial Technologies Program, Best Practices website URL, http://www1.eere.energy.gov/industry/bestpractices/). In addition, the Standard- Very Large NTGR analysis calls for interviews with other employees at the participant's firm, sometimes in other states, and equipment vendor experts from other states where the rebated equipment is being installed (some without rebates), to provide further input on standard practice within each company.

Table 1 below shows the data sources used in each of the three levels of free-ridership analysis. Although more than one level of analysis may share the same source, the amount of information that is utilized in the analysis may vary. For example, all three levels of analysis obtain core question data from the Decision Maker survey.

Table 1: Information Sources for Three Levels of NTGR Analysis

	Program File	Decision Maker Survey Core Question	Vendor Surveys	Decision Maker Survey Supplemental Questions	Utility & Program Staff Interviews	Other Research Findings
Basic NTGR	√	√	√[1]		√[2]	
Standard NTGR	√	√	√[1]	√	√	
Standard NTGR - Very Large Projects	√	√	√[3]	√	√	√

[1]Only performed for sites that indicate a vendor influence score (N3d) greater than maximum of the other program element scores (N3b, N3c, N3g, N3h, N3l).

[2]Only performed for sites that have a utility account representative

[3]Only performed if significant vendor influence reported or if secondary research indicates the installed measure may be becoming standard practice.

A copy of the complete survey forms (with lead-in text and skip patterns) are available upon request.

5. NTGR FRAMEWORK

The Self-Report-based Net-to-Gross analysis relies on responses to a series of survey questions that are designed to measure the influence of the program on the participant's decision to implement program-eligible energy efficiency measure(s). Based on these responses, a NTGR is derived based on responses to a set of "core" NTGR questions.

5.1. NTGR Questions and Scoring Algorithm

A self-report NTGR is computed for all NTGR levels using the following approach. Adjustments may be made for **Standard – Very Large** NTGR sites, if the additional information that is collected is inconsistent with information provided through the Decision Maker survey.

The NTGR is calculated as an average of three scores. Each of these scores represents the highest response or the average of several responses given to one or more questions about the decision to install a program measure.

- **Program attribution index 1 (PAI–1) score** that reflects the influence of the **most important** of various program and program-related elements in the

customer's decision to select the specific program measure at this time. Program influence through vendor recommendations is also incorporated in this score.

- **Program attribution index 2 (PAI–2) score** that captures the perceived importance of the program (whether rebate, recommendation, training, or other program intervention) relative to non-program factors in the decision to implement the specific measure that was eventually adopted or installed. This score is determined by asking respondents to assign importance values to both the program and most important non-program influences so that the two total 10. The program influence score is adjusted (i.e., divided by 2) if respondents say they had already made their decision to install the specific program qualifying measure before they learned about the program.

- **Program attribution index 2 (PAI–3) score** that captures the likelihood of various actions the customer might have taken at this time and in the future if the program had not been available (the counterfactual).

When there are multiple questions that feed into the scoring algorithm, as is the case for both the **PAI-1** and **PAI-3** scores, the maximum score is always used. The rationale for using the maximum value is to capture the most important element in the participant's decision making. Thus, each score is always based on the strongest influence indicated by the respondent. However, high scores that are inconsistent with other previous responses trigger consistency checks and can lead to follow-up questions to clarify and resolve the discrepancy.

The calculation of each of the above scores is discussed below. For each score, the associated questions are presented and the computation of each score is described.

5.1.1. PAI–1 score

For the Decision Maker, the questions asked are:
I'm going to ask you to rate the importance of the program as well as other factors that might influence your decision to implement [MEASURE.] Think of the degree of importance as being shown on a scale with equally spaced units from 0 to 10, where 0 means not at all important and 10 means very important, so that an importance rating of 8 shows twice as much influence as a rating of 4.

Now, using this 0 to 10 rating scale, where 0 means "Not at all important" and 10 means "Very important," please rate the importance of each of the following in your decision to implement this specific [MEASURE] at this time.

- Availability of the PROGRAM rebate

- Information provided through a recent feasibility study, energy audit or other types of technical assistance provided through PROGRAM

- Information from PROGRAM training course

- Information from other PROGRAM marketing materials
- Suggestion from program staff
- Suggestion from your account rep
- Recommendation from a vendor/supplier (If a score of greater than 5 is given, a vendor interview is triggered)

For the Vendor, the questions asked (if the interview is triggered) are:
I'm going to ask you to rate the importance of the [PROGRAM] in influencing your decision to recommend [MEASURE] to [CUSTOMER] and other customers. Think of the degree of importance as being shown on a scale with equally spaced units from 0 to 10, where 0 means not at all important and 10 means very important, so that an importance rating of 8 shows twice as much influence as a rating of 4.

1. Using this 0 to 10 scale where 0 is 'Not at all important" and 10 is "Very Important," how important was the PROGRAM, including incentives as well as program services and information, in influencing your decision to recommend that CUSTOMER install the energy efficiency MEASURE at this time?

2. And using a 0 to 10 likelihood scale, where 0 denotes "not at all likely" and 10 denotes "very likely," if the PROGRAM, including incentives as well as program services and information, had not been available, what is the likelihood that you would have recommended this specific energy efficiency MEASURE to CUSTOMER?
3. Now, using a 0 to 100 percent scale, in what percent of sales situations did you recommend MEASURE before you learned about the [PROGRAM]?
4. And using the same 0 to 100 percent scale, in what percent of sales situations do you recommend MEASURE now that you have worked with the [PROGRAM]?
5. And, using the same 0 to 10 scale where 0 is "Not at all important" and 10 is "Very important", how important in your recommendation were:
   a. Training seminars provided by UTILITY?
   b. Information provided by the UTILITY website?
   c. Your firm's past participation in a rebate or audit program sponsored by UTILITY?

If the Vendor interview is triggered, a score is calculated that captures the highest degree of program influence on the vendor's recommendation. This score (VMAX) is calculated as the MAXIMUM value of the following:

1. The response to question 1
2. 10 minus the response to question 2
3. The response to question 4 minus the response to question 3, divided by 10
4. The response to question 5a.
5. The response to question 5b.
6. The response to question 5c.

Note that vendors are asked an additional question regarding other ways that their recommendations regarding the measure might have been influenced. Their responses are not used in the direct calculation of the NTGR but are potentially useful in making adjustments to the core NTGR.

The PAI–1 score is calculated as:
The highest program influence score divided by the sum of the highest program influences (i.e., the responses to the first six decision maker questions) plus the highest non-program influence score, multiplied by 10. and, if the vendor interview has been triggered, the VMAX score multiplied by the score the decision makers assigned to the vendor recommendation.

5.1.2. PAI–2 score

The questions asked are:

1. Did you learn about PROGRAM BEFORE or AFTER you decided to implement the specific MEASURE that was eventually adopted or installed?

2. Now I'd like to ask you a last question about the importance of the program to your decision as opposed to other factors that may have influenced your decision. Again using the 0 to 10 rating scale we used earlier, where 0 means “Not at all important” and 10 means “Very important,” please rate the overall importance of PROGRAM versus the most important of the other factors we just discussed in your decision to implement the specific MEASURE that was adopted or installed. This time I would like to ask you to have the two importance ratings -- the program importance and the non-program importance -- total 10.

The PAI–2 score is calculated as:
The importance of the program, on the 0 to 10 scale, to question 2. This score is reduced by half if the respondent learned about the program after the decision had been made.

5.1.3. PAI–3 Score

The questions asked are:

1. Now I would like you to think about the action you would have taken with regard to the installation of this equipment if the &PROGRAM had not been available.

Using a likelihood scale from 0 to 10, where 0 is “Not at all likely” and 10 is “Extremely likely”, if PROGRAM had not been available, what is the likelihood that you would have installed exactly the same program-qualifying efficiency equipment that you did in this project?

The PAI-3 score is calculated as:

10 minus the likelihood of installing the same equipment

5.1.4. The Core NTGR

The self-reported core NTGR in most cases is simply the average of the PAI-1, PAI-2, and PAI-3 scores, divided by 10. The one exception to this is when the respondent indicates a 10 in 10 probability of installing the same equipment at the same time in the absence of the program, in which case the NTGR is based on the average of the PAI-2 and PAI-3 scores only.

5.2. Data Analysis and Integration

The calculation of the Core NTGR is fairly mechanical and is based on the answers to the closed-ended questions. However, the reliance of the Standard NTGR – Very Large on more information from so many different sources requires more of a case study level of effort. The SRA Guidelines point out that a case study is one method of assessing both quantitative and qualitative data in estimating a NTGR. A case study is an organized presentation of all these data available about a particular customer site with respect to all relevant aspects of the decision to install the efficient equipment. In such cases where multiple interviews are conducted eliciting both quantitative and qualitative data and a variety of program documentation has been collected, one will need to integrate all of this information into an internally consistent and coherent story that supports a specific NTGR.

The following data sources should be investigated and reviewed as appropriate to supplement the information collected through the decision maker interviews.

- Account Representative Interview
- Utility Program Manager/Staff Interview
- Utility Technical Contractor Interview
- Third party Program Manager Interview
- Evaluation Engineer Interview
- Gross Impact Site Plan/Analysis Review
- Corporate Green/Environmental Policy Review (if mentioned as important)
- Corporate Standard Practice Review (if mentioned as important)
- Industry Standard Practice Review (if mentioned as important)
- Corporate payback review (if mentioned as important)
- Review relevant codes and standards, including regulatory requirements
- Review industry publications, websites, reports such as the Commercial Energy Use Survey, historical purchase data of specific measures etc.

As detailed in the Self-Report NTGR Guidelines, when complementing the quantitative analysis of free-ridership with additional quantitative and qualitative data from multiple respondents and other sources, there are some basic concerns that one must keep in mind. Some of the other data – including interviews with third parties who were involved in the decision to install the energy efficient equipment – may reveal important influences on the customer's decision to install the qualifying program measure. When one chooses to

incorporate other data, one should keep the following principles in mind: 1) the method chosen should be balanced. That is, the method should allow for the possibility that the other influence can either increase or decrease the NTGR calculated from the decision maker survey responses, 2) the rules for deciding which customers will be examined for potential other influences should be balanced. In the case of Standard –Very Large interviews, all customers are subject to such a review, so that the pool of customers selected for such examination will not be biased towards ones for whom the evaluator believes the external influence will have the effect of influencing the NTGR in only one direction, 3) the plan for capturing other influences should be based on a well-conceived causal framework. The onus is on the evaluator to build a compelling case using a variety of quantitative and/or qualitative data for estimating a customer's NTGR.

Establishing Rules for Data Integration

Before the analysis begins, the evaluation team should establish, to the extent feasible, rules for the integration of the quantitative and qualitative data. These rules should be as specific as possible and be strictly adhered to throughout the analysis. Such rules might include instructions regarding when the NTGR based on the quantitative data should be overridden based on qualitative data, how much qualitative data are needed to override the NTGR based on quantitative data, how to handle contradictory information provided by more than one person at a given site, how to handle situations when there is no decision-maker interview, when there is no appropriate decision-maker interview, or when there is critical missing data on the questionnaire, and how to incorporate qualitative information on deferred free-ridership.

One must recognize that it is difficult to anticipate all the situations that one may encounter during the analysis. As a result, one may refine existing rules or even develop new ones during the initial phase of the analysis. One must also recognize that it is difficult to develop algorithms that effectively integrate the quantitative and qualitative data. It is therefore necessary to use judgment in deciding how much weight to give to the quantitative versus qualitative data and how to integrate the two. The methodology and estimates, however, must contain methods to support the validity of the integration methods through preponderance of evidence or other rules/procedures as discussed above.

For the **Standard-Very Large** cases in the large Nonresidential programs, the quantitative data used in the NTGR Calculator (which calculates the "core" NTGR), together with other information collected from the decision maker regarding the installation decision, form the initial basis for the NTG "story" for each site. Note that in most cases, supplemental data such as tracking data, program application files and results of interviews with program/IOU staff and vendors, will have been completed before the decision maker is contacted and will help guide the non-quantitative questioning in the interview. In practice, this means that most potential inconsistencies between decision maker responses and other sources of information should have been resolved before the interview is complete and data are entered into the NTGR Calculator. For example, if a company has an aggressive "green" policy widely promoted on its website that is not mentioned by the decision makers, the interviewer will ask the respondent to clarify the role of that policy in the decision. Conversely, if the decision maker attributes the

decision to install the equipment to a new company wide initiative rather than the program, yet there is no evidence of such an initiative reported by program staff, vendors, or the company's website, the decision maker will be asked to explain the discrepancy so that his or her responses can be changed if needed.

In some cases, however, it may be necessary to modify or override one of the scores contributing to the overall NTGR or the NTGR itself. Before this is done all quantitative and qualitative data will be systematically (and independently) analyzed by two experienced researchers who are familiar with the program, the individual site and the social science theory that underlies the decision maker survey instrument. Each will determine whether the additional information justifies modifying the previously calculated NTGR score, and will present any recommended modifications and their rationale in a well-organized manner, along with specific references to the supporting data. Again, it is important to note that the other influences can have the effect of either increasing or decreasing the NTGR calculated from the decision maker survey responses, and one should be skeptical about a consistent pattern of "corrections" in one direction or another.

Sometimes, *all* the quantitative and qualitative data will clearly point in the same direction while, in others, the *preponderance* of the data will point in the same direction. Other cases will be more ambiguous. In all cases, in order to maximize reliability, it is essential that more than one person be involved in analyzing the data. Each person must analyze the data separately and then compare and discuss the results. Important insights can emerge from the different ways in which two analysts look at the same set of data. Ultimately, differences must be resolved and a case made for a particular NTGR. Careful training of analysts in the systematic use of rules is essential to insure inter-rater reliability[3].

Once the individual analysts have completed their review, they meet to discuss their respective findings and present to the other the rationale for their recommended changes to the Calculator-derived NTGR. Key points of these arguments will be written down in summary form (e.g., Analyst 1 reviewed recent AQMD ruling and concluded that customer would have had to install the same measure within 2 years, not 3, thereby reducing NP score from 7.8 to 5.5) and also presented in greater detail in a workpaper so that an independent reviewer can understand and judge the data and the logic underlying each NTGR estimate. Equally important, the CPUC will have all the essential data to enable them to replicate the results, and if necessary, to derive their own estimates.

The outcome of the reconciliation by two analysts determines the final NTGR for a specific project. Again, the reasoning behind the "negotiated" final value must be thoroughly documented in a workpaper, while a more concise summary description of the rationale can be included in the NTGR Calculator workbook (e.g., Analyst 1 and Analyst 2 agreed that the NTGR score should have been higher than the calculated value of 0.45

[3] Inter-rater reliability is the extent to which two or more individuals (coders or raters) agree. Inter-rater reliability addresses the consistency of the implementation of a rating system.

because of extensive interaction between program technical staff and the customer, but they disagreed on whether this meant the NTGR should be .6 or .7. After discussion, they agreed on a NTGR of .65 as reflecting the extent of program influence on the decision).

In summary, it has been decided that supplemental data from non-core NTG questions collected through these surveys should be used in the following ways in the California Large Nonresidential evaluations:

- Vendor interview data will be used at times in the direct calculation of the NTGR. It will also be used to provide context and confirming/contradictory information for Standard-Very Large decision maker interviews.

- Qualitative and quantitative information from other sources (e.g., industry data, vendor estimates of sales in no-program areas, and other data as described above) may be used to alter core inputs only if contradictions are found with the core survey responses. Since judgments will have to be made in deciding which information is more compelling when there are contradictions, supplemental data are reviewed independently by two senior analysts, who then summarize their findings and recommendations and together reach a final NTGR value.

- Responses will also be used to construct a NTGR "story" around the project; that is they will help to provide the context and rationale for the project. This is particularly valuable in helping to provide guidance to program design for future years. It may be, for example, that responses to the core questions yield a high NTGR for a project, but additional information sources strongly suggest that the program qualifying technology has since become standard practice for the firm or industry, so that free ridership rates in future years are likely to be higher if program rules are not changed.

- Findings from other non-core NTGR questions (e.g., Payback Battery, Corporate Policy Battery) are also be used to **cross-check the consistency** of responses to core NTGR questions. When an inconsistency is found, it is presented to the Decision Maker respondent who is then be asked to explain and resolve it if they can. If they are not able to do so, their responses to the core NTGR question with the inconsistency may be overridden by the findings from these supplemental probes. These situations are handled on a case-by-case basis; however consistency checks are programmed into the CATI survey instrument used for the Basic and Standard cases.

Finally, some analysis of additional information beyond the close-ended questions that are used to calculate the Core NTGR could be done for the **Standard NTGR**. For example information regarding the financial criteria used to make capital investments, corporate policy regarding the purchase of energy efficiency equipment or the influence of standard practice in the same industry as the participant could be taken into account and used to make adjustments to the Core NTGR in a manner similar what is done for the Standard – Very Large NTGR.

5.3. Accounting for Partial Free Ridership

Partial free-ridership can occur when, in the absence of the program, the participant would have installed something more efficient than the program-assumed baseline efficiency but not as efficient as the item actually installed as a result of the program.

In situations where there is partial free ridership, the assumed baseline condition is affected. Absent partial free ridership, the assumed baseline would normally be based on existing equipment (in early replacement cases), on code requirements (in normal replace on burnout cases), or on a level above current code (e.g., this could be a market average or value purposefully set above code minimum but below market average; in this case, the definition and requirement would typically be defined by a specific program's baseline rules). In some cases, there may be a "dual" baseline (more specifically, a baseline that changes over the measure's EUL) if the project involves early replacement plus partial free ridership. In such cases, the baseline basis for estimating savings is the existing equipment over the remaining useful life (RUL) of the equipment, and then a baseline of likely intermediate efficiency equipment (e.g., code or above) for the remainder of the analysis period (i.e., the period equal to the EUL-RUL). When there is partial free ridership, the baseline equipment that would have been installed absent the program is of an intermediate efficiency level (resulting in lower energy savings than that assumed by the program if the program took in situ equipment efficiency as the basis for savings over the entire EUL). A related issue with respect to determination of the appropriate baseline is whether the adjustment made, if any, from the in situ or otherwise claimed baseline in the ex ante calculation, is whether the adjustment applies to the gross or net savings calculation.

Assignment of Partial Free Ridership Effects to Gross versus Net. In past evaluations, partial free ridership impacts have principally been incorporated into the net-to-gross ratio. This is because most partial free ridership is induced by market conditions, rather than by non-market factors. Market conditions refer primarily to standard adoption of a technology by a particular market segment or end user as a result of competitive market forces or other end user-specific factors. The key determining principle with respect to application of the adjustment to the net-to-gross ratio is whether there is a level of efficiency, below the efficiency of the measure for which savings are paid and claimed, but above what is required by code or minimum program baseline requirements that the end user would have implemented anyway without the program. Conditions that cause this adjustment to be made to gross savings rather than the net-to-gross ratio may include factors such as

- changing baseline equipment to meet changed business circumstances (such as increased production/throughput, changes in occupancy, etc.);
- compliance with environmental regulations, indoor air quality requirements, safety requirements; or
- the need to address an operational problem.

Each project should be examined separately for partial free ridership and a determination should be made based on the unique circumstances of each installation of whether an adjustment to gross savings or the net-to-gross ratio is warranted.

Data Collection Procedures. Information is gathered on partial free ridership using the following questions asked as part of the decision maker NTGR survey.

1. Now I would like you to think one last time about what action you would have taken if the program had not been available. Supposing that you had not installed the program qualifying equipment, which of the following alternatives would you have been MOST likely to do?
    a. Install fewer units
    b. Install standard efficiency equipment or whatever required by code
    c. Install equipment more efficient than code but less efficient than what you installed through the program
    d. repair/rewind or overhaul the existing equipment
    e. do nothing (keep the existing equipment as is)
    f. something else (specify what _____)

2. (IF FEWER UNITS) How many fewer units would you have installed? (It is okay to take an answer such as ...HALF...or 10 percent fewer ... etc.)

3. (IF MORE EFFICIENT THAN CODE) Can you tell me what model or efficiency level you were considering as an alternative? (It is okay to take an answer such as … 10 percent more efficient than code or 10 percent less efficient than the program equipment)

4. (IF REPAIR/REWIND/OVERHAUL) How long do you think the repaired/rewound/refurbished equipment would have lasted before requiring replacement?

In addition, these same partial free ridership questions should be asked during the on-site audit for a given project. This latter interview will be conducted by the project engineers. The collected information helps the gross impact and NTG analysis teams gain a more complete understanding of the true project baseline and equipment selection decision. These decision maker questions are included in the Excel version of the CATI-based Standard and Basic decision maker survey instrument as well as in the Standard-Very Large instrument.

Data Analysis and Integration Procedures. In cases where partial free ridership is found and it is determined that the adjustment should be made to the net-to-gross ratio, the following procedure should be used:

On the net side, the adjustment is based on the intermediate baseline indicated by the decision maker for the time period in which the intermediate equipment would have been installed. The calculation of energy saved under this intermediate baseline is done, and then divided by the savings calculated under the in situ baseline. The resulting ratio is then multiplied by the initial NTGR which was previously calculated using only the

‘core’ scoring inputs. The effect of this adjustment is to reduce the NTGR further to reflect the effects of the revealed partial free ridership.

In all cases, the Gross Impacts and NTG analysis teams will need to carefully coordinate their calculations to ensure that they are not inadvertently adjusting the savings twice for the same partial free ridership, i.e., through adjustments both to the gross savings calculation and to the NTG ratio.

6. NTGR INTERVIEW PROCESS

The NTGR surveys are conducted via telephone interviews. Highly-trained professionals with experience levels that are commensurate with the interview requirements should perform these interviews. Basic and Standard level interviews should be conducted by senior interviewers, who are highly experienced conducting telephone interviews of this type. Standard - Very Large interviews should be completed by professional consulting staff due to the complex nature of these projects and related decision making processes. More than likely, these will involve interviews of several entities involved in the project including the primary decision maker, vendor representatives, utility account executives, program staff and other decision influencers, as well as a review of market data to help establish an appropriate baseline.

All but the Standard -Very Large interviews should be conducted using computer-aided telephone interview (CATI) software. Use of a CATI approach has several advantages: (1) the surveys can be customized to reflect the unique characteristics of each program, and associated program descriptions, response categories, and skip patterns; (2) it drastically reduces inaccuracies associated with the more traditional paper and pencil method; and (3) the process of checking for inconsistent answers can be automated, with follow up prompts triggered when inconsistencies are found.

7. COMPLIANCE WITH SELF-REPORT GUIDELINES

The proposed NTGR framework fully complies with all of the CPUC/ED and the MECT’s Guidelines for Estimating Net-to-Gross Ratios Using the Self-Report Approach.

Appendix A

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Appendix D

Survey Banners

This appendix provides the questions and responses to the phone survey. Each question and response is provided at the statewide, IOU, Gross Program Group, HIM group and deemed vs. calculated level.

	ALL	PG&E(%)	SCE(%)	SDG&E(%)	PG&E Custom Program(%)	SCE Custom Program(%)	SDG&E Custom Program(%)	PG&E Deemed Program(%)	SCE Deemed Program(%)	SDG&E Deemed Program(%)	SCE Direct Install Program(%)	SDG&E Direct Install Program(%)	PG&E LGP Program(%)	SCE LGP Program(%)	PG&E L3P Program(%)	SCE L3P Program(%)	SDG&E L3P Program(%)	CFL Basic(%)	CFL Reflector(%)	High Bay(%)	HID(%)	LF Delamp(%)	Linear(%)	Occupancy Sensor(%)	Deemed(%)	All Calculated(%)
<FM050> What is the main business activity at this facility?																										
Offices (non-medical)	14.08	12.89	14.83	13.73	23.89	29.07	37.50	6.75	11.01	5.89	20.91	27.35	18.81	17.15	3.80	9.45	10.72	10.15	9.57	3.65	13.63	19.76	21.52	10.51	12.58	20.61
Restaurant/Food Service	1.40	0.86	1.79	0.94	0.00	0.45	0.00	0.72	2.35	1.01	1.83	2.31	1.31	0.00	0.52	0.00	0.12	6.15	1.48	2.85	0.03	0.34	0.77	0.56	1.67	0.21
Food Store (grocery/liquor/convenience)	1.35	0.53	1.84	1.32	0.11	0.64	0.00	0.04	1.99	1.83	1.03	2.35	0.61	0.00	2.79	4.68	0.13	0.77	1.05	0.02	0.17	6.32	1.05	0.00	1.51	0.66
Agricultural (farms, greenhouses)	2.53	6.30	0.69	0.01	8.53	2.71	0.00	7.95	0.50	0.00	0.64	0.00	1.58	0.00	15.88	0.00	0.03	0.23	23.41	3.07	4.25	0.43	1.81	0.42	2.56	2.39
Retail Stores	11.71	13.98	9.09	19.86	11.75	13.38	1.69	8.38	4.63	32.98	22.39	19.90	20.61	5.98	13.86	3.58	3.06	17.20	31.71	3.52	30.55	15.27	15.48	2.42	12.25	9.32
Warehouse	18.68	11.00	24.16	12.67	0.00	37.74	0.60	12.60	31.46	12.99	8.98	10.60	11.26	10.71	14.84	0.73	16.90	1.26	0.32	39.73	17.76	5.09	8.38	27.89	19.12	16.77
Health Care	3.14	3.10	2.62	6.60	0.00	2.32	0.00	5.56	0.02	0.20	10.08	10.07	2.04	0.57	0.05	3.19	16.63	3.71	8.22	0.77	0.00	3.75	4.81	2.07	2.88	4.25
Education	7.34	7.50	7.01	8.92	1.85	0.00	1.23	6.62	2.41	2.60	0.04	1.99	7.53	6.23	17.29	62.10	26.36	5.44	0.60	2.01	14.61	18.16	7.30	6.89	6.97	8.99
Lodging (hotel/rooms)	3.06	4.68	1.82	4.90	0.02	0.66	0.00	4.12	3.02	9.18	0.00	0.00	1.92	0.00	23.32	0.00	2.57	13.91	1.41	0.19	9.74	0.00	1.02	15.10	2.68	4.75
Public Assembly (church, fitness, theatre, library, museum, convention)	3.76	4.89	3.44	1.54	4.11	0.00	0.00	2.99	4.26	2.75	2.58	0.80	7.54	7.52	3.30	2.52	0.47	14.74	5.69	3.34	1.44	2.22	3.32	5.43	3.92	3.08
Services (hair, nail, massage, spa, gas, repair)	7.79	7.14	8.10	8.29	0.55	0.47	9.49	8.83	7.17	10.74	17.62	13.09	8.53	5.33	1.24	1.00	0.55	17.66	8.25	11.49	1.62	7.29	5.79	5.50	9.26	1.39
Industrial (food processing plant, Manufacturing)	12.94	15.88	12.02	7.69	9.24	9.75	33.89	29.31	13.92	7.93	9.44	1.99	6.41	2.56	2.92	10.91	4.06	3.13	4.02	21.64	5.35	12.54	10.92	7.00	13.66	9.81
Laundry (Coin Operated, Commercial Laundry Facility, Dry Cleaner)	0.72	0.55	0.85	0.44	0.00	0.00	0.00	0.84	0.00	0.00	3.83	1.95	0.51	1.81	0.05	0.13	0.24	0.20	0.00	0.00	0.00	3.78	0.39	0.23	0.88	0.01
Condo Assoc./Apartment Mgr (Garden Style, Mobile Home Park, Highrise, Townhouse)	0.49	0.59	0.16	2.30	0.00	0.00	8.48	0.40	0.04	0.38	0.64	0.00	1.09	0.00	0.00	0.00	5.38	0.78	1.66	0.00	0.23	0.03	0.83	0.81	0.26	1.51
Public Service (fire, police, postal, military)	2.09	2.83	1.48	3.23	19.65	1.34	0.00	0.28	0.14	1.42	0.00	0.00	1.82	42.12	0.00	1.39	9.38	0.49	0.87	0.36	0.62	0.09	4.84	1.13	0.52	8.94
Parking garage/structure	0.20	0.04	0.14	1.22	0.00	1.38	7.13	0.00	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.05	2.47	0.00	0.00	0.00	0.00	0.00	0.49	0.18	0.02	1.00
Other/Don't Know	8.72	7.23	9.97	6.34	20.30	0.09	0.00	4.62	17.07	10.11	0.00	7.61	8.32	0.00	0.14	0.29	0.95	4.17	1.74	7.35	0.00	4.93	11.28	13.86	9.27	6.32
n	*2443*	*1295*	*755*	*393*	*45*	*55*	*13*	*258*	*300*	*140*	*194*	*132*	*857*	*81*	*135*	*125*	*108*	*346*	*104*	*276*	*83*	*307*	*1063*	*264*	*2017*	*426*
<FM050A> Which of the following types of offices best describes this facility?																										
Administration and management	28.73	20.47	32.79	26.38	5.14	23.97	47.11	6.63	44.29	3.57	24.08	34.61	28.69	33.83	35.55	13.87	3.99	64.25	8.18	16.31	39.28	19.60	37.47	2.33	30.50	23.36
Financial / Legal	8.81	5.27	8.49	23.59	17.08	0.00	0.00	1.47	4.98	26.26	19.98	10.56	3.91	9.54	0.20	0.00	85.86	25.95	15.48	0.00	0.00	19.82	7.18	0.00	9.17	7.74
Insurance/Real Estate	14.78	6.34	19.87	5.25	8.09	37.32	0.00	5.89	10.32	23.70	26.75	1.41	6.39	0.00	0.00	0.00	0.12	0.90	8.93	5.06	0.41	25.27	15.95	2.48	13.09	19.92
Data Processing/Computer Center	1.68	1.28	2.07	0.00	0.00	10.63	0.00	5.50	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.06	0.00	0.49	5.26
Mixed-Use/Multi-tenant	14.60	19.80	11.88	17.23	0.00	28.09	52.89	21.37	4.35	12.91	8.19	1.94	22.38	6.42	55.29	50.02	8.94	0.79	28.15	5.15	6.45	14.69	13.94	28.20	11.70	23.38
Lab/R&D Facility	4.07	3.96	1.87	21.21	21.69	0.00	0.00	0.00	2.05	12.98	0.00	46.26	1.06	0.00	0.00	26.54	0.00	2.92	0.00	0.00	2.74	2.74	5.00	6.58	3.27	6.48
Software Development	1.58	5.07	0.20	0.00	18.33	0.00	0.00	10.32	0.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.52	0.00	0.00	1.71	0.00	1.03	3.25
Government Services	4.00	9.59	1.98	0.00	29.66	0.00	0.00	17.07	0.00	0.00	1.75	0.00	2.19	49.91	0.00	0.00	0.00	0.00	14.02	0.00	0.59	0.00	3.10	20.82	3.11	6.69
Office with Warehouse	16.76	14.17	19.54	4.53	0.00	0.00	0.00	31.75	32.52	20.58	17.65	1.19	11.63	0.00	8.95	0.00	0.00	1.50	13.91	64.95	42.17	17.42	4.82	39.48	22.18	0.36
Contractors' Offices	0.22	0.36	0.13	0.39	0.00	0.00	0.00	0.00	0.30	0.00	0.00	0.98	0.60	0.00	0.00	0.00	0.00	0.29	0.00	0.00	0.00	0.46	0.22	0.00	0.29	0.00
Telecommunications Center (Call Center)	1.00	1.85	0.74	0.00	0.00	0.00	0.00	0.00	0.73	0.00	1.42	0.00	3.11	0.00	0.00	0.00	0.00	0.00	11.33	0.00	8.36	0.00	0.77	0.00	1.33	0.00
Other	3.78	11.85	0.42	1.41	0.00	0.00	0.00	0.00	0.00	0.00	0.19	3.05	19.92	0.31	0.00	9.57	1.09	3.40	0.00	0.00	0.00	0.00	6.79	0.10	3.86	3.55
n	*338*	*194*	*97*	*47*	*7*	*10*	*2*	*25*	*34*	*16*	*34*	*22*	*155*	*14*	*7*	*5*	*7*	*32*	*18*	*15*	*19*	*44*	*184*	*26*	*286*	*52*
<FM050B> Which of the following types of restaurants or food service best describes this facility?																										
Fast Food or Self Service	30.15	16.94	53.71	0.21	0.00	100.00	0.00	25.61	26.06	0.00	49.61	0.00	11.47	0.00	20.21	0.00	5.16	9.32	5.18	0.00	0.00	0.00	49.03	39.45	27.62	67.74
Specialty/Novelty Food Service	13.95	23.85	6.00	1.47	0.00	0.00	0.00	63.28	0.00	0.00	6.96	0.00	2.79	0.00	0.00	0.00	36.29	1.73	0.00	0.00	0.00	0.00	29.13	0.00	14.53	5.26
Table Service	39.36	35.71	34.85	70.71	0.00	0.00	0.00	11.11	73.94	51.68	37.14	86.19	50.07	0.00	38.13	0.00	42.47	73.06	78.37	0.00	100.00	85.58	0.54	60.55	41.57	6.58
Bar/Tavern/Nightclub/Brew Pub or Micro-B	8.42	6.54	5.44	26.97	0.00	0.00	0.00	0.00	0.00	48.32	6.30	13.81	6.95	0.00	41.66	0.00	0.00	11.22	16.45	0.00	0.00	14.42	6.63	0.00	7.76	18.25
Other Food Store	1.49	2.98	0.00	0.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.05	0.00	0.00	0.00	16.08	4.67	0.00	0.00	0.00	0.00	0.30	0.00	1.44	2.17
Other-Do Not use unless necessary	6.64	13.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	23.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14.37	0.00	7.08	0.00
n	*55*	*33*	*11*	*11*	*0*	*1*	*0*	*3*	*2*	*3*	*8*	*2*	*27*	*0*	*3*	*0*	*6*	*23*	*6*	*0*	*1*	*5*	*16*	*4*	*47*	*8*
<FM050C> Which of the following types of food stores best describes this facility?																										
Supermarkets	7.58	3.33	3.10	54.20	0.00	92.25	0.00	0.00	0.00	85.69	0.00	0.00	0.00	0.00	6.63	0.00	0.00	0.00	0.00	100.00	0.00	0.00	25.10	0.00	5.68	26.63
Small General Grocery	52.05	22.24	62.82	1.25	73.61	0.00	0.00	100.00	100.00	0.00	0.00	0.00	39.11	0.00	0.00	0.00	44.68	23.75	0.00	0.00	100.00	73.95	7.15	0.00	56.45	7.95
Specialty/Ethnic Grocery/Deli	7.19	29.21	0.00	37.84	0.00	0.00	0.00	0.00	0.00	14.32	0.00	84.77	18.72	0.00	41.65	0.00	0.00	0.00	100.00	0.00	0.00	0.00	16.45	0.00	7.91	0.00
Convenience Store	23.33	45.12	22.22	0.00	26.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	41.92	0.00	51.71	100.00	0.00	2.60	0.00	0.00	0.00	26.05	20.98	0.00	19.36	63.17
Liquor Store	9.79	0.11	11.86	6.01	0.00	7.75	0.00	0.00	0.00	0.00	100.00	14.86	0.24	0.00	0.00	0.00	34.70	70.63	0.00	0.00	0.00	0.00	30.28	0.00	10.54	2.24
Other	0.06	0.00	0.00	0.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.37	0.00	0.00	0.00	0.00	20.62	3.02	0.00	0.00	0.00	0.00	0.04	0.00	0.07	0.00
n	*35*	*18*	*7*	*10*	*2*	*2*	*0*	*1*	*1*	*2*	*3*	*3*	*12*	*0*	*3*	*1*	*5*	*9*	*1*	*1*	*1*	*3*	*20*	*0*	*27*	*8*
<FM050D> What type of agricultural facicility is this?																										
Commercial Greenhouse	0.25	0.27	0.00	0.00	0.00	0.00	0.00	0.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.94	0.00	0.27	0.00
Commercial Farm	15.52	11.63	55.00	100.00	0.00	0.00	0.00	16.05	29.98	0.00	94.51	0.00	19.12	0.00	2.87	0.00	100.00	12.13	24.47	6.03	0.00	61.70	13.58	0.00	17.14	0.00
Dairy / Ranch	30.01	30.95	20.56	0.00	100.00	0.00	0.00	0.00	33.59	0.00	0.00	0.00	0.00	0.00	88.14	0.00	0.00	0.00	0.00	42.53	0.00	0.00	54.04	0.00	22.75	99.82
Vineyard / Orchard	16.77	18.42	0.00	0.00	0.00	0.00	0.00	15.46	0.00	0.00	0.00	0.00	74.54	0.00	8.99	0.00	0.00	0.00	0.00	23.04	0.00	0.00	31.11	3.05	18.51	0.00
Agricultural Storage (Grain Elevators)	1.20	0.00	13.52	0.00	0.00	0.00	0.00	0.00	22.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.48	0.00	96.95	1.33	0.00
Refused	0.25	0.00	2.81	0.00	0.00	0.00	0.00	0.00	4.59	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.90	0.00	0.00	0.28	0.00
Other	35.99	38.74	8.10	0.00	0.00	0.00	0.00	68.00	9.76	0.00	5.49	0.00	6.34	0.00	0.00	0.00	0.00	87.87	75.53	28.41	0.00	18.92	0.33	0.00	39.72	0.18

* Values are shown as percent of respondents weighted by kWh.
* n is the number of respondents.

	ALL	PG&E(%)	SCE(%)	SDG&E(%)	PG&E Custom Program(%)	SCE Custom Program(%)	SDG&E Custom Program(%)	PG&E Deemed Program(%)	SCE Deemed Program(%)	SDG&E Deemed Program(%)	SCE Direct Install Program(%)	SDG&E Direct Install Program(%)	PG&E LGP Program(%)	SCE LGP Program(%)	PG&E L3P Program(%)	SCE L3P Program(%)	SDG&E L3P Program(%)	CFL Basic(%)	CFL Reflector(%)	High Bay(%)	HID(%)	LF Delamp(%)	Linear(%)	Occupancy Sensor(%)	Deemed(%)	All Calculated(%)
n	*40*	*24*	*15*	*1*	*1*	*0*	*0*	*9*	*13*	*0*	*2*	*0*	*7*	*0*	*7*	*0*	*1*	*4*	*2*	*17*	*0*	*4*	*11*	*2*	*38*	*2*
<FM050E> Which of the following types of retail stores best describes this facility?																										
Department / Variety Store	20.05	14.00	15.66	47.56	0.00	50.80	100.00	10.90	13.68	59.60	7.88	5.18	16.72	7.73	20.70	1.45	15.44	17.95	3.32	9.89	65.15	3.53	23.26	14.45	18.44	31.18
Retail Warehouse/Club	4.85	6.33	4.62	1.87	34.39	2.29	0.00	4.82	8.10	2.26	3.12	0.80	2.32	16.48	6.07	0.00	0.00	1.21	3.79	15.48	0.00	0.31	4.67	34.95	3.58	13.70
Shop in Enclosed Mall	1.14	0.15	1.81	1.70	0.00	0.00	0.00	0.00	1.11	2.24	2.95	0.00	0.25	0.00	0.13	0.00	0.00	0.11	0.06	0.00	1.60	0.00	2.04	1.02	1.25	0.42
Shop in Strip Mall	21.00	17.48	27.08	12.28	51.69	2.08	0.00	22.97	1.56	5.75	52.67	34.42	1.79	2.64	58.08	0.00	31.17	54.99	61.51	0.00	25.14	30.30	9.45	13.19	21.48	17.67
Auto / Truck / Motorcycle Sales	9.42	12.30	6.07	11.89	4.49	1.43	0.00	24.38	7.13	13.45	7.40	7.27	9.91	0.00	0.00	0.00	6.55	4.03	0.00	24.54	0.37	20.71	6.72	0.00	10.16	4.31
Art Gallery	3.10	6.75	0.84	0.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.40	52.28	0.00	0.00	12.16	1.84	3.55	19.14	0.00	0.31	2.19	0.00	3.49	0.41
Heavy Equipment Sales	4.13	7.46	2.68	0.00	0.00	0.00	0.00	8.34	4.89	0.00	2.40	0.00	9.52	0.00	0.52	0.00	0.00	0.00	0.00	10.24	0.73	4.38	4.99	0.69	4.62	0.70
Facility is a Mall/Strip Mall	2.93	1.01	5.57	0.12	0.00	0.00	0.00	0.00	2.92	0.13	9.39	0.11	1.86	0.17	0.00	0.00	0.00	0.00	23.41	0.00	4.20	2.04	0.04	0.00	3.35	0.00
stand alone retail	10.40	8.42	11.33	12.63	0.00	0.93	0.00	3.38	18.96	13.00	10.21	14.24	11.44	20.69	13.29	0.00	0.56	5.58	0.05	14.62	0.31	9.04	14.97	6.04	11.63	1.84
Other	20.58	25.99	19.08	11.44	9.43	6.47	0.00	25.21	41.64	3.58	3.98	37.97	33.80	0.00	0.00	98.55	34.11	13.25	4.30	6.09	2.49	29.38	26.60	29.66	21.95	11.05
Refused	0.05	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.22	0.00	0.00	1.04	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00
Don't Know	2.37	0.00	5.24	0.00	0.00	36.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.08	0.00	0.00	18.73
n	*324*	*176*	*88*	*60*	*8*	*15*	*1*	*27*	*22*	*23*	*39*	*26*	*111*	*9*	*30*	*3*	*10*	*48*	*25*	*20*	*16*	*46*	*152*	*17*	*272*	*52*
<FM050F> Which of the following types of warehouses best describes this facility?																										
Refrigerated Warehouse	0.13	0.00	0.16	0.08	0.00	1.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.29	1.53	0.00	0.00	0.00	0.00	0.87	0.00	0.01	0.96
Unconditioned Warehouse,High Bay(lighting)	43.90	53.50	42.04	36.74	0.00	4.11	100.00	61.76	45.68	44.48	77.66	67.05	44.36	0.00	0.00	0.00	0.22	83.63	0.00	51.05	55.83	41.02	23.59	33.54	49.11	8.11
Unconditioned Warehouse,Low Bay	2.06	0.05	2.71	0.00	0.00	0.00	0.00	0.00	3.26	0.00	0.00	0.00	0.12	16.58	0.00	0.00	0.00	3.46	0.00	3.15	0.00	3.82	0.00	0.00	2.35	0.08
Conditioned Warehouse,High Bay(lighting)	3.42	10.59	1.89	0.00	0.00	0.00	0.00	11.81	1.30	0.00	0.00	0.00	8.33	69.30	68.72	0.00	0.00	0.00	0.00	3.04	0.00	1.92	5.43	4.18	3.84	0.48
Conditioned Warehouse,Low Bay	0.13	0.59	0.03	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	1.31	0.00	0.00	0.00	0.00	6.83	0.00	0.00	0.00	2.16	0.15	0.00	0.15	0.00
Shipping / Distribution Center	44.61	24.58	48.67	57.01	0.00	82.81	0.00	13.44	46.16	50.10	20.33	15.16	37.81	14.12	31.28	100.00	99.49	0.00	0.00	36.79	35.49	47.19	58.04	62.18	39.70	78.33
Garage / Parking / Storage for Commercial	0.58	1.99	0.04	2.93	0.00	0.00	0.00	0.00	0.06	5.42	0.00	0.00	4.41	0.00	0.00	0.00	0.00	0.25	0.00	0.34	5.46	0.79	0.87	0.10	0.30	2.49
Public Self-Storage Facility	1.38	0.30	1.75	0.00	0.00	11.87	0.00	0.00	0.20	0.00	0.00	0.00	0.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.22	0.00	8.96	0.00	0.20	9.46
Other	3.68	8.39	2.54	3.25	0.00	0.00	0.00	12.98	3.31	0.00	0.00	17.79	3.01	0.00	0.00	0.00	0.00	4.30	0.00	5.63	0.00	0.10	2.09	0.00	4.20	0.09
Don't Know	0.13	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.00	0.00	0.15	0.00
n	*202*	*85*	*84*	*33*	*0*	*10*	*1*	*30*	*58*	*22*	*11*	*7*	*53*	*4*	*2*	*1*	*3*	*13*	*0*	*63*	*12*	*21*	*59*	*34*	*177*	*25*
<FM050G> Which of the following types of health care centers best describes this facility?																										
Hospital	12.11	6.34	8.53	31.41	0.00	100.00	0.00	8.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	45.26	0.00	0.00	0.00	0.00	0.00	21.62	0.00	2.79	40.38
Nursing Home	11.24	33.98	0.00	0.00	0.00	0.00	0.00	44.50	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00	0.79	0.00	0.00	0.00	0.00	19.92	0.57	14.91	0.11
Medical/Dental Office	44.77	25.37	62.13	34.52	0.00	0.00	0.00	16.47	0.00	100.00	64.50	58.92	53.31	16.33	0.00	100.00	22.96	94.45	58.99	0.00	0.00	82.16	32.68	50.60	47.23	37.34
Clinic/Outpatient Care	4.34	4.55	4.25	4.20	0.00	0.00	0.00	0.00	0.00	0.00	5.07	9.30	18.86	35.44	0.00	0.00	2.13	2.18	0.00	0.00	0.00	0.81	3.35	27.73	4.83	2.85
Medical/Dental Lab	6.81	0.43	4.67	23.50	0.00	0.00	0.00	0.57	0.00	0.00	5.86	10.51	0.00	0.00	0.00	0.00	29.44	0.00	26.29	0.00	0.00	0.00	8.15	0.00	3.95	15.50
Alchohol/Drug Treatment / Rehabilitation	0.89	0.00	0.00	4.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.59	0.00	1.18	0.00
Doctor's Office	1.83	4.72	0.55	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	19.55	1.56	0.00	0.00	0.00	0.29	0.00	0.00	0.00	4.33	1.46	3.22	1.35	3.27
Dentist's Office	10.01	0.63	19.87	1.27	0.00	0.00	0.00	0.00	0.00	0.00	24.58	4.36	2.62	46.66	0.00	0.00	0.00	0.31	14.72	0.00	0.00	12.71	9.31	16.60	13.13	0.54
Veterinary Hospital/Clinic	0.36	0.96	0.00	0.21	0.00	0.00	0.00	0.41	0.00	0.00	0.00	0.73	2.67	0.00	0.00	0.00	0.00	1.16	0.00	0.00	0.00	0.00	0.38	1.28	0.47	0.00
Other	7.64	23.02	0.00	0.15	0.00	0.00	0.00	29.69	0.00	0.00	0.00	0.00	2.06	0.00	0.00	0.00	0.22	0.81	0.00	100.00	0.00	0.00	1.55	0.00	10.16	0.00
n	*92*	*41*	*29*	*22*	*0*	*1*	*0*	*8*	*1*	*2*	*20*	*13*	*33*	*5*	*0*	*2*	*7*	*14*	*9*	*1*	*0*	*7*	*49*	*12*	*72*	*20*
<FM050H> Which of the following types of educational centers best describes this facility?																										
Daycare or Preschool	6.18	10.35	4.24	4.53	0.00	0.00	22.81	5.96	0.00	29.40	0.00	4.98	5.73	0.00	27.09	6.53	0.21	22.66	0.00	0.00	1.71	11.05	5.86	1.78	7.64	0.57
Elementary School	32.00	22.78	39.88	13.95	59.31	0.00	77.19	27.33	49.06	68.36	0.00	95.02	4.57	0.00	43.30	36.53	0.00	14.41	0.00	80.11	0.00	31.58	25.41	2.31	38.96	5.24
Middle / Secondary School	35.36	28.66	43.83	5.69	16.61	0.00	0.00	59.17	36.81	2.24	0.00	0.00	0.76	0.00	28.58	48.84	6.62	0.00	100.00	15.19	96.70	44.42	12.89	78.66	43.65	3.48
College or University	19.47	29.71	4.70	75.75	0.00	0.00	0.00	0.00	0.63	0.00	0.00	0.00	76.36	91.59	0.00	4.06	93.07	28.02	0.00	0.75	0.00	0.89	50.57	17.24	2.28	85.55
Vocational or Trade School	2.71	5.14	1.87	0.00	0.00	0.00	0.00	5.96	0.16	0.00	100.00	0.00	7.02	0.00	1.01	2.65	0.00	6.71	0.00	0.19	0.00	3.63	4.22	0.00	2.62	3.07
Instructional Studio(Dance/Music Lessons)	0.44	1.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.63	0.00	0.00	0.00	0.00	0.68	0.00	2.64	0.00	0.00	0.00	0.00	0.54	0.06
After School Facility	0.61	0.67	0.67	0.00	24.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.00	0.01	1.04	0.00	20.52	0.00	0.00	0.00	0.00	0.63	0.01	0.52	0.92
Other	3.24	1.27	4.81	0.07	0.00	0.00	0.00	1.58	13.35	0.00	0.00	0.00	1.78	8.41	0.00	0.36	0.09	7.00	0.00	1.12	1.59	8.44	0.42	0.00	3.79	1.11
n	*181*	*83*	*79*	*19*	*3*	*0*	*2*	*12*	*7*	*6*	*1*	*3*	*32*	*3*	*36*	*68*	*8*	*23*	*1*	*14*	*5*	*50*	*66*	*22*	*152*	*29*
<FM050I> Which of the following types of lodging best describes this facility?																										
Hotel	77.11	63.27	95.01	83.14	100.00	100.00	0.00	82.97	94.83	85.39	0.00	0.00	58.32	0.00	50.92	0.00	69.34	71.33	100.00	0.00	12.69	0.00	72.82	93.87	85.84	55.99
Motel	6.91	9.31	4.99	3.11	0.00	0.00	0.00	10.26	5.17	3.41	0.00	0.00	6.67	0.00	9.52	0.00	1.25	4.39	0.00	100.00	0.00	100.00	19.06	2.97	6.41	8.10
Resort	7.76	13.13	0.00	7.29	0.00	0.00	0.00	1.14	0.00	3.69	0.00	0.00	0.56	0.00	25.87	0.00	29.41	3.90	0.00	0.00	57.09	0.00	4.91	0.33	1.01	24.10
Bed & Breakfast	3.45	6.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.54	0.00	13.69	0.00	0.00	0.34	0.00	0.00	30.22	0.00	0.00	0.00	0.06	11.65
Residential Hotel/Motel	0.04	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00	0.00	0.13
Dormitory / Sorority / Fraternity	1.31	1.39	0.00	4.08	0.00	0.00	0.00	0.00	0.00	4.75	0.00	0.00	8.49	0.00	0.00	0.00	0.00	4.56	0.00	0.00	0.00	0.00	0.00	1.16	1.85	0.00
Activity Camp / Summer Camp	1.35	1.95	0.00	2.38	0.00	0.00	0.00	5.63	0.00	2.77	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.83	1.63	1.90	0.00
Temporary Housing	2.07	4.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	24.85	0.00	0.00	0.00	0.00	15.47	0.00	0.00	0.00	0.00	0.00	0.04	2.92	0.00

* Values are shown as percent of respondents weighted by kWh.
* n is the number of respondents.

	ALL	PG&E(%)	SCE(%)	SDG&E(%)	PG&E Custom Program(%)	SCE Custom Program(%)	SDG&E Custom Program(%)	PG&E Deemed Program(%)	SCE Deemed Program(%)	SDG&E Deemed Program(%)	SCE Direct Install Program(%)	SDG&E Direct Install Program(%)	PG&E LGP Program(%)	SCE LGP Program(%)	PG&E L3P Program(%)	SCE L3P Program(%)	SDG&E L3P Program(%)	CFL Basic(%)	CFL Reflector(%)	High Bay(%)	HID(%)	LF Delamp(%)	Linear(%)	Occupancy Sensor(%)	Deemed(%)	All Calculated(%)
Other	0.01	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.00	0.00	0.03
n	*66*	*44*	*7*	*15*	*1*	*2*	*0*	*16*	*5*	*8*	*0*	*0*	*16*	*0*	*11*	*0*	*7*	*15*	*1*	*2*	*5*	*1*	*16*	*26*	*43*	*23*
<FM050J> Which of the following types of public assembly buildings best describes this facility?																										
Religious Assembly (worship only)	19.16	13.51	23.18	31.11	0.00	0.00	0.00	0.00	28.33	44.01	16.43	0.00	24.33	0.15	0.48	0.00	8.33	32.78	17.48	0.00	0.00	3.88	21.61	39.10	21.58	4.35
Religious Assembly (mixed use)	26.19	32.44	21.49	19.08	0.00	0.00	0.00	33.46	13.74	28.04	43.41	0.00	36.90	0.00	33.45	68.56	0.00	49.97	0.67	6.20	0.59	5.58	31.90	42.62	23.75	41.08
Health/Fitness Center / Athletic Center	18.22	20.16	17.42	0.00	81.95	0.00	0.00	39.45	21.58	0.00	0.00	0.00	2.57	0.00	3.88	25.25	0.00	0.62	57.94	48.19	46.42	1.42	4.01	16.39	17.58	22.10
Movie Theaters	0.38	0.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.91	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.08	0.00	0.44	0.00
Theater / Performing Arts Venue	1.03	2.35	0.01	0.00	6.59	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.21	0.00	0.00	0.14	0.00	7.59	0.00	0.00	0.00	0.06	0.72	0.00	0.08	6.81
Library / Museum	7.75	1.31	13.21	0.00	11.47	0.00	0.00	0.00	15.85	0.00	0.00	0.00	0.55	26.61	0.00	6.05	0.00	0.37	21.55	0.00	3.02	65.03	4.02	0.00	7.67	8.23
Conference/Convention Center	2.79	4.13	1.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.46	38.38	0.00	0.00	0.00	0.00	0.00	0.00	49.98	0.00	5.86	0.00	3.22	0.11
Community Center / Activity Center	18.12	17.15	17.84	43.35	0.00	0.00	0.00	2.79	13.61	23.34	40.16	81.50	24.78	34.51	36.24	0.00	91.68	8.19	0.00	27.30	0.00	12.94	27.96	1.13	18.30	16.97
Country Club	4.26	3.38	5.01	3.14	0.00	0.00	0.00	11.42	6.89	4.61	0.00	0.00	0.21	0.00	0.00	0.00	0.00	0.49	0.00	11.93	0.00	11.08	1.54	0.00	4.90	0.35
Other	2.13	4.71	0.02	3.32	0.00	0.00	0.00	12.89	0.00	0.00	0.00	18.50	0.00	0.35	14.05	0.00	0.00	0.00	2.36	6.39	0.00	0.00	1.30	0.76	2.48	0.00
n	*172*	*111*	*51*	*10*	*3*	*0*	*0*	*12*	*16*	*6*	*7*	*2*	*88*	*14*	*8*	*14*	*2*	*42*	*7*	*10*	*6*	*13*	*76*	*18*	*136*	*36*
<FM050K> Which of the following types of service buildings best describes this facility?																										
Hair Salon	6.40	0.99	9.39	4.83	0.00	0.00	0.00	0.00	0.00	0.00	19.69	12.74	2.11	0.00	0.00	13.82	9.53	39.92	17.68	0.00	0.00	18.81	4.39	0.57	6.33	9.16
Nail Salon	0.52	0.01	0.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.78	0.00	0.02	0.00	0.00	0.00	0.00	0.04	12.82	0.00	0.00	0.00	0.00	0.00	0.53	0.00
Day Spa	4.68	11.62	1.55	0.26	0.00	0.00	0.00	22.73	3.09	0.00	0.00	0.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.33	0.00	40.24	4.80	0.00
Gas Station / Auto Repair	45.39	42.89	49.48	20.05	0.00	0.00	0.00	28.29	54.32	13.80	46.42	33.49	60.10	40.85	26.54	0.00	0.00	11.09	5.03	61.89	89.64	10.83	47.34	43.32	46.22	12.88
Gas Station w/Convenience Store	0.47	0.24	0.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.04	0.00	0.51	0.00	0.00	12.84	0.00	0.00	0.00	0.90	0.00	0.00	0.35	0.00	0.48	0.00
General Repair (Non-Auto)	3.10	5.97	1.95	0.00	0.00	0.00	0.00	11.25	0.00	0.00	3.15	0.00	0.47	45.40	0.00	0.00	0.00	0.00	0.00	2.05	0.00	0.17	5.37	8.24	3.15	1.24
Copy Center / Printing	2.49	0.60	3.16	5.37	0.00	0.00	0.00	0.00	1.40	4.55	5.24	7.66	1.28	0.00	0.00	0.00	0.00	0.00	8.46	0.00	0.00	1.25	7.33	0.00	2.55	0.00
HVAC Repair Installation	0.31	0.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.14	0.00	0.00	12.49
Aircraft Maintenance / Repair	0.26	0.80	0.00	0.00	0.00	0.00	0.00	0.36	0.00	0.00	0.00	0.00	0.52	0.00	29.72	0.00	0.00	1.35	0.00	0.29	0.00	0.00	0.21	0.00	0.18	3.08
Parking Lot / Commuter Service	0.39	0.00	0.00	5.70	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.40	0.00	0.00	15.30
Marina	0.31	0.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.14	0.00	0.32	0.00
Amusement (minigolf/go-carts/skating/)	0.44	0.00	0.00	6.55	0.00	0.00	0.00	0.00	0.00	11.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.61	0.00	0.45	0.00
Pet Care / Grooming	0.81	0.64	0.00	8.94	0.00	0.00	0.00	1.26	0.00	0.00	0.00	24.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.80	2.20	0.00	0.83	0.00
Car Rental	0.97	0.04	1.49	0.72	0.00	0.00	0.00	0.00	2.96	0.00	0.00	0.00	0.09	0.00	0.00	0.00	47.48	0.00	0.00	0.00	0.00	7.98	0.18	0.14	0.95	1.93
Car Wash	0.38	0.00	0.63	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.40	0.00	0.00	15.24
Cemetery / Mortuary / Crematorium	1.52	0.16	2.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.11	0.00	0.34	0.00	0.00	0.00	0.00	26.46	0.00	0.00	0.00	0.00	0.00	0.00	1.56	0.00
Equipment Rental	7.17	0.07	9.53	19.40	0.00	0.00	0.00	0.13	4.39	34.04	15.62	0.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	50.06	4.78	1.60	7.35	0.00
Fleet Fueling Services	0.55	0.00	0.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	73.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.89	0.56	0.00
Pest Control	0.07	0.06	0.00	0.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.91	0.14	0.00	0.00	0.00	0.00	0.00	1.19	0.00	0.00	0.00	0.07	0.00	0.07	0.00
Vehicle Inspections	0.08	0.00	0.00	1.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.02	0.00	0.00	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00	0.08	0.00	0.08	0.00
Transportation	17.19	20.38	17.01	3.74	0.00	0.00	0.00	24.45	33.84	6.67	0.00	0.00	15.77	0.00	40.50	0.00	0.00	0.00	52.18	32.21	0.00	0.00	6.45	0.00	17.63	0.00
Upholstery	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other	6.44	13.33	1.06	22.62	100.00	0.00	0.00	11.53	0.00	29.23	1.96	15.23	13.92	13.75	3.23	0.00	42.99	20.17	2.65	2.66	10.36	0.77	14.25	0.00	5.87	28.69
Don't Know	0.08	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.29	0.00	0.08	0.00
n	*205*	*111*	*47*	*47*	*1*	*2*	*1*	*27*	*8*	*17*	*29*	*25*	*78*	*5*	*5*	*3*	*4*	*31*	*11*	*29*	*5*	*20*	*91*	*18*	*185*	*20*
<FM050L> Which of the following types of buildings best describes this facility?																										
Assembly / Light Manufacturing	50.03	36.65	64.80	19.54	18.29	19.85	0.00	33.64	67.64	9.62	83.55	69.41	61.98	100.00	28.15	48.39	88.50	54.59	59.92	47.40	98.21	64.18	43.61	53.32	53.30	28.69
Food Processing Plant	16.37	22.90	11.84	0.32	52.43	46.37	0.00	22.16	9.66	1.01	0.00	0.00	11.47	0.00	43.51	11.66	0.00	0.71	39.87	12.56	0.00	10.25	25.76	19.44	13.67	34.01
Recycling Center	3.56	6.81	0.80	1.37	0.00	0.00	2.88	8.77	0.00	0.00	5.48	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	7.09	0.00	0.00	0.22	0.00	4.03	0.45
Commercial/Industrial Bakery	0.53	1.08	0.00	0.91	0.00	0.00	0.00	1.40	0.00	0.00	0.00	12.86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.14	0.00	0.61	0.00
Commerical Brewery / Winery	0.03	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.92	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.52	0.04	0.00
Chemical / Petrochemical Production	3.18	0.93	1.16	50.13	0.00	0.00	97.12	0.72	1.63	11.61	0.00	0.00	0.00	0.00	19.94	0.00	0.00	0.00	0.00	0.37	0.00	0.00	8.99	8.05	1.15	16.45
Industrial Process	10.68	17.52	4.10	15.00	3.36	0.00	0.00	21.70	4.14	41.65	0.00	1.87	2.74	0.00	4.48	30.29	11.50	7.46	0.00	15.36	0.00	10.84	2.86	12.88	12.12	1.28
Energy Generation / Distribution	3.54	7.41	0.21	1.53	0.00	0.00	0.00	9.55	0.10	4.75	0.91	0.00	0.00	0.00	0.00	0.00	0.00	21.01	0.00	6.84	0.00	0.00	0.14	1.05	4.09	0.00
Machine Shop	6.54	2.29	10.37	6.81	0.79	9.13	0.00	2.07	11.26	17.70	10.06	15.86	4.40	0.00	0.00	0.00	0.00	0.49	0.00	8.34	0.00	6.30	5.49	0.77	7.00	3.55
Pharmaceutical Production/Manufacturing	0.81	1.71	0.00	0.70	23.70	0.00	0.00	0.00	0.01	2.19	0.00	0.00	1.68	0.00	0.00	0.00	0.00	0.00	0.20	0.00	1.79	0.00	2.81	0.00	0.16	5.04
Mining	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other	4.73	2.63	6.72	3.68	1.42	24.66	0.00	0.00	5.55	11.46	0.00	0.00	17.70	0.00	0.00	9.65	0.00	15.46	0.00	1.03	0.00	8.42	9.99	3.97	3.84	10.54
n	*240*	*107*	*109*	*24*	*6*	*5*	*2*	*40*	*75*	*11*	*21*	*7*	*52*	*1*	*9*	*7*	*4*	*14*	*8*	*50*	*6*	*40*	*93*	*29*	*205*	*35*
<FM050M> What type of laundry facility is this?																										
Coin Operated	40.18	74.75	26.97	40.16	0.00	0.00	0.00	100.00	0.00	0.00	28.05	44.83	29.16	0.00	100.00	70.13	0.00	0.00	0.00	0.00	0.00	25.69	96.80	0.00	40.32	0.00
Commercial Laundry Facility	6.09	23.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	66.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.17	0.42	0.00	6.11	0.00
Dry Cleaners	53.73	1.38	73.03	59.84	0.00	0.00	0.00	0.00	0.00	0.00	71.95	55.17	3.87	100.00	0.00	29.87	100.00	100.00	0.00	0.00	0.00	66.14	2.78	100.00	53.57	100.00
n	*24*	*8*	*12*	*4*	*0*	*0*	*0*	*2*	*0*	*0*	*2*	*3*	*5*	*1*	*1*	*9*	*1*	*1*	*0*	*0*	*0*	*7*	*15*	*1*	*23*	*1*

* Values are shown as percent of respondents weighted by kWh.
* n is the number of respondents.

	ALL	PG&E(%)	SCE(%)	SDG&E(%)	PG&E Custom Program(%)	SCE Custom Program(%)	SDG&E Custom Program(%)	PG&E Deemed Program(%)	SCE Deemed Program(%)	SDG&E Deemed Program(%)	SCE Direct Install Program(%)	SDG&E Direct Install Program(%)	PG&E LGP Program(%)	SCE LGP Program(%)	PG&E L3P Program(%)	SCE L3P Program(%)	SDG&E L3P Program(%)	CFL Basic(%)	CFL Reflector(%)	High Bay(%)	HID(%)	LF Delamp(%)	Linear(%)	Occupancy Sensor(%)	Deemed(%)	All Calculated(%)
<FM050N> Which of the following types of buildings best describes this facility?																										
Garden Style	1.83	4.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.93	0.00	0.00	0.00	0.00	38.94	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.28
Highrise	10.16	1.74	0.00	22.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.52	0.00	0.00	0.00	34.38	14.17	0.00	0.00	0.00	0.00	15.61	0.00	1.51	17.01
Townhouse	5.41	14.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.90	0.00	0.00	9.70
Condominium	30.50	2.21	83.83	32.28	0.00	0.00	100.00	0.00	0.00	26.58	100.00	0.00	3.21	0.00	0.00	0.00	3.58	0.00	0.00	0.00	0.00	100.00	29.06	57.84	39.67	23.23
Apartment	27.20	25.50	0.00	40.72	0.00	0.00	0.00	0.00	0.00	73.42	0.00	0.00	36.98	0.00	0.00	0.00	54.55	0.00	0.00	0.00	100.00	0.00	40.34	4.65	7.54	42.78
Assisted Living	15.34	34.64	0.00	4.84	0.00	0.00	0.00	94.54	0.00	0.00	0.00	0.00	7.69	0.00	0.00	0.00	7.50	43.26	100.00	0.00	0.00	0.00	3.41	0.00	30.03	3.71
Other	9.57	17.01	16.17	0.00	0.00	0.00	0.00	5.46	100.00	0.00	0.00	0.00	22.21	0.00	0.00	0.00	0.00	3.63	0.00	0.00	0.00	0.00	2.68	37.52	21.26	0.31
n	*29*	*19*	*2*	*8*	*0*	*0*	*1*	*2*	*1*	*2*	*1*	*0*	*17*	*0*	*0*	*0*	*5*	*4*	*1*	*0*	*1*	*1*	*15*	*7*	*17*	*12*
<FM050O> Which of the following types of buildings best describes this facility?																										
Police station	4.10	1.14	8.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.58	0.00	0.00	100.00	0.00	0.00	37.84	0.00	0.00	0.00	4.16	0.00	2.87	4.39
Fire station	5.33	8.76	2.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	35.24	3.40	0.00	0.00	0.00	41.02	0.00	0.00	0.21	0.00	5.88	0.00	27.39	0.14
Military	10.38	3.37	1.96	72.99	0.00	21.05	0.00	0.00	0.00	0.00	0.00	0.00	13.56	0.00	0.00	0.00	100.00	0.00	0.00	32.75	0.00	0.00	9.28	14.41	8.63	10.79
Jail / Correctional Facility	26.55	0.00	65.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	85.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	31.03	0.00	0.00	32.80
Courthouse	0.19	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.55	0.00	0.00	0.00	0.00	0.00	13.04	0.00	0.00	0.00	0.00	0.00	0.99	0.00
Library	0.99	0.91	0.00	4.99	0.00	0.00	0.00	0.00	0.00	18.47	0.00	0.00	3.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00	28.64	0.00	0.15	9.90	5.18	0.00
Water/Waste Water Treatment	6.26	3.84	4.94	22.02	3.32	0.00	0.00	0.00	100.00	81.53	0.00	0.00	5.94	0.00	0.00	0.00	0.00	21.13	0.00	37.87	0.00	100.00	4.14	0.00	26.04	1.61
General Governement (Municiple/State/Fed	41.95	76.78	11.17	0.00	96.68	78.95	0.00	74.66	0.00	0.00	0.00	0.00	20.22	4.97	0.00	0.00	0.00	0.00	8.13	0.00	71.15	0.00	43.77	65.46	11.01	49.23
Public Park	1.91	0.00	4.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.14	0.00	0.00	0.00	0.00	40.99	0.00	0.00	0.00	1.54	0.00	10.02	0.00
Other	2.35	4.81	0.00	0.00	0.00	0.00	0.00	25.34	0.00	0.00	0.00	0.00	15.23	0.00	0.00	0.00	0.00	37.85	0.00	29.39	0.00	0.00	0.05	10.23	7.87	1.05
n	*48*	*29*	*16*	*3*	*3*	*2*	*0*	*3*	*2*	*2*	*0*	*0*	*23*	*11*	*0*	*1*	*1*	*4*	*4*	*4*	*3*	*3*	*23*	*7*	*30*	*18*
<CC2A> What is the total square footage at this facility?																										
Less than 1500 sq ft	4.66	3.49	5.54	3.42	0.12	6.47	0.00	5.31	4.30	1.25	10.91	12.72	3.14	3.95	0.63	0.54	1.50	7.40	21.89	3.96	0.92	9.45	3.37	0.38	5.15	2.52
Between 1500 and 5000 sq ft	10.46	11.92	9.70	9.84	0.00	0.74	0.00	7.16	4.31	7.89	29.55	30.85	21.97	6.33	4.66	9.44	1.15	22.84	16.40	3.73	3.26	20.63	12.62	4.70	12.42	1.92
Between 5000 and 10,000 sq ft	8.56	8.37	8.88	7.25	0.32	0.97	0.28	8.80	8.68	9.81	16.33	12.40	10.44	7.04	6.76	1.75	1.34	9.93	1.85	7.59	3.84	11.97	7.92	11.50	10.06	2.03
Between 10,000 and 25,000 sq ft	11.06	12.88	10.17	9.90	4.80	0.90	5.00	16.20	13.85	14.95	6.55	12.74	11.06	10.22	14.42	4.38	0.90	13.14	5.98	13.95	9.26	13.73	9.33	8.12	12.54	4.62
Between 25,000 and 50,000 sq ft	10.15	8.42	9.66	19.93	4.83	10.93	33.87	11.78	10.44	21.24	6.79	10.18	6.45	6.13	5.64	11.01	20.72	8.27	18.75	9.95	7.99	5.25	11.51	11.03	10.05	10.61
Between 50,000 and 75,000 sq ft	5.70	3.83	7.29	2.59	6.58	0.68	0.00	4.56	11.52	1.54	0.00	0.00	2.64	0.37	2.52	5.81	6.86	4.28	0.01	6.37	2.32	5.67	6.61	4.32	6.39	2.69
Between 75,000 and 100,000 sq ft	3.33	3.01	3.44	3.91	1.10	6.32	17.66	6.01	4.59	4.39	0.00	1.79	0.98	0.10	0.20	1.77	0.79	1.14	1.96	7.02	1.87	0.27	2.29	3.15	3.31	3.42
Over 100,000 sq ft (Ag area)	18.99	17.14	19.32	23.99	45.57	24.40	24.25	16.33	23.74	14.53	0.91	0.65	10.41	16.32	17.44	28.83	55.85	1.55	7.03	23.26	45.65	6.54	18.56	24.93	16.31	30.70
Refused	0.98	0.50	1.42	0.00	3.29	14.75	0.00	0.32	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.00	0.00	0.00	1.39	0.00	0.00	0.00	2.24	0.93	0.07	4.97
Don't Know	26.10	30.45	24.60	19.17	33.38	33.84	18.94	23.53	18.57	24.40	28.96	18.68	32.83	49.54	47.74	36.47	10.88	31.46	24.75	24.19	24.88	26.51	25.55	30.95	23.70	36.53
n	*2440*	*1292*	*755*	*393*	*45*	*55*	*13*	*256*	*300*	*140*	*194*	*132*	*856*	*81*	*135*	*125*	*108*	*346*	*104*	*276*	*83*	*307*	*1062*	*262*	*2014*	*426*
<CC2B> Would you say that the floor area is...																										
Less than 1500 sq ft	3.40	1.86	4.60	2.45	0.00	0.00	0.00	1.08	0.52	1.14	18.81	9.43	3.66	0.74	0.04	0.05	0.16	3.71	12.18	0.15	0.05	11.88	2.43	1.99	4.73	0.09
Between 1500 and 5000 sq ft	11.26	9.40	12.46	12.14	0.08	6.14	0.00	11.12	8.67	8.42	29.79	38.69	12.55	5.14	4.56	5.03	0.09	27.79	37.30	8.90	8.46	13.27	10.01	7.66	14.65	2.79
Between 5000 and 10,000 sq ft	7.94	8.55	5.69	23.94	8.73	1.27	0.00	4.03	2.35	27.30	17.01	40.87	12.16	6.99	8.13	1.61	2.67	5.89	1.57	10.35	0.55	6.42	6.90	11.62	9.52	4.01
Between 10,000 and 25,000 sq ft	20.81	14.22	24.92	25.42	0.00	0.26	44.75	11.38	45.60	36.13	18.60	4.83	21.70	7.13	11.19	10.36	0.89	19.56	26.65	35.07	3.28	13.40	14.68	22.91	26.99	5.38
Between 25,000 and 50,000 sq ft	6.57	4.43	7.30	13.34	3.97	2.17	0.00	8.16	14.80	21.29	0.00	5.08	1.32	1.02	5.36	5.75	0.00	0.08	1.35	7.44	0.01	5.30	8.06	6.51	8.18	2.53
Between 50,000 and 75,000 sq ft	4.58	3.06	5.84	2.89	0.82	0.00	0.00	2.18	2.49	1.08	0.74	0.00	2.08	6.84	9.56	34.94	14.47	7.59	2.29	0.73	4.85	13.96	2.30	7.73	5.68	1.84
Between 75,000 and 100,000 sq ft	3.26	3.50	3.01	4.05	0.00	0.20	0.00	8.49	0.51	0.00	8.73	0.00	1.91	0.00	0.00	6.06	25.87	8.81	0.00	3.93	2.30	8.44	1.65	1.00	3.32	3.13
Over 100,000 sq ft (Ag area)	33.03	39.88	30.44	13.56	76.66	65.03	55.25	43.74	23.22	4.15	4.81	0.00	24.56	72.15	43.98	34.76	44.78	21.37	17.44	28.11	67.81	24.68	37.78	35.24	21.44	61.97
Don't Know	9.16	15.11	5.76	2.22	9.73	24.93	0.00	9.81	1.83	0.49	1.50	1.10	20.06	0.01	17.18	1.44	11.07	5.19	1.23	5.33	12.68	2.64	16.18	5.34	5.51	18.26
n	*607*	*334*	*196*	*77*	*16*	*15*	*3*	*59*	*57*	*27*	*45*	*29*	*213*	*23*	*46*	*56*	*18*	*91*	*25*	*59*	*21*	*79*	*247*	*85*	*487*	*120*
<CC2C> Is the entire floor area of this facility heated or cooled?																										
Yes	45.91	50.05	42.72	50.72	69.81	50.47	29.08	41.11	28.20	54.43	59.84	59.68	53.55	48.52	53.62	88.47	44.27	67.02	68.35	15.78	73.23	61.44	56.31	44.83	44.33	52.79
No	53.88	49.49	57.29	48.66	30.07	49.53	70.92	57.89	71.80	45.57	40.16	40.32	46.38	51.48	46.31	11.53	53.48	32.90	31.65	84.22	26.77	38.56	43.50	54.03	55.48	46.88
Don't Know	0.21	0.46	0.00	0.62	0.12	0.00	0.00	0.99	0.00	0.00	0.00	0.00	0.07	0.00	0.07	0.00	2.25	0.07	0.00	0.00	0.00	0.00	0.19	1.14	0.18	0.34
n	*2441*	*1293*	*755*	*393*	*45*	*55*	*13*	*257*	*300*	*140*	*194*	*132*	*856*	*81*	*135*	*125*	*108*	*346*	*104*	*276*	*83*	*307*	*1062*	*263*	*2015*	*426*
<CC2D> What percentage of the floor area is heated or cooled at htis facility?																										
0 Percent	24.41	26.95	23.88	18.59	38.42	24.27	24.27	28.38	20.34	14.95	42.69	49.52	21.02	3.77	35.24	41.65	5.44	26.11	68.14	23.17	20.37	25.68	25.26	19.17	26.04	15.99
Between 0 and 15 Percent	33.07	24.68	38.99	20.77	5.60	62.10	0.00	34.78	41.18	17.77	25.15	5.31	19.87	5.12	2.50	0.16	40.68	11.18	15.86	46.01	12.33	24.12	20.77	34.22	33.70	29.84
Between 15 and 30 Percent	16.22	11.50	18.13	20.09	26.38	2.10	0.00	9.84	22.17	38.19	6.58	14.60	13.39	1.10	2.54	45.27	4.72	8.78	3.09	15.13	50.40	19.81	13.45	22.03	17.66	8.81
Between 30 and 45 Percent	6.76	10.91	4.52	7.71	0.00	9.83	0.00	9.48	3.33	14.83	7.13	8.22	15.49	8.86	7.62	0.83	0.19	7.71	5.21	5.23	11.21	7.04	7.55	9.38	7.27	4.14
Between 45 and 60 Percent	8.30	6.80	8.63	11.68	10.93	0.15	0.00	4.06	9.89	2.01	7.73	0.75	11.22	5.38	0.91	8.18	35.33	15.33	1.01	6.29	1.36	6.40	13.13	6.31	8.01	9.81
Between 60 and 80 Percent	2.62	4.37	1.13	7.12	0.91	0.00	27.97	1.75	1.38	3.02	0.67	17.18	6.53	1.02	12.22	0.05	0.03	24.32	0.79	0.78	1.42	4.78	4.37	0.32	2.01	5.78
Between 80 and 100 Percent	4.22	7.23	1.66	11.98	17.76	1.56	46.42	3.72	1.36	7.09	1.23	2.43	9.89	11.98	8.13	3.85	11.33	5.03	0.98	0.48	1.16	3.10	8.66	8.16	2.27	14.28

* Values are shown as percent of respondents weighted by kWh.
* n is the number of respondents.

	ALL	PG&E(%)	SCE(%)	SDG&E(%)	PG&E Custom Program(%)	SCE Custom Program(%)	SDG&E Custom Program(%)	PG&E Deemed Program(%)	SCE Deemed Program(%)	SDG&E Deemed Program(%)	SCE Direct Install Program(%)	SDG&E Direct Install Program(%)	PG&E LGP Program(%)	SCE LGP Program(%)	PG&E L3P Program(%)	SCE L3P Program(%)	SDG&E L3P Program(%)	CFL Basic(%)	CFL Reflector(%)	High Bay(%)	HID(%)	LF Delamp(%)	Linear(%)	Occupancy Sensor(%)	Deemed(%)	All Calculated(%)
100 Percent	2.93	6.67	1.40	0.01	0.00	0.00	0.00	8.00	0.00	0.00	8.83	0.00	0.11	4.89	30.69	0.00	0.02	0.04	4.67	2.84	0.00	7.44	2.87	0.17	2.45	5.38
Don't Know	1.46	0.91	1.67	2.06	0.00	0.00	1.34	0.00	0.34	2.14	0.00	1.99	2.47	57.88	0.15	0.00	2.25	1.50	0.24	0.08	1.74	1.64	3.94	0.25	0.59	5.97
n	*1090*	*545*	*360*	*185*	*18*	*21*	*8*	*138*	*197*	*76*	*88*	*62*	*338*	*24*	*51*	*30*	*39*	*130*	*28*	*207*	*31*	*124*	*440*	*130*	*922*	*168*
<CC3A> Is your space heated using electricity or gas?																										
Electricity	36.62	25.50	42.79	39.08	8.16	33.70	13.42	28.73	49.53	42.59	41.91	45.20	26.19	16.01	28.22	22.15	35.93	32.27	28.04	50.21	27.46	31.70	30.38	39.66	40.40	21.33
Gas	39.51	48.34	33.29	45.71	70.77	38.79	85.40	41.59	29.68	43.11	40.72	27.46	48.26	34.05	52.36	33.66	51.12	46.85	52.73	26.99	53.41	32.83	48.78	35.61	36.49	51.71
Both Gas and Electricty	16.37	19.57	15.60	9.45	20.37	19.29	1.18	19.27	12.36	9.97	5.99	17.12	20.08	46.64	17.68	41.08	6.09	17.38	6.62	13.40	7.12	27.17	15.44	17.25	15.01	21.85
Propane	1.31	1.75	0.98	1.77	0.00	0.00	0.00	2.12	1.62	0.28	0.23	0.87	2.25	0.00	0.00	0.00	5.16	1.29	9.54	2.22	0.84	0.74	0.75	0.06	1.32	1.29
No Heating	2.20	3.12	1.79	1.36	0.03	0.00	0.00	7.30	0.43	2.07	7.35	1.63	0.51	0.11	0.13	0.80	0.39	0.88	1.86	2.91	8.09	2.82	1.69	0.16	2.71	0.12
Other	0.37	0.70	0.12	0.72	0.00	0.32	0.00	0.05	0.05	0.49	0.00	0.68	1.68	0.00	0.00	0.61	1.30	0.17	0.00	0.02	0.00	0.33	0.78	0.14	0.26	0.82
Don't Know	3.62	1.02	5.44	1.90	0.67	7.90	0.00	0.96	6.34	1.50	3.81	7.04	1.04	3.18	1.61	1.70	0.00	1.16	1.21	4.24	3.08	4.40	2.19	7.12	3.81	2.87
n	*2095*	*1112*	*656*	*327*	*39*	*49*	*9*	*208*	*254*	*117*	*163*	*104*	*749*	*78*	*116*	*112*	*97*	*300*	*95*	*218*	*75*	*274*	*903*	*230*	*1716*	*379*
<C0> About what percentage of your operating costs does energy account for?																										
Less than 1 percent	9.72	9.67	9.56	10.87	7.13	6.92	3.31	11.86	9.40	19.58	15.81	8.35	9.86	2.55	2.14	0.90	0.24	7.69	7.39	10.41	13.41	7.35	9.36	12.02	10.86	4.74
1 to 2 percent	16.22	15.24	17.36	12.57	19.59	3.01	34.46	14.83	23.08	13.40	10.86	14.45	14.22	5.90	16.48	14.06	3.83	6.43	8.69	25.83	8.70	17.83	13.99	6.12	17.61	10.15
3 to 5 percent	18.43	22.03	15.91	20.93	13.66	6.57	17.66	15.99	14.80	11.37	24.48	32.22	30.87	43.28	21.40	4.70	29.82	20.61	7.34	12.91	36.96	22.61	20.49	16.73	18.35	18.75
6 to 10 percent	11.09	9.02	12.05	12.82	0.00	5.39	19.93	7.84	11.78	16.52	16.90	14.66	12.03	11.10	11.56	9.99	3.44	23.73	28.26	7.86	18.24	9.83	10.29	12.59	11.81	7.96
11 to 15 percent	4.20	3.85	4.42	4.16	11.62	7.29	0.00	2.92	3.65	3.65	4.70	5.50	3.19	2.93	2.27	6.18	5.22	7.17	13.05	1.87	4.35	5.23	4.81	3.27	3.84	5.77
16 to 20 percent	5.28	5.09	5.96	1.65	3.74	16.05	0.97	5.84	5.39	1.64	3.89	4.30	5.02	4.08	3.50	4.05	0.00	3.60	2.71	6.31	1.74	4.69	4.95	6.75	4.79	7.43
21 to 50 percent	8.39	10.51	7.22	7.86	20.99	7.17	0.00	14.28	7.43	12.00	4.36	8.62	1.89	9.63	17.81	11.95	2.63	7.05	24.02	7.51	1.33	4.70	10.65	6.05	7.61	11.82
Over 51 percent	2.53	1.96	2.99	1.75	3.12	6.64	0.00	2.10	1.59	2.12	3.61	1.46	1.72	1.47	1.07	7.25	1.83	0.40	1.72	1.90	0.39	1.85	2.97	4.73	2.32	3.41
Don't Know	24.15	22.64	24.53	27.40	20.16	40.96	23.65	24.34	22.87	19.72	15.38	10.44	21.19	19.05	23.77	40.93	53.00	23.34	6.84	25.39	14.89	25.91	22.48	31.75	22.81	29.98
n	*2440*	*1293*	*755*	*392*	*45*	*55*	*13*	*257*	*300*	*140*	*194*	*132*	*856*	*81*	*135*	*125*	*107*	*345*	*104*	*276*	*83*	*307*	*1062*	*263*	*2014*	*426*
<CC4> Does your business own, lease or manage the facility?																										
Own	53.54	62.20	48.04	55.99	79.64	56.24	35.51	63.01	42.57	52.00	40.40	41.58	53.33	79.44	75.98	83.84	78.27	51.96	62.41	40.69	66.45	48.19	61.22	59.57	49.40	71.62
Lease/Rent	42.50	33.53	48.59	37.48	11.25	28.88	35.58	33.15	54.88	45.41	58.54	57.81	42.95	14.75	20.82	15.35	10.71	46.40	37.15	54.78	31.19	50.43	35.30	31.42	47.78	19.46
Manage	2.98	3.62	2.08	6.36	3.26	8.30	28.91	3.85	1.44	2.49	1.07	0.61	3.65	5.82	2.86	0.77	10.58	1.64	0.44	3.32	2.18	1.27	2.62	6.54	2.33	5.83
Don't Know	0.97	0.66	1.28	0.17	5.85	6.58	0.00	0.00	1.11	0.10	0.00	0.00	0.08	0.00	0.33	0.04	0.45	0.00	0.00	1.22	0.18	0.12	0.86	2.47	0.49	3.09
n	*2439*	*1292*	*755*	*392*	*45*	*55*	*13*	*257*	*300*	*140*	*194*	*132*	*855*	*81*	*135*	*125*	*107*	*344*	*104*	*276*	*83*	*307*	*1062*	*263*	*2013*	*426*
<C5> How many locations does your organization have. Is it....																										
This facility only	43.85	49.10	40.13	47.84	13.55	5.23	41.40	53.22	40.42	40.93	67.84	68.46	50.79	12.94	62.35	19.37	46.74	63.53	38.99	44.15	23.92	51.85	41.57	43.13	47.80	26.60
2 to 4 locations	17.22	18.69	17.83	7.66	3.22	7.18	0.00	17.55	22.43	7.71	17.28	20.52	23.57	9.71	20.44	2.69	0.72	20.75	33.19	26.60	18.51	13.81	12.03	10.48	19.13	8.86
5 to 10 locations	8.00	6.66	8.56	9.46	2.52	11.36	16.62	7.30	7.34	9.04	8.80	3.18	8.49	4.12	0.92	14.41	12.58	8.04	21.37	9.06	2.68	5.83	7.98	6.20	7.89	8.49
11 to 25 locations or	5.20	8.27	3.36	5.34	15.46	4.52	0.97	6.44	1.48	4.07	0.90	4.92	9.44	6.29	3.85	19.50	8.95	0.76	0.57	2.48	4.98	12.22	5.77	3.72	4.69	7.42
More than 25 locations	24.47	16.16	29.45	24.09	57.51	71.71	41.01	15.49	27.26	32.65	5.17	2.92	6.90	65.13	12.35	43.98	19.96	6.80	5.89	17.72	49.91	16.08	30.21	33.76	19.61	45.69
Refused	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.03	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Don't Know	1.26	1.11	0.67	5.61	7.74	0.00	0.00	0.00	1.07	5.61	0.00	0.00	0.80	1.78	0.10	0.04	11.05	0.06	0.00	0.00	0.00	0.21	2.44	2.71	0.87	2.94
n	*2439*	*1292*	*755*	*392*	*45*	*55*	*13*	*257*	*300*	*140*	*194*	*132*	*855*	*81*	*135*	*125*	*107*	*344*	*104*	*276*	*83*	*307*	*1062*	*263*	*2013*	*426*
<CC6> How active a role does your business take in making lighting and climate control equipment purchase decisions at this facility? Would you say you are…																										
Very active – involved in all phases and have veto power	72.99	78.11	69.42	76.48	86.08	65.64	99.03	74.79	70.36	74.44	66.93	63.64	76.98	52.84	88.62	78.36	82.62	80.35	64.80	65.37	85.43	72.49	80.55	64.64	72.34	75.81
Somewhat active-we approve decisions and provide some input and review	16.78	15.76	18.01	12.79	5.53	9.15	0.97	21.31	17.03	13.25	20.07	26.51	13.88	45.92	10.12	20.69	5.72	10.01	28.52	19.18	11.22	20.68	10.84	24.88	17.74	12.59
Slightly active-we have a voice but it's Not the dominant voice	6.42	3.74	8.55	2.89	8.39	15.87	0.00	2.63	10.21	4.28	4.71	4.15	4.40	0.85	0.91	0.91	0.50	5.59	4.17	12.19	2.74	2.98	4.82	4.21	6.23	7.23
Not active at all-we are part of a large organization	1.05	0.69	1.21	1.40	0.00	9.34	0.00	1.20	0.49	1.94	0.13	2.47	0.50	0.00	0.00	0.00	0.13	0.56	0.24	0.78	0.00	0.65	0.93	3.11	0.65	2.82
OR Not active at all- our firm doesn't get involved in these issues	2.43	1.61	2.72	3.66	0.00	0.00	0.00	0.07	1.82	0.53	7.96	1.99	3.99	0.38	0.35	0.00	11.04	2.76	2.27	2.38	0.61	2.95	2.79	1.31	2.63	1.56
Don't Know	0.34	0.10	0.10	2.78	0.00	0.00	0.00	0.00	0.08	5.57	0.21	1.24	0.26	0.00	0.00	0.04	0.00	0.74	0.00	0.10	0.00	0.25	0.07	1.85	0.41	0.00
n	*2437*	*1291*	*755*	*391*	*45*	*55*	*13*	*257*	*300*	*140*	*194*	*132*	*854*	*81*	*135*	*125*	*106*	*343*	*104*	*276*	*83*	*307*	*1061*	*263*	*2011*	*426*
<CC8> In what year was your facility built?																										
After 2000	9.78	9.16	9.47	14.18	16.91	35.65	15.61	6.56	8.94	16.11	2.32	3.44	4.99	7.04	29.05	1.85	18.06	10.73	5.00	14.86	1.96	3.17	9.60	10.04	7.55	19.54
In the 1990's	11.66	13.49	10.17	14.31	27.45	10.03	2.66	8.14	12.55	12.21	4.65	9.20	15.50	5.07	13.73	9.19	24.55	11.54	4.88	7.67	26.55	4.29	14.50	18.16	10.99	14.62
1980's	15.85	12.38	18.49	12.03	19.56	20.35	52.75	13.60	21.77	14.93	11.23	2.20	10.07	13.40	8.77	13.43	2.86	8.10	4.09	17.69	21.19	11.02	16.99	17.33	15.62	16.85
1970's	7.51	8.72	6.70	8.11	1.92	0.66	0.95	10.33	9.03	7.73	4.99	8.86	8.10	4.84	11.55	2.50	10.21	10.75	3.58	8.49	1.96	13.73	6.27	3.72	7.99	5.45
1960's	6.74	8.64	6.04	4.04	8.62	0.00	0.28	8.40	5.36	5.42	2.55	2.27	10.12	14.56	3.71	22.91	4.03	3.54	5.86	7.00	1.21	9.04	6.40	7.11	7.09	5.23
1950's	3.82	4.66	3.64	1.73	3.78	0.10	0.00	6.60	2.32	2.27	6.10	3.07	2.94	0.00	4.17	11.69	0.35	6.70	4.42	3.29	0.44	5.88	3.24	4.47	4.33	1.58
Before 1950	5.88	7.67	4.24	9.61	0.42	0.02	0.00	5.34	4.20	2.32	6.11	13.00	11.92	1.16	8.32	5.69	22.00	16.10	10.23	6.16	10.69	2.54	6.21	3.20	5.50	7.52
Don't Know	38.75	35.27	41.24	35.99	21.34	33.20	27.75	41.03	35.84	39.02	62.05	57.97	36.36	53.95	20.70	32.74	17.94	32.54	61.94	34.85	36.00	50.32	36.79	35.98	40.94	29.21
n	*2437*	*1291*	*755*	*391*	*45*	*55*	*13*	*257*	*300*	*140*	*194*	*132*	*854*	*81*	*135*	*125*	*106*	*343*	*104*	*276*	*83*	*307*	*1061*	*263*	*2011*	*426*

* Values are shown as percent of respondents weighted by kWh.
* n is the number of respondents.

	ALL	PG&E(%)	SCE(%)	SDG&E(%)	PG&E Custom Program(%)	SCE Custom Program(%)	SDG&E Custom Program(%)	PG&E Deemed Program(%)	SCE Deemed Program(%)	SDG&E Deemed Program(%)	SCE Direct Install Program(%)	SDG&E Direct Install Program(%)	PG&E LGP Program(%)	SCE LGP Program(%)	PG&E L3P Program(%)	SCE L3P Program(%)	SDG&E L3P Program(%)	CFL Basic(%)	CFL Reflector(%)	High Bay(%)	HID(%)	LF Delamp(%)	Linear(%)	Occupancy Sensor(%)	Deemed(%)	All Calculated(%)
<CC10> If Don't Know, would you say it was...																										
After 2000	1.61	2.04	1.51	0.85	15.41	1.60	0.00	1.65	2.47	1.19	0.16	0.83	0.71	2.35	0.00	0.00	0.00	1.11	0.35	1.27	1.15	1.06	1.13	5.56	1.42	2.79
In the 1990's	10.89	14.95	9.41	6.75	0.96	11.03	0.00	23.84	11.91	6.18	5.72	11.61	8.42	14.64	0.00	3.17	0.74	2.16	32.26	12.40	24.60	6.16	7.33	14.45	11.40	7.82
1980's	21.45	22.99	20.55	22.29	36.89	15.36	2.15	26.25	19.40	26.86	22.37	27.46	16.70	1.10	24.21	36.55	2.75	9.36	6.04	22.45	23.19	32.44	20.37	13.81	22.19	16.91
1970's	20.23	12.68	22.28	33.24	0.73	23.87	97.85	11.59	26.63	33.04	17.68	26.37	15.57	3.79	14.82	18.94	21.89	16.73	13.51	30.58	9.90	19.39	20.11	6.42	20.77	16.87
1960's	14.24	19.17	12.70	7.20	42.20	7.00	0.00	19.02	13.36	8.59	13.95	6.67	14.41	12.02	28.84	8.98	6.43	19.70	6.93	11.38	2.89	26.79	11.17	14.84	14.02	15.54
1950's	6.45	8.92	5.03	7.78	0.38	4.03	0.00	3.56	0.87	5.54	6.79	9.54	14.46	3.12	25.23	29.53	15.21	18.08	4.89	2.13	6.38	4.04	7.65	14.31	5.81	10.43
Before 1950	14.58	14.22	16.33	3.02	3.44	7.24	0.00	7.87	15.22	0.00	18.54	2.96	25.08	60.00	3.85	2.28	15.35	7.89	31.71	12.78	27.61	1.77	14.74	28.71	14.33	16.14
Don't Know	10.54	5.03	12.20	18.87	0.00	29.87	0.00	6.22	10.14	18.59	14.80	14.55	4.65	2.98	3.05	0.55	37.65	24.96	4.32	7.01	4.29	8.36	17.50	1.90	10.06	13.50
n	*1066*	*525*	*367*	*174*	*16*	*24*	*3*	*92*	*141*	*62*	*118*	*74*	*365*	*38*	*52*	*46*	*35*	*131*	*61*	*103*	*41*	*145*	*490*	*95*	*914*	*152*
<CC11> In what year was this facility last remodeled?																										
Between 2008 and present	50.82	54.37	48.12	54.66	82.39	68.72	88.29	43.55	46.84	54.94	49.26	43.60	56.57	51.26	62.54	30.32	52.61	46.26	43.59	44.27	50.03	45.00	58.05	53.62	47.28	66.27
Between 2000 and 2007	21.70	20.00	22.21	24.89	2.42	18.91	9.07	31.04	21.40	33.13	20.95	23.95	13.52	11.24	16.97	37.69	16.21	18.64	20.80	26.11	25.86	24.12	15.66	27.00	23.76	12.69
During the 1990's	7.26	10.21	6.33	1.97	6.36	2.29	1.69	8.87	5.39	0.49	10.50	7.69	14.20	1.92	4.04	8.52	0.54	13.41	28.73	4.17	5.71	11.73	5.73	6.83	7.82	4.82
Before the 1990's	3.03	3.90	2.80	1.12	0.20	0.00	0.00	5.47	2.83	0.68	3.72	4.24	3.98	2.11	0.75	3.77	0.01	6.19	1.08	2.78	7.11	3.13	2.67	3.14	3.67	0.24
Don't Know	17.20	11.52	20.53	17.36	8.63	10.08	0.95	11.07	23.55	10.77	15.57	20.53	11.73	33.47	15.70	19.70	30.63	15.51	5.81	22.67	11.29	16.03	17.89	9.41	17.47	15.98
n	*2432*	*1289*	*754*	*389*	*45*	*55*	*13*	*257*	*299*	*140*	*194*	*131*	*852*	*81*	*135*	*125*	*105*	*340*	*104*	*275*	*83*	*307*	*1060*	*263*	*2008*	*424*
<CC11A> Would you say the last remodeling was done …																										
Between 2008 and present	5.17	12.77	3.31	0.08	0.00	47.78	0.00	21.51	1.04	0.00	1.18	0.34	10.20	0.00	1.23	2.11	0.00	0.02	1.32	3.11	7.04	2.17	8.38	5.73	3.99	10.77
Between 2000 and 2007	11.06	12.51	10.20	14.04	0.00	1.85	100.00	2.02	14.07	9.91	2.98	11.66	29.71	2.44	0.00	1.68	16.83	7.66	22.01	10.88	19.41	3.84	13.39	9.72	12.20	5.65
During the 1990's	10.33	13.23	9.53	9.08	20.99	29.48	0.00	3.69	6.12	15.00	10.81	21.36	16.62	6.67	27.66	24.50	0.00	29.72	0.19	4.12	11.21	14.58	13.28	12.08	8.08	21.04
Before the 1990's	15.45	18.98	14.06	17.18	54.41	0.00	0.00	12.18	1.85	33.55	51.38	31.28	19.67	90.21	16.86	8.90	1.22	44.09	49.87	7.37	0.28	19.90	21.10	6.19	13.41	25.21
Don't Know	57.99	42.53	62.91	59.62	24.60	20.89	0.00	60.61	76.92	41.54	33.64	35.36	23.80	0.68	54.25	62.82	81.96	18.51	26.60	74.53	62.06	59.51	43.85	66.28	62.32	37.32
n	*358*	*187*	*113*	*58*	*5*	*6*	*1*	*33*	*44*	*18*	*29*	*26*	*128*	*14*	*21*	*20*	*13*	*49*	*12*	*31*	*9*	*45*	*181*	*31*	*307*	*51*
<CC12a> In what year was this organization established at this location?																										
Between 2009 and present	15.10	9.63	17.68	19.26	19.18	16.14	40.05	9.14	24.67	15.20	7.53	27.87	9.06	2.65	3.84	1.63	14.30	11.78	7.91	25.62	3.40	9.98	14.10	6.69	15.66	12.64
Between 2006 and 2008	12.22	10.49	13.81	8.60	7.95	31.24	0.00	12.04	13.84	11.52	12.77	10.15	9.29	1.95	11.29	0.58	5.02	9.70	8.66	15.17	3.72	8.78	12.91	11.60	12.02	13.11
Between 2000 and 2005	19.73	19.63	20.27	16.61	17.13	11.24	29.29	23.91	20.28	12.68	31.55	20.00	17.87	12.76	10.76	5.67	17.31	22.23	12.41	30.32	13.14	16.82	16.05	13.83	21.30	12.84
In the 1990's	16.54	18.70	16.04	11.60	16.68	5.64	1.69	16.46	14.40	13.23	29.22	12.98	19.05	6.23	29.16	10.15	10.68	18.00	30.87	9.89	34.19	25.37	14.43	18.25	17.31	13.19
1980's	10.59	11.05	10.36	10.36	2.37	15.29	0.00	10.08	7.86	15.43	12.51	14.94	14.76	15.39	9.52	14.95	1.63	9.90	4.83	4.57	23.44	7.31	14.84	13.05	10.81	9.64
1970's	4.82	6.13	3.65	7.42	0.31	0.79	10.44	7.46	4.93	6.29	1.76	6.40	5.23	5.50	10.29	2.10	9.19	9.05	6.69	3.38	1.06	9.35	3.55	6.19	5.12	3.54
1960's	6.55	7.64	6.34	3.72	19.19	0.00	0.28	5.53	6.79	5.00	1.46	1.86	6.35	15.63	9.65	18.99	3.83	0.69	0.57	5.30	5.61	6.58	6.41	12.93	5.91	9.32
1950's	2.40	2.70	2.42	1.13	0.20	1.06	0.00	4.04	1.06	1.96	0.26	1.21	1.87	0.00	2.94	18.91	0.00	3.38	6.77	0.64	0.39	3.52	1.69	6.32	2.71	1.03
Before 1950	3.28	3.77	2.05	9.31	0.42	2.32	0.00	1.61	1.84	8.21	1.16	2.24	7.58	3.48	1.33	4.82	18.61	5.81	3.11	2.30	3.57	3.56	4.42	1.03	2.52	6.60
Don't Know	8.77	10.27	7.39	11.99	16.57	16.27	18.26	9.73	4.34	10.49	1.78	2.34	8.95	36.40	11.21	22.20	19.43	9.45	18.20	2.82	11.47	8.75	11.60	10.11	6.64	18.09
n	*2435*	*1291*	*755*	*389*	*45*	*55*	*13*	*257*	*300*	*140*	*194*	*131*	*854*	*81*	*135*	*125*	*105*	*341*	*104*	*276*	*83*	*307*	*1061*	*263*	*2011*	*424*
<CC12b> If Don't Know, would you say it was…																										
After 2005	3.15	2.31	0.80	15.21	0.00	0.00	0.00	5.10	0.00	2.25	0.00	0.00	0.89	2.95	0.07	1.52	32.05	0.00	0.00	9.11	0.00	2.71	3.82	0.78	2.29	4.52
Between 2000 and 2005	4.73	1.80	7.21	4.43	0.00	2.56	0.00	0.67	12.66	10.00	28.70	0.00	4.56	0.40	0.00	3.26	0.95	0.68	0.00	28.28	0.00	0.00	1.85	9.47	6.12	2.50
In the 1990s	24.08	32.63	21.74	5.44	9.72	55.43	0.00	50.55	14.12	12.32	13.74	13.62	11.05	0.02	70.99	17.08	0.00	50.48	97.49	30.40	38.71	11.41	20.25	0.58	20.50	29.82
In the 1980s	15.03	13.82	14.35	21.67	6.64	0.00	3.27	5.16	4.54	53.07	17.23	0.00	25.93	0.27	18.79	45.36	0.08	2.94	0.10	16.90	51.16	46.07	4.08	18.41	22.62	2.86
In the 1970s	22.06	18.23	24.16	26.26	42.68	0.00	96.73	6.96	46.87	19.89	40.33	36.79	24.60	2.71	1.44	21.97	12.84	37.07	0.00	0.33	0.00	28.52	19.25	53.14	26.27	15.32
In the 1960s	9.34	3.34	15.99	2.55	4.30	0.00	0.00	0.95	7.23	0.00	0.00	0.00	3.99	86.33	8.71	7.41	5.71	1.94	0.00	13.64	0.46	6.62	14.05	2.15	4.92	16.42
Before 1960	10.92	7.90	10.46	22.59	8.31	33.04	0.00	0.00	8.50	2.47	0.00	0.00	19.37	2.78	0.00	0.68	48.38	2.58	1.78	0.00	3.84	2.52	17.65	11.39	5.75	19.20
Don't Know	10.70	19.97	5.30	1.85	28.35	8.97	0.00	30.61	6.08	0.00	0.00	49.59	9.61	4.53	0.00	2.71	0.00	4.30	0.63	1.33	5.84	2.15	19.05	4.08	11.53	9.37
n	*230*	*125*	*80*	*25*	*9*	*9*	*2*	*16*	*22*	*8*	*8*	*5*	*86*	*20*	*14*	*21*	*10*	*25*	*10*	*20*	*12*	*28*	*105*	*30*	*165*	*65*
<BC090> Has the square footage of the facility increased, decreased or remained the same since January 2009?																										
Increase in square footage	5.38	5.69	5.11	5.90	8.36	21.74	0.28	1.54	4.20	4.26	1.00	1.99	5.31	7.64	22.39	1.80	12.87	2.82	0.95	2.29	20.70	0.93	9.67	1.88	2.71	17.01
Decrease in square footage	2.21	1.28	3.09	0.06	0.00	9.24	0.00	0.57	3.66	0.13	0.17	0.00	2.65	0.01	0.18	0.45	0.00	3.34	0.00	2.93	0.00	0.50	2.18	3.65	1.76	4.18
Stayed the same	90.73	92.93	88.96	93.76	90.98	69.01	99.72	97.89	87.72	95.01	97.58	98.01	91.94	92.34	77.41	97.71	87.10	93.81	99.05	94.70	78.02	97.47	84.19	94.48	93.49	78.70
Don't Know	1.68	0.11	2.83	0.29	0.65	0.00	0.00	0.00	4.41	0.60	1.26	0.00	0.10	0.01	0.02	0.04	0.04	0.03	0.00	0.09	1.28	1.10	3.96	0.00	2.04	0.12
n	*2435*	*1291*	*755*	*389*	*45*	*55*	*13*	*257*	*300*	*140*	*194*	*131*	*854*	*81*	*135*	*125*	*105*	*341*	*104*	*276*	*83*	*307*	*1061*	*263*	*2011*	*424*
<BC100> How many square feet were added?																										
Less than 1500 sq ft	4.66	3.76	2.85	13.74	0.00	0.00	0.00	22.56	3.97	14.90	0.00	100.00	1.80	5.24	0.00	0.00	3.17	16.36	97.65	29.51	0.00	4.92	2.81	8.13	9.60	0.32
Between 1500 and 5000 sq ft	24.46	11.93	39.35	18.60	0.00	39.80	0.00	55.98	39.46	62.58	100.00	0.00	4.45	0.00	5.71	6.04	0.08	11.90	2.35	55.30	3.74	4.54	28.92	46.33	46.19	5.36
Between 5000 and 10,000 sq ft	7.75	2.24	3.58	40.56	100.00	0.00	100.00	0.15	2.40	0.00	0.00	0.00	0.00	5.08	3.51	28.86	64.12	2.87	0.00	0.00	0.00	42.94	9.82	0.14	4.80	10.35

* Values are shown as percent of respondents weighted by kWh.
* n is the number of respondents.

	ALL	PG&E(%)	SCE(%)	SDG&E(%)	PG&E Custom Program(%)	SCE Custom Program(%)	SDG&E Custom Program(%)	PG&E Deemed Program(%)	SCE Deemed Program(%)	SDG&E Deemed Program(%)	SCE Direct Install Program(%)	SDG&E Direct Install Program(%)	PG&E LGP Program(%)	SCE LGP Program(%)	PG&E L3P Program(%)	SCE L3P Program(%)	SDG&E L3P Program(%)	CFL Basic(%)	CFL Reflector(%)	High Bay(%)	HID(%)	LF Delamp(%)	Linear(%)	Occupancy Sensor(%)	Deemed(%)	All Calculated(%)
Between 10,000 and 25,000 sq ft	15.08	1.87	33.43	0.09	0.00	1.60	0.00	10.42	52.13	0.00	0.00	0.00	0.78	10.60	0.35	0.00	0.14	0.60	0.00	0.00	69.38	18.56	0.46	0.00	30.96	1.11
Between 25,000 and 50,000 sq ft	7.86	13.78	2.03	6.67	0.00	0.00	0.00	10.89	2.04	22.51	0.00	0.00	0.00	0.00	26.94	12.80	0.00	0.00	0.00	15.19	26.87	29.04	1.35	0.00	5.08	10.30
Between 50,000 and 75,000 sq ft	0.26	0.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.43	0.00	0.00	0.00	0.00	13.86	0.00	0.00	0.00	0.00	0.00	0.00	0.55	0.00
Between 75,000 and 100,000 sq ft	1.32	0.00	3.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	52.29	0.00	54.41	0.00	0.00	0.00	0.00	0.50	0.00	2.82	0.00
Over 100,000 sq ft (Ag area)	38.61	65.85	15.65	20.35	0.00	58.59	0.00	0.00	0.00	0.00	0.00	0.00	91.54	79.09	63.49	0.00	32.50	0.00	0.00	0.00	0.00	0.00	56.15	45.40	0.00	72.56
n	*71*	*34*	*23*	*14*	*1*	*3*	*1*	*8*	*6*	*6*	*2*	*2*	*18*	*6*	*7*	*6*	*5*	*11*	*3*	*6*	*6*	*8*	*29*	*8*	*49*	*22*
<BC110> How many square feet was the facility reduced?																										
Less than 1500 sq ft	6.59	34.48	1.00	0.00	0.00	0.00	0.00	29.33	0.00	0.00	23.57	0.00	100.00	100.00	0.00	0.00	0.00	17.17	0.00	0.00	0.00	13.26	80.12	0.00	6.74	0.00
Between 1500 and 5000 sq ft	19.44	0.00	23.34	0.00	0.00	100.00	0.00	0.00	14.57	0.00	76.43	0.00	0.00	0.00	0.00	100.00	0.00	82.83	0.00	0.00	0.00	86.74	0.00	6.14	17.69	100.00
Between 5000 and 10,000 sq ft	1.03	6.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	19.88	0.00	1.05	0.00
Between 10,000 and 25,000 sq ft	9.92	59.37	0.00	0.00	0.00	0.00	0.00	70.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.76	10.13	0.00
Between 50,000 and 75,000 sq ft	63.02	0.00	75.66	0.00	0.00	0.00	0.00	0.00	85.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	81.10	64.39	0.00
n	*11*	*4*	*7*	*0*	*0*	*1*	*0*	*2*	*2*	*0*	*2*	*0*	*1*	*1*	*1*	*1*	*0*	*2*	*0*	*0*	*0*	*2*	*3*	*4*	*10*	*1*
<BC120> What year did this change in square feet occur?																										
2008	0.55	0.60	0.00	5.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.11	0.10	0.34	0.00	8.62	0.00	0.00	0.43	0.00	0.00	0.81	0.00	0.24	0.82
2009	5.01	4.63	5.76	0.00	0.00	7.76	0.00	0.00	0.73	0.00	65.45	0.00	10.46	0.00	0.00	25.14	0.00	48.00	2.35	1.35	0.00	8.32	5.58	2.24	6.12	3.98
2010	13.56	34.61	1.99	22.51	100.00	0.00	100.00	7.95	0.62	13.25	31.18	0.00	3.50	5.56	63.96	24.24	29.70	17.91	0.00	0.00	4.43	10.20	20.39	8.31	4.93	21.52
2011	30.62	12.26	40.81	21.96	0.00	63.13	0.00	36.21	29.64	59.99	0.00	0.00	14.58	4.94	4.07	50.62	2.89	25.51	0.00	2.63	0.00	13.30	40.74	64.95	30.29	30.92
2012	21.17	20.91	18.81	43.35	0.00	0.00	0.00	54.00	30.39	5.98	0.00	100.00	28.50	73.35	4.89	0.00	58.72	0.64	97.65	60.66	0.00	37.06	11.26	22.06	29.05	13.91
2013	7.25	0.39	11.51	0.04	0.00	0.00	0.00	0.00	19.90	0.00	0.00	0.00	0.87	16.05	0.00	0.00	0.07	5.28	0.00	32.31	1.12	31.13	0.00	1.62	14.59	0.48
Don't Know	21.85	26.61	21.12	7.01	0.00	29.11	0.00	1.83	18.72	20.78	3.37	0.00	40.98	0.00	26.73	0.00	0.00	2.65	0.00	2.61	94.45	0.00	21.22	0.81	14.78	28.36
n	*106*	*51*	*38*	*17*	*3*	*7*	*1*	*11*	*11*	*8*	*4*	*2*	*28*	*8*	*9*	*8*	*6*	*15*	*3*	*9*	*6*	*13*	*46*	*14*	*75*	*31*
<CA15> Over the past 3 years, how would you characterize your organization's business outlook?																										
Excellent	20.73	17.12	22.88	20.68	15.48	41.56	34.52	20.24	22.48	17.25	14.01	16.05	15.16	41.53	13.30	20.14	25.80	19.81	6.44	20.67	10.92	22.43	20.26	27.15	19.26	27.15
Good	39.14	37.54	39.20	44.92	31.44	24.75	42.41	41.25	42.23	41.16	42.99	43.94	36.81	37.62	30.95	26.38	52.56	37.42	45.68	38.55	49.69	36.68	38.52	40.86	40.25	34.31
Fair	18.58	22.67	16.93	13.54	22.71	29.86	22.12	17.57	12.52	15.37	17.65	12.39	27.09	9.92	26.95	32.58	8.94	12.14	9.13	12.96	9.88	24.24	23.57	15.98	17.62	22.74
Adequate	8.99	11.43	7.97	6.23	3.45	3.61	0.00	12.91	7.08	6.64	11.83	14.82	11.75	5.15	12.27	10.41	1.28	8.59	13.59	9.51	26.34	6.06	8.52	6.54	9.34	7.47
Poor	10.68	7.78	12.30	11.30	3.79	0.22	0.95	6.59	15.14	13.11	13.09	11.30	8.16	3.99	15.67	7.41	11.17	20.52	25.17	17.39	1.73	9.06	6.47	6.76	12.26	3.82
Refused	0.05	0.13	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.32	0.35	0.00	0.00	0.00	0.00	0.19	0.00	0.00	0.16	0.00	0.11	0.00	0.03	0.16
Don't Know	1.83	3.32	0.72	3.26	23.14	0.00	0.00	1.44	0.54	6.48	0.43	1.18	0.69	1.78	0.86	3.08	0.25	1.34	0.00	0.92	1.28	1.53	2.56	2.71	1.25	4.36
n	*2435*	*1291*	*755*	*389*	*45*	*55*	*13*	*257*	*300*	*140*	*194*	*132*	*854*	*81*	*135*	*125*	*104*	*341*	*104*	*276*	*83*	*307*	*1061*	*263*	*2011*	*424*
<CA15A> Projecting over the next 3 years, how would you characterize your business outlook?																										
Excellent	25.33	23.28	27.22	20.95	18.98	41.10	33.55	29.62	26.66	19.50	22.15	18.43	20.04	42.69	13.49	22.86	21.65	20.67	21.68	27.24	12.60	23.62	25.55	28.11	24.60	28.49
Good	41.91	41.32	40.53	53.14	30.06	33.64	53.73	40.97	41.93	50.20	43.03	48.88	46.20	48.24	35.09	30.45	60.82	37.48	37.52	40.92	53.01	38.61	41.11	49.43	42.54	39.18
Fair	16.20	18.56	15.14	13.98	21.16	22.25	2.29	18.92	11.13	19.74	17.97	19.89	19.94	2.34	8.64	31.32	3.53	11.73	8.00	12.12	16.20	23.90	17.63	15.24	16.01	17.01
Adequate	9.28	7.68	10.82	5.50	6.28	2.69	0.00	4.53	14.04	7.45	7.15	6.99	8.29	3.28	20.46	9.37	2.74	21.06	13.18	14.00	16.08	5.91	6.57	5.14	10.38	4.51
Poor	3.89	3.53	4.14	3.66	0.85	0.22	0.95	4.57	4.92	0.02	4.88	2.91	2.38	0.00	6.55	2.83	11.00	3.71	17.88	4.99	0.39	2.26	3.50	1.86	4.18	2.62
Going out of business	0.15	0.42	0.02	0.00	0.00	0.00	0.00	0.46	0.00	0.00	0.08	0.00	0.36	0.00	0.91	0.00	0.00	1.24	0.40	0.00	0.00	0.00	0.26	0.05	0.18	0.04
Refused	0.07	0.20	0.00	0.09	0.00	0.00	0.00	0.17	0.00	0.00	0.00	0.45	0.33	0.00	0.00	0.00	0.00	0.19	0.00	0.00	0.16	0.00	0.17	0.00	0.06	0.15
Don't Know	3.16	5.01	2.14	2.68	22.66	0.10	9.49	0.76	1.34	3.10	4.74	2.46	2.47	3.46	14.87	3.18	0.25	3.93	1.35	0.73	1.55	5.71	5.21	0.18	2.05	8.01
n	*2437*	*1293*	*755*	*389*	*45*	*55*	*13*	*257*	*300*	*140*	*194*	*132*	*856*	*81*	*135*	*125*	*104*	*342*	*104*	*276*	*83*	*307*	*1062*	*263*	*2011*	*426*
<FM070> How many people are currently working at the facility, including both full and part time?																										
1 to 10	95.21	96.22	95.10	92.06	87.97	82.16	96.18	96.72	95.63	98.87	98.18	98.05	97.78	97.94	96.55	97.67	75.43	99.21	99.71	95.77	100.00	99.45	94.46	87.78	96.69	88.75
11 to 50	1.12	1.66	0.65	2.09	11.49	4.73	0.00	0.99	0.00	0.00	0.91	0.14	0.19	0.00	0.00	0.06	7.49	0.36	0.00	0.00	0.00	0.00	2.00	3.05	0.31	4.66
51 to 100	3.67	2.12	4.25	5.86	0.55	13.12	3.82	2.29	4.38	1.13	0.91	1.81	2.03	2.06	3.45	2.27	17.08	0.43	0.29	4.23	0.00	0.55	3.54	9.17	3.00	6.59
n	*2436*	*1292*	*755*	*389*	*45*	*55*	*13*	*256*	*300*	*140*	*194*	*131*	*856*	*81*	*135*	*125*	*105*	*343*	*103*	*276*	*83*	*307*	*1062*	*262*	*2010*	*426*
<FM080> Since January 2009 has the number of people working at this facility changed by more than 10%?																										
Yes	27.83	28.70	27.37	27.48	14.99	9.02	33.52	33.40	31.31	33.26	32.11	30.42	29.95	22.16	17.92	11.68	14.17	20.70	16.60	30.72	26.57	29.96	22.39	40.31	30.73	15.20
No	66.48	69.57	64.50	67.42	80.43	64.30	62.66	65.61	60.75	65.31	67.53	68.61	67.86	46.23	82.08	88.24	71.43	78.21	83.40	66.19	71.08	69.75	70.25	43.40	65.35	71.43
Refused	0.18	0.37	0.08	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.37	0.32	0.96	0.02	0.00	0.00	0.00	0.19	0.00	0.16	0.00	0.00	0.34	0.00	0.22	0.00
Don't Know	5.52	1.36	8.05	5.04	4.59	26.67	3.82	0.99	7.94	1.44	0.00	0.65	1.23	31.59	0.00	0.08	14.40	0.90	0.00	2.93	2.36	0.29	7.02	16.29	3.71	13.38
n	*2437*	*1293*	*755*	*389*	*45*	*55*	*13*	*256*	*300*	*140*	*194*	*131*	*857*	*81*	*135*	*125*	*105*	*343*	*103*	*276*	*83*	*307*	*1063*	*262*	*2011*	*426*
<FM081> Would these changes have increased or decreased number of employees?																										
Increased number of employees	43.10	35.80	45.64	55.92	49.05	7.69	100.00	33.52	47.05	47.86	44.21	65.63	36.95	28.56	34.56	72.13	44.11	46.34	44.35	26.14	16.21	44.77	41.37	77.90	43.94	35.71
Decreased number of employees	55.07	61.28	52.93	44.08	19.60	92.31	0.00	66.48	50.79	52.14	55.79	34.37	59.97	71.44	65.44	27.87	55.89	52.84	55.65	73.62	80.80	55.23	53.10	22.10	54.90	56.57
Don't Know	1.83	2.92	1.44	0.00	31.35	0.00	0.00	0.00	2.16	0.00	0.00	0.00	3.08	0.00	0.00	0.00	0.00	0.82	0.00	0.24	2.99	0.00	5.54	0.00	1.16	7.72

* Values are shown as percent of respondents weighted by kWh.
* n is the number of respondents.

	ALL	PG&E(%)	SCE(%)	SDG&E(%)	PG&E Custom Program(%)	SCE Custom Program(%)	SDG&E Custom Program(%)	PG&E Deemed Program(%)	SCE Deemed Program(%)	SDG&E Deemed Program(%)	SCE Direct Install Program(%)	SDG&E Direct Install Program(%)	PG&E LGP Program(%)	SCE LGP Program(%)	PG&E L3P Program(%)	SCE L3P Program(%)	SDG&E L3P Program(%)	CFL Basic(%)	CFL Reflector(%)	High Bay(%)	HID(%)	LF Delamp(%)	Linear(%)	Occupancy Sensor(%)	Deemed(%)	All Calculated(%)
n	*680*	*338*	*221*	*121*	*9*	*9*	*3*	*80*	*106*	*51*	*56*	*37*	*217*	*25*	*32*	*25*	*30*	*96*	*23*	*81*	*27*	*90*	*272*	*91*	*582*	*98*
<FM100> In 2008 approximately how many people were working at this facility, including both full- or part-time employees?																										
1 to 10	28.93	29.85	31.77	11.05	0.68	0.00	1.78	35.28	21.12	18.51	70.69	4.03	29.58	41.21	50.01	6.72	8.80	68.81	10.77	22.90	49.04	35.86	19.59	35.64	31.08	9.26
11 to 50	22.00	28.62	20.89	9.68	49.45	40.04	0.00	16.06	22.58	10.43	15.76	13.37	34.98	53.01	33.97	11.61	12.57	17.37	30.66	28.62	43.64	12.89	21.37	22.14	21.34	28.04
51 to 100	14.61	13.83	15.98	9.33	2.34	0.00	0.00	26.36	22.84	12.01	0.33	0.00	5.12	0.00	7.65	0.19	32.47	0.87	0.00	24.00	0.00	1.75	6.00	26.87	15.50	6.48
101 to 500	8.73	2.99	11.27	10.81	0.00	0.00	0.00	5.34	8.91	20.26	6.40	0.00	1.42	5.79	2.99	61.72	10.79	5.29	0.00	3.83	0.00	19.33	15.63	0.51	9.42	2.41
501 to 1000	0.66	0.06	1.09	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	19.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.15	0.02	6.52
Refused	1.46	0.59	1.69	2.65	0.00	0.00	0.00	0.00	2.43	0.00	0.00	10.67	1.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.85	2.83	0.00	1.44	1.71
Don't Know	23.62	24.07	17.31	56.48	47.54	59.96	98.22	16.81	22.13	38.78	6.81	71.92	27.49	0.00	5.38	0.72	35.37	7.65	58.57	20.64	7.32	26.33	34.58	12.69	21.22	45.59
n	*328*	*172*	*101*	*55*	*5*	*3*	*2*	*38*	*54*	*20*	*23*	*15*	*112*	*8*	*17*	*13*	*18*	*46*	*7*	*39*	*15*	*43*	*130*	*48*	*279*	*49*
<PC010> Thinking back to 2008, were any changes made to the facility during 2008 that would change the energy consumption by more than 10%?																										
Yes	12.12	14.63	9.87	17.11	30.58	14.34	0.60	12.93	7.21	12.44	9.36	4.25	10.90	39.98	20.08	14.48	38.36	8.94	16.05	7.81	19.98	7.55	15.85	13.28	8.86	26.35
No	75.78	77.91	74.86	73.59	61.89	79.55	92.27	77.23	71.21	83.79	84.19	66.81	83.39	52.61	75.81	78.83	56.19	80.51	82.38	70.17	76.67	79.93	77.63	74.76	77.42	68.62
Refused	0.06	0.01	0.00	0.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.04	0.04	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00	0.15	0.00	0.07	0.00
Don't Know	12.04	7.45	15.27	8.72	7.53	6.12	7.13	9.84	21.58	3.77	6.45	25.90	5.68	7.41	4.10	6.70	5.46	10.45	1.57	22.03	3.36	12.52	6.37	11.96	13.65	5.03
n	*2438*	*1294*	*755*	*389*	*45*	*55*	*13*	*257*	*300*	*140*	*194*	*131*	*857*	*81*	*135*	*125*	*105*	*343*	*103*	*276*	*83*	*307*	*1063*	*263*	*2012*	*426*
<PC020> Would these changes have increased or decreased consumption?																										
Increased	44.84	46.16	43.44	45.71	59.27	48.04	100.00	32.25	60.86	38.24	37.10	44.56	34.70	21.22	88.93	9.45	49.59	8.24	7.95	57.51	76.80	46.68	44.18	33.21	43.87	46.25
Decreased	54.79	53.40	56.51	52.93	40.73	51.96	0.00	67.75	39.04	59.65	62.90	55.44	64.01	78.78	10.54	90.50	49.34	91.70	91.61	42.49	23.20	53.32	55.15	66.56	55.64	53.54
Don't Know	0.37	0.44	0.05	1.36	0.00	0.00	0.00	0.00	0.09	2.11	0.00	0.00	1.29	0.00	0.53	0.04	1.07	0.06	0.44	0.00	0.00	0.00	0.67	0.23	0.49	0.20
n	*254*	*127*	*81*	*46*	*9*	*9*	*1*	*27*	*27*	*16*	*16*	*10*	*80*	*12*	*11*	*17*	*19*	*26*	*12*	*29*	*11*	*25*	*116*	*35*	*191*	*63*
<V1> Now I would like to find out, did you use a contractor/vendor to install the lighting measures that were installed through the 2010-2012 Program?																										
Yes	85.04	81.12	87.37	84.94	96.43	90.14	90.51	80.24	93.44	82.08	67.61	71.09	76.13	90.84	88.83	89.70	97.77	60.79	53.29	91.25	74.73	85.56	84.88	88.17	83.83	90.29
No	12.95	15.70	11.24	13.50	0.28	9.58	9.49	17.91	5.21	16.49	29.72	24.53	18.94	9.16	9.49	10.08	1.95	31.78	45.92	7.61	22.34	12.48	13.43	8.09	13.99	8.42
Don't Know	2.01	3.18	1.39	1.57	3.29	0.28	0.00	1.85	1.35	1.43	2.68	4.38	4.93	0.00	1.68	0.22	0.28	7.43	0.78	1.14	2.93	1.97	1.69	3.75	2.18	1.29
n	*2438*	*1294*	*755*	*389*	*45*	*55*	*13*	*257*	*300*	*140*	*194*	*131*	*857*	*81*	*135*	*125*	*105*	*343*	*103*	*276*	*83*	*307*	*1063*	*263*	*2012*	*426*
<V2> How did you come into contact with the contractor/vendor?																										
They contacted you	47.12	49.75	44.80	52.92	32.45	6.02	56.93	52.49	46.50	56.29	70.93	79.67	54.84	23.87	41.38	35.82	33.67	65.84	73.90	43.32	35.67	66.05	41.13	47.33	52.62	24.86
You contacted them	13.86	14.72	13.59	12.46	14.56	42.36	18.63	13.82	8.42	20.22	8.64	8.04	13.53	45.03	22.64	16.56	2.28	16.65	23.25	13.25	14.27	12.62	16.05	8.24	11.05	25.20
You had worked with them before	24.01	18.74	27.40	20.77	46.62	38.26	24.44	17.55	33.88	9.83	0.00	1.90	12.31	23.17	13.34	20.71	44.64	6.43	1.81	27.05	42.70	4.27	28.26	28.89	21.05	36.01
Other	7.42	10.16	6.12	6.01	0.00	6.20	0.00	6.51	4.07	4.34	16.64	8.09	14.85	0.66	19.95	3.17	8.84	9.74	0.44	3.72	7.36	10.29	9.54	7.28	7.32	7.80
Other-describe	3.29	3.10	3.12	5.06	6.07	0.08	0.00	3.19	4.04	6.06	0.00	1.84	2.89	7.20	0.06	4.44	6.58	0.65	0.45	5.98	0.00	0.70	3.59	0.83	3.27	3.38
Don't Know	4.31	3.53	4.97	2.78	0.30	7.08	0.00	6.44	3.09	3.27	3.79	0.46	1.58	0.08	2.63	19.30	3.99	0.70	0.15	6.69	0.00	6.08	1.44	7.43	4.69	2.76
n	*1933*	*1040*	*576*	*317*	*43*	*46*	*12*	*200*	*256*	*120*	*113*	*101*	*696*	*64*	*101*	*97*	*84*	*244*	*62*	*229*	*66*	*251*	*873*	*208*	*1570*	*363*
<V2A> In relation to this project, did the vendor/contractor approach you about retrofiting your lighting?																										
Yes	32.90	28.88	33.32	42.65	55.33	9.96	92.36	21.07	40.23	18.86	0.00	28.05	9.73	11.25	23.37	5.07	43.06	47.66	0.00	47.11	2.25	12.56	24.00	40.56	34.73	28.64
No	65.76	66.24	66.68	56.26	44.67	90.04	7.64	75.35	59.77	75.78	0.00	71.95	75.61	88.75	76.63	94.93	56.94	51.88	100.00	51.83	85.51	85.68	75.40	59.44	63.66	70.64
Don't Know	1.34	4.88	0.00	1.09	0.00	0.00	0.00	3.57	0.00	5.36	0.00	0.00	14.66	0.00	0.00	0.00	0.00	0.46	0.00	1.05	12.23	1.76	0.60	0.00	1.61	0.71
n	*260*	*132*	*87*	*41*	*15*	*18*	*3*	*43*	*46*	*15*	*1*	*6*	*59*	*14*	*15*	*8*	*17*	*20*	*3*	*52*	*12*	*12*	*126*	*35*	*181*	*79*
<V2B> On a scale of 0 - 10, with 0 being very unlikely and 10 being Very likely. How likely is it that your organization would have retrofitted lighting equipment had the contractor/vendor Not contacted you?																										
1 Not at all likely	9.42	6.07	12.09	4.26	0.00	0.00	0.00	5.82	11.78	3.55	16.12	12.98	9.05	24.41	1.28	1.32	0.09	3.97	52.32	7.68	1.32	16.30	7.03	3.47	10.43	0.94
2	6.09	12.32	2.92	4.95	7.12	10.27	0.00	12.56	2.26	10.19	4.92	2.33	14.19	0.00	8.88	2.60	0.41	4.46	4.82	6.44	12.60	6.82	6.69	2.63	6.05	6.43
3	6.83	10.38	4.79	7.64	2.14	15.17	37.18	12.32	1.58	7.44	10.36	5.13	9.55	3.14	13.06	20.24	1.35	12.10	0.96	6.18	13.72	7.24	8.78	2.67	6.81	7.00
4	6.56	8.39	6.19	2.81	0.00	1.28	0.00	17.72	8.35	4.81	1.46	3.62	1.40	0.00	0.57	0.29	0.00	5.25	0.00	6.30	1.30	5.15	1.42	22.42	7.25	0.75
5	7.54	7.96	6.13	14.67	12.23	8.29	61.70	7.12	8.07	11.20	1.07	2.02	7.70	0.42	8.55	2.41	15.78	5.66	12.51	4.26	4.80	5.21	13.26	5.02	6.67	14.92
6	4.98	5.01	5.45	2.14	0.00	0.00	0.00	3.32	7.46	3.89	0.66	1.61	9.35	0.00	0.51	1.41	0.50	8.64	11.21	2.78	24.87	0.25	2.34	16.71	5.46	0.98
7	3.70	2.67	4.72	0.89	4.50	0.00	0.00	1.00	5.16	1.36	3.88	0.84	3.55	0.00	5.27	4.47	0.49	1.58	0.45	3.35	0.10	1.22	4.20	8.09	3.66	4.02
8	4.38	8.65	0.93	11.33	55.96	0.00	0.00	5.24	1.24	2.60	0.08	0.00	2.48	0.00	0.61	0.72	36.08	1.95	0.55	3.17	0.65	1.05	8.26	4.59	1.79	26.19
9	1.45	2.33	1.11	0.58	0.25	0.00	0.00	4.16	1.59	0.90	0.00	0.25	1.27	0.00	0.00	0.06	0.49	0.52	0.00	2.01	0.00	3.98	0.36	0.02	1.58	0.31
10 Very likely	14.36	8.43	18.60	8.13	15.02	46.69	0.00	5.17	21.77	3.06	4.36	1.26	4.24	45.38	35.16	21.29	23.15	31.55	0.12	22.64	13.89	1.61	17.37	5.63	13.41	22.38
Zero Not at all likely	34.13	27.74	37.02	37.52	2.78	18.30	1.12	25.58	30.65	39.06	57.11	69.97	37.03	26.65	26.11	45.20	21.64	24.33	17.07	35.05	26.76	51.05	30.29	25.17	36.28	16.08
Don't Know	0.56	0.07	0.08	5.09	0.00	0.00	0.00	0.00	0.11	11.93	0.00	0.00	0.19	0.00	0.00	0.00	0.00	0.00	0.00	0.15	0.00	0.12	0.00	3.57	0.63	0.01
n	*1155*	*612*	*339*	*204*	*19*	*9*	*4*	*118*	*164*	*80*	*91*	*74*	*421*	*22*	*54*	*53*	*46*	*148*	*41*	*113*	*34*	*171*	*524*	*124*	*986*	*169*
<V3> Did the contractor/vendor tell you about or recommend the program?																										

* Values are shown as percent of respondents weighted by kWh.
* n is the number of respondents.

	ALL	PG&E(%)	SCE(%)	SDG&E(%)	PG&E Custom Program(%)	SCE Custom Program(%)	SDG&E Custom Program(%)	PG&E Deemed Program(%)	SCE Deemed Program(%)	SDG&E Deemed Program(%)	SCE Direct Install Program(%)	SDG&E Direct Install Program(%)	PG&E LGP Program(%)	SCE LGP Program(%)	PG&E L3P Program(%)	SCE L3P Program(%)	SDG&E L3P Program(%)	CFL Basic(%)	CFL Reflector(%)	High Bay(%)	HID(%)	LF Delamp(%)	Linear(%)	Occupancy Sensor(%)	Deemed(%)	All Calculated(%)
Yes	63.56	62.28	65.37	56.17	49.54	48.19	69.39	68.49	70.53	58.20	75.21	71.09	61.07	13.79	56.94	47.24	42.39	74.10	73.63	64.92	79.68	75.42	55.04	64.44	68.21	44.69
No	31.65	33.54	29.65	38.05	50.46	45.00	30.61	25.67	25.93	30.32	18.04	24.93	34.44	85.69	41.62	41.54	57.39	23.53	12.65	29.85	17.76	16.44	42.45	29.40	26.53	52.37
Don't Know	4.80	4.18	4.99	5.79	0.00	6.81	0.00	5.84	3.54	11.49	6.75	3.98	4.49	0.52	1.44	11.22	0.23	2.38	13.71	5.23	2.56	8.14	2.51	6.16	5.25	2.95
n	*1933*	*1039*	*576*	*318*	*43*	*46*	*12*	*200*	*256*	*120*	*113*	*102*	*695*	*64*	*101*	*97*	*84*	*244*	*63*	*229*	*66*	*251*	*872*	*208*	*1571*	*362*
<V4> Prior to coming into contact with the contractor/vendor, did you organization have plans to replace/install lighting equipment?																										
Yes	38.71	30.93	43.44	33.60	60.83	80.56	15.05	28.43	47.47	38.17	17.32	10.59	24.24	34.65	37.47	34.89	52.17	37.71	7.89	40.23	55.25	21.43	40.50	54.42	35.00	61.64
No	60.57	68.24	55.82	66.26	37.40	19.44	84.95	70.48	51.42	61.53	82.68	89.41	75.32	65.21	62.53	65.11	47.83	62.30	92.11	59.10	44.75	76.61	58.90	45.58	64.23	37.95
Don't Know	0.72	0.83	0.74	0.14	1.78	0.00	0.00	1.10	1.11	0.31	0.00	0.00	0.45	0.14	0.00	0.00	0.00	0.00	0.00	0.68	0.00	1.95	0.60	0.00	0.77	0.41
n	*1215*	*637*	*368*	*210*	*22*	*21*	*6*	*139*	*195*	*89*	*87*	*64*	*412*	*18*	*64*	*47*	*51*	*145*	*42*	*151*	*37*	*179*	*533*	*128*	*1027*	*188*
<V4A> On a scale of 0 - 10, with 0 being very unlikely and 10 being Very likely. How likely is it that your organization would have retrofitted lighting equipment had the contractor/vendor Not recommended it?																										
1 Not at all likely	8.59	9.72	8.40	5.42	0.26	1.36	0.00	11.16	9.97	4.78	7.38	14.65	11.91	27.19	4.29	1.29	1.07	4.82	4.89	8.79	2.30	16.42	6.15	7.07	9.62	2.22
2	6.41	9.91	4.36	8.12	0.00	0.00	32.53	13.70	3.13	8.62	11.56	3.55	7.20	0.00	12.10	1.98	0.83	7.33	5.06	7.00	24.75	6.76	4.14	4.77	6.51	5.82
3	7.72	5.68	8.16	12.49	1.94	34.40	52.42	4.81	6.56	15.10	2.78	0.53	6.05	0.00	12.22	11.19	0.97	1.76	0.36	2.62	4.72	6.50	15.31	5.70	6.29	16.53
4	6.44	7.02	6.79	1.44	41.53	0.11	13.50	4.09	9.37	0.20	1.98	0.00	3.04	4.42	0.77	1.58	0.00	1.75	0.17	7.09	0.73	1.40	6.51	15.22	5.75	10.77
5	7.14	10.34	5.83	4.35	12.65	11.96	0.00	10.45	6.91	5.53	1.56	1.10	9.17	1.66	11.87	0.26	6.65	6.12	5.66	5.35	14.36	4.54	8.12	10.61	6.88	8.79
6	3.05	3.01	3.10	2.85	0.00	0.00	0.00	2.77	1.17	5.72	1.57	0.00	4.57	12.07	1.38	30.06	0.98	15.73	10.96	0.77	0.00	2.03	2.17	8.98	3.26	1.75
7	3.76	3.56	4.10	1.98	2.80	3.55	0.00	2.99	5.46	1.79	0.00	1.13	2.65	0.00	10.46	2.70	3.88	11.27	0.00	0.78	0.00	1.40	2.35	17.71	3.62	4.65
8	6.71	10.16	5.00	6.06	25.61	9.91	1.55	5.38	4.62	7.53	2.12	1.51	14.74	5.95	0.00	11.43	9.00	2.81	1.16	3.65	6.86	3.19	12.19	6.64	5.64	13.32
9	2.42	1.07	3.31	1.03	0.00	0.00	0.00	2.26	4.93	0.91	0.00	2.30	0.04	0.00	0.36	0.00	0.61	0.05	0.00	6.57	0.00	0.02	0.54	2.23	2.79	0.14
10 Very likely	13.31	9.08	15.67	12.21	12.62	16.60	0.00	7.38	18.80	6.79	6.71	0.46	9.03	30.03	13.73	6.28	37.70	8.10	7.42	18.00	6.58	15.24	14.40	1.26	12.59	17.75
Zero Not at all likely	33.32	29.17	34.11	44.02	2.59	17.89	0.00	32.18	28.13	43.03	63.22	74.60	31.58	15.26	32.82	33.24	38.31	40.21	64.15	38.08	39.71	42.43	26.02	19.45	35.97	16.94
Don't Know	1.12	1.28	1.18	0.04	0.00	4.21	0.00	2.82	0.95	0.00	1.13	0.18	0.02	3.42	0.00	0.00	0.00	0.05	0.16	1.30	0.00	0.07	2.10	0.38	1.09	1.34
n	*1215*	*637*	*368*	*210*	*22*	*21*	*6*	*139*	*195*	*89*	*87*	*64*	*412*	*18*	*64*	*47*	*51*	*145*	*42*	*151*	*37*	*179*	*533*	*128*	*1027*	*188*
<V4B> On a scale of 0 - 10, with 0 being very unlikely and 10 being Very likely. How likely is it that your organization would have installed lighting equipment with the same level of efficiency if the contractor/vendor had Not recommended to do so?																										
1 Not at all likely	6.17	5.62	6.41	6.59	0.89	0.29	0.00	4.40	6.71	8.88	9.70	2.80	9.03	8.58	3.43	0.73	8.16	9.10	2.11	2.67	2.35	16.87	6.09	1.75	6.83	2.14
2	9.29	21.63	3.73	2.29	2.29	0.00	13.50	30.81	3.71	1.06	6.07	0.85	17.73	0.00	12.35	1.87	1.21	9.84	5.18	15.41	25.23	5.04	6.98	2.28	9.93	5.34
3	8.67	6.63	9.03	14.20	10.94	0.17	52.42	6.90	11.29	16.97	1.28	4.48	2.07	18.53	17.98	16.72	1.21	0.34	2.83	6.93	0.19	9.41	8.24	17.99	9.02	6.54
4	7.21	7.11	7.99	1.67	33.41	0.00	0.00	1.99	9.96	2.97	6.53	1.53	7.77	5.13	2.19	1.04	0.00	4.21	11.13	7.30	6.91	3.83	5.96	14.54	7.06	8.17
5	12.43	9.86	14.77	4.69	2.80	13.50	0.00	7.14	19.11	6.84	5.11	1.57	15.22	0.00	9.89	0.17	5.18	12.70	5.66	21.61	11.80	4.39	11.45	5.55	13.24	7.38
6	3.01	4.67	1.58	7.29	12.47	0.00	31.58	6.43	2.18	6.55	0.24	4.47	1.45	12.07	0.43	0.00	0.98	1.85	0.00	3.59	0.00	0.66	3.46	5.31	2.60	5.53
7	4.02	4.29	4.23	1.30	0.06	3.12	1.55	4.22	5.70	2.23	0.00	0.46	4.46	0.00	8.34	2.70	0.11	15.94	6.25	2.29	0.19	0.43	1.90	16.57	4.19	3.01
8	6.92	4.13	8.57	5.49	11.02	49.58	0.95	4.34	5.55	7.15	0.00	3.29	3.09	0.89	0.00	18.71	6.07	2.75	0.25	6.22	0.30	0.89	11.94	8.08	4.10	24.33
9	3.01	3.50	2.86	2.14	14.81	0.43	0.00	3.70	2.36	1.57	0.00	0.00	1.11	11.52	0.04	18.14	5.95	2.63	0.00	3.20	0.00	0.44	2.95	7.62	2.76	4.53
10 Very likely	9.80	8.20	10.21	13.06	6.49	16.81	0.00	6.95	10.62	5.99	6.87	0.18	9.15	24.55	12.33	6.71	43.03	3.70	2.43	3.03	6.63	19.44	14.88	3.65	8.53	17.67
Zero Not at all likely	28.21	23.42	29.19	40.04	4.83	16.11	0.00	22.13	22.59	38.13	57.44	78.08	27.51	18.58	33.02	33.01	28.07	36.65	64.14	27.76	44.23	34.18	24.99	16.40	30.33	15.14
Don't Know	1.25	0.96	1.41	1.23	0.00	0.00	0.00	1.01	0.23	1.65	6.75	2.30	1.41	0.14	0.00	0.18	0.04	0.29	0.00	0.00	2.18	4.43	1.18	0.28	1.42	0.21
n	*1215*	*637*	*368*	*210*	*22*	*21*	*6*	*139*	*195*	*89*	*87*	*64*	*412*	*18*	*64*	*47*	*51*	*145*	*42*	*151*	*37*	*179*	*533*	*128*	*1027*	*188*
<V40> On a scale of 0 - 10, with 0 being very unlikely and 10 being Very likely. How important was the input from the contractor you worked with in deciding which specific equipment to install? Was it …																										
1 Not at all Important	0.34	0.18	0.48	0.00	0.00	0.00	0.00	0.00	0.60	0.00	0.41	0.00	0.49	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	1.62	0.14	0.00	0.38	0.15
2	0.28	0.20	0.36	0.00	0.00	0.00	0.00	0.31	0.47	0.00	0.25	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	1.12	0.27	0.00	0.32	0.06
3	0.58	0.31	0.77	0.18	0.00	0.00	0.00	0.00	0.04	0.28	3.66	0.20	0.78	0.00	0.29	1.04	0.08	0.19	0.00	0.00	0.00	2.41	0.43	0.20	0.56	0.67
4	0.76	0.10	0.93	2.16	0.00	0.00	0.00	0.04	0.95	3.51	1.57	2.74	0.24	0.00	0.00	0.00	0.00	0.61	0.00	0.06	0.00	0.05	1.13	2.81	0.88	0.02
5	7.41	3.18	9.63	7.40	2.44	3.12	0.00	2.79	12.08	8.19	4.25	7.17	4.27	4.47	1.65	7.38	9.18	2.31	1.22	6.15	1.40	5.33	8.17	15.12	7.82	4.88
6	3.07	4.16	2.73	1.28	6.40	1.73	0.00	4.78	2.98	1.30	3.10	1.78	2.55	0.00	4.87	0.53	1.36	2.44	0.62	4.99	0.42	4.98	1.96	0.19	3.25	1.96
7	11.45	9.09	12.53	12.65	6.36	40.03	1.55	9.94	9.67	11.93	12.07	2.66	11.01	0.00	0.66	13.57	27.14	13.45	0.40	8.77	14.86	4.88	15.52	16.88	10.11	19.74
8	17.07	25.05	12.91	16.96	47.62	25.89	0.00	17.38	9.93	20.43	10.03	27.07	26.90	33.11	31.61	35.47	8.79	31.67	22.80	12.57	2.23	17.69	22.44	14.08	15.08	29.38
9	15.62	18.24	13.92	18.23	18.70	10.75	32.53	21.35	13.39	25.71	15.86	6.11	12.49	15.07	24.46	17.34	8.23	11.29	48.55	15.81	38.76	14.88	11.62	13.89	15.62	15.64
10 Extremely Important	41.30	37.07	43.91	38.29	18.47	12.25	65.91	41.87	48.91	24.61	44.94	48.09	37.95	46.26	29.98	24.67	44.62	35.02	25.36	49.52	30.24	46.63	35.69	36.55	44.09	24.08
Zero Not at all Important	0.86	1.07	0.65	1.61	0.00	6.23	0.00	1.42	0.16	2.88	0.46	0.88	1.17	0.09	0.17	0.00	0.48	2.93	0.05	0.65	7.14	0.42	0.78	0.00	0.67	2.05
Refused	0.04	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00	0.05	0.00
Don't Know	1.21	1.24	1.20	1.23	0.00	0.00	0.00	0.13	0.84	1.16	3.40	3.30	1.63	0.99	6.31	0.00	0.12	0.09	0.00	1.34	4.95	0.00	1.85	0.28	1.19	1.37
n	*1215*	*636*	*368*	*211*	*22*	*21*	*6*	*139*	*195*	*89*	*87*	*64*	*411*	*18*	*64*	*47*	*52*	*146*	*42*	*150*	*37*	*179*	*533*	*128*	*1027*	*188*
<AP9> How did you FIRST learn about the Utility's program?																										
Bill insert	2.16	1.48	2.45	2.49	2.97	0.00	0.00	0.75	0.82	5.43	6.98	0.75	2.32	0.33	0.60	0.11	0.59	5.98	2.51	0.49	0.00	2.79	3.02	2.07	2.60	0.69
Program literature	2.86	1.39	3.36	4.34	0.00	0.00	0.00	1.99	0.95	8.75	9.46	1.14	1.48	0.45	0.88	1.84	1.88	2.35	15.06	0.37	0.00	2.50	3.53	3.34	3.63	0.28

* Values are shown as percent of respondents weighted by kWh.
* n is the number of respondents.

	ALL	PG&E(%)	SCE(%)	SDG&E(%)	PG&E Custom Program(%)	SCE Custom Program(%)	SDG&E Custom Program(%)	PG&E Deemed Program(%)	SCE Deemed Program(%)	SDG&E Deemed Program(%)	SCE Direct Install Program(%)	SDG&E Direct Install Program(%)	PG&E LGP Program(%)	SCE LGP Program(%)	PG&E L3P Program(%)	SCE L3P Program(%)	SDG&E L3P Program(%)	CFL Basic(%)	CFL Reflector(%)	High Bay(%)	HID(%)	LF Delamp(%)	Linear(%)	Occupancy Sensor(%)	Deemed(%)	All Calculated(%)
Account Representativeresentative	18.96	22.67	15.10	32.84	44.11	43.47	14.26	23.35	7.43	28.34	5.89	3.72	18.78	7.88	5.46	56.73	52.78	6.91	5.66	14.46	21.48	19.45	27.10	9.66	12.95	39.25
Program Approved Vendor	8.87	9.39	8.58	9.13	0.23	5.91	1.02	10.17	11.13	10.24	7.10	27.43	6.99	2.55	20.98	3.82	1.76	11.17	6.89	13.36	4.53	6.59	7.98	5.39	10.44	3.58
Program representative	8.99	9.80	9.29	4.27	7.55	3.05	1.66	9.59	1.69	0.20	26.75	25.11	13.37	5.22	6.18	2.57	0.23	22.40	27.23	3.11	6.79	13.43	7.25	12.93	10.69	3.24
Utility or program website	1.94	1.36	2.19	2.22	0.00	1.47	16.19	2.88	2.07	2.78	2.11	0.09	0.24	0.00	0.26	5.13	0.14	3.02	0.00	1.21	7.69	4.00	0.92	2.99	2.24	0.95
Trade publication	0.52	1.73	0.01	0.00	6.88	0.00	0.00	0.63	0.00	0.00	0.00	0.00	1.51	0.34	0.12	0.00	0.00	3.77	0.00	0.00	0.00	0.00	1.06	0.10	0.11	1.90
Conference	1.60	1.20	1.50	3.59	0.00	0.00	33.85	0.07	0.00	0.99	0.00	0.00	0.00	8.44	8.09	17.80	2.57	0.24	0.00	1.17	0.00	0.24	1.24	7.55	1.22	2.88
Newspaper article	2.34	1.98	2.86	0.07	0.00	4.08	0.00	3.89	4.80	0.00	0.00	0.44	1.02	0.00	0.00	0.00	0.00	0.07	0.00	6.34	1.99	0.00	1.52	0.00	2.63	1.36
Word of mouth	12.27	13.42	12.54	6.60	3.50	13.98	0.00	10.82	14.13	9.47	8.54	13.40	19.31	56.41	20.82	1.80	1.94	22.68	6.87	15.00	7.13	5.79	15.08	5.29	11.87	13.62
Previous experience with it	3.97	5.25	2.59	9.11	10.63	5.45	30.14	5.57	2.96	2.39	0.23	2.88	4.49	2.65	0.08	4.62	15.01	1.29	0.08	0.51	18.77	1.27	7.57	0.82	2.36	9.41
Company used it at other locations	1.41	0.07	2.13	0.93	0.33	6.67	0.00	0.00	2.51	0.93	0.27	0.00	0.09	0.00	0.00	0.00	1.46	0.22	0.23	0.90	0.00	0.00	1.66	5.18	1.08	2.53
Contractor	27.59	18.38	33.30	19.45	9.94	15.00	2.88	18.37	45.64	23.04	29.78	23.08	24.15	6.17	16.58	4.40	17.06	17.33	30.94	37.33	25.45	33.47	15.85	38.43	32.20	12.03
Result of an audit	0.43	1.44	0.00	0.00	0.00	0.00	0.00	2.92	0.00	0.00	0.00	0.00	0.17	0.00	0.77	0.00	0.00	0.38	0.00	1.26	0.05	0.00	0.18	0.10	0.54	0.05
Part of larger expansion or remodeling effort	0.32	1.09	0.00	0.00	7.04	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.86	0.08	0.01	1.39
e-mail	0.09	0.25	0.02	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.41	0.00	0.96	0.21	0.00	1.13	0.00	0.00	0.04	0.30	0.02	0.00	0.11	0.01
Other	3.47	6.61	2.10	2.34	1.89	0.87	0.00	5.89	3.04	1.71	0.99	0.00	4.49	7.04	17.59	0.81	4.37	0.04	1.48	3.15	4.56	4.04	4.69	0.69	2.81	5.69
Don't Know	2.21	2.49	2.01	2.57	4.93	0.04	0.00	3.05	2.84	5.71	1.90	1.60	1.20	2.52	0.64	0.16	0.19	1.06	3.04	1.36	1.53	6.14	0.46	5.39	2.51	1.16
n	*1214*	*494*	*498*	*222*	*36*	*46*	*11*	*127*	*142*	*81*	*194*	*82*	*223*	*44*	*108*	*72*	*48*	*128*	*83*	*144*	*57*	*152*	*509*	*141*	*1004*	*210*
<AP9A> How else did you learn about Utility's program?																										
Bill insert	5.63	9.07	4.68	0.75	0.66	0.00	0.00	18.20	7.38	1.94	3.59	0.04	0.33	0.00	6.33	0.74	0.00	3.45	18.30	6.14	0.03	2.47	6.60	2.20	7.28	0.13
Program literature	1.22	1.53	0.86	2.59	0.00	0.00	0.00	0.76	0.37	0.40	2.18	0.00	0.53	0.00	7.18	0.63	6.25	6.16	1.89	0.86	0.00	0.46	1.57	0.51	0.92	2.21
Account Representativeresentative	7.52	5.92	8.89	3.51	8.60	3.41	0.00	3.69	16.01	2.24	0.00	0.00	5.95	0.75	9.78	9.13	6.79	3.31	0.03	18.66	1.47	0.05	5.07	4.00	7.64	7.13
Program Approved Vendor	1.47	2.81	0.98	0.39	0.37	0.72	1.02	0.82	0.31	0.00	1.19	0.45	0.15	0.00	16.05	5.18	0.63	0.27	0.00	0.01	0.00	0.68	3.21	1.61	0.59	4.40
Program representative	3.79	7.45	2.41	1.06	5.11	0.84	0.00	7.66	2.53	1.65	2.94	0.62	6.92	0.55	10.11	2.80	0.85	1.16	1.41	3.30	26.83	1.44	3.63	1.76	3.82	3.67
Utility or program website	9.36	6.68	11.56	3.29	22.26	27.33	0.00	5.24	8.78	4.69	10.41	1.51	1.65	6.51	4.66	8.82	3.21	6.05	0.74	7.36	0.50	11.55	12.69	7.76	7.53	15.47
Trade publication	0.84	0.30	0.76	3.13	0.00	0.00	0.00	0.31	1.49	0.00	0.00	0.00	0.38	0.00	0.41	0.55	8.02	0.94	0.00	0.07	0.00	0.00	2.11	0.00	0.72	1.22
Conference	1.31	0.14	2.00	0.50	0.00	11.77	5.65	0.00	0.09	0.00	0.00	0.39	0.37	0.00	0.25	6.26	0.14	0.00	0.00	1.99	0.00	0.00	1.84	0.81	0.11	5.31
Newspaper article	0.82	1.66	0.54	0.00	7.24	0.00	0.00	0.00	0.71	0.00	0.67	0.00	1.35	0.00	1.63	0.00	0.00	0.00	0.00	0.00	2.73	1.53	1.35	0.00	0.57	1.68
Word of mouth	7.86	4.87	9.87	4.07	7.24	22.68	0.00	5.77	10.55	7.52	5.27	2.94	2.67	0.02	3.86	4.68	1.86	5.04	0.02	2.54	0.24	2.09	10.10	29.04	7.19	10.08
Previous experience with it	0.76	0.42	1.04	0.00	0.00	0.72	0.00	0.25	1.21	0.00	0.54	0.00	1.17	0.00	0.00	2.63	0.00	1.56	0.00	0.38	0.60	2.11	0.60	0.71	0.89	0.34
Company used it at other locations	0.82	1.13	0.12	4.57	7.11	0.00	0.00	0.00	0.04	0.00	0.06	0.00	0.16	0.00	0.27	1.07	11.69	1.87	0.00	0.00	0.00	0.03	1.98	0.13	0.13	3.13
Contractor	11.81	12.83	12.04	6.91	31.24	5.48	34.32	17.52	20.40	4.45	4.27	1.36	1.71	2.55	0.94	2.04	6.89	0.89	8.43	26.27	0.03	5.91	7.35	7.22	12.30	10.18
Result of an audit	1.73	2.87	1.39	0.24	0.00	0.00	0.00	6.29	0.00	0.63	4.77	0.00	0.23	0.00	0.40	0.00	0.00	0.67	0.00	3.05	0.00	0.00	0.07	8.43	2.24	0.00
Part of larger expansion or remodeling e	0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.01	0.00
No other sources	52.68	48.56	52.85	65.19	17.41	43.82	28.87	46.73	44.15	68.11	64.73	93.73	73.12	88.94	40.04	67.40	56.86	77.33	67.84	52.15	64.61	69.13	46.02	37.16	55.76	42.45
Other -Record	2.48	3.37	2.39	0.20	19.30	0.00	0.00	0.51	4.67	0.51	0.38	0.00	0.79	0.00	0.74	0.14	0.00	0.22	0.00	0.11	0.00	0.05	2.71	14.12	2.12	3.68
Other -Record	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Refused	0.03	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00	0.00	0.19	0.00	0.00	0.03	0.00
Don't Know	1.16	0.76	0.79	5.03	0.00	0.00	30.14	0.00	0.12	7.86	2.47	0.00	2.38	0.48	0.79	0.00	0.00	0.00	0.35	0.00	2.96	3.27	1.50	0.18	1.20	1.04
n	*1179*	*478*	*486*	*215*	*32*	*45*	*11*	*122*	*136*	*78*	*191*	*79*	*217*	*43*	*107*	*71*	*47*	*125*	*80*	*141*	*56*	*144*	*497*	*136*	*976*	*203*
<N33> You mentioned that you have an Utility Account Representative. Can you give me his or her name? !!___Do you have his/her email address? !___Do you have a phone number for him/her? !___Do you have a cell phone number for him/her?\,																										
Don't have Account Representative	25.61	1.39	40.95	22.07	1.44	0.00	0.00	0.03	71.35	65.26	94.25	27.87	3.32	0.44	2.84	1.61	0.00	19.24	66.33	54.72	77.52	31.23	0.59	0.06	42.42	0.33
Record information	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Refused	0.23	0.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.03	0.00	0.00	0.00	0.00	0.00	0.00	0.67	0.00	0.00	0.00	0.00	0.38	0.00
Don't Know	12.14	9.72	14.11	9.88	0.00	45.69	0.00	16.56	4.62	1.44	5.75	69.01	5.34	2.48	20.73	0.00	12.97	7.86	3.32	8.47	11.70	0.53	17.30	17.01	7.24	19.50
n	*208*	*96*	*79*	*33*	*11*	*21*	*3*	*27*	*17*	*10*	*8*	*6*	*38*	*10*	*20*	*23*	*14*	*14*	*11*	*29*	*9*	*18*	*103*	*24*	*136*	*72*
<A1B> According to our Records, your organization also received an AUDIT from your Utility. Is this correct?																										
Yes	84.95	71.99	92.04	68.19	100.00	0.00	0.00	93.68	91.74	0.00	0.00	100.00	77.57	100.00	0.00	100.00	0.00	0.00	100.00	100.00	55.40	31.49	98.68	87.44	85.21	81.68
No	0.15	0.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.83	0.00	0.16	0.00
Don't Know	14.91	27.59	7.96	31.81	0.00	0.00	0.00	6.32	8.26	0.00	0.00	0.00	21.22	0.00	100.00	0.00	100.00	100.00	0.00	0.00	44.60	68.51	0.49	12.56	14.63	18.32
n	*36*	*26*	*7*	*3*	*1*	*0*	*0*	*5*	*5*	*0*	*0*	*1*	*18*	*1*	*2*	*1*	*2*	*4*	*2*	*2*	*2*	*4*	*16*	*6*	*27*	*9*
<ID0> To the best of your knowledge, has the facility located at this address received a Utility-sponsored energy audit within the past 3 years?																										
Yes	21.39	26.11	18.11	24.49	33.93	45.68	9.73	24.78	9.80	17.63	20.23	19.08	19.69	20.82	49.78	35.48	43.72	29.09	31.78	18.11	12.73	19.23	23.43	23.11	17.07	40.06
No	60.88	63.34	60.71	52.77	52.07	34.49	36.45	67.03	66.65	65.83	65.26	57.21	67.85	45.93	40.94	44.98	32.48	57.35	51.62	66.22	74.33	62.13	58.13	54.85	65.34	41.66
Don't Know	17.73	10.55	21.18	22.74	14.00	19.83	53.82	8.19	23.55	16.54	14.51	23.71	12.46	33.25	9.29	19.54	23.81	13.56	16.60	15.68	12.94	18.64	18.44	22.04	17.60	18.29
n	*2400*	*1265*	*748*	*387*	*44*	*55*	*13*	*252*	*295*	*140*	*194*	*130*	*836*	*80*	*133*	*124*	*104*	*340*	*101*	*273*	*81*	*302*	*1046*	*257*	*1984*	*416*
<A1C> According to our Records, your organization also received TECHNICAL ASSISTANCE from your Utility . Is this correct?																										
.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

* Values are shown as percent of respondents weighted by kWh.
* n is the number of respondents.

	ALL	PG&E(%)	SCE(%)	SDG&E(%)	PG&E Custom Program(%)	SCE Custom Program(%)	SDG&E Custom Program(%)	PG&E Deemed Program(%)	SCE Deemed Program(%)	SDG&E Deemed Program(%)	SCE Direct Install Program(%)	SDG&E Direct Install Program(%)	PG&E LGP Program(%)	SCE LGP Program(%)	PG&E L3P Program(%)	SCE L3P Program(%)	SDG&E L3P Program(%)	CFL Basic(%)	CFL Reflector(%)	High Bay(%)	HID(%)	LF Delamp(%)	Linear(%)	Occupancy Sensor(%)	Deemed(%)	All Calculated(%)
n	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
<A1D> According to our Records, your organization also received a FEASABILITY STUDY from your Utility. Is this correct?																										
.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
<A1E> According to our Records, your organization also received RETROCOMMISSIONING from your Utility. Is this correct?																										
Yes	66.51	64.47	100.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.07	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.07	100.00	100.00	66.15
Don't Know	33.49	35.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	96.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	96.93	0.00	0.00	33.85
n	*4*	*3*	*1*	*0*	*1*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*2*	*1*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*2*	*2*	*1*	*3*
<A1F> According to our Records, your organization also received PROGRAM TRAINING from your Utility. Is this correct?																										
.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
<ID1> Are you aware of any programs, other than the one we mentioned early, or resources that are designed to help organizations like yours reduce its energy bills?																										
Yes	42.30	53.82	35.58	49.67	89.60	53.70	42.65	48.92	34.40	43.01	15.75	11.63	42.76	75.88	51.84	78.82	73.55	29.35	20.49	27.60	73.61	36.31	50.24	61.99	33.94	70.53
No	57.30	45.57	64.13	49.83	10.40	44.31	57.35	51.08	65.60	55.70	84.19	88.37	55.40	23.67	47.35	20.97	26.45	69.12	79.42	72.36	26.39	63.15	49.05	38.01	65.73	28.80
Don't Know	0.40	0.61	0.29	0.51	0.00	1.99	0.00	0.00	0.00	1.29	0.06	0.00	1.85	0.45	0.81	0.21	0.00	1.54	0.09	0.04	0.00	0.55	0.71	0.00	0.32	0.68
n	*1214*	*494*	*498*	*222*	*36*	*46*	*11*	*127*	*142*	*81*	*194*	*82*	*223*	*44*	*108*	*72*	*48*	*128*	*83*	*144*	*57*	*152*	*509*	*141*	*1004*	*210*
<ID3> Has your Account Representativeresentative, or any Program Staff or Program Vendors discussed solar, wind or other self-generation equipment opportunities with you?																										
Yes, Account Representativeresentative	15.98	21.64	13.09	16.81	44.24	27.62	12.16	14.18	7.96	3.38	0.12	0.00	19.98	67.40	23.85	57.20	38.44	8.97	26.72	7.75	2.66	7.15	28.72	6.77	8.57	41.04
Yes, Program Staff	6.75	4.25	8.26	4.86	7.87	8.48	0.48	1.99	9.78	0.60	0.00	0.19	7.91	10.88	0.59	29.62	11.94	4.60	5.75	0.99	1.61	6.22	6.16	27.46	6.01	9.26
Yes, Program Vendor	15.80	23.45	12.86	10.42	33.16	17.14	2.68	19.28	10.06	6.26	3.20	8.71	15.39	58.95	40.85	48.24	16.75	16.19	6.53	10.93	29.68	17.37	16.31	23.07	12.49	26.98
Refused	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Don't Know	1.09	0.45	1.32	1.66	0.47	0.00	0.00	0.58	1.72	0.05	1.54	0.60	0.18	0.25	0.55	0.39	4.06	2.75	1.59	1.43	0.00	1.38	0.83	0.47	1.21	0.71
n	*1214*	*494*	*498*	*222*	*36*	*46*	*11*	*127*	*142*	*81*	*194*	*82*	*223*	*44*	*108*	*72*	*48*	*128*	*83*	*144*	*57*	*152*	*509*	*141*	*1004*	*210*
<ID3A> Has your Account Representativeresentative, Program Staff, or Program Vendors discussed Demand Reduction programs, techNologies, or opportunities with you?																										
Yes, Account Representativeresentative	27.94	35.24	23.01	37.23	67.48	55.75	18.28	27.87	18.93	27.95	1.22	0.12	30.54	68.76	32.74	66.91	65.48	25.90	24.31	12.72	48.04	16.53	41.17	30.78	18.44	60.05
Yes, Program Staff	5.47	8.61	4.38	2.44	31.95	14.92	0.00	2.63	0.23	1.43	0.00	2.90	7.16	59.92	5.21	14.34	3.69	4.74	7.39	0.05	0.22	0.21	11.99	4.96	1.59	18.58
Yes, Program Vendor	8.20	12.26	6.36	7.21	15.51	23.86	32.82	12.68	1.80	2.21	0.05	1.53	7.87	58.87	15.71	15.93	10.35	6.49	6.99	6.46	10.32	2.49	12.89	4.21	4.22	21.64
Refused	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Don't Know	2.17	3.41	1.78	0.72	0.66	6.46	0.00	5.37	0.71	1.56	2.13	0.64	0.86	0.48	4.97	0.00	0.00	2.89	0.10	1.45	9.45	1.94	2.07	2.60	2.10	2.39
n	*1214*	*494*	*498*	*222*	*36*	*46*	*11*	*127*	*142*	*81*	*194*	*82*	*223*	*44*	*108*	*72*	*48*	*128*	*83*	*144*	*57*	*152*	*509*	*141*	*1004*	*210*
<LI1> What are the primary types of lighting used at your facility that was Not retrofitted through the program or by you personally since January 2010?																										
High Performance T8 Fixtures	0.62	0.70	0.23	3.02	0.00	0.64	0.00	1.22	0.24	0.60	0.00	0.00	0.18	1.25	0.81	0.00	7.30	0.91	0.00	0.32	0.00	0.00	0.90	1.68	0.40	1.36
T8 Fluorescent Fixtures (1 inch)	9.83	14.05	7.43	12.09	35.11	14.48	34.32	9.70	6.58	12.59	2.13	12.64	11.35	0.00	10.34	24.36	7.53	14.16	9.53	3.75	5.80	8.44	10.13	26.62	8.21	15.28
T10 Fluorescent Fixtures	0.55	0.50	0.47	1.29	0.00	0.00	0.00	0.95	0.00	0.73	1.61	0.00	0.18	0.00	0.25	0.00	2.63	0.34	1.46	0.00	0.36	2.00	0.40	0.25	0.58	0.46
T12 Fixtures (1.5 in)	9.63	8.22	10.63	7.47	3.13	4.38	1.02	12.16	16.82	3.12	1.27	0.53	7.02	0.04	3.77	20.23	15.96	2.84	0.85	21.33	0.99	7.28	5.27	7.25	10.48	6.75
T5 Fixtures (5/8 inch)	3.71	4.45	3.60	2.04	18.35	2.93	0.00	2.54	5.77	2.46	1.42	0.00	0.04	0.00	3.87	0.00	2.81	0.00	0.27	7.26	0.07	0.85	3.46	3.39	3.33	5.00
COMPACT HID (High Intensity Discharge)	11.28	17.14	8.74	9.14	41.99	6.51	1.66	12.57	11.76	17.55	5.70	5.58	15.37	11.30	8.43	3.67	3.25	7.43	3.08	13.30	19.57	4.91	13.53	8.56	9.67	16.74
Screw-in Modular CFL bulbs	2.06	3.32	1.55	1.33	10.57	0.61	0.00	1.75	2.36	2.73	1.08	0.57	2.40	0.00	2.20	0.02	0.43	0.91	0.00	0.47	0.11	1.58	3.72	2.90	1.90	2.60
Hardwired CFL Fixtures	0.77	2.04	0.18	0.62	3.75	0.00	0.00	0.45	0.23	1.56	0.09	0.00	4.19	0.00	1.14	0.55	0.00	2.32	0.35	0.21	0.59	0.00	0.87	2.72	0.71	0.98
Incandescent	4.34	7.23	2.94	4.20	0.47	0.81	1.02	4.64	1.29	9.15	6.87	0.13	4.42	2.62	27.30	2.12	1.34	13.74	11.08	1.03	2.79	6.22	5.30	1.63	4.20	4.81
Other Lighting	2.09	1.98	1.04	9.62	0.00	0.00	0.00	3.98	2.04	23.08	0.00	1.46	0.25	0.19	1.17	0.47	0.80	1.08	0.79	0.00	17.88	2.03	2.10	2.50	2.68	0.12
Fat/Thick Tubes	5.12	7.00	4.86	0.63	2.97	4.80	0.00	10.75	7.83	1.11	1.20	0.54	3.73	0.00	5.84	1.17	0.28	0.91	0.46	10.30	3.46	8.36	2.48	0.60	5.96	2.28
Skinny/Thin Tubes	4.10	3.26	4.95	1.14	0.00	0.10	0.00	5.99	6.90	2.37	5.39	0.56	1.87	0.00	0.90	0.01	0.32	0.09	1.68	11.18	1.66	0.23	1.24	4.50	5.29	0.08
Other-Record	9.08	7.58	10.70	3.11	18.98	22.84	0.00	4.19	7.90	3.63	8.49	2.36	1.97	1.67	16.34	20.25	3.43	24.97	5.69	3.89	13.64	6.72	10.42	15.89	7.52	14.35
Refused	1.26	0.26	1.72	1.43	0.00	0.00	0.00	0.16	0.69	3.63	3.77	0.00	0.41	0.00	0.58	3.93	0.00	0.38	0.00	1.70	0.52	1.65	1.45	0.00	1.40	0.77
Don't Know	7.44	6.58	8.01	6.41	20.49	9.85	1.62	0.78	4.93	8.39	8.21	1.57	8.98	53.95	5.32	10.52	7.21	8.31	0.14	5.08	11.30	5.94	11.83	1.55	5.60	13.66
LEDs (lamps/reflector lamps/fixtures-NoT	100.00	100.00	100.00	100.00	100.00	0.00	0.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
All lights were retrofitted	38.54	36.26	39.34	40.70	14.72	39.86	61.38	41.55	31.70	25.24	54.85	73.01	43.82	32.60	28.68	29.99	39.64	43.28	65.95	24.04	21.75	47.80	40.22	50.17	40.70	31.25
n	*1213*	*493*	*498*	*222*	*36*	*46*	*11*	*127*	*142*	*81*	*194*	*82*	*222*	*44*	*108*	*72*	*48*	*127*	*83*	*144*	*57*	*152*	*509*	*141*	*1003*	*210*
<LI1A> Which, if any, of the following automatic lighting controls are used on this older equipment?																										
Timers	32.27	38.79	29.59	27.84	57.78	23.16	91.94	42.82	26.38	17.34	24.14	20.73	25.17	95.05	27.71	56.43	35.77	44.66	20.36	25.77	12.27	32.95	35.25	56.71	29.56	40.50
Occupancy sensors	24.32	32.63	16.95	47.29	45.42	25.01	1.24	31.77	8.48	47.56	15.37	10.70	35.78	79.01	15.57	47.81	58.81	17.20	0.13	11.98	49.77	24.30	33.07	33.24	17.96	43.65
Photocells	23.75	29.52	21.69	17.53	52.69	24.21	0.00	18.64	22.32	13.50	12.71	0.00	35.59	78.89	19.23	23.12	27.94	24.80	6.44	16.43	31.60	13.16	35.33	21.64	19.32	37.21
NoNE-No automatic lighting controls	44.41	37.75	49.54	31.58	5.29	52.25	2.64	45.84	52.47	33.65	58.32	68.56	41.31	3.47	51.02	14.55	25.18	45.40	76.00	57.22	19.71	55.00	32.57	29.10	49.32	29.45
Other	0.34	0.43	0.31	0.30	0.33	0.00	0.00	0.00	0.24	0.00	0.75	0.00	1.39	0.00	0.14	0.00	0.77	0.08	2.54	0.24	0.00	0.00	0.44	0.16	0.32	0.42

* Values are shown as percent of respondents weighted by kWh.
* n is the number of respondents.

	ALL	PG&E(%)	SCE(%)	SDG&E(%)	PG&E Custom Program(%)	SCE Custom Program(%)	SDG&E Custom Program(%)	PG&E Deemed Program(%)	SCE Deemed Program(%)	SDG&E Deemed Program(%)	SCE Direct Install Program(%)	SDG&E Direct Install Program(%)	PG&E LGP Program(%)	SCE LGP Program(%)	PG&E L3P Program(%)	SCE L3P Program(%)	SDG&E L3P Program(%)	CFL Basic(%)	CFL Reflector(%)	High Bay(%)	HID(%)	LF Delamp(%)	Linear(%)	Occupancy Sensor(%)	Deemed(%)	All Calculated(%)
Refused	0.86	0.52	0.83	2.39	0.00	0.00	0.00	0.00	0.34	4.77	0.80	0.00	0.92	0.00	1.71	5.50	0.00	0.00	0.00	0.59	0.90	0.19	1.72	0.00	0.78	1.11
Don't Know	2.96	1.12	4.17	0.89	2.35	0.00	4.18	0.00	2.89	1.43	6.25	0.00	1.96	0.00	1.05	13.76	0.00	5.48	0.00	2.00	11.52	0.12	4.34	0.24	3.65	0.86
n	*701*	*313*	*280*	*108*	*24*	*24*	*6*	*80*	*94*	*49*	*95*	*19*	*136*	*21*	*73*	*46*	*34*	*79*	*49*	*102*	*41*	*81*	*262*	*87*	*572*	*129*
<LED1> Does your older lighting that exisited before the retrofit have any medium/screw based LED lighting??																										
Yes	7.98	8.75	7.21	10.75	1.48	6.12	0.00	8.35	5.06	5.72	12.58	10.41	15.64	6.55	7.99	7.71	18.52	34.89	15.22	2.77	2.07	17.91	5.82	12.19	8.25	7.16
No	85.44	86.76	85.03	83.60	96.16	92.62	95.82	90.58	89.53	86.39	75.33	87.83	71.91	89.84	88.82	71.14	77.85	52.41	72.94	91.66	94.49	77.88	85.42	85.89	84.33	88.83
Refused	1.25	0.52	1.46	2.39	0.00	0.00	0.00	0.00	1.11	4.77	1.71	0.00	0.92	0.00	1.71	5.50	0.00	0.49	0.00	0.59	0.90	2.10	2.01	0.32	1.29	1.11
Don't Know	5.33	3.97	6.30	3.27	2.35	1.26	4.18	1.08	4.31	3.13	10.38	1.76	11.53	3.61	1.48	15.66	3.63	12.21	11.84	4.98	2.53	2.12	6.74	1.60	6.13	2.90
n	*701*	*313*	*280*	*108*	*24*	*24*	*6*	*80*	*94*	*49*	*95*	*19*	*136*	*21*	*73*	*46*	*34*	*79*	*49*	*102*	*41*	*81*	*262*	*87*	*572*	*129*
<LI3> How old would you estimate this pre-retrofit lighting equipment to be? Would you say the majority of it is...																										
Less than 5 years old	14.15	13.53	15.41	7.25	2.49	4.32	4.31	17.74	17.45	5.01	21.43	6.73	15.81	4.81	13.20	3.49	10.58	24.25	6.51	13.27	7.16	23.27	8.39	32.17	16.54	6.87
Between 5 and 10 years old	25.44	30.18	21.20	38.86	30.25	50.75	88.87	28.98	18.15	49.65	12.50	6.71	14.30	7.53	55.62	28.24	25.34	30.62	10.70	25.85	34.57	14.85	29.24	22.94	22.68	33.85
Between 10 and 15 years old or	16.26	18.60	13.20	29.92	18.94	17.08	0.00	17.67	10.46	15.32	20.89	3.73	19.52	0.71	19.02	7.25	57.04	32.26	8.95	11.05	12.92	24.68	17.32	18.50	14.91	20.39
More than 15 years old.	33.83	31.01	37.21	19.68	26.59	11.54	2.64	35.34	48.36	23.30	17.77	72.50	42.49	86.89	9.71	41.57	7.02	6.64	37.00	45.02	28.65	27.45	30.60	26.08	36.04	27.11
Refused	2.69	1.68	3.24	2.39	0.00	0.00	0.00	0.27	2.26	4.77	6.61	0.00	4.67	0.00	2.45	5.50	0.00	0.49	0.19	2.81	6.08	5.02	2.27	0.32	3.20	1.11
Don't Know	7.64	5.01	9.75	1.90	21.74	16.31	4.18	0.00	3.31	1.95	20.80	10.32	3.22	0.06	0.00	13.95	0.02	5.75	36.65	2.00	10.62	4.73	12.18	0.00	6.64	10.67
n	*701*	*313*	*280*	*108*	*24*	*24*	*6*	*80*	*94*	*49*	*95*	*19*	*136*	*21*	*73*	*46*	*34*	*79*	*49*	*102*	*41*	*81*	*262*	*87*	*572*	*129*
<LI4> And how would you describe the condition of this lighting equipment? Would you say it is....																										
In poor condition	6.85	9.74	5.97	2.72	7.93	0.00	0.00	15.32	5.91	3.43	11.31	14.00	8.21	3.67	1.33	0.11	0.00	0.65	0.60	9.02	0.95	12.47	5.29	5.42	8.47	1.91
In Fair condition or	29.88	30.67	29.62	28.94	53.57	28.49	2.64	24.22	35.28	28.52	16.93	67.08	32.86	79.72	16.22	15.82	25.26	9.17	26.48	23.84	30.29	35.41	36.37	26.60	27.49	37.16
In Good condtion	55.02	57.08	52.56	65.28	38.18	55.20	93.18	60.20	53.22	62.28	49.16	18.92	51.11	16.55	79.99	64.69	74.74	86.59	35.95	62.33	52.05	46.48	48.08	67.67	55.25	54.30
Refused	2.69	1.68	3.24	2.39	0.00	0.00	0.00	0.27	2.26	4.77	6.61	0.00	4.67	0.00	2.45	5.50	0.00	0.49	0.19	2.81	6.08	5.02	2.27	0.32	3.20	1.11
Don't Know	5.56	0.84	8.62	0.68	0.33	16.31	4.18	0.00	3.33	1.00	16.00	0.00	3.15	0.06	0.00	13.88	0.00	3.09	36.78	2.00	10.62	0.62	7.98	0.00	5.58	5.51
n	*701*	*313*	*280*	*108*	*24*	*24*	*6*	*80*	*94*	*49*	*95*	*19*	*136*	*21*	*73*	*46*	*34*	*79*	*49*	*102*	*41*	*81*	*262*	*87*	*572*	*129*
<LI6> Do you currently have any plans to retrofit your old lighting equipment?																										
Yes	20.72	35.12	14.07	16.29	38.28	13.65	1.24	28.97	11.75	12.50	14.20	21.88	35.16	13.49	45.39	29.74	21.81	23.53	6.42	7.86	11.59	19.60	28.60	49.92	15.69	36.04
No	73.09	60.82	78.36	79.80	61.72	86.35	98.76	67.97	84.96	79.67	68.09	78.12	55.16	85.79	51.77	50.88	78.19	66.28	54.04	89.26	82.14	77.73	64.85	44.34	76.94	61.40
Refused	1.66	1.68	1.56	2.39	0.00	0.00	0.00	0.27	1.29	4.77	1.71	0.00	4.67	0.00	2.45	5.50	0.00	0.49	0.19	0.62	6.08	2.47	2.27	0.32	1.84	1.11
Don't Know	4.52	2.38	6.02	1.53	0.00	0.00	0.00	2.79	2.00	3.05	16.00	0.00	5.01	0.72	0.39	13.88	0.00	9.70	39.34	2.27	0.18	0.20	4.28	5.42	5.54	1.44
n	*701*	*313*	*280*	*108*	*24*	*24*	*6*	*80*	*94*	*49*	*95*	*19*	*136*	*21*	*73*	*46*	*34*	*79*	*49*	*102*	*41*	*81*	*262*	*87*	*572*	*129*
<LI99> Our Records indicate that your organization intalled lighting measures through the Program during ..., is this correct?																										
Yes	99.97	100.00	99.91	100.00	100.00	100.00	100.00	0.00	100.00	0.00	0.00	100.00	100.00	100.00	0.00	97.20	100.00	100.00	0.00	100.00	100.00	100.00	99.95	100.00	99.92	100.00
No	0.03	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.80	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.08	0.00
n	*65*	*34*	*13*	*18*	*1*	*4*	*12*	*0*	*4*	*0*	*0*	*4*	*33*	*3*	*0*	*2*	*2*	*10*	*0*	*4*	*2*	*3*	*41*	*5*	*27*	*38*
<LI100> What type of lighting or lighting equipment was installed as a result of your participation in the Program?																										
High Performance T8	10.82	11.72	0.00	24.95	0.00	0.00	1.45	0.00	0.00	0.00	0.00	0.00	13.40	0.00	0.00	0.00	95.49	0.00	0.00	0.00	0.00	0.00	19.14	0.00	9.86	11.40
T8 fluorescent fixtures (1in. diameter bulbs)	23.97	22.86	10.48	46.08	100.00	0.00	66.42	0.00	30.08	0.00	0.00	0.00	11.82	75.78	0.00	0.00	0.00	0.00	0.00	1.23	0.00	79.48	39.13	0.00	7.86	33.68
T10 fluorescent fixtures	2.11	1.32	4.61	0.00	0.00	0.00	0.00	0.00	24.58	0.00	0.00	0.00	1.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	79.48	1.05	0.00	4.04	0.95
HID (High Intensity Discharge) Fixtures- Compact	2.15	4.18	0.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.78	13.33	0.00	0.00	0.00	0.06	0.00	0.00	100.00	0.00	1.23	0.00	0.00	3.44
Compact Fluorescent, Screw-in Modular	7.59	11.92	0.00	10.10	0.00	0.00	14.56	0.00	0.00	0.00	0.00	0.00	13.63	0.00	0.00	0.00	0.00	99.26	0.00	0.00	0.00	0.00	0.00	0.00	14.17	3.62
Compact Fluorescent, Hardwire	0.14	0.00	0.00	0.62	0.00	0.00	0.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.24	0.00	0.00	0.22
Exit Signs, Compact Fluorescent	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Exit Signs, LED	0.99	0.09	1.03	2.74	0.00	0.00	0.00	0.00	5.50	0.00	0.00	49.45	0.10	0.00	0.00	0.00	0.00	0.00	0.00	1.23	0.00	0.00	1.15	0.00	2.54	0.06
Halogen	2.84	0.09	7.47	1.50	0.00	0.00	0.00	0.00	39.84	0.00	0.00	27.13	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.02	0.00	7.45	0.06
Installed Reflectors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electronic Ballast	12.84	10.07	7.85	25.69	0.00	0.00	2.52	0.00	0.00	0.00	0.00	0.00	11.51	75.78	0.00	100.00	95.49	0.13	0.00	0.00	0.00	0.00	22.69	0.00	12.91	12.79
Lighting Controls, Time Clock	0.96	0.00	0.00	4.31	0.00	0.00	5.69	0.00	0.00	0.00	0.00	6.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.70	0.00	0.21	1.42
Lighting Controls, Occupancy Sensor	15.25	12.52	7.85	31.59	100.00	0.00	43.90	0.00	0.00	0.00	0.00	0.00	0.00	75.78	0.00	100.00	4.51	0.00	0.00	0.00	0.00	0.00	21.70	61.07	2.64	22.84
Lighting Controls, Bypass/Delay Timers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Photocell	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Lighting	2.27	0.70	0.00	8.77	0.00	0.00	12.64	0.00	0.00	0.00	0.00	0.00	0.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.55	40.20	0.83	3.14
Skinny/Thin Tubes	7.36	7.76	11.81	0.00	0.00	11.05	0.00	0.00	0.00	0.00	0.00	0.00	8.87	13.33	0.00	100.00	0.00	0.06	0.00	0.00	100.00	0.00	10.45	0.00	2.64	10.20
T5 Fixtures (5/8in. diameter)	33.70	26.48	63.79	3.78	100.00	88.78	4.93	0.00	0.00	0.00	0.00	6.40	15.96	0.00	0.00	0.00	0.00	0.00	0.00	98.77	0.00	0.00	10.03	15.69	16.80	43.88
Other	16.67	28.55	11.07	1.23	0.00	0.17	0.42	0.00	54.66	0.00	0.00	17.02	32.63	10.89	0.00	0.00	0.00	1.53	0.00	0.00	0.00	100.00	22.55	38.93	41.38	1.79
n	*64*	*34*	*12*	*18*	*1*	*4*	*12*	*0*	*4*	*0*	*0*	*4*	*33*	*3*	*0*	*1*	*2*	*10*	*0*	*4*	*2*	*3*	*40*	*5*	*26*	*38*
<LI90> What percentage of the program related CFLs received during your participation in the Program program were placed in storage?																										

* Values are shown as percent of respondents weighted by kWh.
* n is the number of respondents.

	ALL	PG&E(%)	SCE(%)	SDG&E(%)	PG&E Custom Program(%)	SCE Custom Program(%)	SDG&E Custom Program(%)	PG&E Deemed Program(%)	SCE Deemed Program(%)	SDG&E Deemed Program(%)	SCE Direct Install Program(%)	SDG&E Direct Install Program(%)	PG&E LGP Program(%)	SCE LGP Program(%)	PG&E L3P Program(%)	SCE L3P Program(%)	SDG&E L3P Program(%)	CFL Basic(%)	CFL Reflector(%)	High Bay(%)	HID(%)	LF Delamp(%)	Linear(%)	Occupancy Sensor(%)	Deemed(%)	All Calculated(%)
1	44.58	21.06	0.00	100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	21.06	0.00	0.00	0.00	0.00	44.58	0.00	0.00	0.00	0.00	0.00	0.00	21.06	100.00
2	55.42	78.94	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	78.94	0.00	0.00	0.00	0.00	55.42	0.00	0.00	0.00	0.00	0.00	0.00	78.94	0.00
n	*5*	*3*	*0*	*2*	*0*	*0*	*2*	*0*	*0*	*0*	*0*	*0*	*3*	*0*	*0*	*0*	*0*	*5*	*0*	*0*	*0*	*0*	*0*	*0*	*3*	*2*
<LI101A_1> Approximately how many High Performance T8 fluorescent fixtures (1in. diameter bulbs) were installed through the program?																										
24	34.25	70.77	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	70.77	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	34.25	0.00	100.00	0.00
30	14.15	29.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	29.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14.15	0.00	0.00	21.51
1000	2.09	0.00	0.00	4.04	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.09	0.00	0.00	3.17
3500	49.52	0.00	0.00	95.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	49.52	0.00	0.00	75.32
n	*4*	*2*	*0*	*2*	*0*	*0*	*1*	*0*	*0*	*0*	*0*	*0*	*2*	*0*	*0*	*0*	*1*	*0*	*0*	*0*	*0*	*0*	*4*	*0*	*1*	*3*
<LI101C_1>Were any placed/installed at another facility? If so, what percentage would you estimate?																										
0	97.91	100.00	0.00	95.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	97.91	0.00	100.00	96.83
20	2.09	0.00	0.00	4.04	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.09	0.00	0.00	3.17
n	*4*	*2*	*0*	*2*	*0*	*0*	*1*	*0*	*0*	*0*	*0*	*0*	*2*	*0*	*0*	*0*	*1*	*0*	*0*	*0*	*0*	*0*	*4*	*0*	*1*	*3*
<LI101D_1> What type of lighting was removed and replaced when you installed the High Performance T8 fluorescent fixtures through the Program?																										
High Performance T8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T8 fluorescent fixtures (1in. diameter bulb)	49.52	0.00	0.00	95.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	49.52	0.00	0.00	75.32
T10 fluorescent fixtures	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T12 fluorescent fixtures	36.33	70.77	0.00	4.04	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	70.77	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	36.33	0.00	100.00	3.17
Compact HID (High Intensity Discharge)	14.15	29.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	29.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14.15	0.00	0.00	21.51
Screw-in Modular CFLS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hardwired CFL Fixtures	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Incandescent bulbs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CFL Exit Signs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LED Exit Signs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Halogen bulbs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Reflectors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electronic Ballast	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Magnetic Ballast	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Manual Switches	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Time Clock	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Occupancy Sensor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Bypass/Delay Timers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Photocell	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Lighting	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fat/Thick Tubes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Skinny/Thin Tubes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T5 Fixtures (5/8in. diameter)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Did not Remove Anything, addition only	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Refused	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Don't Know	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	*4*	*2*	*0*	*2*	*0*	*0*	*1*	*0*	*0*	*0*	*0*	*0*	*2*	*0*	*0*	*0*	*1*	*0*	*0*	*0*	*0*	*0*	*4*	*0*	*1*	*3*
<LI101E_1> Were the HID Lamps you removed High pressure Sodium, Metal Halide, Mercury Vapor or Incandescent?																										
High Pressure Sodium	100.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	100.00
n	*1*	*1*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*1*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*1*	*0*	*0*	*1*
<LI101F_1> Approximately how old were the lights that were removed/replaced by the high performance T8 fluorescent fixtures?																										
Between 5 and 10 years old	85.86	70.77	0.00	100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	70.77	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	85.86	0.00	100.00	78.49
More than 15 years old	14.15	29.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	29.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14.15	0.00	0.00	21.51
n	*4*	*2*	*0*	*2*	*0*	*0*	*1*	*0*	*0*	*0*	*0*	*0*	*2*	*0*	*0*	*0*	*1*	*0*	*0*	*0*	*0*	*0*	*4*	*0*	*1*	*3*
<LI101G_1> How would you describe the removed light equipment's condition? Would you say they were in																										
Poor condition	49.52	0.00	0.00	95.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	49.52	0.00	0.00	75.32
Fair condition or	14.15	29.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	29.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14.15	0.00	0.00	21.51
Good condition	36.33	70.77	0.00	4.04	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	70.77	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	36.33	0.00	100.00	3.17
n	*4*	*2*	*0*	*2*	*0*	*0*	*1*	*0*	*0*	*0*	*0*	*0*	*2*	*0*	*0*	*0*	*1*	*0*	*0*	*0*	*0*	*0*	*4*	*0*	*1*	*3*
<LI101H_1> Approximately what percentage of the lighting equipment that was removed and replaced was broken or not working prior to installing?																										
0	34.25	70.77	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	70.77	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	34.25	0.00	100.00	0.00

* Values are shown as percent of respondents weighted by kWh.
* n is the number of respondents.

	ALL	PG&E(%)	SCE(%)	SDG&E(%)	PG&E Custom Program(%)	SCE Custom Program(%)	SDG&E Custom Program(%)	PG&E Deemed Program(%)	SCE Deemed Program(%)	SDG&E Deemed Program(%)	SCE Direct Install Program(%)	SDG&E Direct Install Program(%)	PG&E LGP Program(%)	SCE LGP Program(%)	PG&E L3P Program(%)	SCE L3P Program(%)	SDG&E L3P Program(%)	CFL Basic(%)	CFL Reflector(%)	High Bay(%)	HID(%)	LF Delamp(%)	Linear(%)	Occupancy Sensor(%)	Deemed(%)	All Calculated(%)
10	16.23	29.23	0.00	4.04	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	29.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.23	0.00	0.00	24.68
25	49.52	0.00	0.00	95.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	49.52	0.00	0.00	75.32
n	*4*	*2*	*0*	*2*	*0*	*0*	*1*	*0*	*0*	*0*	*0*	*0*	*2*	*0*	*0*	*0*	*1*	*0*	*0*	*0*	*0*	*0*	*4*	*0*	*1*	*3*
<LI101A_2> How many T8 fluorescent fixtures did you buy for this facility?																										
4	0.58	0.00	0.00	1.34	0.00	0.00	1.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.62	0.00	0.00	0.66
6	3.91	9.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.24	0.00	31.77	0.00
14	0.65	1.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.70	0.00	5.28	0.00
15	6.34	0.00	44.01	0.00	0.00	0.00	0.00	0.00	81.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	51.45	0.00
30	3.45	8.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.91	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.74	0.00	0.00	3.94
50	3.69	0.00	0.00	8.57	0.00	0.00	8.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.00	0.00	0.00	4.21
200	17.90	26.42	46.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	58.40	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	19.40	0.00	0.00	20.42
450	23.32	54.76	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	25.28	0.00	0.00	26.60
800	1.42	0.00	9.84	0.00	0.00	0.00	0.00	0.00	18.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	11.50	0.00
1200	1.63	0.00	0.00	3.79	0.00	0.00	3.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.77	0.00	0.00	1.86
5000	17.05	0.00	0.00	39.65	0.00	0.00	39.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	18.49	0.00	0.00	19.45
Don't Know	20.06	0.00	0.00	46.65	0.00	0.00	46.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.75	0.00	0.00	22.88
n	*15*	*5*	*3*	*7*	*1*	*0*	*7*	*0*	*2*	*0*	*0*	*0*	*4*	*1*	*0*	*0*	*0*	*0*	*0*	*1*	*0*	*1*	*13*	*0*	*4*	*11*
<LI101B_2> Would you say that the number of T8 fluorescent fixtures installed under the program are																										
More than 100 units	95.44	0.00	0.00	95.44	0.00	0.00	95.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	95.44	0.00	0.00	95.44
Don't Know	4.56	0.00	0.00	4.56	0.00	0.00	4.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.56	0.00	0.00	4.56
n	*3*	*0*	*0*	*3*	*0*	*0*	*3*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*3*	*0*	*0*	*3*
<LI101C_2> Were any placed/installed at another facility? If so, what percentage would you estimate?																										
0	92.35	100.00	90.16	85.51	100.00	0.00	85.51	0.00	81.73	0.00	0.00	0.00	100.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	93.24	0.00	88.50	92.89
10	1.63	0.00	0.00	3.79	0.00	0.00	3.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.77	0.00	0.00	1.86
20	1.42	0.00	9.84	0.00	0.00	0.00	0.00	0.00	18.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	11.50	0.00
102	4.60	0.00	0.00	10.70	0.00	0.00	10.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.99	0.00	0.00	5.25
n	*15*	*5*	*3*	*7*	*1*	*0*	*7*	*0*	*2*	*0*	*0*	*0*	*4*	*1*	*0*	*0*	*0*	*0*	*0*	*1*	*0*	*1*	*13*	*0*	*4*	*11*
<LI101D_2> What type of lighting was removed and replaced when you installed the T8 fluorescent fixtures through the Program?																										
High Performance T8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T8 fluorescent fixtures (1in. diameter b	18.68	0.00	0.00	43.44	0.00	0.00	43.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.25	0.00	0.00	21.31
T10 fluorescent fixtures	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T12 fluorescent fixtures	64.83	91.90	55.99	40.99	100.00	0.00	40.99	0.00	18.27	0.00	0.00	0.00	82.09	100.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	68.75	0.00	48.55	67.12
Compact HID (High Intensity Discharge) F	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Screw-in Modular CFLS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hardwired CFL Fixtures	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Incandescent bulbs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CFL Exit Signs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LED Exit Signs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Halogen bulbs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Reflectors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electronic Ballast	1.63	0.00	0.00	3.79	0.00	0.00	3.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.77	0.00	0.00	1.86
Magnetic Ballast	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Manual Switches	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Time Clock	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Occupancy Sensor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Bypass/Delay Timers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Photocell	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fat/Thick Tubes	3.45	8.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.91	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.74	0.00	0.00	3.94
Skinny/Thin Tubes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T5 Fixtures (5/8in. diameter)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Did not Remove Anything, addition only	3.69	0.00	0.00	8.57	0.00	0.00	8.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.00	0.00	0.00	4.21
Other -Record	6.34	0.00	44.01	0.00	0.00	0.00	0.00	0.00	81.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	51.45	0.00
Refused	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Don't Know	20.06	0.00	0.00	46.65	0.00	0.00	46.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.75	0.00	0.00	22.88
n	*15*	*5*	*3*	*7*	*1*	*0*	*7*	*0*	*2*	*0*	*0*	*0*	*4*	*1*	*0*	*0*	*0*	*0*	*0*	*1*	*0*	*1*	*13*	*0*	*4*	*11*
<LI101E_2> Were the HID Lamps you removed High pressure Sodium, Metal Halide, Mercury Vapor or Incandescent?																										
.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

* Values are shown as percent of respondents weighted by kWh.
* n is the number of respondents.

	ALL	PG&E(%)	SCE(%)	SDG&E(%)	PG&E Custom Program(%)	SCE Custom Program(%)	SDG&E Custom Program(%)	PG&E Deemed Program(%)	SCE Deemed Program(%)	SDG&E Deemed Program(%)	SCE Direct Install Program(%)	SDG&E Direct Install Program(%)	PG&E LGP Program(%)	SCE LGP Program(%)	PG&E L3P Program(%)	SCE L3P Program(%)	SDG&E L3P Program(%)	CFL Basic(%)	CFL Reflector(%)	High Bay(%)	HID(%)	LF Delamp(%)	Linear(%)	Occupancy Sensor(%)	Deemed(%)	All Calculated(%)
n	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
<LI101F_2> Approximately how old were the lights that were removed/replaced by the T8 fluorescent fixtures?																										
Less than 5 years old	1.69	0.00	0.00	4.15	0.00	0.00	4.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.84	0.00	0.00	1.94
Between 5 and 10 years old	8.24	17.29	0.00	1.46	0.00	0.00	1.46	0.00	0.00	0.00	0.00	0.00	38.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.97	0.00	31.77	4.79
Between 10 and 15 years old or	50.68	54.76	44.01	48.70	100.00	0.00	48.70	0.00	81.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	47.96	0.00	51.45	50.56
More than 15 years old	20.73	27.95	55.99	0.00	0.00	0.00	0.00	0.00	18.27	0.00	0.00	0.00	61.77	100.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	20.95	0.00	16.78	21.31
Don't Know	18.65	0.00	0.00	45.69	0.00	0.00	45.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.29	0.00	0.00	21.39
n	*13*	*5*	*3*	*5*	*1*	*0*	*5*	*0*	*2*	*0*	*0*	*0*	*4*	*1*	*0*	*0*	*0*	*0*	*0*	*1*	*0*	*1*	*11*	*0*	*4*	*9*
<LI101G_2> How would you describe the removed light equipment's condition? Would you say they were in																										
Poor condition	32.59	54.76	55.99	0.00	100.00	0.00	0.00	0.00	18.27	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	33.84	0.00	11.50	35.68
Fair condition or	50.04	8.10	44.01	97.67	0.00	0.00	97.67	0.00	81.73	0.00	0.00	0.00	17.91	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	47.27	0.00	51.45	49.84
Good condition	17.37	37.14	0.00	2.33	0.00	0.00	2.33	0.00	0.00	0.00	0.00	0.00	82.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	18.89	0.00	37.05	14.48
n	*13*	*5*	*3*	*5*	*1*	*0*	*5*	*0*	*2*	*0*	*0*	*0*	*4*	*1*	*0*	*0*	*0*	*0*	*0*	*1*	*0*	*1*	*11*	*0*	*4*	*9*
<LI101H_2> Approximately what percentage of the lighting equipment that was removed and replaced was broken or not working prior to installing?																										
0	48.08	43.71	44.01	54.31	0.00	0.00	54.31	0.00	81.73	0.00	0.00	0.00	96.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	45.14	0.00	83.22	42.93
5	1.47	0.00	9.84	0.00	0.00	0.00	0.00	0.00	18.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	11.50	0.00
10	31.12	54.76	46.15	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	33.84	0.00	0.00	35.68
15	17.71	0.00	0.00	43.37	0.00	0.00	43.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	19.26	0.00	0.00	20.30
20	0.68	1.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.73	0.00	5.28	0.00
102	0.95	0.00	0.00	2.33	0.00	0.00	2.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.03	0.00	0.00	1.09
n	*13*	*5*	*3*	*5*	*1*	*0*	*5*	*0*	*2*	*0*	*0*	*0*	*4*	*1*	*0*	*0*	*0*	*0*	*0*	*1*	*0*	*1*	*11*	*0*	*4*	*9*
<LI101A_3> Approximately how many T10 fluorescent fixtures did you buy for this facility?																										
1	72.01	0.00	100.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	100.00	0.00
Don't Know	27.99	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	100.00
n	*2*	*1*	*1*	*0*	*0*	*0*	*0*	*0*	*1*	*0*	*0*	*0*	*1*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*1*	*1*	*0*	*1*	*1*
<LI101B_3>Would you say that the number of T10 fluorescent fixtures installed under the program are																										
Less than 10 units	100.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	100.00
n	*1*	*1*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*1*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*1*	*0*	*0*	*1*
<LI101C_3> Were any placed/installed at another facility? If so, what percentage would you estimate?																										
0	100.00	100.00	100.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	100.00	0.00	100.00	100.00
n	*2*	*1*	*1*	*0*	*0*	*0*	*0*	*0*	*1*	*0*	*0*	*0*	*1*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*1*	*1*	*0*	*1*	*1*
<LI101D_3>What type of lighting was removed and replaced when you installed the T10 fluorescent fixtures through the Program?																										
High Performance T8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T8 fluorescent fixtures (1in. diameter b	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T10 fluorescent fixtures	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T12 fluorescent fixtures	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compact HID (High Intensity Discharge) F	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Screw-in Modular CFLS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hardwired CFL Fixtures	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Incandescent bulbs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CFL Exit Signs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LED Exit Signs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Halogen bulbs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Reflectors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electronic Ballast	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Magnetic Ballast	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Manual Switches	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Time Clock	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Occupancy Sensor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Bypass/Delay Timers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Photocell	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fat/Thick Tubes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Skinny/Thin Tubes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T5 Fixtures (5/8in. diameter)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Did not Remove Anything, addition only	27.99	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	100.00

* Values are shown as percent of respondents weighted by kWh.
* n is the number of respondents.

	ALL	PG&E(%)	SCE(%)	SDG&E(%)	PG&E Custom Program(%)	SCE Custom Program(%)	SDG&E Custom Program(%)	PG&E Deemed Program(%)	SCE Deemed Program(%)	SDG&E Deemed Program(%)	SCE Direct Install Program(%)	SDG&E Direct Install Program(%)	PG&E LGP Program(%)	SCE LGP Program(%)	PG&E L3P Program(%)	SCE L3P Program(%)	SDG&E L3P Program(%)	CFL Basic(%)	CFL Reflector(%)	High Bay(%)	HID(%)	LF Delamp(%)	Linear(%)	Occupancy Sensor(%)	Deemed(%)	All Calculated(%)
Other -Record	72.01	0.00	100.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	100.00	0.00
Refused	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Don't Know	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	*2*	*1*	*1*	*0*	*0*	*0*	*0*	*0*	*1*	*0*	*0*	*0*	*1*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*1*	*1*	*0*	*1*	*1*
<LI101E_3> Were the HID Lamps you removed High pressure Sodium, Metal Halide, Mercury Vapor or Incandescent?																										
.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
<LI101F_3> Approximately how old were the lights that were removed/replaced by the T10 fluorescent fixtures?																										
Don't Know	100.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	100.00	0.00
n	*1*	*0*	*1*	*0*	*0*	*0*	*0*	*0*	*1*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*1*	*0*	*0*	*1*	*0*
<LI101G_3> How would you describe the removed light equipment's condition? Would you say they were in																										
Don't Know	100.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	100.00	0.00
n	*1*	*0*	*1*	*0*	*0*	*0*	*0*	*0*	*1*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*1*	*0*	*0*	*1*	*0*
<LI101H_3> Approximately what percentage of the lighting equipment that was removed and replaced was broken or not working prior to installing?																										
0	100.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	100.00	0.00
n	*1*	*0*	*1*	*0*	*0*	*0*	*0*	*0*	*1*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*1*	*0*	*0*	*1*	*0*
<LI101A_4> Approximately how many HID fixtures did you buy for this facility?																										
9	100.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	100.00	0.00	100.00	0.00	0.00	100.00
n	*3*	*3*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*3*	*0*	*0*	*0*	*0*	*1*	*0*	*0*	*1*	*0*	*1*	*0*	*0*	*3*
<LI101B_4> Would you say that the number of HID fixtures installed under the program are																										
.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
<LI101C_4> Were any placed/installed at another facility? If so, what percentage would you estimate?																										
0	100.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	100.00	0.00	100.00	0.00	0.00	100.00
n	*3*	*3*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*3*	*0*	*0*	*0*	*0*	*1*	*0*	*0*	*1*	*0*	*1*	*0*	*0*	*3*
<LI101D_4>What type of lighting was removed and replaced when you installed the HID fixtures through the Program?																										
High Performance T8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T8 fluorescent fixtures (1in. diameter b	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T10 fluorescent fixtures	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T12 fluorescent fixtures	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compact HID (High Intensity Discharge) F	100.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	100.00	0.00	100.00	0.00	0.00	100.00
Screw-in Modular CFLS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hardwired CFL Fixtures	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Incandescent bulbs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CFL Exit Signs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LED Exit Signs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Halogen bulbs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Reflectors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electronic Ballast	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Magnetic Ballast	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Manual Switches	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Time Clock	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Occupancy Sensor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Bypass/Delay Timers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Photocell	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fat/Thick Tubes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Skinny/Thin Tubes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T5 Fixtures (5/8in. diameter)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Did not Remove Anything, addition only	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other -Record	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Refused	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Don't Know	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	*3*	*3*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*3*	*0*	*0*	*0*	*0*	*1*	*0*	*0*	*1*	*0*	*1*	*0*	*0*	*3*

* Values are shown as percent of respondents weighted by kWh.
* n is the number of respondents.

	ALL	PG&E(%)	SCE(%)	SDG&E(%)	PG&E Custom Program(%)	SCE Custom Program(%)	SDG&E Custom Program(%)	PG&E Deemed Program(%)	SCE Deemed Program(%)	SDG&E Deemed Program(%)	SCE Direct Install Program(%)	SDG&E Direct Install Program(%)	PG&E LGP Program(%)	SCE LGP Program(%)	PG&E L3P Program(%)	SCE L3P Program(%)	SDG&E L3P Program(%)	CFL Basic(%)	CFL Reflector(%)	High Bay(%)	HID(%)	LF Delamp(%)	Linear(%)	Occupancy Sensor(%)	Deemed(%)	All Calculated(%)
<LI101E_4> Were the HID Lamps you removed High pressure Sodium, Metal Halide, Mercury Vapor or Incandescent?																										
Metal Halide	100.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	100.00	0.00	100.00	0.00	0.00	100.00
n	*3*	*3*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*3*	*0*	*0*	*0*	*0*	*1*	*0*	*0*	*1*	*0*	*1*	*0*	*0*	*3*
<LI101F_4> Approximately how old were the lights that were removed/replaced by the HID fixtures?																										
More than 15 years old	100.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	100.00	0.00	100.00	0.00	0.00	100.00
n	*3*	*3*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*3*	*0*	*0*	*0*	*0*	*1*	*0*	*0*	*1*	*0*	*1*	*0*	*0*	*3*
<LI101G_4> How would you describe the removed light equipment's condition? Would you say they were in																										
Fair condition or	100.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	100.00	0.00	100.00	0.00	0.00	100.00
n	*3*	*3*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*3*	*0*	*0*	*0*	*0*	*1*	*0*	*0*	*1*	*0*	*1*	*0*	*0*	*3*
<LI101H_4> Approximately what percentage of the lighting equipment that was removed and replaced was broken or not working prior to installing?																										
10	100.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	100.00	0.00	100.00	0.00	0.00	100.00
n	*3*	*3*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*3*	*0*	*0*	*0*	*0*	*1*	*0*	*0*	*1*	*0*	*1*	*0*	*0*	*3*
<LI101A_5> Approximately how many Compact Fluorescent, Screw-in Modular did you buy for this facility?																										
45	23.48	33.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	33.45	0.00	0.00	0.00	0.00	23.48	0.00	0.00	0.00	0.00	0.00	0.00	33.45	0.00
50	31.94	45.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	45.49	0.00	0.00	0.00	0.00	31.94	0.00	0.00	0.00	0.00	0.00	0.00	45.49	0.00
70	14.78	21.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.06	0.00	0.00	0.00	0.00	14.78	0.00	0.00	0.00	0.00	0.00	0.00	21.06	0.00
1000	28.95	0.00	0.00	97.13	0.00	0.00	97.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	28.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	97.13
Don't Know	0.85	0.00	0.00	2.87	0.00	0.00	2.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.87
n	*5*	*3*	*0*	*2*	*0*	*0*	*2*	*0*	*0*	*0*	*0*	*0*	*3*	*0*	*0*	*0*	*0*	*5*	*0*	*0*	*0*	*0*	*0*	*0*	*3*	*2*
<LI101B_5> Would you say that the number of Compact Fluorescent, Screw-in Modular installed under the program are																										
Less than 10 units	100.00	0.00	0.00	100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00
n	*1*	*0*	*0*	*1*	*0*	*0*	*1*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*1*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*1*
<LI101C_5> Were any placed/installed at another facility? If so, what percentage would you estimate?																										
0	100.00	100.00	0.00	100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	100.00
n	*5*	*3*	*0*	*2*	*0*	*0*	*2*	*0*	*0*	*0*	*0*	*0*	*3*	*0*	*0*	*0*	*0*	*5*	*0*	*0*	*0*	*0*	*0*	*0*	*3*	*2*
<LI101D_5>What type of lighting was removed and replaced when you installed the Compact Fluorescent, Screw-in Modular through the Program?																										
High Performance T8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T8 fluorescent fixtures (1in. diameter b	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T10 fluorescent fixtures	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T12 fluorescent fixtures	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compact HID (High Intensity Discharge) F	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Screw-in Modular CFLS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hardwired CFL Fixtures	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Incandescent bulbs	46.72	66.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	66.55	0.00	0.00	0.00	0.00	46.72	0.00	0.00	0.00	0.00	0.00	0.00	66.55	0.00
CFL Exit Signs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LED Exit Signs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Halogen bulbs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Reflectors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electronic Ballast	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Magnetic Ballast	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Manual Switches	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Time Clock	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Occupancy Sensor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Bypass/Delay Timers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Photocell	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fat/Thick Tubes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Skinny/Thin Tubes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T5 Fixtures (5/8in. diameter)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Did not Remove Anything, addition only	53.28	33.45	0.00	100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	33.45	0.00	0.00	0.00	0.00	53.28	0.00	0.00	0.00	0.00	0.00	0.00	33.45	100.00
Other -Record	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Refused	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Don't Know	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	*5*	*3*	*0*	*2*	*0*	*0*	*2*	*0*	*0*	*0*	*0*	*0*	*3*	*0*	*0*	*0*	*0*	*5*	*0*	*0*	*0*	*0*	*0*	*0*	*3*	*2*
<LI101E_5> Were the HID Lamps you removed High pressure Sodium, Metal Halide, Mercury Vapor or Incandescent?																										

* Values are shown as percent of respondents weighted by kWh.
* n is the number of respondents.

	ALL	PG&E(%)	SCE(%)	SDG&E(%)	PG&E Custom Program(%)	SCE Custom Program(%)	SDG&E Custom Program(%)	PG&E Deemed Program(%)	SCE Deemed Program(%)	SDG&E Deemed Program(%)	SCE Direct Install Program(%)	SDG&E Direct Install Program(%)	PG&E LGP Program(%)	SCE LGP Program(%)	PG&E L3P Program(%)	SCE L3P Program(%)	SDG&E L3P Program(%)	CFL Basic(%)	CFL Reflector(%)	High Bay(%)	HID(%)	LF Delamp(%)	Linear(%)	Occupancy Sensor(%)	Deemed(%)	All Calculated(%)
.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
<LI101F_5> Approximately how old were the lights that were removed/replaced by the Compact Fluorescent, Screw-in Modular?																										
Less than 5 years old	68.36	68.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	68.36	0.00	0.00	0.00	0.00	68.36	0.00	0.00	0.00	0.00	0.00	0.00	68.36	0.00
Don't Know	31.64	31.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	31.64	0.00	0.00	0.00	0.00	31.64	0.00	0.00	0.00	0.00	0.00	0.00	31.64	0.00
n	*2*	*2*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*2*	*0*	*0*	*0*	*0*	*2*	*0*	*0*	*0*	*0*	*0*	*0*	*2*	*0*
<LI101G_5> How would you describe the removed light equipment's condition? Would you say they were in																										
Good condition	100.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00
n	*2*	*2*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*2*	*0*	*0*	*0*	*0*	*2*	*0*	*0*	*0*	*0*	*0*	*0*	*2*	*0*
<LI101H_5> Approximately what percentage of the lighting equipment that was removed and replaced was broken or not working prior to installing?																										
0	100.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00
n	*2*	*2*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*2*	*0*	*0*	*0*	*0*	*2*	*0*	*0*	*0*	*0*	*0*	*0*	*2*	*0*
<LI101A_6> Approximately how many Hardwired Compact Fluorescent Fixtures did you buy for this facility?																										
60	100.00	0.00	0.00	100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	100.00
n	*1*	*0*	*0*	*1*	*0*	*0*	*1*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*1*	*0*	*0*	*1*
<LI101B_6> Would you say that the number of Hardwired Compact Fluorescent Fixtures installed under the program are																										
.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
<LI101C_6> Were any placed/installed at another facility? If so, what percentage would you estimate?																										
0	100.00	0.00	0.00	100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	100.00
n	*1*	*0*	*0*	*1*	*0*	*0*	*1*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*1*	*0*	*0*	*1*
<LI101D_6>What type of lighting was removed and replaced when you installed the Hardwired Compact Fluorescent Fixtures through the Program?																										
High Performance T8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T8 fluorescent fixtures (1in. diameter b	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T10 fluorescent fixtures	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T12 fluorescent fixtures	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compact HID (High Intensity Discharge) F	100.00	0.00	0.00	100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	100.00
Screw-in Modular CFLS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hardwired CFL Fixtures	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Incandescent bulbs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CFL Exit Signs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LED Exit Signs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Halogen bulbs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Reflectors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electronic Ballast	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Magnetic Ballast	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Manual Switches	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Time Clock	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Occupancy Sensor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Bypass/Delay Timers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Photocell	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fat/Thick Tubes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Skinny/Thin Tubes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T5 Fixtures (5/8in. diameter)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Did not Remove Anything, addition only	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other -Record	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Refused	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Don't Know	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	*1*	*0*	*0*	*1*	*0*	*0*	*1*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*1*	*0*	*0*	*1*
<LI101E_6> Were the HID Lamps you removed High pressure Sodium, Metal Halide, Mercury Vapor or Incandescent?																										
High Pressure Sodium	100.00	0.00	0.00	100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	100.00
n	*1*	*0*	*0*	*1*	*0*	*0*	*1*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*1*	*0*	*0*	*1*

* Values are shown as percent of respondents weighted by kWh.
* n is the number of respondents.

	ALL	PG&E(%)	SCE(%)	SDG&E(%)	PG&E Custom Program(%)	SCE Custom Program(%)	SDG&E Custom Program(%)	PG&E Deemed Program(%)	SCE Deemed Program(%)	SDG&E Deemed Program(%)	SCE Direct Install Program(%)	SDG&E Direct Install Program(%)	PG&E LGP Program(%)	SCE LGP Program(%)	PG&E L3P Program(%)	SCE L3P Program(%)	SDG&E L3P Program(%)	CFL Basic(%)	CFL Reflector(%)	High Bay(%)	HID(%)	LF Delamp(%)	Linear(%)	Occupancy Sensor(%)	Deemed(%)	All Calculated(%)
<LI101F_6> Approximately how old were the lights that were removed/replaced by the Hardwired Compact Fluorescent Fixtures?																										
Between 5 and 10 years old	100.00	0.00	0.00	100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	100.00
n	*1*	*0*	*0*	*1*	*0*	*0*	*1*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*1*	*0*	*0*	*1*
<LI101G_6> How would you describe the removed light equipment's condition? Would you say they were in																										
Poor condition	100.00	0.00	0.00	100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	100.00
n	*1*	*0*	*0*	*1*	*0*	*0*	*1*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*1*	*0*	*0*	*1*
<LI101H_6> Approximately what percentage of the lighting equipment that was removed and replaced was broken or not working prior to installing?																										
20	100.00	0.00	0.00	100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	100.00
n	*1*	*0*	*0*	*1*	*0*	*0*	*1*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*1*	*0*	*0*	*1*
<LI101A_10> Approximately how many Reflectors did you buy for this facility?																										
.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
<LI101B_10> Would you say that the number of Reflectors installed under the program are																										
.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
<LI101C_10>Were any placed/installed at another facility? If so, what percentage would you estimate?																										
.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
<LI101D_10>What type of lighting was removed and replaced when you installed the Reflectors through the Program?																										
High Performance T8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T8 fluorescent fixtures (1in. diameter b	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T10 fluorescent fixtures	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T12 fluorescent fixtures	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compact HID (High Intensity Discharge) F	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Screw-in Modular CFLS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hardwired CFL Fixtures	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Incandescent bulbs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CFL Exit Signs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LED Exit Signs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Halogen bulbs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Reflectors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electronic Ballast	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Magnetic Ballast	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Manual Switches	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Time Clock	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Occupancy Sensor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Bypass/Delay Timers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Photocell	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fat/Thick Tubes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Skinny/Thin Tubes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T5 Fixtures (5/8in. diameter)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Did not Remove Anything, addition only	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other -Record	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Refused	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Don't Know	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
<LI101E_10> Were the HID Lamps you removed High pressure Sodium, Metal Halide, Mercury Vapor or Incandescent?																										
.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
<LI101F_10> Approximately how old were the lights that were removed/replaced by the Reflectors?																										
.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*

* Values are shown as percent of respondents weighted by kWh.
* n is the number of respondents.

	ALL	PG&E(%)	SCE(%)	SDG&E(%)	PG&E Custom Program(%)	SCE Custom Program(%)	SDG&E Custom Program(%)	PG&E Deemed Program(%)	SCE Deemed Program(%)	SDG&E Deemed Program(%)	SCE Direct Install Program(%)	SDG&E Direct Install Program(%)	PG&E LGP Program(%)	SCE LGP Program(%)	PG&E L3P Program(%)	SCE L3P Program(%)	SDG&E L3P Program(%)	CFL Basic(%)	CFL Reflector(%)	High Bay(%)	HID(%)	LF Delamp(%)	Linear(%)	Occupancy Sensor(%)	Deemed(%)	All Calculated(%)
<LI101G_10> How would you describe the removed light equipment's condition? Would you say they were in																										
.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
<LI101H_10> Approximately what percentage of the lighting equipment that was removed and replaced was broken or not working prior to installing?																										
.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
<LI101A_11> Approximately how many Electronic Ballasts did you buy for this facility?																										
13	28.87	82.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	82.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	28.89	0.00	76.32	0.00
14	1.21	3.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.22	0.00	3.21	0.00
100	12.42	0.00	61.59	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.43	0.00	0.00	19.97
300	3.05	0.00	0.00	6.80	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.05	0.00	0.00	4.90
1700	41.74	0.00	0.00	93.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	41.78	0.00	0.00	67.14
Don't Know	12.72	14.18	38.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14.18	0.00	0.00	100.00	0.00	100.00	0.00	0.00	0.00	0.00	12.65	0.00	20.47	8.00
n	*8*	*4*	*2*	*2*	*0*	*0*	*1*	*0*	*0*	*0*	*0*	*0*	*4*	*1*	*0*	*1*	*1*	*1*	*0*	*0*	*0*	*0*	*7*	*0*	*3*	*5*
<LI101B_11> Would you say that the number of Electronic Ballasts installed under the program are																										
Between 11 and 50 units	39.10	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	38.72	0.00	0.00	100.00
More than 100 units	60.90	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	61.28	0.00	100.00	0.00
n	*3*	*2*	*1*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*2*	*0*	*0*	*1*	*0*	*1*	*0*	*0*	*0*	*0*	*2*	*0*	*1*	*2*
<LI101C_11> Were any placed/installed at another facility? If so, what percentage would you estimate?																										
0	96.95	100.00	100.00	93.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	100.00	0.00	100.00	100.00	100.00	0.00	0.00	0.00	0.00	96.95	0.00	100.00	95.10
10	3.05	0.00	0.00	6.80	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.05	0.00	0.00	4.90
n	*8*	*4*	*2*	*2*	*0*	*0*	*1*	*0*	*0*	*0*	*0*	*0*	*4*	*1*	*0*	*1*	*1*	*1*	*0*	*0*	*0*	*0*	*7*	*0*	*3*	*5*
<LI101D_11>What type of lighting was removed and replaced when you installed the Electronic Ballasts through the Program?																										
High Performance T8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T8 fluorescent fixtures (1in. diameter b	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T10 fluorescent fixtures	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T12 fluorescent fixtures	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compact HID (High Intensity Discharge) F	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Screw-in Modular CFLS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hardwired CFL Fixtures	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Incandescent bulbs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CFL Exit Signs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LED Exit Signs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Halogen bulbs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Reflectors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electronic Ballast	44.79	0.00	0.00	100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	44.82	0.00	0.00	72.03
Magnetic Ballast	54.16	0.00	61.59	93.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	54.20	0.00	0.00	87.11
Manual Switches	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Time Clock	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Occupancy Sensor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Bypass/Delay Timers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Photocell	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fat/Thick Tubes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Skinny/Thin Tubes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T5 Fixtures (5/8in. diameter)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Did not Remove Anything, addition only	7.74	0.00	38.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	7.75	0.00	20.47	0.00
Other -Record	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Refused	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Don't Know	35.05	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	35.00	0.00	79.53	8.00
n	*8*	*4*	*2*	*2*	*0*	*0*	*1*	*0*	*0*	*0*	*0*	*0*	*4*	*1*	*0*	*1*	*1*	*1*	*0*	*0*	*0*	*0*	*7*	*0*	*3*	*5*
<LI101E_11> Were the HID Lamps you removed High pressure Sodium, Metal Halide, Mercury Vapor or Incandescent?																										
.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
<LI101F_11> Approximately how old were the lights that were removed/replaced by the Electronic Ballasts?																										
Between 5 and 10 years old	45.25	0.00	0.00	93.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	45.28	0.00	0.00	67.14

* Values are shown as percent of respondents weighted by kWh.
* n is the number of respondents.

	ALL	PG&E(%)	SCE(%)	SDG&E(%)	PG&E Custom Program(%)	SCE Custom Program(%)	SDG&E Custom Program(%)	PG&E Deemed Program(%)	SCE Deemed Program(%)	SDG&E Deemed Program(%)	SCE Direct Install Program(%)	SDG&E Direct Install Program(%)	PG&E LGP Program(%)	SCE LGP Program(%)	PG&E L3P Program(%)	SCE L3P Program(%)	SDG&E L3P Program(%)	CFL Basic(%)	CFL Reflector(%)	High Bay(%)	HID(%)	LF Delamp(%)	Linear(%)	Occupancy Sensor(%)	Deemed(%)	All Calculated(%)
Between 10 and 15 years old or	34.59	82.35	0.00	6.80	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	82.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	34.62	0.00	95.96	4.90
More than 15 years old	20.16	17.65	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.65	100.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	20.10	0.00	4.04	27.97
n	*7*	*4*	*1*	*2*	*0*	*0*	*1*	*0*	*0*	*0*	*0*	*0*	*4*	*1*	*0*	*0*	*1*	*1*	*0*	*0*	*0*	*0*	*6*	*0*	*2*	*5*
<LI101G_11> How would you describe the removed light equipment's condition? Would you say they were in																										
Poor condition	14.78	3.46	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.46	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14.79	0.00	4.04	19.97
Fair condition or	48.55	0.00	0.00	100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	48.59	0.00	0.00	72.03
Good condition	36.68	96.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	96.54	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	36.62	0.00	95.96	8.00
n	*7*	*4*	*1*	*2*	*0*	*0*	*1*	*0*	*0*	*0*	*0*	*0*	*4*	*1*	*0*	*0*	*1*	*1*	*0*	*0*	*0*	*0*	*6*	*0*	*2*	*5*
<LI101H_11> Approximately what percentage of the lighting equipment that was removed and replaced was broken or not working prior to installing?																										
0	39.98	96.54	0.00	6.80	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	96.54	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	39.93	0.00	95.96	12.89
5	13.46	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.47	0.00	0.00	19.97
20	1.32	3.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.32	0.00	4.04	0.00
25	45.25	0.00	0.00	93.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	45.28	0.00	0.00	67.14
n	*7*	*4*	*1*	*2*	*0*	*0*	*1*	*0*	*0*	*0*	*0*	*0*	*4*	*1*	*0*	*0*	*1*	*1*	*0*	*0*	*0*	*0*	*6*	*0*	*2*	*5*
<LI101A_13> Approximately how many Occupancy Sensor Lighting Controls did you buy for this facility?																										
20	10.45	0.00	61.59	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.99	0.00	0.00	11.18
65	1.66	0.00	0.00	3.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	8.48	0.00	1.77
300	36.67	100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	45.58	0.00	0.00	39.22
Don't Know	51.22	0.00	38.41	96.42	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	41.43	91.52	100.00	47.82
n	*8*	*1*	*2*	*5*	*1*	*0*	*4*	*0*	*0*	*0*	*0*	*0*	*0*	*1*	*0*	*1*	*1*	*0*	*0*	*0*	*0*	*0*	*5*	*3*	*1*	*7*
<LI101B_13> Would you say that the number of Occupancy Sensor Lighting Controls installed under the program are																										
50 to 100 units or	100.00	0.00	100.00	100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	100.00	100.00	100.00
n	*5*	*0*	*1*	*4*	*0*	*0*	*4*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*1*	*0*	*0*	*0*	*0*	*0*	*0*	*3*	*2*	*1*	*4*
<LI101C_13> Were any placed/installed at another facility? If so, what percentage would you estimate?																										
0	73.19	100.00	100.00	42.16	100.00	0.00	40.02	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	100.00	100.00	0.00	0.00	0.00	0.00	0.00	66.67	100.00	100.00	71.32
102	26.81	0.00	0.00	57.84	0.00	0.00	59.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	33.33	0.00	0.00	28.68
n	*8*	*1*	*2*	*5*	*1*	*0*	*4*	*0*	*0*	*0*	*0*	*0*	*0*	*1*	*0*	*1*	*1*	*0*	*0*	*0*	*0*	*0*	*5*	*3*	*1*	*7*
<LI101D_13>What type of lighting was removed and replaced when you installed the Occupancy Sensor Lighting Controls through the Program?																										
High Performance T8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T8 fluorescent fixtures (1in. diameter b	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T10 fluorescent fixtures	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T12 fluorescent fixtures	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compact HID (High Intensity Discharge) F	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Screw-in Modular CFLS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hardwired CFL Fixtures	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Incandescent bulbs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CFL Exit Signs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LED Exit Signs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Halogen bulbs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Reflectors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electronic Ballast	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Magnetic Ballast	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Manual Switches	38.92	0.00	61.59	61.41	0.00	0.00	59.98	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	46.32	8.48	0.00	41.64
Lighting Controls, Time Clock	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Occupancy Sensor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Bypass/Delay Timers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Photocell	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other	12.87	0.00	0.00	27.75	0.00	0.00	28.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	65.82	0.00	13.76
Fat/Thick Tubes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Skinny/Thin Tubes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T5 Fixtures (5/8in. diameter)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Did not Remove Anything, addition only	48.21	100.00	38.41	10.83	100.00	0.00	11.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	53.68	25.70	100.00	44.60
Other -Record	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Refused	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Don't Know	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	*8*	*1*	*2*	*5*	*1*	*0*	*4*	*0*	*0*	*0*	*0*	*0*	*0*	*1*	*0*	*1*	*1*	*0*	*0*	*0*	*0*	*0*	*5*	*3*	*1*	*7*

* Values are shown as percent of respondents weighted by kWh.
* n is the number of respondents.

	ALL	PG&E(%)	SCE(%)	SDG&E(%)	PG&E Custom Program(%)	SCE Custom Program(%)	SDG&E Custom Program(%)	PG&E Deemed Program(%)	SCE Deemed Program(%)	SDG&E Deemed Program(%)	SCE Direct Install Program(%)	SDG&E Direct Install Program(%)	PG&E LGP Program(%)	SCE LGP Program(%)	PG&E L3P Program(%)	SCE L3P Program(%)	SDG&E L3P Program(%)	CFL Basic(%)	CFL Reflector(%)	High Bay(%)	HID(%)	LF Delamp(%)	Linear(%)	Occupancy Sensor(%)	Deemed(%)	All Calculated(%)
<LI101E_13> Were the HID Lamps you removed High pressure Sodium, Metal Halide, Mercury Vapor or Incandescent?																										
.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
<LI101F_13> Approximately how old were the lights that were removed/replaced by the Occupancy Sensor Lighting Controls?																										
Between 5 and 10 years old	28.04	0.00	0.00	35.14	0.00	0.00	32.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	28.04
More than 15 years old	20.19	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	28.05	0.00	0.00	20.19
Don't Know	51.77	0.00	0.00	64.86	0.00	0.00	67.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	71.95	0.00	0.00	51.77
n	*4*	*0*	*1*	*3*	*0*	*0*	*2*	*0*	*0*	*0*	*0*	*0*	*0*	*1*	*0*	*0*	*1*	*0*	*0*	*0*	*0*	*0*	*2*	*2*	*0*	*4*
<LI101G_13> How would you describe the removed light equipment's condition? Would you say they were in																										
Fair condition or	96.80	0.00	100.00	95.99	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	88.59	0.00	96.80
Good condition	3.20	0.00	0.00	4.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	11.41	0.00	3.20
n	*4*	*0*	*1*	*3*	*0*	*0*	*2*	*0*	*0*	*0*	*0*	*0*	*0*	*1*	*0*	*0*	*1*	*0*	*0*	*0*	*0*	*0*	*2*	*2*	*0*	*4*
<LI101H_13> Approximately what percentage of the lighting equipment that was removed and replaced was broken or not working prior to installing?																										
0	79.81	0.00	0.00	100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	71.95	100.00	0.00	79.81
5	20.19	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	28.05	0.00	0.00	20.19
n	*4*	*0*	*1*	*3*	*0*	*0*	*2*	*0*	*0*	*0*	*0*	*0*	*0*	*1*	*0*	*0*	*1*	*0*	*0*	*0*	*0*	*0*	*2*	*2*	*0*	*4*
<LI101A_16> Approximately how many These Other Fluorescent Fixtures did you buy for this facility?																										
6	10.29	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	100.00	0.00
Don't Know	89.71	0.00	0.00	100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	100.00
n	*2*	*1*	*0*	*1*	*0*	*0*	*1*	*0*	*0*	*0*	*0*	*0*	*1*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*1*	*1*	*1*	*1*
<LI101B_16> Would you say that the number of These Other Fluorescent Fixtures installed under the program are																										
More than 100 units	100.00	0.00	0.00	100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	100.00
n	*1*	*0*	*0*	*1*	*0*	*0*	*1*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*1*	*0*	*1*
<LI101C_16> Were any placed/installed at another facility? If so, what percentage would you estimate?																										
0	10.29	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	100.00	0.00
102	89.71	0.00	0.00	100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	100.00
n	*2*	*1*	*0*	*1*	*0*	*0*	*1*	*0*	*0*	*0*	*0*	*0*	*1*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*1*	*1*	*1*	*1*
<LI101D_16>What type of lighting was removed and replaced when you installed the These Other Fluorescent Fixtures through the Program?																										
High Performance T8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T8 fluorescent fixtures (1in. diameter b	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T10 fluorescent fixtures	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T12 fluorescent fixtures	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compact HID (High Intensity Discharge) F	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Screw-in Modular CFLS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hardwired CFL Fixtures	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Incandescent bulbs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CFL Exit Signs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LED Exit Signs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Halogen bulbs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Reflectors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electronic Ballast	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Magnetic Ballast	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Manual Switches	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Time Clock	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Occupancy Sensor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Bypass/Delay Timers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Photocell	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other	89.71	0.00	0.00	100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	100.00
Fat/Thick Tubes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Skinny/Thin Tubes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T5 Fixtures (5/8in. diameter)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Did not Remove Anything, addition only	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other -Record	10.29	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	100.00	0.00
Refused	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Don't Know	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	*2*	*1*	*0*	*1*	*0*	*0*	*1*	*0*	*0*	*0*	*0*	*0*	*1*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*1*	*1*	*1*	*1*

* Values are shown as percent of respondents weighted by kWh.
* n is the number of respondents.

	ALL	PG&E(%)	SCE(%)	SDG&E(%)	PG&E Custom Program(%)	SCE Custom Program(%)	SDG&E Custom Program(%)	PG&E Deemed Program(%)	SCE Deemed Program(%)	SDG&E Deemed Program(%)	SCE Direct Install Program(%)	SDG&E Direct Install Program(%)	PG&E LGP Program(%)	SCE LGP Program(%)	PG&E L3P Program(%)	SCE L3P Program(%)	SDG&E L3P Program(%)	CFL Basic(%)	CFL Reflector(%)	High Bay(%)	HID(%)	LF Delamp(%)	Linear(%)	Occupancy Sensor(%)	Deemed(%)	All Calculated(%)
<LI101E_16> Were the HID Lamps you removed High pressure Sodium, Metal Halide, Mercury Vapor or Incandescent?																										
.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
<LI101F_16> Approximately how old were the lights that were removed/replaced by the These Other Fluorescent Fixtures?																										
Between 5 and 10 years old	100.00	100.00	0.00	100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	100.00	100.00	100.00
n	*2*	*1*	*0*	*1*	*0*	*0*	*1*	*0*	*0*	*0*	*0*	*0*	*1*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*1*	*1*	*1*	*1*
<LI101G_16> How would you describe the removed light equipment's condition? Would you say they were in																										
Fair condition or	89.71	0.00	0.00	100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	100.00
Good condition	10.29	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	100.00	0.00
n	*2*	*1*	*0*	*1*	*0*	*0*	*1*	*0*	*0*	*0*	*0*	*0*	*1*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*1*	*1*	*1*	*1*
<LI101H_16> Approximately what percentage of the lighting equipment that was removed and replaced was broken or not working prior to installing?																										
0	100.00	100.00	0.00	100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	100.00	100.00	100.00
n	*2*	*1*	*0*	*1*	*0*	*0*	*1*	*0*	*0*	*0*	*0*	*0*	*1*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*1*	*1*	*1*	*1*
<LI101A_17> Approximately how many Skinny/Thin Fluorescent Tube Fixtures did you buy for this facility?																										
30	15.27	32.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	32.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	19.04	0.00	0.00	17.66
50	3.81	0.00	7.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	19.34	0.00	0.00	0.00	0.00	4.40
140	25.35	53.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	53.82	0.00	0.00	0.00	0.00	100.00	0.00	0.00	80.66	0.00	11.72	0.00	0.00	29.31
150	35.57	0.00	67.26	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	44.33	0.00	0.00	41.13
Don't Know	19.99	13.76	25.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.76	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	24.91	0.00	100.00	7.49
n	*8*	*5*	*3*	*0*	*0*	*1*	*0*	*0*	*0*	*0*	*0*	*0*	*5*	*1*	*0*	*1*	*0*	*1*	*0*	*0*	*2*	*0*	*5*	*0*	*1*	*7*
<LI101B_17> Would you say that the number of Skinny/Thin Fluorescent Tube Fixtures installed under the program are																										
Less than 10 units	32.43	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	32.43	0.00	0.00	100.00
More than 100 units	67.57	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	67.57	0.00	100.00	0.00
n	*2*	*1*	*1*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*1*	*0*	*0*	*1*	*0*	*0*	*0*	*0*	*0*	*0*	*2*	*0*	*1*	*1*
<LI101C_17>Were any placed/installed at another facility? If so, what percentage would you estimate?																										
0	84.73	67.58	100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	67.58	100.00	0.00	100.00	0.00	100.00	0.00	0.00	100.00	0.00	80.96	0.00	100.00	82.34
102	15.27	32.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	32.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	19.04	0.00	0.00	17.66
n	*8*	*5*	*3*	*0*	*0*	*1*	*0*	*0*	*0*	*0*	*0*	*0*	*5*	*1*	*0*	*1*	*0*	*1*	*0*	*0*	*2*	*0*	*5*	*0*	*1*	*7*
<LI101D_17>What type of lighting was removed and replaced when you installed the Skinny/Thin Fluorescent Tube Fixtures through the Program?																										
High Performance T8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T8 fluorescent fixtures (1in. diameter b	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T10 fluorescent fixtures	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T12 fluorescent fixtures	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compact HID (High Intensity Discharge) F	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Screw-in Modular CFLS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hardwired CFL Fixtures	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Incandescent bulbs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CFL Exit Signs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LED Exit Signs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Halogen bulbs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Reflectors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electronic Ballast	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Magnetic Ballast	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Manual Switches	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Time Clock	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Occupancy Sensor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Bypass/Delay Timers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Photocell	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fat/Thick Tubes	47.11	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	80.66	0.00	38.84	0.00	0.00	54.47
Skinny/Thin Tubes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T5 Fixtures (5/8in. diameter)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Did not Remove Anything, addition only	49.08	0.00	92.80	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	61.16	0.00	100.00	41.13
Other -Record	3.81	0.00	7.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	19.34	0.00	0.00	0.00	0.00	4.40
Refused	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

* Values are shown as percent of respondents weighted by kWh.
* n is the number of respondents.

	ALL	PG&E(%)	SCE(%)	SDG&E(%)	PG&E Custom Program(%)	SCE Custom Program(%)	SDG&E Custom Program(%)	PG&E Deemed Program(%)	SCE Deemed Program(%)	SDG&E Deemed Program(%)	SCE Direct Install Program(%)	SDG&E Direct Install Program(%)	PG&E LGP Program(%)	SCE LGP Program(%)	PG&E L3P Program(%)	SCE L3P Program(%)	SDG&E L3P Program(%)	CFL Basic(%)	CFL Reflector(%)	High Bay(%)	HID(%)	LF Delamp(%)	Linear(%)	Occupancy Sensor(%)	Deemed(%)	All Calculated(%)
Don't Know	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	*8*	*5*	*3*	*0*	*0*	*1*	*0*	*0*	*0*	*0*	*0*	*0*	*5*	*1*	*0*	*1*	*0*	*1*	*0*	*0*	*2*	*0*	*5*	*0*	*1*	*7*
<LI101E_17> Were the HID Lamps you removed High pressure Sodium, Metal Halide, Mercury Vapor or Incandescent?																										
.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
<LI101F_17> Approximately how old were the lights that were removed/replaced by the Skinny/Thin Fluorescent Tube Fixtures?																										
Between 5 and 10 years old	12.73	13.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.80	0.00	0.00	12.73
More than 15 years old	87.27	86.24	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	86.24	100.00	0.00	0.00	0.00	100.00	0.00	0.00	100.00	0.00	79.20	0.00	0.00	87.27
n	*6*	*5*	*1*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*5*	*1*	*0*	*0*	*0*	*1*	*0*	*0*	*2*	*0*	*3*	*0*	*0*	*6*
<LI101G_17> How would you describe the removed light equipment's condition? Would you say they were in																										
Fair condition or	87.27	86.24	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	86.24	100.00	0.00	0.00	0.00	100.00	0.00	0.00	100.00	0.00	79.20	0.00	0.00	87.27
Good condition	12.73	13.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.80	0.00	0.00	12.73
n	*6*	*5*	*1*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*5*	*1*	*0*	*0*	*0*	*1*	*0*	*0*	*2*	*0*	*3*	*0*	*0*	*6*
<LI101H_17> Approximately what percentage of the lighting equipment that was removed and replaced was broken or not working prior to installing?																										
0	50.21	46.18	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	46.18	100.00	0.00	0.00	0.00	0.00	0.00	0.00	19.34	0.00	69.81	0.00	0.00	50.21
15	49.79	53.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	53.82	0.00	0.00	0.00	0.00	100.00	0.00	0.00	80.66	0.00	30.19	0.00	0.00	49.79
n	*6*	*5*	*1*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*5*	*1*	*0*	*0*	*0*	*1*	*0*	*0*	*2*	*0*	*3*	*0*	*0*	*6*
<LI101A_18>Approximately how many T5 Fixtures did you buy for this facility?																										
6	18.51	52.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	22.87	0.00	0.00	0.00	0.00	98.74	0.00
70	0.24	0.00	0.00	9.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.40	0.00	1.26	0.00
100	2.27	0.00	0.00	90.60	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	2.80
200	16.59	47.27	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	98.60	0.00	0.00	20.42
1000	28.69	0.00	45.98	0.00	0.00	45.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	35.46	0.00	0.00	0.00	0.00	0.00	35.31
Don't Know	33.71	0.00	54.02	0.00	0.00	54.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	41.66	0.00	0.00	0.00	0.00	0.00	41.48
n	*6*	*2*	*2*	*2*	*1*	*2*	*1*	*0*	*0*	*0*	*0*	*1*	*1*	*0*	*0*	*0*	*0*	*0*	*0*	*3*	*0*	*0*	*2*	*1*	*2*	*4*
<LI101B_18> Would you say that the number of T5 Fixtures installed under the program are																										
More than 100 units	100.00	0.00	100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	100.00
n	*1*	*0*	*1*	*0*	*0*	*1*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*1*	*0*	*0*	*0*	*0*	*0*	*1*
<LI101C_18> Were any placed/installed at another facility? If so, what percentage would you estimate?																										
0	99.76	100.00	100.00	90.60	100.00	100.00	100.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	98.60	100.00	98.74	100.00
80	0.24	0.00	0.00	9.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.40	0.00	1.26	0.00
n	*6*	*2*	*2*	*2*	*1*	*2*	*1*	*0*	*0*	*0*	*0*	*1*	*1*	*0*	*0*	*0*	*0*	*0*	*0*	*3*	*0*	*0*	*2*	*1*	*2*	*4*
<LI101D_18>What type of lighting was removed and replaced when you installed the T5 Fixtures through the Program?																										
High Performance T8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T8 fluorescent fixtures (1in. diameter b	18.51	52.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	22.87	0.00	0.00	0.00	0.00	98.74	0.00
T10 fluorescent fixtures	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T12 fluorescent fixtures	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compact HID (High Intensity Discharge) F	16.83	47.27	0.00	9.40	100.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	1.26	20.42
Screw-in Modular CFLS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hardwired CFL Fixtures	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Incandescent bulbs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CFL Exit Signs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LED Exit Signs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Halogen bulbs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Reflectors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electronic Ballast	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Magnetic Ballast	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Manual Switches	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Time Clock	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Occupancy Sensor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Bypass/Delay Timers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Photocell	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fat/Thick Tubes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Skinny/Thin Tubes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

* Values are shown as percent of respondents weighted by kWh.
* n is the number of respondents.

	ALL	PG&E(%)	SCE(%)	SDG&E(%)	PG&E Custom Program(%)	SCE Custom Program(%)	SDG&E Custom Program(%)	PG&E Deemed Program(%)	SCE Deemed Program(%)	SDG&E Deemed Program(%)	SCE Direct Install Program(%)	SDG&E Direct Install Program(%)	PG&E LGP Program(%)	SCE LGP Program(%)	PG&E L3P Program(%)	SCE L3P Program(%)	SDG&E L3P Program(%)	CFL Basic(%)	CFL Reflector(%)	High Bay(%)	HID(%)	LF Delamp(%)	Linear(%)	Occupancy Sensor(%)	Deemed(%)	All Calculated(%)
T5 Fixtures (5/8in. diameter)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Did not Remove Anything, addition only	64.67	0.00	100.00	90.60	0.00	100.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	77.13	0.00	0.00	0.00	100.00	0.00	79.58
Other -Record	0.24	0.00	0.00	9.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.40	0.00	1.26	0.00
Refused	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Don't Know	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	*6*	*2*	*2*	*2*	*1*	*2*	*1*	*0*	*0*	*0*	*0*	*1*	*1*	*0*	*0*	*0*	*0*	*0*	*0*	*3*	*0*	*0*	*2*	*1*	*2*	*4*
<LI101E_18> Were the HID Lamps you removed High pressure Sodium, Metal Halide, Mercury Vapor or Incandescent?																										
Metal Halide	100.00	100.00	0.00	100.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	100.00	100.00
n	*2*	*1*	*0*	*1*	*1*	*0*	*0*	*0*	*0*	*0*	*0*	*1*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*2*	*0*	*1*	*1*
<LI101F_18> Approximately how old were the lights that were removed/replaced by the T5 Fixtures?																										
Between 10 and 15 years old or	52.38	52.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	98.74	0.00
More than 15 years old	47.62	47.27	0.00	100.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	1.26	100.00
n	*3*	*2*	*0*	*1*	*1*	*0*	*0*	*0*	*0*	*0*	*0*	*1*	*1*	*0*	*0*	*0*	*0*	*0*	*0*	*1*	*0*	*0*	*2*	*0*	*2*	*1*
<LI101G_18> How would you describe the removed light equipment's condition? Would you say they were in																										
Poor condition	46.96	47.27	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	98.60	0.00	0.00	100.00
Fair condition or	53.04	52.73	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	1.40	0.00	100.00	0.00
n	*3*	*2*	*0*	*1*	*1*	*0*	*0*	*0*	*0*	*0*	*0*	*1*	*1*	*0*	*0*	*0*	*0*	*0*	*0*	*1*	*0*	*0*	*2*	*0*	*2*	*1*
<LI101H_18> Approximately what percentage of the lighting equipment that was removed and replaced was broken or not working prior to installing?																										
0	52.38	52.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	98.74	0.00
10	46.96	47.27	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	98.60	0.00	0.00	100.00
102	0.67	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.40	0.00	1.26	0.00
n	*3*	*2*	*0*	*1*	*1*	*0*	*0*	*0*	*0*	*0*	*0*	*1*	*1*	*0*	*0*	*0*	*0*	*0*	*0*	*1*	*0*	*0*	*2*	*0*	*2*	*1*
<LI101A_77> Approximately how many These Other Lighting Measures did you buy for this facility?																										
1	0.02	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.42	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00
4	0.08	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.15	0.00	0.00	0.73
15	1.69	2.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.98	0.00	1.90	0.00
20	5.66	0.00	45.82	0.00	0.00	0.00	0.00	0.00	44.97	0.00	0.00	0.00	0.00	55.04	0.00	0.00	0.00	0.00	0.00	0.00	100.00	79.48	0.00	0.00	5.39	7.76
26	1.94	2.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.42	0.00	2.18	0.00
30	2.95	3.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.21	0.00	3.33	0.00
45	0.40	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.70	0.00	0.31	1.08
50	34.23	42.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	42.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	60.42	0.00	38.62	0.00
95	11.65	14.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.57	0.00	13.15	0.00
120	0.09	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00	2.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.78
150	19.61	24.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	24.58	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	22.13	0.00
200	3.53	4.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.42	0.00	0.00	0.00	0.00	90.57	0.00	0.00	0.00	0.00	0.00	0.00	3.98	0.00
333	0.66	0.00	0.00	8.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.17	0.00	0.75	0.00
350	0.03	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.23
450	0.80	0.00	0.00	10.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	6.14	0.00	7.00
1200	5.85	0.00	47.33	0.00	0.00	0.00	0.00	0.00	55.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	45.20	6.60	0.00
2000	0.13	0.00	1.03	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.98	0.00	1.12
Don't Know	10.69	4.51	5.83	81.37	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	4.51	44.96	0.00	0.00	0.00	6.04	0.00	0.00	0.00	20.52	5.38	47.68	1.64	81.29
n	*29*	*20*	*5*	*4*	*0*	*1*	*2*	*0*	*2*	*0*	*0*	*1*	*20*	*2*	*0*	*0*	*1*	*6*	*0*	*1*	*1*	*3*	*14*	*4*	*16*	*13*
<LI101B_77>Would you say that the number of These Other Lighting Measures installed under the program are																										
Between 11 and 50 units	42.28	100.00	100.00	3.20	0.00	0.00	3.20	0.00	0.00	0.00	0.00	0.00	100.00	100.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	100.00	100.00	0.00	100.00	33.19
More than 100 units	57.72	0.00	0.00	96.80	0.00	0.00	96.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	66.81
n	*10*	*7*	*1*	*2*	*0*	*0*	*2*	*0*	*0*	*0*	*0*	*0*	*7*	*1*	*0*	*0*	*0*	*2*	*0*	*0*	*0*	*2*	*5*	*1*	*4*	*6*
<LI101C_77> Were any placed/installed at another facility? If so, what percentage would you estimate?																										
0	91.89	97.57	100.00	21.23	0.00	100.00	3.20	0.00	100.00	0.00	0.00	100.00	97.57	100.00	0.00	0.00	100.00	100.00	0.00	100.00	100.00	100.00	96.58	52.32	97.82	45.69
102	8.11	2.43	0.00	78.77	0.00	0.00	96.80	0.00	0.00	0.00	0.00	0.00	2.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.42	47.68	2.18	54.31
n	*29*	*20*	*5*	*4*	*0*	*1*	*2*	*0*	*2*	*0*	*0*	*1*	*20*	*2*	*0*	*0*	*1*	*6*	*0*	*1*	*1*	*3*	*14*	*4*	*16*	*13*
<LI101D_77>What type of lighting was removed and replaced when you installed the These Other Lighting Measures through the Program?																										
High Performance T8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T8 fluorescent fixtures (1in. diameter b	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T10 fluorescent fixtures	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T12 fluorescent fixtures	0.10	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00	0.42	0.00	0.00	0.00	0.00	0.15	0.00	0.02	0.73

* Values are shown as percent of respondents weighted by kWh.
* n is the number of respondents.

	ALL	PG&E(%)	SCE(%)	SDG&E(%)	PG&E Custom Program(%)	SCE Custom Program(%)	SDG&E Custom Program(%)	PG&E Deemed Program(%)	SCE Deemed Program(%)	SDG&E Deemed Program(%)	SCE Direct Install Program(%)	SDG&E Direct Install Program(%)	PG&E LGP Program(%)	SCE LGP Program(%)	PG&E L3P Program(%)	SCE L3P Program(%)	SDG&E L3P Program(%)	CFL Basic(%)	CFL Reflector(%)	High Bay(%)	HID(%)	LF Delamp(%)	Linear(%)	Occupancy Sensor(%)	Deemed(%)	All Calculated(%)
Compact HID (High Intensity Discharge) F	0.66	0.00	0.00	8.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.17	0.00	0.75	0.00
Screw-in Modular CFLS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hardwired CFL Fixtures	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Incandescent bulbs	30.17	29.21	55.49	0.00	0.00	100.00	0.00	0.00	55.03	0.00	0.00	0.00	29.21	55.04	0.00	0.00	0.00	90.57	0.00	100.00	100.00	0.00	0.30	46.18	32.90	8.88
CFL Exit Signs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LED Exit Signs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Halogen bulbs	60.48	61.56	91.84	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	61.56	44.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	91.46	86.72	45.20	68.09	1.08
Reflectors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electronic Ballast	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Magnetic Ballast	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Manual Switches	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Time Clock	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Occupancy Sensor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Bypass/Delay Timers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Photocell	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other	2.13	2.51	1.03	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	2.51	0.00	0.00	0.00	0.00	0.81	0.00	0.00	0.00	0.00	3.49	0.98	0.00	18.78
Fat/Thick Tubes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Skinny/Thin Tubes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T5 Fixtures (5/8in. diameter)	0.03	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.23
Did not Remove Anything, addition only	0.99	0.99	0.00	2.60	0.00	0.00	3.20	0.00	0.00	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.00	5.23	0.00	0.00	0.00	8.54	0.49	0.00	0.89	1.79
Other -Record	13.93	1.40	47.33	88.92	0.00	0.00	96.80	0.00	55.03	0.00	0.00	0.00	1.40	0.00	0.00	0.00	100.00	2.29	0.00	0.00	0.00	0.00	1.81	99.02	6.65	70.69
Refused	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Don't Know	1.94	2.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.42	0.00	2.18	0.00
n	*29*	*20*	*5*	*4*	*0*	*1*	*2*	*0*	*2*	*0*	*0*	*1*	*20*	*2*	*0*	*0*	*1*	*6*	*0*	*1*	*1*	*3*	*14*	*4*	*16*	*13*
<LI101E_77> Were the HID Lamps you removed High pressure Sodium, Metal Halide, Mercury Vapor or Incandescent?																										
Mercury Vapor	100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	100.00	0.00
n	*1*	*0*	*0*	*1*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*1*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*1*	*0*	*1*	*0*
<LI101F_77> Approximately how old were the lights that were removed/replaced by the These Other Lighting Measures?																										
Less than 5 years old	47.06	49.65	53.15	10.42	0.00	0.00	0.00	0.00	55.03	0.00	0.00	0.00	49.65	44.96	0.00	0.00	100.00	2.02	0.00	0.00	0.00	13.09	69.46	51.34	49.82	25.35
Between 5 and 10 years old	37.99	39.79	0.00	80.87	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	39.79	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	20.98	47.68	35.79	55.30
Between 10 and 15 years old or	8.81	4.98	38.68	0.00	0.00	0.00	0.00	0.00	44.97	0.00	0.00	0.00	4.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	86.91	6.98	0.00	9.56	2.83
More than 15 years old	1.91	0.28	8.16	8.71	0.00	100.00	0.00	0.00	0.00	0.00	0.00	100.00	0.28	55.04	0.00	0.00	0.00	2.42	0.00	0.00	100.00	0.00	1.41	0.98	0.81	10.59
Don't Know	4.23	5.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.30	0.00	0.00	0.00	0.00	95.57	0.00	0.00	0.00	0.00	1.17	0.00	4.01	5.93
n	*26*	*18*	*5*	*3*	*0*	*1*	*1*	*0*	*2*	*0*	*0*	*1*	*18*	*2*	*0*	*0*	*1*	*5*	*0*	*1*	*1*	*2*	*13*	*4*	*14*	*12*
<LI101G_77> How would you describe the removed light equipment's condition? Would you say they were in																										
Poor condition	0.13	0.00	1.03	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.98	0.00	1.14
Fair condition or	37.12	30.18	54.46	80.87	0.00	0.00	100.00	0.00	55.03	0.00	0.00	0.00	30.18	55.04	0.00	0.00	0.00	2.42	0.00	100.00	100.00	0.00	7.35	92.88	33.11	68.68
Good condition	62.76	69.82	44.51	19.13	0.00	0.00	0.00	0.00	44.97	0.00	0.00	100.00	69.82	44.96	0.00	0.00	100.00	97.58	0.00	0.00	0.00	100.00	92.65	6.14	66.89	30.18
n	*26*	*18*	*5*	*3*	*0*	*1*	*1*	*0*	*2*	*0*	*0*	*1*	*18*	*2*	*0*	*0*	*1*	*5*	*0*	*1*	*1*	*2*	*13*	*4*	*14*	*12*
<LI101H_77> Approximately what percentage of the lighting equipment that was removed and replaced was broken or not working prior to installing?																										
0	44.58	30.56	100.00	100.00	0.00	100.00	100.00	0.00	100.00	0.00	0.00	100.00	30.56	100.00	0.00	0.00	100.00	100.00	0.00	0.00	100.00	100.00	37.47	100.00	38.65	91.24
1	0.54	0.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.96	0.00	0.00	4.83
2	19.81	24.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	24.82	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	22.33	0.00
10	34.70	43.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	43.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	60.93	0.00	38.97	1.10
100	0.05	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.00	0.05	0.00
102	0.32	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.56	0.00	0.00	2.83
n	*26*	*18*	*5*	*3*	*0*	*1*	*1*	*0*	*2*	*0*	*0*	*1*	*18*	*2*	*0*	*0*	*1*	*5*	*0*	*1*	*1*	*2*	*13*	*4*	*14*	*12*
<C_REPLACE_ADDON> To determine if replacement or Addon?																										
REPLACEMENT	65.42	94.13	17.78	78.28	100.00	0.17	74.81	0.00	60.16	0.00	0.00	23.42	93.29	100.00	0.00	0.00	100.00	47.11	0.00	23.82	100.00	91.46	84.80	84.31	82.87	54.90
ADDON	34.58	5.87	82.22	21.72	0.00	99.83	25.19	0.00	39.84	0.00	0.00	76.58	6.71	0.00	0.00	100.00	0.00	52.89	0.00	76.18	0.00	8.54	15.20	15.69	17.13	45.10
n	*64*	*34*	*12*	*18*	*1*	*4*	*12*	*0*	*4*	*0*	*0*	*4*	*33*	*3*	*0*	*1*	*2*	*10*	*0*	*4*	*2*	*3*	*40*	*5*	*26*	*38*
<CUST_INSTALL_DATE_NU> Our records indicate that your organization installed this CUSTOM LIGHTING																										
Yes	99.59	99.61	99.27	100.00	100.00	100.00	100.00	0.00	100.00	0.00	0.00	100.00	99.55	89.11	0.00	100.00	100.00	100.00	0.00	100.00	100.00	41.64	99.69	100.00	98.86	100.00
Don't Know	0.41	0.39	0.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.45	10.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	58.36	0.31	0.00	1.14	0.00
n	*59*	*30*	*11*	*18*	*1*	*4*	*12*	*0*	*3*	*0*	*0*	*4*	*29*	*3*	*0*	*1*	*2*	*10*	*0*	*4*	*2*	*2*	*36*	*5*	*23*	*36*
<CUST_INSTALL_YEAR>In what year did you install this CUSTOM LIGHTING EQUIPMENT?																										

* Values are shown as percent of respondents weighted by kWh.
* n is the number of respondents.

	ALL	PG&E(%)	SCE(%)	SDG&E(%)	PG&E Custom Program(%)	SCE Custom Program(%)	SDG&E Custom Program(%)	PG&E Deemed Program(%)	SCE Deemed Program(%)	SDG&E Deemed Program(%)	SCE Direct Install Program(%)	SDG&E Direct Install Program(%)	PG&E LGP Program(%)	SCE LGP Program(%)	PG&E L3P Program(%)	SCE L3P Program(%)	SDG&E L3P Program(%)	CFL Basic(%)	CFL Reflector(%)	High Bay(%)	HID(%)	LF Delamp(%)	Linear(%)	Occupancy Sensor(%)	Deemed(%)	All Calculated(%)
.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
<CUST_INSTALL_MONTH> And in which Month. If you Don't Know the MONTH, could you remember the SEASON?																										
.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
<A3> In your own words, can you tell me why you decided to participate in this program?																										
To replace old/outdated lighting equipment	7.95	9.69	7.31	5.44	13.00	0.93	0.97	8.90	7.50	4.70	10.04	10.99	7.38	6.98	18.91	6.70	4.02	9.12	1.84	6.67	3.56	8.78	9.84	6.72	8.21	6.82
As part of a planned remodeling/build-out/expansion	0.77	2.12	0.05	0.19	20.00	0.00	0.00	0.10	0.00	0.41	0.26	0.00	0.08	0.00	0.02	0.00	0.00	1.07	0.00	0.00	0.00	0.00	1.93	0.20	0.08	3.78
To gain more control over how the mequipment was used	0.19	0.41	0.02	0.48	0.00	0.00	3.31	0.15	0.03	0.00	0.00	1.18	0.01	0.00	3.57	0.00	0.00	0.00	0.00	0.08	0.00	0.00	0.06	1.20	0.20	0.13
Maintenance downtime/associated expenses for old equip were too high	1.92	1.80	1.77	3.36	0.00	4.84	2.29	0.89	0.25	0.00	0.27	1.48	3.66	29.80	0.12	3.40	10.54	2.86	0.00	0.42	0.23	0.43	4.49	0.03	0.41	8.54
Had process problems and were seeking a solution	0.22	0.06	0.26	0.60	0.00	2.71	0.00	0.12	0.00	1.31	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.24	4.25	0.00	0.02	0.00	0.09	0.80
To improve lighting equipment performance	10.44	8.07	12.62	5.44	3.91	7.07	17.66	10.45	18.35	2.34	1.38	6.53	7.41	2.12	4.83	10.47	6.43	5.36	2.56	23.63	10.69	8.46	4.90	3.26	11.56	5.53
To improve the quality of the lighting in your facility	19.14	18.56	20.34	13.57	7.94	5.40	0.95	20.32	26.93	16.76	10.32	12.02	21.08	38.50	12.09	11.07	12.84	6.36	22.10	31.11	20.41	13.47	16.88	7.73	20.72	12.20
To comply with codes set by regulatory agencies	1.16	1.39	0.98	1.48	2.19	6.11	0.00	2.25	0.17	1.43	0.64	0.00	0.33	6.14	1.05	0.00	3.02	0.12	0.00	1.24	0.39	0.75	1.63	0.83	0.77	2.88
To improve visibility/plant safety	6.88	2.93	10.05	1.54	0.00	0.75	0.00	4.65	14.74	2.10	2.07	0.40	1.28	1.66	5.32	10.53	1.84	0.94	0.26	17.13	0.89	2.36	1.96	9.04	8.21	1.08
Comply w/co. policies regarding lighting retrofits/remodeling	0.86	1.27	0.48	1.79	5.85	0.22	0.00	0.28	0.42	0.00	0.00	0.00	1.44	0.48	0.00	2.27	6.50	4.15	0.33	0.00	0.44	0.84	1.18	1.34	0.43	2.76
To get a rebate from the program	24.77	25.30	25.86	15.78	38.34	20.41	11.18	25.32	25.80	12.53	22.03	28.27	24.48	46.25	14.60	35.00	13.75	18.29	6.09	32.64	21.06	26.42	22.78	18.91	24.28	26.95
To protect the environment	20.23	26.73	16.75	17.98	24.47	17.16	33.20	31.46	16.24	17.96	18.26	12.16	18.64	11.07	41.25	17.84	17.88	32.48	24.75	18.21	21.38	20.73	21.10	17.16	19.46	23.63
To reduce energy costs	70.20	66.77	71.77	73.19	26.81	70.49	72.85	74.57	66.66	71.82	83.16	65.58	62.87	74.66	91.37	79.35	80.84	71.27	73.75	67.68	76.15	79.37	67.15	71.45	71.51	64.48
To reduce energy use/power outages	31.94	26.86	33.47	41.52	12.12	26.17	57.63	19.60	36.55	41.55	31.03	27.55	34.72	19.97	42.44	30.94	46.75	30.48	23.90	35.58	47.77	26.62	27.29	42.00	32.61	29.05
To update to the latest technology	3.84	4.93	3.52	1.74	15.95	5.53	0.00	4.16	3.51	2.08	3.73	3.49	3.78	0.83	1.14	1.73	0.44	3.24	1.64	2.40	7.03	2.81	3.23	9.88	3.60	4.89
Other	6.10	6.21	5.97	6.53	6.37	9.14	3.82	5.73	5.08	10.19	4.33	7.09	8.00	34.74	0.93	3.33	0.83	6.27	11.03	3.89	0.85	7.15	7.33	6.27	5.71	7.79
Refused	0.03	0.07	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.09	0.00	0.00	0.00	0.00	0.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.00	0.03	0.00
Don't Know	0.10	0.04	0.16	0.00	0.00	0.00	0.00	0.00	0.22	0.00	0.00	0.00	0.10	0.00	0.00	0.29	0.00	0.06	0.00	0.00	0.03	0.02	0.18	0.25	0.12	0.01
n	*2436*	*1290*	*754*	*392*	*45*	*55*	*13*	*257*	*300*	*140*	*193*	*132*	*853*	*81*	*135*	*125*	*107*	*344*	*104*	*276*	*83*	*307*	*1060*	*262*	*2012*	*424*
<N2> Did your company make the decision to install measure before or after you became aware of rebates/cost reduction available through the program?																										
Before	19.45	20.21	18.11	25.17	40.13	24.42	41.60	18.84	18.96	32.50	7.98	10.94	13.31	32.39	33.07	25.11	18.40	26.36	33.71	13.77	39.31	14.35	22.08	18.98	17.43	28.31
After	74.73	74.91	75.60	68.45	54.99	64.72	58.12	74.48	74.17	58.32	90.37	83.71	82.99	67.55	65.15	64.58	77.49	70.17	64.62	78.99	60.58	80.07	74.05	68.90	76.58	66.66
Don't Know	5.82	4.88	6.29	6.38	4.88	10.86	0.28	6.69	6.87	9.18	1.65	5.35	3.71	0.06	1.78	10.30	4.11	3.47	1.67	7.24	0.11	5.58	3.87	12.12	6.00	5.04
n	*2438*	*1290*	*755*	*393*	*44*	*55*	*13*	*257*	*300*	*140*	*194*	*132*	*854*	*81*	*135*	*125*	*108*	*345*	*104*	*276*	*83*	*307*	*1062*	*261*	*2014*	*424*
<N3A> On a scale of 1-10 please rate the age or condition of the old measure?																										
1 Not at all Important	2.82	3.37	2.81	0.84	2.85	0.00	0.00	5.56	2.59	1.63	5.80	0.49	1.92	3.57	0.29	0.00	0.01	1.00	6.38	2.01	2.07	0.66	2.68	7.30	3.31	0.71
2	5.68	4.95	5.87	7.23	0.00	15.13	32.92	6.82	5.50	3.35	1.22	7.81	4.56	3.21	3.63	9.93	6.19	3.40	0.87	3.63	1.39	2.14	7.56	11.74	4.72	9.89
3	4.30	3.92	4.12	6.90	0.43	0.00	0.00	3.35	6.44	11.96	0.98	3.58	6.27	2.96	0.62	0.99	2.72	3.13	5.48	7.37	19.16	2.31	1.77	3.10	4.86	1.85
4	5.91	9.34	3.80	6.50	6.38	0.38	0.00	10.04	3.47	7.68	2.52	9.06	6.22	2.79	22.00	13.12	4.56	1.37	9.94	5.06	8.49	9.05	4.94	6.33	6.17	4.76
5	15.99	18.22	13.89	21.12	29.25	14.92	8.48	19.98	13.47	9.32	15.08	24.17	14.86	10.01	12.41	13.90	42.04	14.07	11.57	16.10	3.63	10.38	18.54	19.82	15.55	17.94
6	5.85	3.73	6.62	8.90	3.84	6.88	17.66	4.53	8.16	4.24	3.60	7.53	3.26	0.22	2.08	5.17	15.16	6.09	6.92	10.98	6.01	1.35	3.98	4.89	5.51	7.31
7	8.73	7.13	10.32	4.53	4.12	13.53	0.28	7.70	9.37	4.89	10.82	2.84	8.69	2.06	1.60	14.46	6.28	2.13	19.02	5.46	5.71	9.62	9.26	13.05	8.72	8.75
8	18.86	23.67	16.48	16.00	25.43	16.73	21.76	18.44	17.23	19.31	11.03	17.26	29.11	39.08	22.52	17.03	8.06	27.63	23.99	11.42	29.85	20.32	23.98	11.75	18.25	21.56
9	7.08	1.93	10.34	5.64	0.00	0.06	2.29	1.51	13.43	8.38	10.59	4.34	3.36	6.27	0.06	1.69	2.92	6.38	1.56	10.50	0.29	7.69	6.66	3.56	8.39	1.34
10 Extremely Important	14.89	13.05	16.81	9.56	16.49	6.35	0.00	13.33	14.53	12.09	25.54	11.60	10.41	22.22	18.81	21.09	6.58	18.97	3.98	18.10	7.46	25.94	12.32	6.67	15.89	10.50
Zero Not at all Important	8.63	10.19	7.20	11.93	10.55	11.99	9.49	8.61	5.54	16.77	11.52	10.61	10.35	7.56	15.98	2.55	5.49	10.81	9.66	7.05	15.54	10.06	7.60	10.81	8.12	10.85
Refused	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.23	0.00	0.00	0.00	0.00	0.01	0.01	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Don't Know	1.26	0.50	1.78	0.81	0.66	14.05	7.13	0.13	0.26	0.39	1.28	0.49	0.98	0.05	0.00	0.06	0.01	5.04	0.54	2.33	0.41	0.50	0.71	0.97	0.51	4.55
n	*2434*	*1286*	*755*	*393*	*44*	*55*	*13*	*256*	*300*	*140*	*194*	*132*	*851*	*81*	*135*	*125*	*108*	*343*	*104*	*276*	*83*	*307*	*1061*	*260*	*2012*	*422*
<N3AA> How, specifically, did this enter into your decision to install/delamp this lighting equipment?																										
Equipment broken/needed replacement	30.34	21.20	36.32	21.72	25.61	29.53	45.91	4.34	30.94	13.65	51.44	24.24	35.18	29.81	9.65	55.02	27.17	12.60	1.63	30.08	22.54	40.00	29.58	33.64	28.00	38.73
Program was sole reason for equipment replacement	9.06	5.09	10.78	12.28	0.00	0.17	0.00	0.14	12.15	19.74	3.52	8.46	10.94	4.95	3.44	23.86	4.37	10.01	0.00	1.53	0.00	16.34	12.40	7.95	10.47	4.01
Poor lighting quality	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Inefficient equipment	40.52	46.31	35.06	59.18	50.54	53.82	48.45	45.86	34.43	54.27	30.05	33.62	41.29	51.72	67.83	22.50	80.62	61.79	10.89	32.57	47.05	40.43	45.38	36.67	39.10	45.59
Equipment being phased out	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other	4.28	3.64	4.76	3.21	11.26	3.79	0.00	3.53	2.66	6.23	15.01	0.00	0.42	6.08	8.11	3.52	0.00	1.23	0.00	6.00	14.32	1.89	3.45	4.94	4.35	4.06
Other - Unrelated	9.70	6.58	10.64	15.37	0.00	12.63	51.55	14.65	11.59	17.62	7.69	4.35	3.59	7.45	0.00	8.82	3.03	7.94	0.00	17.95	6.58	7.24	7.19	5.52	10.25	7.71
Other	6.39	10.50	4.43	4.52	12.59	0.06	0.00	13.74	5.83	2.76	0.00	27.51	9.22	0.00	0.00	7.88	1.10	4.81	0.40	3.06	0.00	3.97	8.20	16.11	7.11	3.83
Refused	2.34	4.74	1.36	0.00	0.00	0.00	0.00	13.82	1.62	0.00	2.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	84.23	0.00	0.00	4.14	0.51	0.00	3.00	0.00
Don't Know	4.63	3.59	5.40	3.00	0.00	0.00	0.00	4.93	7.25	2.10	0.60	7.77	2.00	0.00	12.72	8.03	3.95	2.45	2.85	11.74	9.51	0.80	1.66	3.74	5.27	2.37
n	*524*	*250*	*202*	*72*	*13*	*17*	*3*	*44*	*72*	*26*	*36*	*19*	*169*	*15*	*24*	*62*	*24*	*70*	*7*	*66*	*17*	*71*	*237*	*56*	*403*	*121*

* Values are shown as percent of respondents weighted by kWh.
* n is the number of respondents.

	ALL	PG&E(%)	SCE(%)	SDG&E(%)	PG&E Custom Program(%)	SCE Custom Program(%)	SDG&E Custom Program(%)	PG&E Deemed Program(%)	SCE Deemed Program(%)	SDG&E Deemed Program(%)	SCE Direct Install Program(%)	SDG&E Direct Install Program(%)	PG&E LGP Program(%)	SCE LGP Program(%)	PG&E L3P Program(%)	SCE L3P Program(%)	SDG&E L3P Program(%)	CFL Basic(%)	CFL Reflector(%)	High Bay(%)	HID(%)	LF Delamp(%)	Linear(%)	Occupancy Sensor(%)	Deemed(%)	All Calculated(%)
<N3B> On a scale of 1-10 please rate the availability of the program rebate/cost reduction																										
1 Not at all Important	0.16	0.12	0.21	0.00	0.00	0.00	0.00	0.17	0.00	0.00	0.77	0.00	0.11	1.94	0.05	0.00	0.01	0.16	0.40	0.00	0.31	0.04	0.26	0.25	0.20	0.00
2	0.38	0.35	0.30	1.00	0.12	0.42	8.48	0.57	0.21	0.67	0.64	0.00	0.25	0.40	0.00	0.00	0.19	0.69	0.00	0.00	0.00	0.67	0.53	0.58	0.33	0.60
3	1.14	1.99	0.79	0.15	15.88	0.22	0.00	0.69	1.13	0.20	0.55	0.32	0.22	0.00	0.00	0.00	0.00	0.00	1.39	0.10	0.00	0.00	2.74	0.53	0.71	3.02
4	1.84	4.97	0.22	0.32	22.85	0.28	0.28	4.83	0.06	0.00	0.62	1.52	1.47	0.02	0.57	0.37	0.02	0.81	1.36	0.92	0.16	0.68	2.15	5.13	1.21	4.60
5	5.08	4.75	5.00	6.85	3.92	4.95	0.00	5.19	6.10	14.03	3.01	1.96	4.66	2.08	4.04	3.37	0.24	6.93	1.28	2.42	28.89	4.56	5.11	5.26	5.43	3.56
6	3.09	3.36	3.11	1.94	0.43	2.13	0.00	2.52	3.54	1.90	1.58	2.02	5.42	7.91	1.87	3.47	2.48	5.10	6.93	0.70	0.72	2.28	3.33	7.80	3.06	3.22
7	4.89	5.51	4.25	6.72	11.62	16.14	51.56	6.87	3.46	4.96	1.53	1.05	3.02	7.52	3.07	1.83	1.25	2.61	5.26	3.91	2.24	2.69	6.55	5.85	3.50	10.96
8	23.90	24.94	24.03	19.10	25.80	24.49	1.69	20.34	28.94	27.80	16.14	23.57	27.03	14.40	35.63	12.48	6.37	33.47	30.87	31.85	10.74	22.88	21.62	13.95	24.23	22.46
9	11.31	10.31	11.65	12.94	12.33	3.28	0.60	9.19	13.71	17.33	8.00	5.58	10.98	5.50	10.27	17.72	14.19	4.86	4.55	8.96	9.63	8.84	12.91	18.38	11.84	8.97
10 Extremely Important	45.25	40.55	47.43	49.18	5.58	41.22	27.91	47.54	42.35	30.99	63.61	63.60	44.84	59.80	30.17	45.90	75.17	39.15	46.51	50.34	46.56	49.95	42.43	37.70	47.06	37.37
Zero Not at all Important	1.12	2.61	0.34	0.50	1.46	0.00	0.00	2.09	0.03	0.98	1.48	0.19	0.58	0.38	14.33	0.01	0.06	2.86	1.36	0.56	0.32	0.37	1.61	1.51	0.72	2.86
Don't Know	1.83	0.55	2.68	1.29	0.00	6.87	9.49	0.00	0.48	1.16	2.10	0.20	1.42	0.05	0.00	14.84	0.02	3.36	0.08	0.26	0.41	7.04	0.74	3.08	1.71	2.38
n	*2439*	*1291*	*755*	*393*	*45*	*55*	*13*	*257*	*300*	*140*	*194*	*132*	*854*	*81*	*135*	*125*	*108*	*345*	*104*	*276*	*83*	*307*	*1062*	*262*	*2014*	*425*
<N3BB> Why do you give it this rating?																										
Rebate was sole reason for equipment replacement	15.96	10.34	18.10	21.57	4.16	27.27	0.00	4.44	18.23	35.81	8.68	7.87	14.55	21.72	25.11	22.16	14.48	28.38	1.16	13.27	8.13	22.94	16.46	20.15	15.83	16.53
Unable to afford replacement without rebate	9.37	10.14	9.01	9.08	7.82	37.60	0.00	11.38	7.60	4.11	4.30	21.11	8.66	0.00	12.05	0.70	9.67	8.37	0.00	7.47	23.29	8.52	12.34	4.49	7.73	16.71
Business has limited budget	1.58	3.52	0.35	2.92	0.00	0.00	83.85	0.93	0.05	0.15	0.00	0.00	7.51	3.73	1.71	2.29	1.21	0.57	0.00	0.37	2.01	1.71	3.09	0.84	0.78	5.16
Saves money/No out of pocket costs	49.40	49.97	49.50	46.73	2.97	25.30	16.15	56.71	52.86	29.87	64.40	59.52	49.57	65.26	52.98	23.35	60.54	50.61	94.64	56.28	41.24	24.54	46.49	52.91	51.78	38.76
Allowed for more extensive retrofit	0.87	0.18	1.30	0.38	0.00	0.00	0.00	0.40	1.50	0.94	0.54	0.00	0.00	2.26	0.00	2.19	0.00	2.58	0.00	0.81	0.00	3.17	0.18	1.24	0.90	0.69
Influenced management approval	1.19	1.62	1.04	0.60	18.25	0.00	0.00	0.68	0.43	0.00	0.00	0.00	0.25	0.00	0.00	7.90	1.50	0.00	0.00	0.07	0.94	1.51	2.71	0.00	0.32	5.08
Allowed for retrofit to occur immediately	0.74	1.60	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.51	0.00	4.08	0.00	0.00	1.66	0.00	0.00	0.00	0.00	11.57	2.17	0.32	0.09	0.77	0.60
Other	6.47	7.87	6.31	2.49	30.05	7.60	0.00	11.16	2.56	4.30	8.72	2.80	1.83	7.03	1.66	25.63	0.71	5.41	3.51	4.97	11.65	10.84	5.15	10.96	6.35	6.98
Other - Unrelated	6.36	5.43	7.11	4.64	32.54	2.09	0.00	3.04	6.76	0.41	11.84	0.25	4.13	0.00	2.95	8.78	11.10	0.17	0.15	8.21	1.16	8.83	6.32	1.77	6.22	6.99
Record verbatim	7.63	8.63	6.82	9.51	0.00	0.14	0.00	11.25	10.03	19.32	0.00	8.45	9.21	0.00	0.00	4.68	0.69	3.68	0.54	8.11	0.00	14.59	6.52	7.55	8.89	2.01
Refused	0.11	0.28	0.00	0.19	4.23	0.00	0.00	0.00	0.00	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.15	0.00	0.00	0.00	0.14	0.25	0.00	0.02	0.49
Don't Know	0.34	0.42	0.06	1.90	0.00	0.00	0.00	0.00	0.00	4.68	0.00	0.00	0.20	0.00	3.54	0.66	0.03	0.07	0.00	0.45	0.00	1.03	0.19	0.00	0.41	0.00
n	*931*	*460*	*340*	*131*	*13*	*22*	*2*	*84*	*142*	*45*	*64*	*39*	*308*	*21*	*55*	*91*	*45*	*104*	*21*	*149*	*36*	*106*	*407*	*108*	*737*	*194*
<N3C> Information provided through...																										
1 Not at all Important	0.97	2.36	0.03	0.00	0.00	0.00	0.00	3.78	0.00	0.00	0.00	0.00	2.79	1.09	0.00	0.00	0.00	0.00	0.00	0.76	15.56	0.00	1.22	0.00	1.42	0.08
2	1.47	1.55	1.25	2.25	0.00	4.00	0.00	0.00	0.40	1.47	0.00	10.24	5.18	0.01	0.16	1.24	0.44	0.00	5.95	0.00	0.01	2.48	2.27	0.01	1.24	1.92
3	2.70	0.60	3.78	5.94	0.00	8.01	0.00	0.00	0.12	1.34	1.33	0.00	0.31	3.36	3.00	9.74	11.23	0.00	0.00	0.10	0.00	0.70	6.47	0.32	0.67	6.78
4	3.41	7.07	0.80	1.46	0.90	2.22	0.00	9.77	0.25	2.57	0.00	0.00	10.14	6.77	0.00	0.00	1.25	0.17	2.79	7.05	0.00	0.00	4.11	0.31	2.64	4.96
5	14.63	20.67	11.30	6.35	53.58	11.18	0.00	19.01	5.98	10.14	0.00	9.47	11.83	11.27	14.79	39.07	3.23	2.04	1.30	23.40	0.00	25.47	13.12	5.72	13.76	16.36
6	6.77	9.18	5.04	5.57	31.09	8.11	87.11	9.54	2.15	8.99	1.98	0.00	3.39	7.67	1.57	11.06	0.00	2.34	0.00	1.89	1.30	0.71	10.61	12.87	4.47	11.40
7	11.13	5.93	14.27	16.79	0.37	32.28	0.00	3.34	6.02	19.54	11.00	12.00	3.71	5.60	20.25	14.22	17.45	29.06	4.37	6.42	1.04	28.06	12.36	0.63	8.80	15.79
8	18.44	18.57	20.29	8.43	7.79	12.68	10.02	17.44	24.17	5.84	24.00	40.01	31.65	28.36	6.92	15.38	0.28	47.61	0.47	17.94	10.58	21.35	16.78	20.56	21.83	11.65
9	6.78	10.75	2.91	9.99	0.00	10.62	0.00	8.62	0.36	0.72	1.26	16.85	3.34	3.56	36.88	0.05	14.69	0.94	4.26	6.60	1.75	0.00	10.06	6.84	4.07	12.21
10 Extremely Important	21.09	15.37	27.47	12.30	0.63	0.00	2.88	19.91	37.86	27.34	54.48	11.16	16.15	12.82	14.38	8.42	3.14	16.55	80.84	31.83	35.62	19.68	8.42	19.90	29.32	4.56
Zero Not at all Important	4.31	4.40	4.31	3.88	5.65	10.89	0.00	3.97	1.33	3.09	5.94	0.27	6.03	0.00	1.68	0.66	5.77	0.60	0.00	1.19	4.74	0.77	8.60	2.90	2.77	7.39
Don't Know	8.32	3.56	8.57	27.05	0.00	0.00	0.00	4.63	21.35	18.95	0.01	0.00	5.49	19.49	0.37	0.17	42.52	0.68	0.02	2.82	29.40	0.78	5.99	29.94	9.02	6.91
n	*526*	*296*	*152*	*78*	*14*	*18*	*3*	*51*	*50*	*28*	*21*	*26*	*196*	*28*	*35*	*35*	*21*	*72*	*25*	*64*	*19*	*55*	*237*	*54*	*390*	*136*
<N3CC> Why do you give it this rating?																										
Rebate/Incentive	10.68	25.94	0.63	1.44	0.00	0.00	100.00	23.01	0.00	0.00	0.00	0.00	4.86	21.96	55.98	0.79	0.00	0.00	0.00	12.56	13.71	10.36	17.97	0.00	6.53	24.15
Energy savings	4.49	11.03	0.04	2.04	0.00	0.00	0.00	21.34	0.09	4.54	0.00	0.00	4.99	0.00	0.00	0.00	0.00	2.10	20.84	1.50	0.00	0.41	0.00	11.50	5.83	0.17
Cost savings	1.66	3.45	0.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.60	6.03	0.00	0.00	0.00	0.00	0.00	0.00	0.94	8.62	1.78	1.26
Ease of program participation	0.90	2.15	0.09	0.00	0.00	0.00	0.00	3.34	0.00	0.00	0.00	0.00	2.35	0.00	0.00	1.02	0.00	1.90	0.00	1.82	0.00	0.00	0.84	0.00	0.94	0.76
Program information/audit	76.26	48.29	95.70	82.88	100.00	93.77	0.00	45.55	94.76	77.75	100.00	58.86	77.08	78.05	17.85	92.16	98.55	87.32	78.86	77.86	30.13	86.69	76.26	72.90	80.59	62.15
Record verbatim	4.56	5.46	3.00	13.64	0.00	6.23	0.00	5.66	5.15	17.72	0.00	41.14	10.72	0.00	0.00	0.00	1.45	8.68	0.30	5.66	0.00	2.55	4.00	6.99	4.07	6.16
Don't Know	1.46	3.69	0.00	0.00	0.00	0.00	0.00	1.10	0.00	0.00	0.00	0.00	0.00	0.00	12.58	0.00	0.00	0.00	0.00	0.60	56.16	0.00	0.00	0.00	0.26	5.35
n	*128*	*71*	*41*	*16*	*1*	*6*	*1*	*13*	*10*	*5*	*6*	*5*	*48*	*5*	*9*	*14*	*5*	*19*	*5*	*20*	*5*	*13*	*50*	*16*	*90*	*38*
<N3D> Recommendation from an equipment vendor that sold you the lighting measure and/or installed it																										
1 Not at all Important	1.08	0.54	1.41	0.88	0.00	3.43	0.00	0.62	0.87	1.93	0.00	0.00	0.47	1.65	1.09	5.31	0.08	0.22	0.62	0.28	0.49	4.20	0.72	0.78	1.05	1.18
2	1.79	0.93	2.18	2.41	0.00	0.00	19.83	0.68	2.63	1.40	0.97	0.00	1.72	0.42	0.28	4.12	0.60	1.50	0.00	1.15	0.90	0.61	1.72	5.38	1.73	2.05
3	4.03	4.91	3.58	3.86	16.39	0.00	0.00	2.18	2.01	0.66	0.82	0.00	5.37	1.57	0.84	23.99	11.24	4.57	0.00	1.04	0.00	9.27	5.47	2.43	3.54	6.03
4	3.06	5.60	2.10	0.11	3.59	0.18	0.00	9.18	1.85	0.00	1.61	0.00	3.10	5.18	2.41	5.88	0.34	0.67	0.30	2.89	14.79	2.24	2.05	5.27	3.22	2.40
5	9.79	10.78	9.33	9.31	5.43	19.12	0.00	10.09	8.53	8.54	1.43	6.17	13.96	18.25	8.64	15.31	14.36	2.90	3.97	7.63	6.06	3.61	11.94	18.51	8.43	15.36
6	4.43	8.37	2.22	4.61	13.72	1.17	9.37	6.53	2.13	4.32	3.93	6.63	6.25	4.12	16.87	0.37	2.76	7.33	2.31	4.52	10.63	1.67	4.95	4.19	3.93	6.47

* Values are shown as percent of respondents weighted by kWh.
* n is the number of respondents.

	ALL	PG&E(%)	SCE(%)	SDG&E(%)	PG&E Custom Program(%)	SCE Custom Program(%)	SDG&E Custom Program(%)	PG&E Deemed Program(%)	SCE Deemed Program(%)	SDG&E Deemed Program(%)	SCE Direct Install Program(%)	SDG&E Direct Install Program(%)	PG&E LGP Program(%)	SCE LGP Program(%)	PG&E L3P Program(%)	SCE L3P Program(%)	SDG&E L3P Program(%)	CFL Basic(%)	CFL Reflector(%)	High Bay(%)	HID(%)	LF Delamp(%)	Linear(%)	Occupancy Sensor(%)	Deemed(%)	All Calculated(%)
7	9.90	11.05	9.54	8.07	3.25	26.22	1.08	8.99	8.06	9.73	7.51	0.70	16.91	2.46	7.93	7.22	11.27	12.90	16.55	7.38	4.36	10.02	12.57	7.62	9.03	13.44
8	28.34	20.77	32.04	31.52	32.51	16.08	63.16	21.72	41.61	18.44	18.11	22.18	15.03	41.57	23.25	5.17	46.41	25.61	10.64	42.01	8.61	17.75	24.87	26.81	28.70	26.87
9	9.90	9.04	11.16	4.71	7.42	12.74	1.87	12.28	13.64	4.00	7.66	13.12	6.88	3.24	5.52	0.91	2.15	9.03	0.90	6.75	24.75	13.51	12.02	4.94	10.64	6.88
10 Extremely Important	18.36	19.09	17.41	21.91	7.68	0.71	0.00	20.69	15.39	30.46	41.09	46.50	22.39	9.66	14.56	10.09	3.11	29.06	49.24	18.58	20.83	30.13	14.02	9.80	21.85	4.15
Zero Not at all Important	6.90	7.69	5.90	10.61	6.71	6.21	4.70	6.30	2.89	15.99	14.31	4.63	6.75	11.16	17.55	9.73	7.67	5.42	15.47	5.35	8.55	2.35	8.15	10.45	6.16	9.89
Refused	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.02
Don't Know	2.42	1.23	3.14	2.02	3.31	14.14	0.00	0.74	0.39	4.54	2.56	0.06	1.14	0.73	1.07	11.89	0.01	0.79	0.00	2.42	0.04	4.64	1.50	3.82	1.72	5.27
n	*1939*	*1043*	*577*	*319*	*43*	*46*	*12*	*201*	*256*	*120*	*113*	*102*	*698*	*64*	*101*	*98*	*85*	*246*	*63*	*230*	*66*	*251*	*875*	*208*	*1575*	*364*
<N3E> On a scale of 1-10 please rate your previous experience with energy efficient lighting projects?																										
1 Not at all Important	2.69	2.99	2.40	3.39	1.88	0.00	32.92	1.87	3.73	1.45	0.08	0.00	5.14	0.00	0.35	2.41	0.83	2.12	0.30	0.82	8.87	2.07	4.39	1.39	2.62	2.99
2	5.13	3.04	6.71	2.88	0.12	1.04	0.00	2.87	9.66	5.15	3.97	1.42	4.70	1.96	0.18	1.32	0.93	4.66	4.71	13.91	0.90	0.69	2.32	0.63	5.67	2.74
3	2.65	1.19	3.77	0.99	0.00	14.75	0.00	1.27	3.10	1.25	0.62	1.87	1.49	1.43	0.97	4.29	0.23	0.84	0.23	3.27	0.70	1.35	3.76	1.05	2.00	5.47
4	1.32	2.06	0.88	1.34	0.31	3.75	0.00	3.08	0.66	1.05	0.41	2.55	1.64	0.00	1.20	0.54	1.37	1.32	1.33	1.44	0.15	0.90	1.41	1.60	1.22	1.74
5	8.44	9.68	7.69	8.58	25.14	0.99	20.43	9.60	8.88	9.24	6.41	5.05	6.84	10.28	4.93	9.36	6.67	8.15	8.16	6.96	5.12	7.74	10.24	8.26	8.53	8.07
6	3.87	4.20	3.47	5.17	0.08	0.88	0.00	5.01	1.36	1.47	4.14	7.15	5.15	1.95	1.32	19.27	11.38	4.31	3.97	2.39	1.15	10.82	3.23	1.67	3.99	3.37
7	5.90	7.18	4.66	9.01	23.76	7.08	18.64	4.51	2.61	12.60	7.80	4.72	5.34	7.69	8.42	7.29	3.38	3.92	8.65	3.67	26.47	3.88	6.61	4.90	4.71	11.10
8	13.27	13.00	13.33	13.95	15.96	26.32	1.69	14.47	13.98	17.68	5.88	10.55	9.62	28.64	17.15	7.55	13.49	13.43	4.64	9.00	5.75	9.02	14.06	29.78	11.79	19.74
9	7.43	4.31	10.17	1.59	10.45	13.44	0.28	0.08	11.00	1.41	6.81	2.17	7.83	4.34	1.94	10.81	1.86	7.08	0.49	2.89	5.52	5.40	9.49	16.14	7.34	7.82
10 Extremely Important	12.27	13.27	11.11	15.95	4.70	18.35	13.31	17.62	6.94	8.11	13.18	10.99	7.56	33.34	26.70	19.07	33.10	13.83	28.62	9.63	20.25	14.03	13.40	5.72	10.80	18.70
Zero Not at all Important	30.56	32.69	29.36	30.14	17.31	9.34	12.73	34.36	31.68	36.77	39.81	49.16	35.80	9.25	29.36	17.46	10.79	34.28	17.50	41.49	18.93	38.64	24.89	19.80	34.45	13.57
Refused	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00
Don't Know	6.48	6.38	6.45	7.00	0.30	4.06	0.00	5.27	6.39	3.83	10.89	4.37	8.89	1.13	7.50	0.65	15.98	6.08	21.41	4.52	6.20	5.46	6.19	9.07	6.89	4.69
n	*2437*	*1291*	*755*	*391*	*45*	*55*	*13*	*257*	*300*	*140*	*194*	*130*	*854*	*81*	*135*	*125*	*108*	*344*	*104*	*276*	*83*	*307*	*1061*	*262*	*2012*	*425*
<N3F> On a scale of 1-10 please rate your previous experience with the utility the program or a similar utility program?																										
1 Not at all Important	3.39	3.49	3.28	3.73	1.64	3.71	32.92	2.18	4.22	2.16	0.21	0.00	4.12	0.06	8.64	4.80	0.87	3.04	0.33	2.18	8.87	3.61	4.85	0.76	3.45	3.11
2	5.49	4.11	6.76	2.49	0.00	1.66	0.00	6.11	8.97	4.29	6.03	2.36	2.20	2.20	7.63	0.85	0.29	0.99	3.44	15.20	0.23	2.89	1.17	3.00	6.61	0.60
3	3.72	2.88	4.57	1.45	0.00	14.75	0.95	3.81	3.16	2.89	2.99	0.28	3.33	0.91	0.13	7.65	0.01	0.57	1.39	5.80	0.00	1.55	3.20	5.63	3.41	5.07
4	1.43	1.82	1.18	1.59	3.59	3.75	0.00	0.69	0.84	2.83	1.26	1.50	2.48	0.00	2.21	0.82	0.02	4.95	1.94	0.49	0.14	0.81	2.30	1.08	1.30	2.02
5	8.39	12.96	5.21	11.49	46.69	1.15	18.26	10.56	6.48	14.75	2.42	5.82	9.76	4.66	0.19	7.98	8.16	6.27	6.40	3.00	7.27	5.44	13.57	9.57	6.73	15.64
6	2.81	3.30	2.85	0.68	0.00	0.00	0.00	2.04	1.93	0.85	1.36	0.91	5.57	1.63	3.13	15.98	0.41	8.79	0.75	1.70	1.34	9.06	1.35	1.94	3.08	1.59
7	6.66	4.26	7.91	7.77	6.78	11.23	0.97	5.51	6.24	14.20	11.72	2.36	2.64	6.36	2.70	6.83	2.74	2.88	24.28	4.32	22.20	5.65	4.56	11.13	6.51	7.35
8	10.60	10.95	8.76	21.09	2.76	13.39	1.97	15.75	8.11	19.96	5.89	6.64	7.97	23.42	10.93	10.23	38.24	13.09	21.29	7.66	10.39	8.38	10.47	16.73	9.42	15.72
9	8.06	6.34	9.24	7.00	18.24	6.45	19.84	2.27	11.12	1.48	8.36	3.35	6.89	2.82	9.08	3.89	15.14	5.02	3.64	3.83	14.76	3.93	12.43	9.11	7.82	9.12
10 Extremely Important	11.10	9.19	12.58	8.87	12.90	26.17	0.00	10.11	9.25	4.72	10.88	14.96	8.35	37.84	4.69	15.98	13.97	10.63	14.10	9.90	1.99	9.71	13.09	11.35	9.58	17.77
Zero Not at all Important	30.73	33.78	29.13	29.40	5.41	3.87	25.09	36.49	31.49	28.37	42.20	54.18	37.71	18.35	36.50	13.59	15.14	37.50	18.51	39.89	21.96	39.31	25.95	18.91	34.49	14.31
Refused	0.51	0.12	0.83	0.00	0.00	0.00	0.00	0.28	1.42	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	1.83	0.00	0.00	0.00	0.14	0.63	0.00
Don't Know	7.10	6.78	7.70	4.46	1.98	13.88	0.00	4.20	6.77	3.52	6.67	7.66	8.99	1.75	14.19	11.41	5.02	6.28	3.95	4.21	10.85	9.67	7.05	10.65	6.96	7.71
n	*2438*	*1291*	*755*	*392*	*45*	*55*	*13*	*257*	*300*	*140*	*194*	*131*	*854*	*81*	*135*	*125*	*108*	*344*	*104*	*276*	*83*	*307*	*1062*	*262*	*2013*	*425*
<N3G> Information from the program or utility training course?																										
.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
<N3GG> What type of information was provided that was related to the project?																										
Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Refused	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Don't Know	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
<N3GGG> How, specifically, did this enter into your decision to install/delamp this lighting equipment?																										
Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Refused	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Don't Know	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
<N3H> On a scale of 1-10 please rate Information from the program or utility marketing materials?																										
1 Not at all Important	2.22	2.19	2.32	1.60	2.60	3.09	0.00	1.88	2.79	0.52	1.69	5.88	1.92	1.50	4.25	0.13	0.87	2.65	1.79	1.52	2.07	2.98	3.15	0.12	2.34	1.66
2	4.63	6.74	2.65	9.37	14.28	1.66	3.31	4.19	3.18	12.72	1.78	2.96	8.66	5.95	1.99	1.28	9.95	2.52	4.84	3.93	20.75	0.96	5.48	3.74	3.98	7.48
3	5.53	7.57	4.87	2.02	34.72	5.11	0.60	4.23	5.78	3.85	2.96	0.44	3.56	1.15	9.31	4.28	0.46	3.26	2.81	2.95	0.94	7.65	8.47	2.56	4.33	10.77
4	3.45	3.71	3.31	3.39	2.84	3.95	0.00	4.38	1.77	4.97	2.55	3.60	3.94	11.70	0.81	12.01	1.55	4.92	1.55	1.75	0.65	6.38	2.99	6.18	3.37	3.80
5	14.08	16.83	10.49	26.73	8.42	16.95	21.76	17.29	10.01	19.01	11.25	23.42	17.56	6.36	20.91	6.03	43.19	9.79	6.74	13.61	11.26	14.55	16.65	10.60	13.06	18.51

* Values are shown as percent of respondents weighted by kWh.
* n is the number of respondents.

	ALL	PG&E(%)	SCE(%)	SDG&E(%)	PG&E Custom Program(%)	SCE Custom Program(%)	SDG&E Custom Program(%)	PG&E Deemed Program(%)	SCE Deemed Program(%)	SDG&E Deemed Program(%)	SCE Direct Install Program(%)	SDG&E Direct Install Program(%)	PG&E LGP Program(%)	SCE LGP Program(%)	PG&E L3P Program(%)	SCE L3P Program(%)	SDG&E L3P Program(%)	CFL Basic(%)	CFL Reflector(%)	High Bay(%)	HID(%)	LF Delamp(%)	Linear(%)	Occupancy Sensor(%)	Deemed(%)	All Calculated(%)
6	6.62	6.71	6.66	6.00	15.83	18.55	0.00	2.60	6.00	4.56	5.17	0.38	9.75	5.06	2.42	2.00	13.95	3.47	3.69	2.80	1.94	4.59	9.71	11.03	5.54	11.32
7	9.50	8.18	10.86	5.76	10.20	8.05	0.97	6.80	11.96	3.71	8.69	3.36	9.53	2.37	6.57	14.43	12.15	13.99	21.27	12.72	10.79	3.99	7.26	10.95	9.58	9.17
8	15.97	14.59	17.34	12.33	3.29	6.55	21.52	20.66	12.94	14.02	27.24	14.90	11.49	40.51	12.85	27.91	5.23	18.56	24.76	13.89	18.47	23.65	12.31	19.01	16.74	12.59
9	4.63	3.62	5.73	1.45	3.62	8.10	0.00	6.00	6.32	1.34	0.96	1.34	1.89	0.85	0.24	12.08	2.10	2.98	1.29	3.53	1.35	3.98	3.12	14.64	4.72	4.24
10 Extremely Important	11.66	9.72	13.25	8.84	2.31	4.55	10.44	8.26	14.17	10.07	16.56	16.16	10.76	15.62	19.77	8.09	1.26	18.77	7.64	16.80	3.53	10.95	10.61	5.92	12.88	6.34
Zero Not at all Important	15.36	16.23	14.10	20.10	1.89	4.06	41.40	20.16	16.20	20.94	16.85	25.20	17.05	7.38	11.15	6.74	9.31	18.01	21.10	18.72	19.18	16.38	13.08	10.28	17.35	6.66
Refused	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00
Don't Know	6.35	3.91	8.41	2.42	0.00	19.39	0.00	3.56	8.88	4.30	4.30	2.37	3.87	1.56	9.75	5.04	0.01	1.09	2.53	7.78	9.09	3.95	7.18	4.94	6.09	7.48
n	*2439*	*1291*	*755*	*393*	*45*	*55*	*13*	*257*	*300*	*140*	*194*	*132*	*854*	*81*	*135*	*125*	*108*	*345*	*104*	*276*	*83*	*307*	*1062*	*262*	*2014*	*425*
<N3HH> What type of information was provided that pertained to the project?																										
Other - Related	70.15	62.28	75.57	51.16	68.78	88.20	0.00	61.22	69.70	63.22	94.29	31.67	60.93	92.47	65.99	69.04	56.12	51.08	95.07	67.37	22.02	68.64	72.03	79.12	68.81	75.67
Other - Unrelated	16.27	20.62	14.50	13.75	12.34	9.45	0.00	27.69	16.74	0.00	1.01	46.15	15.91	1.16	13.38	25.35	23.19	11.91	4.38	20.81	71.19	11.27	14.89	5.95	17.52	11.14
Other	8.40	11.40	5.72	22.19	18.87	0.05	100.00	7.16	8.25	10.96	0.00	7.32	17.45	6.37	0.00	4.42	20.30	13.27	0.55	6.60	3.03	12.01	10.34	8.17	7.70	11.32
Refused	0.01	0.00	0.00	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.22	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00
Don't Know	5.17	5.70	4.21	12.82	0.00	2.30	0.00	3.93	5.31	25.82	4.70	14.86	5.71	0.00	20.63	1.19	0.16	23.55	0.00	5.23	3.76	8.08	2.74	6.76	5.97	1.87
n	*515*	*250*	*206*	*59*	*10*	*16*	*3*	*47*	*76*	*17*	*35*	*13*	*165*	*11*	*28*	*68*	*26*	*68*	*11*	*71*	*17*	*68*	*209*	*71*	*401*	*114*
<N3HHH> How, specifically, did this enter into your decision to install/delamp this lighting equipment?																										
Other - Related	70.15	62.28	75.57	51.16	68.78	88.20	0.00	61.22	69.70	63.22	94.29	31.67	60.93	92.47	65.99	69.04	56.12	51.08	95.07	67.37	22.02	68.64	72.03	79.12	68.81	75.67
Other - Unrelated	16.27	20.62	14.50	13.75	12.34	9.45	0.00	27.69	16.74	0.00	1.01	46.15	15.91	1.16	13.38	25.35	23.19	11.91	4.38	20.81	71.19	11.27	14.89	5.95	17.52	11.14
Other	8.40	11.40	5.72	22.19	18.87	0.05	100.00	7.16	8.25	10.96	0.00	7.32	17.45	6.37	0.00	4.42	20.30	13.27	0.55	6.60	3.03	12.01	10.34	8.17	7.70	11.32
Refused	0.01	0.00	0.00	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.22	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00
Don't Know	5.17	5.70	4.21	12.82	0.00	2.30	0.00	3.93	5.31	25.82	4.70	14.86	5.71	0.00	20.63	1.19	0.16	23.55	0.00	5.23	3.76	8.08	2.74	6.76	5.97	1.87
n	*515*	*250*	*206*	*59*	*10*	*16*	*3*	*47*	*76*	*17*	*35*	*13*	*165*	*11*	*28*	*68*	*26*	*68*	*11*	*71*	*17*	*68*	*209*	*71*	*401*	*114*
<N3J> On a scale of 1-10 please rate standard practice in your business/industry																										
1 Not at all Important	2.78	1.52	3.66	1.98	2.18	1.15	0.00	0.83	5.41	2.06	1.44	7.17	2.36	0.98	0.69	0.00	0.00	0.71	0.00	4.43	2.27	3.82	1.89	1.21	3.27	1.00
2	2.18	2.63	1.37	5.64	0.00	0.00	0.00	0.65	1.22	0.00	2.92	20.70	6.31	0.00	1.24	1.90	7.83	0.25	0.05	1.26	0.25	1.16	4.05	1.39	1.66	4.05
3	5.15	7.82	3.62	4.80	17.73	0.00	0.00	4.52	3.03	4.75	1.83	3.66	8.89	0.00	6.37	14.32	6.19	0.65	0.00	2.10	0.66	16.88	5.50	4.40	5.18	5.01
4	2.69	2.75	2.91	1.01	3.40	0.00	0.00	1.28	0.19	0.43	17.90	2.69	3.51	7.31	5.53	0.16	1.27	2.35	0.60	2.32	3.49	8.77	1.64	1.32	2.89	1.94
5	11.45	13.49	10.85	7.49	25.84	11.89	0.00	15.35	10.23	8.16	17.39	10.69	10.18	3.38	2.80	6.29	6.54	8.29	37.44	12.20	10.27	3.93	11.91	11.14	11.04	12.95
6	3.70	5.08	2.93	3.33	7.02	0.67	0.00	5.22	4.68	6.76	0.00	1.64	5.28	0.00	1.54	0.08	0.01	0.71	0.00	4.98	1.41	3.48	2.75	5.23	4.12	2.14
7	9.52	11.07	8.32	11.33	20.49	5.38	30.93	15.56	10.09	15.77	4.80	4.30	5.15	10.06	1.85	5.76	4.89	4.37	33.72	10.57	15.22	2.57	9.17	8.68	9.80	8.49
8	15.93	13.59	17.09	17.46	11.54	32.31	32.92	12.55	17.36	13.34	3.67	1.88	14.36	13.50	17.64	18.11	26.96	11.89	4.20	10.31	6.50	11.90	18.75	31.60	14.44	21.39
9	8.36	4.97	9.96	10.97	5.97	9.21	14.07	2.68	13.60	8.37	1.62	3.61	7.15	0.26	5.81	3.69	17.09	2.59	0.00	8.45	18.82	3.54	10.54	5.14	7.56	11.29
10 Extremely Important	14.37	15.54	13.77	13.79	1.14	20.57	22.09	17.73	8.66	14.36	15.90	7.55	12.44	57.68	33.90	21.64	14.21	40.56	18.36	12.15	12.43	17.46	15.77	9.19	13.23	18.54
Zero Not at all Important	14.72	10.72	17.14	14.38	4.68	2.96	0.00	10.68	19.30	22.57	23.94	26.71	13.57	5.40	8.04	13.88	0.58	21.85	5.31	21.48	12.17	11.62	10.76	13.14	17.79	3.45
Don't Know	9.16	10.82	8.39	7.82	0.00	15.87	0.00	12.95	6.23	3.43	8.59	9.40	10.80	1.43	14.60	14.18	14.44	5.79	0.31	9.75	16.52	14.88	7.28	7.58	9.00	9.75
n	*1162*	*591*	*410*	*161*	*24*	*35*	*6*	*114*	*162*	*55*	*74*	*42*	*386*	*29*	*67*	*110*	*58*	*141*	*22*	*172*	*51*	*136*	*489*	*151*	*898*	*264*
<N3L> A suggestion by your account representative																										
1 Not at all Important	5.65	5.54	6.49	1.71	27.18	14.88	0.00	0.25	5.68	2.76	0.00	1.32	5.62	1.44	0.20	6.16	0.60	8.46	0.00	0.02	16.57	6.42	10.49	0.25	4.57	9.86
2	4.71	3.53	4.57	10.02	1.11	1.02	0.00	2.21	5.89	20.76	0.00	0.28	5.38	4.96	1.36	1.77	0.10	2.20	12.80	2.01	41.32	0.89	3.65	9.83	5.68	0.91
3	6.60	9.78	5.14	1.73	38.98	0.00	0.00	4.23	5.91	3.59	34.66	0.00	8.78	2.84	0.00	0.56	0.01	0.21	0.00	7.61	0.00	4.23	8.45	3.60	6.07	8.71
4	1.32	1.35	1.34	1.11	0.00	1.70	0.00	0.86	1.03	1.77	12.29	1.69	2.18	0.01	0.00	0.81	0.00	0.25	23.25	0.23	5.27	2.02	0.81	2.86	1.34	1.24
5	14.42	7.77	19.77	12.75	21.01	33.13	0.60	4.68	21.58	9.03	0.00	1.49	7.21	8.86	10.08	7.03	26.93	15.34	0.43	23.75	1.17	3.32	13.20	10.86	12.54	21.75
6	3.97	4.13	3.72	4.66	0.52	14.10	0.00	4.28	3.07	6.59	0.00	4.82	4.34	2.17	9.52	0.08	2.50	1.96	4.78	3.46	0.90	5.11	3.20	7.58	3.79	4.68
7	6.29	4.54	7.50	6.87	2.63	12.36	0.00	5.97	5.52	5.42	0.00	2.65	3.85	4.48	3.45	15.06	12.76	7.01	6.49	3.40	1.87	15.19	4.94	9.42	5.76	8.35
8	11.13	11.49	8.90	21.20	0.00	4.92	2.04	14.21	8.65	6.52	4.46	37.77	9.49	9.09	37.72	13.77	39.85	13.69	32.77	10.43	9.33	11.54	10.56	13.01	10.70	12.79
9	9.56	10.19	9.26	8.69	6.37	12.22	0.00	16.43	7.91	10.75	0.00	18.14	6.50	1.49	1.93	16.42	2.34	4.43	0.74	6.83	0.58	10.05	12.48	9.82	9.66	9.16
10 Extremely Important	11.49	15.55	8.51	11.07	2.19	5.06	8.22	16.96	5.91	11.68	0.71	5.57	15.70	41.72	34.43	18.42	13.51	19.93	5.88	12.27	13.79	11.80	13.00	2.86	11.61	11.05
Zero Not at all Important	15.14	15.81	14.14	17.65	0.00	0.00	89.13	17.93	17.35	18.98	47.88	18.14	18.85	22.74	0.82	2.03	0.55	15.67	12.86	19.13	3.61	15.46	11.46	19.74	17.15	7.27
66	5.13	6.52	4.87	1.04	0.00	0.00	0.00	4.53	7.03	0.48	0.00	3.60	10.16	0.11	0.50	0.15	0.82	5.02	0.00	6.56	4.72	5.93	5.06	1.43	6.04	1.55
Don't Know	4.60	3.82	5.79	1.52	0.00	0.59	0.00	7.46	4.49	1.68	0.00	4.52	1.93	0.10	0.00	17.74	0.03	5.82	0.00	4.31	0.88	8.04	2.73	8.75	5.09	2.68
n	*1434*	*894*	*336*	*204*	*20*	*30*	*5*	*157*	*175*	*69*	*8*	*56*	*670*	*47*	*47*	*76*	*74*	*232*	*32*	*161*	*35*	*173*	*656*	*145*	*1147*	*287*
<N3LL> What did they recommend?																										
Other - Related	63.85	71.15	61.40	50.76	80.94	86.99	100.00	79.43	55.82	15.69	100.00	22.82	64.77	89.88	42.55	52.86	84.78	50.60	0.00	75.32	77.98	42.11	67.75	48.68	58.70	79.70
Other - Unrelated	14.34	9.71	15.07	25.79	0.00	12.93	0.00	2.54	2.45	29.97	0.00	55.51	10.96	10.12	57.45	39.30	14.79	35.88	0.00	3.33	22.02	28.75	13.41	22.39	14.19	14.82
Other	14.95	13.40	15.19	18.76	19.06	0.09	0.00	16.89	26.52	43.96	0.00	15.67	10.84	0.00	0.00	5.79	0.44	12.14	45.08	19.82	0.00	26.26	5.76	25.24	18.06	5.38
Refused	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Don't Know	6.86	5.74	8.34	4.69	0.00	0.00	0.00	1.14	15.22	10.38	0.00	6.00	13.43	0.00	0.00	2.04	0.00	1.38	54.92	1.52	0.00	2.89	13.09	3.69	9.06	0.10

* Values are shown as percent of respondents weighted by kWh.
* n is the number of respondents.

	ALL	PG&E(%)	SCE(%)	SDG&E(%)	PG&E Custom Program(%)	SCE Custom Program(%)	SDG&E Custom Program(%)	PG&E Deemed Program(%)	SCE Deemed Program(%)	SDG&E Deemed Program(%)	SCE Direct Install Program(%)	SDG&E Direct Install Program(%)	PG&E LGP Program(%)	SCE LGP Program(%)	PG&E L3P Program(%)	SCE L3P Program(%)	SDG&E L3P Program(%)	CFL Basic(%)	CFL Reflector(%)	High Bay(%)	HID(%)	LF Delamp(%)	Linear(%)	Occupancy Sensor(%)	Deemed(%)	All Calculated(%)
n	*328*	*177*	*107*	*44*	*5*	*16*	*1*	*32*	*38*	*14*	*2*	*9*	*126*	*9*	*14*	*42*	*20*	*45*	*4*	*48*	*11*	*42*	*139*	*39*	*234*	*94*
<N3LLL> How, specifically, did this enter into your decision to install/delamp this lighting equipment?																										
Other - Related	61.53	64.30	62.21	50.67	75.79	58.76	100.00	63.59	53.44	17.51	100.00	70.80	63.13	80.80	69.71	74.39	67.30	51.90	0.00	70.60	87.76	59.26	61.38	38.41	61.79	60.83
Other - Unrelated	11.02	12.06	8.26	17.90	5.15	25.57	0.00	19.32	4.93	0.00	0.00	12.53	2.63	19.20	7.63	2.26	32.26	0.00	0.00	7.50	6.78	9.34	13.13	17.34	9.03	16.57
Other	15.01	11.64	16.58	19.51	19.06	0.09	0.00	13.40	31.28	49.05	0.00	15.77	10.83	0.00	0.00	5.92	0.32	11.49	70.76	19.60	0.00	21.57	6.57	26.21	18.48	5.28
Refused	0.01	0.01	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.04	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02
Don't Know	5.23	5.76	3.22	10.94	0.00	0.00	0.00	3.69	1.88	30.67	0.00	0.90	5.73	0.00	22.67	7.55	0.07	0.58	29.24	1.94	5.46	6.52	3.57	17.87	6.57	1.47
n	*298*	*160*	*99*	*39*	*5*	*16*	*1*	*31*	*36*	*10*	*2*	*8*	*110*	*9*	*14*	*36*	*20*	*42*	*3*	*46*	*11*	*35*	*127*	*34*	*208*	*90*
<N3M> How, specifically, did this enter into your decision to install this lighting equipment?																										
1 Not at all Important	2.27	2.27	2.23	2.54	1.84	1.15	0.00	2.25	2.71	0.00	2.57	10.36	2.42	2.95	2.35	0.00	3.10	0.77	0.05	2.51	2.27	3.64	1.79	2.43	2.48	1.52
2	3.39	4.70	2.15	6.36	0.00	0.67	0.00	3.24	2.73	1.69	2.80	23.14	7.60	0.00	6.22	0.09	6.63	1.07	0.00	4.59	0.00	0.58	4.07	2.99	3.85	1.71
3	2.31	3.41	1.67	2.27	0.00	0.45	0.00	5.74	1.80	3.55	1.39	4.44	2.71	0.00	0.00	3.05	0.01	0.28	0.00	2.05	3.09	1.84	2.42	3.53	2.88	0.22
4	2.92	3.44	3.01	0.35	3.40	0.00	0.00	4.51	0.83	0.38	17.05	1.17	2.84	1.63	1.04	0.02	0.01	4.44	1.27	2.72	0.00	6.53	1.00	6.67	3.35	1.33
5	14.19	7.72	18.13	13.48	11.64	11.21	0.00	8.07	22.40	20.78	17.57	14.80	5.33	10.41	9.98	3.85	5.43	5.81	34.96	20.16	25.87	3.98	11.29	10.15	15.41	9.70
6	4.62	2.75	6.24	1.35	0.82	17.56	0.00	2.35	4.56	2.04	0.15	0.00	4.63	2.56	0.09	12.81	1.23	0.13	0.55	2.04	1.43	10.16	4.22	9.79	4.30	5.79
7	7.02	9.95	6.04	2.22	32.09	4.71	1.62	11.79	6.42	1.33	3.12	0.85	1.74	4.83	4.92	9.60	4.10	0.70	33.69	5.68	0.66	5.41	8.81	5.07	6.25	9.85
8	8.68	10.96	5.93	17.60	28.22	18.17	62.23	5.33	4.23	18.59	3.08	5.43	11.87	3.27	11.26	6.91	13.62	6.15	4.06	2.36	10.18	8.58	13.05	13.00	5.83	19.10
9	12.05	8.96	13.95	11.56	10.32	9.77	0.00	14.23	18.97	8.65	1.12	4.16	4.56	2.82	0.61	10.06	20.65	6.49	0.00	15.78	16.45	1.73	11.14	16.00	12.10	11.84
10 Extremely Important	10.78	13.86	8.82	11.65	1.14	14.81	22.09	10.93	4.50	7.10	7.67	22.31	15.21	59.93	36.33	15.64	11.44	33.09	8.05	6.28	17.76	6.31	15.36	7.96	9.21	16.53
Zero Not at all Important	23.03	26.26	22.54	13.96	10.52	10.87	14.07	29.27	23.54	24.13	33.56	10.38	30.18	6.25	18.40	18.61	1.73	33.82	17.06	30.28	12.61	31.43	17.94	14.55	25.97	12.25
Refused	0.20	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.33	0.00	0.00	0.00	0.00	0.00	1.78	0.00	0.00	0.26	0.00
Don't Know	8.55	5.74	8.95	16.67	0.00	10.62	0.00	2.29	7.33	11.76	9.93	2.96	10.94	5.35	8.80	16.04	32.06	7.27	0.31	5.55	9.69	18.04	8.93	7.86	8.11	10.16
n	*1160*	*590*	*410*	*160*	*24*	*35*	*6*	*114*	*162*	*55*	*74*	*42*	*385*	*29*	*67*	*110*	*57*	*139*	*22*	*172*	*51*	*136*	*489*	*151*	*897*	*263*
<N3MM> How, specifically, did this enter into your decision to install/delamp this lighting equipment?																										
Other - Related	30.54	32.54	28.41	35.13	61.26	41.37	79.79	17.16	26.52	35.14	28.71	0.00	33.77	20.68	37.79	21.81	31.55	16.67	17.36	24.78	24.14	10.09	38.50	33.79	21.57	50.16
Other - Unrelated	62.75	58.58	65.76	61.61	37.18	49.37	20.21	76.85	68.13	62.56	71.29	80.42	48.92	79.32	52.46	70.65	67.71	75.40	80.54	70.62	73.37	80.65	53.99	58.12	71.03	44.65
Other	3.68	5.27	2.96	1.57	1.57	0.04	0.00	3.01	3.79	0.20	0.00	13.05	12.98	0.00	0.00	5.49	0.27	2.24	0.00	0.89	0.00	8.86	3.73	6.86	4.67	1.51
Refused	0.01	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.15	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00
Don't Know	3.92	3.60	4.53	1.64	0.00	9.22	0.00	2.97	1.57	2.10	0.00	6.53	4.34	0.00	9.75	13.65	0.32	5.43	2.10	3.72	2.49	0.40	5.83	1.23	4.04	3.68
n	*433*	*205*	*163*	*65*	*14*	*23*	*5*	*37*	*58*	*20*	*16*	*13*	*125*	*15*	*29*	*51*	*27*	*43*	*6*	*56*	*25*	*53*	*187*	*63*	*308*	*125*
<N3N> Please rate the degree of importance of payback or return on investment of installing this lighting equipment…?																										
1 Not at all Important	0.15	0.41	0.01	0.05	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	1.01	0.00	0.00	0.16	0.19	0.00	0.30	0.00	2.23	0.25	0.08	0.01	0.18	0.03
2	0.61	0.56	0.54	1.33	0.00	0.60	0.00	0.37	0.50	0.26	0.91	2.11	1.05	0.00	0.00	0.03	2.93	0.26	0.28	0.00	0.00	0.79	0.71	1.83	0.62	0.61
3	0.47	0.86	0.18	0.81	0.00	0.00	8.48	1.12	0.22	0.00	0.08	0.50	1.02	0.00	0.00	0.37	0.25	0.89	0.30	0.22	0.50	0.61	0.22	1.53	0.46	0.49
4	1.92	1.32	2.54	0.16	3.41	0.00	0.00	0.28	2.59	0.26	3.04	0.20	2.22	1.34	0.00	4.14	0.00	1.94	0.33	1.05	0.00	3.34	2.65	0.93	1.97	1.66
5	3.57	4.90	2.60	4.72	4.45	0.45	0.00	3.76	1.15	2.34	5.66	13.68	5.92	7.99	6.17	5.67	3.73	6.11	1.20	1.52	3.61	4.83	4.45	4.00	3.39	4.34
6	3.62	6.55	2.21	1.54	15.80	2.23	0.00	5.56	2.47	2.32	2.54	0.60	5.96	0.45	3.30	0.20	1.31	1.45	23.46	1.44	1.43	1.74	4.80	2.97	3.20	5.43
7	6.93	7.23	6.91	5.87	25.87	1.89	17.66	4.09	10.30	6.74	1.92	2.06	6.92	2.37	2.20	3.16	3.81	4.19	5.27	9.74	1.53	1.77	5.77	12.79	6.67	8.04
8	16.38	18.95	14.21	20.53	5.70	18.31	37.71	16.46	12.82	25.12	17.09	20.72	24.92	14.91	19.75	11.96	8.07	28.27	13.45	15.32	7.36	14.96	16.98	19.11	16.89	14.14
9	12.55	15.03	10.94	13.50	12.44	12.78	5.87	18.95	11.57	13.11	8.59	9.60	12.71	5.70	10.16	11.93	18.97	5.11	21.64	8.36	18.92	10.76	16.61	9.27	11.68	16.36
10 Extremely Important	47.07	38.24	52.17	47.88	32.14	57.32	10.44	41.29	51.11	47.43	47.89	47.07	32.38	63.98	55.24	60.03	59.47	33.21	23.30	56.68	59.67	55.57	43.43	32.71	47.33	45.92
Zero Not at all Important	2.71	3.65	2.34	1.52	0.19	0.12	0.00	5.92	1.49	1.59	5.97	2.38	2.72	2.78	1.28	1.76	1.20	16.59	5.10	2.76	3.67	1.52	1.84	2.45	3.27	0.30
Don't Know	4.03	2.30	5.35	2.11	0.00	6.31	19.84	2.15	5.79	0.83	6.31	1.08	3.17	0.48	1.91	0.61	0.07	1.98	5.37	2.91	1.07	3.86	2.47	12.42	4.34	2.68
n	*2439*	*1291*	*755*	*393*	*45*	*55*	*13*	*257*	*300*	*140*	*194*	*132*	*854*	*81*	*135*	*125*	*108*	*345*	*104*	*276*	*83*	*307*	*1062*	*262*	*2014*	*425*
<N3O> To Improve production as a result of lighting?																										
1 Not at all Important	1.16	1.79	0.88	0.55	0.00	0.00	0.00	0.29	1.31	0.12	0.26	1.22	0.79	1.81	14.26	0.14	0.95	1.83	0.38	0.03	0.00	0.80	2.52	0.37	0.80	2.73
2	0.98	1.47	0.75	0.56	0.00	0.00	0.00	1.91	0.87	0.15	0.90	2.54	1.72	1.68	0.06	0.10	0.02	0.66	1.26	0.30	3.90	0.27	0.79	2.99	1.18	0.10
3	1.21	1.59	1.07	0.65	0.00	0.45	0.00	0.88	1.53	0.99	0.34	0.04	1.83	1.24	5.36	0.37	0.70	3.13	0.30	1.18	0.70	0.65	1.45	1.14	1.24	1.09
4	1.73	1.94	1.48	2.57	0.00	6.14	0.00	2.24	0.83	2.23	1.18	2.13	2.40	4.40	0.86	0.49	4.16	5.91	0.60	0.67	1.86	0.21	1.41	6.10	1.37	3.32
5	6.45	7.89	4.33	14.65	3.80	5.61	32.92	7.30	2.30	4.19	8.56	27.53	7.10	11.85	18.04	4.11	18.02	15.14	13.70	2.62	10.87	5.56	8.42	4.85	5.82	9.22
6	4.01	4.63	3.54	4.73	0.02	0.07	0.00	6.66	4.60	4.45	1.44	1.83	4.14	0.90	2.75	6.05	8.51	1.72	17.58	4.11	0.22	1.92	4.57	2.60	4.37	2.45
7	9.90	12.45	7.98	12.55	37.40	12.04	37.50	9.46	8.72	13.73	2.46	5.07	10.46	7.18	6.81	11.96	8.92	7.41	2.34	8.80	3.07	6.31	10.31	19.85	7.94	18.45
8	23.98	25.28	23.57	21.63	47.16	26.50	12.76	19.29	23.82	19.06	18.17	11.32	26.65	12.21	22.36	35.05	35.52	11.35	17.24	20.03	5.38	27.90	28.70	24.09	22.56	30.17
9	9.97	8.67	11.51	5.04	6.23	25.79	2.57	11.05	10.23	7.85	12.49	4.06	6.82	3.71	8.46	4.40	1.72	8.21	23.68	9.39	7.63	9.67	11.76	3.72	9.68	11.27
10 Extremely Important	35.49	29.59	39.18	34.24	3.57	16.97	0.95	38.48	40.91	46.28	44.97	37.98	29.76	50.70	18.14	34.77	20.84	31.80	21.77	45.51	61.41	42.71	25.91	30.72	39.90	16.28
Zero Not at all Important	4.03	4.27	4.16	2.28	1.17	0.00	9.49	1.89	3.78	0.91	7.99	5.09	8.02	3.88	2.81	2.30	0.61	12.72	1.15	5.03	4.92	2.63	3.67	2.99	4.32	2.77
Refused	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Don't Know	1.08	0.43	1.55	0.55	0.65	6.42	3.82	0.56	1.09	0.04	1.26	1.20	0.32	0.43	0.10	0.27	0.04	0.11	0.00	2.34	0.03	1.37	0.48	0.58	0.83	2.17

* Values are shown as percent of respondents weighted by kWh.
* n is the number of respondents.

	ALL	PG&E(%)	SCE(%)	SDG&E(%)	PG&E Custom Program(%)	SCE Custom Program(%)	SDG&E Custom Program(%)	PG&E Deemed Program(%)	SCE Deemed Program(%)	SDG&E Deemed Program(%)	SCE Direct Install Program(%)	SDG&E Direct Install Program(%)	PG&E LGP Program(%)	SCE LGP Program(%)	PG&E L3P Program(%)	SCE L3P Program(%)	SDG&E L3P Program(%)	CFL Basic(%)	CFL Reflector(%)	High Bay(%)	HID(%)	LF Delamp(%)	Linear(%)	Occupancy Sensor(%)	Deemed(%)	All Calculated(%)
n	*2439*	*1291*	*755*	*393*	*45*	*55*	*13*	*257*	*300*	*140*	*194*	*132*	*854*	*81*	*135*	*125*	*108*	*345*	*104*	*276*	*83*	*307*	*1062*	*262*	*2014*	*425*
<N3OO> How, specifically, did this enter into your decision to install/delamp this lighting equipment?																										
Other - Related	39.65	43.02	38.85	32.10	36.99	40.88	78.17	44.49	38.01	27.98	42.12	30.24	42.83	65.96	45.21	28.66	32.35	38.66	52.73	52.54	22.43	37.98	34.99	26.12	38.69	44.15
Other - Unrelated	47.49	46.59	47.75	49.18	61.80	56.90	21.83	44.73	42.79	46.63	53.61	42.63	42.38	33.97	54.79	61.94	63.24	51.36	45.39	34.28	59.75	45.25	54.88	56.43	46.77	50.87
Other	10.33	9.03	10.95	11.02	1.21	0.11	0.00	9.45	17.59	12.60	0.00	24.15	12.73	0.00	0.00	4.31	2.82	7.05	1.53	10.95	0.00	12.13	9.06	16.19	11.67	4.07
Refused	0.11	0.34	0.00	0.01	0.00	0.00	0.00	0.75	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.05	0.06	0.00	0.37	0.00	0.02	0.00	0.03	0.14	0.00
Don't Know	2.50	1.26	2.46	7.69	0.00	2.11	0.00	0.59	1.61	12.78	4.27	2.99	2.02	0.06	3.58	5.08	1.53	2.87	0.35	1.87	17.83	5.17	1.07	1.23	2.84	0.91
n	*1906*	*1001*	*595*	*310*	*36*	*46*	*9*	*208*	*246*	*117*	*143*	*100*	*651*	*58*	*106*	*102*	*84*	*255*	*77*	*233*	*62*	*246*	*828*	*205*	*1572*	*334*
<N3P> Compliance with state or federal regulations or standards such as Title 24?																										
.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
<N3PP> How, specifically, did this enter into your decision to install/delamp this lighting equipment?																										
Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Refused	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Don't Know	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
<N3R> Compliance with your organization's normal remodeling or lighting replacement practices?																										
1 Not at all Important	2.61	0.00	3.67	0.00	0.00	12.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	19.31	0.00	4.99
2	1.17	0.00	0.00	8.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.75	0.00	0.00	0.00	0.00	0.00	2.76	0.00	0.00	2.25
4	6.94	0.00	7.77	9.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	49.39	13.02	0.00	0.00	0.00	0.00	52.72	5.86	0.00	9.31	4.77
5	15.93	28.93	11.51	24.62	16.98	40.39	0.00	0.00	0.00	98.08	0.00	0.00	57.74	0.00	0.00	0.00	0.00	0.00	0.00	0.00	35.90	0.00	27.00	6.51	7.51	23.65
6	7.05	0.00	9.82	0.48	0.00	0.00	0.00	0.00	19.74	1.92	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.83	0.00	51.72	14.75	0.00
7	2.24	7.62	1.61	0.00	0.00	5.64	0.00	0.00	0.00	0.00	0.00	0.00	19.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.28	0.00	0.00	4.29
8	14.81	0.00	18.29	12.54	0.00	11.75	0.00	0.00	17.10	0.00	0.00	0.00	0.00	16.07	0.00	34.72	16.74	0.00	0.00	0.00	38.31	45.98	9.79	21.86	20.76	9.37
9	1.47	0.56	1.96	0.00	1.55	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.73	0.00	0.00	0.00	0.00	0.00	0.00	3.27	0.60	0.00	2.82
10 Extremely Important	6.34	9.09	7.08	0.00	0.00	0.00	0.00	0.00	4.04	0.00	0.00	0.00	22.98	83.93	0.00	0.22	0.00	0.00	0.00	0.00	14.29	0.29	11.50	0.00	3.04	9.36
Zero Not at all Important	30.24	53.80	31.66	0.00	81.47	5.67	0.00	0.00	59.12	0.00	0.00	0.00	0.00	0.00	100.00	3.94	0.00	0.00	0.00	81.59	11.50	0.17	19.26	0.00	44.64	17.06
Don't Know	11.21	0.00	6.64	44.56	0.00	23.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	59.49	0.00	0.00	18.41	0.00	0.00	15.28	0.00	0.00	21.46
n	*42*	*7*	*26*	*9*	*3*	*11*	*0*	*0*	*5*	*2*	*0*	*0*	*3*	*3*	*1*	*7*	*7*	*0*	*0*	*3*	*5*	*5*	*22*	*7*	*12*	*30*
<N3RR> How, specifically, did this enter into your decision to install/delamp this lighting equipment?																										
Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Refused	100.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	100.00
Don't Know	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	*1*	*0*	*1*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*1*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*1*	*0*	*1*
<N3S> Were there any other factors we haven't discussed that was influential in your decision to install this lighting equipment?																										
Other - Related	87.86	89.06	86.68	90.88	82.47	77.26	98.46	91.34	86.91	94.78	87.19	94.96	89.83	88.49	83.15	93.68	79.48	93.73	98.54	87.83	75.04	87.97	87.85	87.30	89.00	82.87
Other - Unrelated	11.66	10.79	12.65	8.61	17.53	22.74	1.54	8.15	12.87	4.31	10.24	4.59	10.17	11.04	17.59	6.32	20.48	6.16	1.47	11.96	24.96	9.60	12.29	11.66	10.46	16.89
Other	0.34	0.68	0.14	0.35	0.00	0.00	0.00	0.55	0.22	0.00	0.00	0.36	1.18	0.43	0.00	0.00	1.01	0.39	0.00	0.08	0.00	0.56	0.28	1.07	0.34	0.36
Refused	0.04	0.00	0.00	0.42	0.00	0.00	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00	0.05	0.00
Don't Know	0.31	0.01	0.53	0.02	0.00	0.00	0.00	0.00	0.00	0.00	2.57	0.09	0.01	0.05	0.00	0.00	0.00	0.06	0.00	0.00	0.00	2.14	0.01	0.00	0.38	0.00
n	*2439*	*1291*	*755*	*393*	*45*	*55*	*13*	*257*	*300*	*140*	*194*	*132*	*854*	*81*	*135*	*125*	*108*	*345*	*104*	*276*	*83*	*307*	*1062*	*262*	*2014*	*425*
<N3SS> Using the same Zero to 10 scale, how would you rate the influence of this factor?																										
1 Not at all Important	0.01	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.01	0.00
2	0.04	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00	0.00	0.00	0.00	2.51	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.00
3	0.33	1.02	0.00	0.00	0.00	0.00	0.00	2.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.89	0.00	0.44	0.00
4	0.67	0.01	0.89	1.81	0.00	0.00	0.00	0.00	1.38	7.33	0.00	0.00	0.03	0.00	0.00	1.29	0.00	0.19	29.95	0.00	0.00	0.00	1.44	0.00	0.90	0.00
5	4.97	6.86	4.12	3.59	0.00	1.99	0.00	17.65	6.29	14.50	0.00	0.00	1.34	0.00	0.00	0.00	0.00	6.33	0.00	3.85	22.92	11.87	0.99	1.33	6.38	0.73
6	3.77	6.02	1.58	11.76	19.25	0.00	91.96	1.71	1.83	0.00	2.59	0.00	7.13	0.00	0.00	0.25	0.04	0.40	0.00	3.49	0.00	1.40	7.00	0.00	1.99	9.10
7	3.01	4.63	1.84	5.40	0.00	0.00	0.00	5.49	1.79	3.80	3.50	10.34	6.15	5.19	3.19	0.00	6.49	2.48	0.00	1.38	3.56	1.27	5.35	1.22	2.92	3.25
8	18.91	24.02	17.06	11.61	18.09	0.00	0.00	19.59	27.44	17.57	0.00	0.00	31.26	16.36	22.80	0.00	14.00	8.04	18.92	8.65	21.98	10.37	16.42	58.54	20.01	15.63
9	6.44	9.58	4.71	6.80	47.73	0.16	0.00	1.34	3.99	17.96	8.09	13.22	4.97	3.97	2.45	18.83	1.85	2.31	21.23	5.42	3.73	1.17	8.26	10.27	5.17	10.25
10 Extremely Important	61.66	47.67	69.52	58.98	14.93	97.85	8.04	51.40	56.87	38.84	85.49	76.11	48.63	74.47	71.57	79.63	77.62	77.75	29.31	76.69	47.70	73.92	59.53	28.64	61.88	61.01
Zero Not at all Important	0.04	0.00	0.06	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.32	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.09	0.00	0.05	0.00
Don't Know	0.16	0.03	0.25	0.00	0.00	0.00	0.00	0.00	0.41	0.00	0.00	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.52	0.11	0.00	0.00	0.00	0.20	0.03
n	*315*	*170*	*101*	*44*	*9*	*8*	*3*	*31*	*38*	*16*	*25*	*13*	*109*	*20*	*21*	*10*	*12*	*41*	*9*	*39*	*13*	*43*	*139*	*31*	*247*	*68*

* Values are shown as percent of respondents weighted by kWh.
* n is the number of respondents.

	ALL	PG&E(%)	SCE(%)	SDG&E(%)	PG&E Custom Program(%)	SCE Custom Program(%)	SDG&E Custom Program(%)	PG&E Deemed Program(%)	SCE Deemed Program(%)	SDG&E Deemed Program(%)	SCE Direct Install Program(%)	SDG&E Direct Install Program(%)	PG&E LGP Program(%)	SCE LGP Program(%)	PG&E L3P Program(%)	SCE L3P Program(%)	SDG&E L3P Program(%)	CFL Basic(%)	CFL Reflector(%)	High Bay(%)	HID(%)	LF Delamp(%)	Linear(%)	Occupancy Sensor(%)	Deemed(%)	All Calculated(%)
<CC1> You indicated earlier that compliance with codes or regulatory policies was one of the reasons you did the project. However, just now you scored the importance of compliance with state or federal regulations or standards such as Title 24 in your dec																										
Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Refused	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Don't Know	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
<CC1A>																										
Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Refused	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Don't Know	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
<NCC3> You indicated earlier that a regularly scheduled retrofit was one of the reasons you did the project. However, just now you scored the importance of compliance with your companies regularly schedule retrofit or lighting replacement in your decision																										
Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Refused	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Don't Know	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
<P1> What financial calculations does your company typically make before proceeding with the installation of lighting equipment like you installed through the program?																										
Payback	40.71	45.89	34.74	55.34	47.43	33.38	67.08	44.74	33.22	42.16	0.00	24.59	51.40	83.70	27.60	28.00	68.59	27.90	56.26	32.51	54.42	31.53	46.92	44.81	37.05	49.28
Return on Investment (ROI)	58.08	66.79	53.66	50.78	78.80	47.06	32.92	70.58	53.25	54.20	57.56	24.82	55.79	58.65	64.85	74.65	50.31	41.39	97.61	56.82	83.03	47.84	58.33	57.48	57.28	59.96
upfront Costs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
No Calculations	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other	20.69	13.09	28.02	7.31	20.90	34.11	0.00	4.68	29.34	2.93	0.00	21.50	18.74	0.28	18.18	15.63	12.30	14.81	1.04	26.94	3.31	7.12	17.17	32.16	20.72	20.62
Refused	0.31	0.00	0.34	1.33	0.00	0.00	0.00	0.00	0.47	2.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.77	0.00	0.44	0.00
Don't Know	7.71	8.10	5.92	16.47	0.00	7.51	0.00	11.53	5.84	26.30	42.44	29.09	8.81	2.04	4.63	0.47	7.90	17.49	0.00	6.19	2.85	20.68	7.43	5.99	9.21	4.18
n	*686*	*402*	*198*	*86*	*24*	*33*	*5*	*73*	*102*	*32*	*4*	*6*	*268*	*22*	*37*	*37*	*43*	*82*	*6*	*104*	*36*	*67*	*303*	*88*	*473*	*213*
<P2A> What is your threshold in terms of the payback or return on investment your company uses before deciding to proceed with an investment?																										
0 to 6 months	3.49	3.04	4.07	2.68	0.00	0.00	0.00	1.16	5.72	0.00	0.00	100.00	6.47	0.00	7.79	0.00	4.05	11.20	2.39	0.92	2.36	0.00	6.84	0.00	4.79	0.68
6 months to 1 year	4.83	6.07	4.95	0.03	0.00	0.00	0.00	8.14	5.68	0.00	0.00	0.00	7.35	6.15	3.81	4.81	0.07	49.22	0.00	6.01	0.00	26.68	2.46	0.00	6.22	1.83
1 to 2 years	32.73	35.36	35.61	11.77	12.22	0.00	65.15	64.30	47.04	3.65	0.00	0.00	13.90	1.96	19.54	35.73	9.94	4.06	94.77	62.05	4.11	18.03	22.84	13.77	42.80	10.96
2 to 3 years	11.76	10.70	14.10	5.83	6.90	53.93	0.00	6.51	9.63	0.00	0.00	0.00	15.97	0.00	25.21	5.30	12.82	3.51	0.00	12.62	12.63	0.03	15.62	2.74	9.56	16.52
3 to 5 years OR	19.51	23.09	14.76	26.60	24.35	7.85	3.59	16.82	8.64	31.86	0.00	0.00	27.41	71.80	41.67	0.00	26.22	16.16	2.84	10.31	27.10	25.53	21.26	30.80	15.32	28.55
Over 5 years	8.70	9.02	7.91	10.86	46.66	24.96	0.00	0.00	0.00	4.91	0.00	0.00	0.07	20.10	0.00	48.75	19.01	15.77	0.00	2.08	0.09	0.00	16.25	7.76	2.01	23.18
Refused	0.88	2.08	0.07	0.00	9.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00	0.00	1.39	0.00	0.00	0.00	0.00	1.06	0.00	1.87	0.00	0.15	2.43
Don't Know	18.11	10.65	18.52	42.24	0.00	13.26	31.26	3.08	23.29	59.58	0.00	0.00	28.30	0.00	1.98	4.02	27.88	0.10	0.00	6.01	52.65	29.72	12.85	44.92	19.15	15.85
n	*237*	*138*	*67*	*32*	*10*	*10*	*3*	*24*	*31*	*11*	*0*	*1*	*92*	*12*	*12*	*14*	*17*	*20*	*3*	*32*	*16*	*19*	*119*	*28*	*150*	*87*
<P2B> What is your ROI?																										
0	5.71	0.00	5.87	0.98	0.00	0.00	0.00	0.00	5.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	71.16	71.16	100.00	11.42	0.00	0.00	0.00	0.00	5.75	0.00
1	47.71	0.00	49.29	0.40	0.00	0.00	0.00	0.00	49.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	28.84	28.84	0.00	0.00	0.00	0.00	97.77	0.00	48.06	0.00
3	0.59	0.00	0.61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.19	0.00	81.68
4	2.85	0.00	0.00	98.63	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	77.75	2.87	0.00
5	42.06	62.52	43.24	0.00	0.00	0.00	0.00	100.00	43.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	88.58	0.00	0.00	0.00	6.06	42.37	0.00
12	0.13	37.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.27	0.00	0.00	18.32
25000	0.96	0.00	0.99	0.00	0.00	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.96	0.00	0.96	0.00
n	*12*	*2*	*6*	*4*	*0*	*0*	*0*	*1*	*5*	*1*	*0*	*0*	*1*	*1*	*0*	*0*	*3*	*3*	*1*	*2*	*0*	*0*	*3*	*3*	*10*	*2*
<P3> Did the rebate move your project within this acceptable range?																										
Yes	87.12	87.20	89.12	75.05	68.47	72.52	56.30	90.67	95.18	53.67	50.06	70.91	92.48	81.60	85.86	78.86	99.69	83.85	100.00	93.80	64.51	90.96	86.29	74.91	90.49	78.90
NO	4.02	4.25	1.95	15.25	7.45	0.46	43.70	5.69	1.14	26.95	0.00	0.00	1.64	12.24	1.05	9.84	0.07	3.81	0.00	0.92	20.37	3.76	2.80	12.12	4.03	3.99
Refused	0.09	0.04	0.14	0.00	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.12	0.00	0.00	0.03	0.00	0.00	0.00	0.22	0.00	0.00	0.04	0.01	0.13	0.00
Don't Know	8.77	8.51	8.79	9.71	24.08	27.02	0.00	3.63	3.49	19.38	49.94	29.09	5.76	6.16	13.09	11.27	0.24	12.34	0.00	5.07	15.12	5.28	10.87	12.97	5.35	17.11
n	*714*	*417*	*210*	*87*	*24*	*33*	*5*	*76*	*110*	*32*	*6*	*6*	*280*	*22*	*37*	*39*	*44*	*86*	*7*	*110*	*39*	*70*	*311*	*91*	*498*	*216*
<P4> On a scale of 0 to 10, with a 10 meaning a "Very Important" and a 0 meaning "Not at all Important", how important in your decision was it that the project was now in the acceptable range?																										
2	0.03	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.04	0.00
3	0.53	0.00	0.94	0.00	0.00	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00	0.00	0.00	2.23	0.00	0.00	0.00	0.96	3.05	0.00	0.16	0.00	0.71	0.00
4	0.24	0.33	0.02	1.43	0.00	0.11	0.00	0.68	0.00	3.86	0.00	9.07	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.29	0.00	0.00	0.35	0.00	0.32	0.03

* Values are shown as percent of respondents weighted by kWh.
* n is the number of respondents.

	ALL	PG&E(%)	SCE(%)	SDG&E(%)	PG&E Custom Program(%)	SCE Custom Program(%)	SDG&E Custom Program(%)	PG&E Deemed Program(%)	SCE Deemed Program(%)	SDG&E Deemed Program(%)	SCE Direct Install Program(%)	SDG&E Direct Install Program(%)	PG&E LGP Program(%)	SCE LGP Program(%)	PG&E L3P Program(%)	SCE L3P Program(%)	SDG&E L3P Program(%)	CFL Basic(%)	CFL Reflector(%)	High Bay(%)	HID(%)	LF Delamp(%)	Linear(%)	Occupancy Sensor(%)	Deemed(%)	All Calculated(%)
5	1.85	1.92	1.99	0.51	2.69	1.95	0.00	0.00	1.58	1.45	56.77	0.00	2.16	2.50	10.06	0.19	0.04	17.38	0.00	0.71	5.82	3.08	1.36	3.79	1.82	1.90
6	3.93	4.04	4.43	0.00	0.00	0.00	0.00	7.16	5.69	0.00	0.00	0.00	2.61	0.00	0.00	1.70	0.00	0.00	0.00	2.83	0.52	1.00	1.72	22.23	5.08	0.72
7	6.88	7.34	6.67	6.34	33.73	8.24	0.00	2.10	7.20	12.01	0.00	0.00	5.41	0.00	1.26	0.00	3.76	0.18	1.52	8.73	1.34	7.76	6.27	4.66	5.73	10.11
8	22.30	23.10	19.70	36.87	8.28	2.89	21.07	21.34	22.65	40.20	0.00	0.00	32.30	13.48	16.00	29.90	36.99	16.94	40.60	22.53	15.49	17.89	22.02	28.19	23.37	19.32
9	8.64	13.20	5.50	10.03	20.55	0.49	0.00	15.07	6.05	15.17	0.00	0.00	8.19	2.59	13.27	14.01	8.10	3.58	0.00	5.57	6.87	20.72	9.96	6.61	9.48	6.28
10 Very Important	55.33	49.70	60.59	44.01	34.76	86.32	78.93	53.40	55.51	24.92	43.23	90.93	48.49	81.42	59.41	51.97	51.12	61.92	57.88	58.20	66.04	49.55	58.05	32.77	53.14	61.46
Zero Not at all Important	0.17	0.18	0.19	0.00	0.00	0.00	0.00	0.25	0.24	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	1.51	0.19	0.10
Refused	0.07	0.00	0.00	0.80	0.00	0.00	0.00	0.00	0.00	2.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.00	0.00	0.00	0.00	0.09	0.00
Don't Know	0.04	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.24	0.03	0.07
n	*596*	*353*	*169*	*74*	*18*	*25*	*4*	*63*	*96*	*25*	*3*	*5*	*238*	*14*	*34*	*31*	*40*	*70*	*7*	*95*	*34*	*56*	*265*	*69*	*414*	*182*
<P3A> The rebate seemed to make the difference between meeting your financial criteria and not meeting them, but you are saying that the rebate didn't have much effect on your decision, why is that?																										
Related	86.11	85.44	100.00	92.44	94.00	100.00	100.00	73.44	0.00	0.00	0.00	0.00	64.98	0.00	0.00	0.00	0.00	0.00	0.00	63.13	0.00	100.00	92.42	78.02	79.82	88.45
Unrelated	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other	10.33	10.69	0.00	7.56	0.00	0.00	0.00	26.56	0.00	0.00	0.00	100.00	35.02	0.00	0.00	0.00	0.00	0.00	0.00	36.87	0.00	0.00	7.58	0.00	20.18	6.65
Refused	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Don't Know	3.57	3.87	0.00	0.00	6.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.98	0.00	4.90
n	*13*	*10*	*1*	*2*	*2*	*1*	*1*	*3*	*0*	*0*	*0*	*1*	*5*	*0*	*0*	*0*	*0*	*0*	*0*	*2*	*0*	*1*	*6*	*4*	*7*	*6*
<P3E> Why did it have an impact?																										
Related	31.87	43.22	17.41	50.33	0.00	0.00	100.00	56.26	0.00	0.00	0.00	0.00	17.58	82.74	0.00	0.00	0.00	0.00	0.00	0.00	0.00	70.50	33.81	28.10	21.29	51.87
Unrelated	55.06	18.19	76.06	49.67	0.00	0.00	0.00	3.28	95.69	100.00	0.00	0.00	39.02	17.26	100.00	86.12	100.00	0.00	0.00	81.09	0.00	29.50	65.28	5.38	59.51	46.66
Other	8.60	30.02	1.99	0.00	0.00	0.00	0.00	40.46	4.31	0.00	0.00	0.00	8.25	0.00	0.00	0.00	0.00	0.00	0.00	6.00	0.00	0.00	0.90	66.51	12.37	1.47
Refused	2.30	0.00	4.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.88	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	3.51	0.00
Don't Know	2.17	8.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	35.15	0.00	0.00	0.00	0.00	0.00	0.00	12.91	0.00	0.00	0.00	0.00	3.32	0.00
n	*26*	*10*	*12*	*4*	*0*	*0*	*1*	*3*	*5*	*2*	*0*	*0*	*6*	*4*	*1*	*3*	*1*	*1*	*0*	*4*	*0*	*6*	*11*	*4*	*20*	*6*
<N41> How many of the ten points would you give to the importance of the program in your decision?																										
0	1.30	0.72	1.55	1.92	0.45	0.59	0.00	1.08	2.38	0.54	0.23	8.60	0.59	0.00	0.00	0.75	0.07	1.15	2.85	0.32	0.06	4.81	0.97	0.41	1.54	0.28
1	0.74	0.40	0.53	3.44	0.65	0.00	0.00	0.47	0.31	7.53	1.08	0.00	0.33	4.77	0.09	0.00	0.00	0.00	0.00	0.05	0.00	0.84	1.55	0.34	0.83	0.36
2	2.69	4.33	1.56	3.72	23.44	4.60	0.00	2.06	1.17	4.10	1.30	0.39	2.38	5.49	1.66	0.18	6.45	0.69	0.45	1.08	2.25	1.96	4.21	3.75	1.73	6.88
3	4.21	7.58	2.16	4.52	7.67	7.74	0.00	7.96	1.34	2.85	1.71	1.00	6.97	8.15	8.33	0.68	11.00	1.39	5.38	4.95	11.50	1.54	4.67	2.52	2.89	9.93
4	7.61	4.67	9.16	8.87	5.59	22.05	0.28	1.86	8.00	2.76	6.46	16.62	5.79	5.79	11.35	10.11	15.97	5.75	3.68	0.68	8.21	7.63	10.96	14.25	5.97	14.78
5	25.06	27.45	23.32	27.11	17.55	23.08	29.79	29.49	20.81	32.60	31.02	30.94	30.27	16.09	17.78	24.32	14.61	17.71	38.70	22.89	26.32	17.56	28.25	26.74	25.54	22.93
6	12.51	9.03	15.31	7.70	5.85	4.24	0.60	10.43	21.70	8.57	4.88	6.85	9.45	34.39	4.69	3.73	8.82	9.27	8.54	17.53	11.02	6.47	10.65	16.22	13.61	7.68
7	10.59	12.73	9.45	9.80	26.59	8.64	27.94	9.95	9.38	7.32	11.43	10.23	9.68	12.03	22.33	5.35	8.61	15.24	4.78	12.16	10.63	15.18	10.21	3.36	9.56	15.12
8	13.95	16.36	11.36	21.49	0.18	8.05	32.92	16.82	10.63	22.19	8.69	5.56	19.36	4.24	19.49	28.46	28.27	20.27	7.29	12.57	6.43	16.03	14.88	14.27	14.78	10.33
9	5.53	4.51	6.45	3.51	0.33	3.24	0.00	6.06	5.25	3.44	8.04	6.40	4.90	1.00	0.67	15.89	2.59	4.52	3.52	7.28	1.09	9.62	2.71	7.41	6.38	1.83
10	15.17	11.61	18.52	7.19	11.71	17.76	0.00	13.08	18.55	8.12	23.57	13.04	9.55	8.01	13.46	10.51	3.56	21.68	24.81	19.84	22.05	17.11	10.59	10.28	16.47	9.53
99	0.63	0.61	0.62	0.73	0.00	0.00	8.48	0.75	0.49	0.00	1.60	0.38	0.73	0.05	0.16	0.02	0.06	2.33	0.00	0.67	0.45	1.25	0.34	0.47	0.69	0.34
n	*2439*	*1291*	*755*	*393*	*45*	*55*	*13*	*257*	*300*	*140*	*194*	*132*	*854*	*81*	*135*	*125*	*108*	*345*	*104*	*276*	*83*	*307*	*1062*	*262*	*2014*	*425*
<N42> And how many points would you give to all of these other factors?																										
0	15.18	11.69	18.49	7.19	11.71	17.76	0.00	13.08	18.49	8.12	23.57	13.04	9.76	8.01	13.46	10.51	3.57	22.67	24.81	19.73	22.05	17.17	10.59	10.28	16.48	9.53
1	5.53	4.51	6.45	3.51	0.33	3.24	0.00	6.06	5.25	3.44	8.04	6.40	4.90	1.00	0.67	15.89	2.60	4.53	3.52	7.28	1.09	9.62	2.71	7.41	6.38	1.83
2	13.95	16.36	11.36	21.50	0.18	8.05	32.92	16.82	10.63	22.19	8.69	5.56	19.36	4.24	19.49	28.46	28.31	20.30	7.29	12.57	6.43	16.03	14.88	14.27	14.78	10.33
3	10.65	12.73	9.45	10.44	26.59	8.64	36.41	9.95	9.38	7.32	11.43	10.23	9.68	12.03	22.33	5.35	8.62	15.26	4.78	12.16	10.63	15.18	10.21	3.83	9.56	15.43
4	12.51	9.03	15.31	7.71	5.85	4.24	0.60	10.43	21.70	8.57	4.88	6.85	9.45	34.39	4.69	3.73	8.83	9.29	8.54	17.53	11.02	6.47	10.65	16.22	13.61	7.68
5	25.05	27.45	23.32	27.09	17.55	23.08	29.79	29.49	20.81	32.60	31.02	30.94	30.27	16.09	17.78	24.32	14.51	17.63	38.70	22.89	26.32	17.56	28.25	26.74	25.54	22.93
6	7.61	4.67	9.16	8.87	5.59	22.05	0.28	1.86	8.00	2.76	6.46	16.62	5.79	5.79	11.35	10.11	15.99	5.76	3.68	0.68	8.21	7.63	10.96	14.25	5.97	14.78
7	4.21	7.58	2.16	4.53	7.67	7.74	0.00	7.96	1.34	2.85	1.71	1.00	6.97	8.15	8.33	0.68	11.02	1.39	5.38	4.95	11.50	1.54	4.67	2.52	2.89	9.93
8	2.69	4.33	1.56	3.72	23.44	4.60	0.00	2.06	1.17	4.10	1.30	0.39	2.38	5.49	1.66	0.18	6.46	0.69	0.45	1.08	2.25	1.96	4.21	3.75	1.73	6.88
9	0.75	0.40	0.53	3.44	0.65	0.00	0.00	0.47	0.31	7.53	1.08	0.00	0.33	4.77	0.09	0.00	0.00	0.00	0.00	0.05	0.03	0.84	1.55	0.34	0.83	0.36
10	1.30	0.71	1.55	1.92	0.45	0.59	0.00	1.08	2.38	0.54	0.23	8.60	0.56	0.00	0.00	0.75	0.07	1.00	2.85	0.32	0.06	4.81	0.97	0.41	1.54	0.28
98	0.01	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.32	0.00	0.00	0.00	0.00	0.00	0.19	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00
99	0.56	0.54	0.66	0.02	0.00	0.00	0.00	0.75	0.55	0.00	1.60	0.06	0.55	0.05	0.16	0.02	0.03	1.30	0.00	0.77	0.42	1.20	0.34	0.00	0.68	0.03
n	*2437*	*1291*	*755*	*391*	*45*	*55*	*13*	*257*	*300*	*140*	*194*	*132*	*854*	*81*	*135*	*125*	*106*	*343*	*104*	*276*	*83*	*307*	*1062*	*262*	*2012*	*425*
<N5> Using a likelihood scale from 0 to 10, where 0 is Not at all Likely and 10 is Extremely Likely, if THE program had NOT BEEN AVAILABLE, what is the likelihood that you would have installed exactly the same program qualifying lighting equipment that y																										
1 Not at all Likely	5.89	7.37	5.50	2.66	0.00	0.00	0.00	10.12	6.06	2.54	8.51	7.25	5.99	1.26	9.01	1.84	0.38	2.74	46.96	5.73	8.50	3.94	3.37	5.46	6.67	2.47
2	11.83	14.83	10.37	9.61	13.00	13.75	24.59	11.17	10.28	13.67	5.88	5.79	20.69	3.89	7.77	19.65	2.66	6.28	9.07	13.55	10.74	12.02	11.46	10.92	11.54	13.08

* Values are shown as percent of respondents weighted by kWh.
* n is the number of respondents.

	ALL	PG&E(%)	SCE(%)	SDG&E(%)	PG&E Custom Program(%)	SCE Custom Program(%)	SDG&E Custom Program(%)	PG&E Deemed Program(%)	SCE Deemed Program(%)	SDG&E Deemed Program(%)	SCE Direct Install Program(%)	SDG&E Direct Install Program(%)	PG&E LGP Program(%)	SCE LGP Program(%)	PG&E L3P Program(%)	SCE L3P Program(%)	SDG&E L3P Program(%)	CFL Basic(%)	CFL Reflector(%)	High Bay(%)	HID(%)	LF Delamp(%)	Linear(%)	Occupancy Sensor(%)	Deemed(%)	All Calculated(%)
3	9.91	9.55	10.93	4.84	9.94	3.60	0.00	12.19	14.88	3.31	4.57	9.41	7.89	2.13	4.99	9.00	5.21	10.73	0.98	12.91	8.87	9.54	9.10	8.01	11.19	4.27
4	5.49	7.46	3.79	8.71	19.67	18.18	0.00	5.57	1.70	9.62	4.67	7.42	7.04	2.97	4.91	2.03	10.20	6.71	4.48	0.77	0.37	6.98	9.39	2.86	3.99	12.10
5	8.98	9.17	8.82	9.34	8.39	12.51	0.00	9.21	10.66	17.37	2.05	3.33	9.54	8.32	8.24	8.44	3.45	6.10	7.24	10.56	3.56	4.38	9.34	14.11	9.34	7.41
6	6.75	2.78	9.29	5.91	1.30	16.42	22.43	3.25	11.33	4.42	3.61	0.12	1.38	3.81	7.95	3.59	8.20	13.66	0.92	12.09	2.03	2.19	5.16	6.30	6.23	9.07
7	2.37	2.72	2.36	1.08	21.50	1.02	0.00	0.93	2.67	1.67	1.14	1.44	0.61	6.91	0.21	2.88	0.21	0.40	0.90	1.78	1.29	0.97	3.23	4.55	1.66	5.50
8	3.12	2.61	2.86	6.76	1.47	5.32	0.00	3.76	3.12	1.49	0.43	2.60	1.41	1.50	3.92	4.65	18.95	2.99	1.20	1.45	1.53	1.56	4.49	6.60	2.53	5.74
9	2.02	1.27	2.66	0.82	7.62	0.27	2.03	0.01	3.72	1.08	0.00	0.84	1.31	0.02	0.00	4.80	0.14	4.30	0.00	4.57	0.60	0.13	1.46	0.15	1.80	3.00
10 Extremely Likely	4.77	5.22	4.01	7.87	2.94	8.43	0.00	6.54	3.25	14.73	3.02	2.91	4.67	6.59	4.23	6.16	2.71	7.26	2.86	2.18	26.57	4.73	4.21	6.94	4.60	5.52
Zero Not at all Likely	38.06	35.67	39.16	40.21	14.03	19.99	50.95	34.33	32.07	30.10	65.90	57.21	39.06	62.56	48.76	36.91	41.60	38.69	24.80	32.91	35.90	53.49	37.93	33.92	39.70	30.78
Don't Know	0.81	1.36	0.26	2.18	0.14	0.51	0.00	2.93	0.28	0.00	0.24	1.67	0.39	0.05	0.00	0.07	6.29	0.13	0.59	1.52	0.04	0.07	0.87	0.18	0.75	1.06
n	*2307*	*1229*	*711*	*367*	*36*	*47*	*8*	*241*	*285*	*129*	*182*	*126*	*828*	*77*	*124*	*120*	*104*	*333*	*95*	*269*	*79*	*302*	*1029*	*200*	*1909*	*398*
<N5AA> Using a likelihood scale from 0 to 10, where 0 is Not at all Likely and 10 is Extremely Likely, if THE program had NOT BEEN AVAILABLE, what is the likelihood that you would have installed exactly the same lighting equipment at the same time as you																										
1 Not at all Likely	8.02	22.16	1.85	7.40	0.00	0.00	0.00	38.27	0.00	0.09	6.78	55.54	0.00	0.00	0.00	0.00	0.00	0.00	62.11	0.00	0.00	0.00	0.88	10.85	10.15	0.00
2	1.11	0.00	0.05	12.88	0.00	0.00	1.66	0.00	0.11	18.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.38	1.20	0.00	0.00	0.00	0.00	1.83	1.37	0.13
3	7.62	20.65	2.85	0.00	0.00	0.00	0.00	28.71	6.12	0.00	0.00	0.00	18.19	0.00	15.70	0.00	0.00	1.73	0.00	19.01	0.00	4.84	1.52	7.39	9.31	1.24
4	13.37	0.04	20.04	7.44	0.00	0.00	0.00	0.00	43.02	11.02	0.00	0.00	0.02	0.00	0.53	0.00	0.00	0.46	0.00	0.00	0.00	0.00	0.00	23.27	16.91	0.01
5	2.17	6.78	0.41	0.00	23.22	0.00	0.00	0.22	0.74	0.00	0.00	0.00	3.71	5.68	26.62	0.00	0.00	0.06	3.73	0.00	1.02	0.00	7.72	1.34	1.10	6.17
6	1.45	0.00	2.24	0.26	0.00	7.40	0.00	0.00	0.94	0.39	0.91	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.87	0.00	0.13	0.76	0.58	4.71
7	3.89	13.84	0.00	0.00	58.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15.24	0.00	0.00	0.00	0.00	37.89	0.00	0.00	0.00	0.00	19.52	0.00	0.92	15.07
8	4.67	5.34	4.87	0.93	0.00	16.08	0.00	9.21	0.00	0.00	3.14	7.02	0.00	0.00	0.00	16.17	0.00	0.00	20.42	0.00	46.42	0.00	2.99	2.70	3.20	10.22
9	6.65	8.06	6.90	0.00	0.00	29.66	0.00	12.06	0.00	0.00	0.00	0.00	6.30	55.07	0.00	0.00	0.00	0.00	0.00	24.82	0.00	0.00	0.00	4.69	3.41	18.86
10 Extremely Likely	8.57	3.06	9.94	16.72	8.76	46.29	75.74	0.82	0.00	3.23	0.00	0.00	5.30	18.23	0.00	0.00	31.25	47.16	0.30	29.17	0.00	0.00	11.02	2.13	0.60	38.62
Zero Not at all Likely	42.34	19.53	50.84	54.37	9.35	0.57	22.61	10.71	49.07	66.65	89.16	37.44	51.24	21.03	47.82	83.83	68.75	11.32	12.24	27.00	30.69	95.16	56.20	44.77	52.25	4.98
Don't Know	0.15	0.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.27	0.20	0.00
n	*129*	*60*	*44*	*25*	*9*	*8*	*5*	*15*	*15*	*11*	*12*	*6*	*25*	*4*	*11*	*5*	*3*	*11*	*9*	*6*	*4*	*4*	*33*	*62*	*102*	*27*
<N5A> Will you explain in your own words, the role the rebate played in your decision to install this efficient equipment?																										
Other - Related	45.50	23.15	62.66	28.57	45.52	29.54	100.00	2.51	65.36	79.41	23.70	36.89	33.03	100.00	28.57	75.52	9.71	42.99	86.80	68.88	63.47	40.03	32.90	10.77	48.62	35.34
Other - Unrelated	37.28	58.24	17.01	67.82	54.48	70.46	0.00	74.77	8.17	20.59	76.30	33.90	41.79	0.00	71.43	24.48	89.31	49.99	13.20	26.39	36.53	50.55	54.87	3.56	31.76	55.24
Record	15.33	12.32	20.33	3.61	0.00	0.00	0.00	15.00	26.48	0.00	0.00	29.21	16.69	0.00	0.00	0.00	0.98	7.02	0.00	4.73	0.00	9.42	7.03	84.59	17.90	6.97
Don't Know	1.89	6.30	0.00	0.00	0.00	0.00	0.00	7.72	0.00	0.00	0.00	0.00	8.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.20	1.09	1.72	2.45
n	*150*	*80*	*40*	*30*	*3*	*5*	*1*	*14*	*17*	*7*	*8*	*10*	*54*	*3*	*9*	*7*	*12*	*25*	*7*	*13*	*6*	*18*	*69*	*12*	*119*	*31*
<NN5AA> Would you like for me to change your score on the importance of the rebate that you gave a rating of <N3B> and/or change your rating on the likelihood you would install the same equipment without the rebate which you gave a rating of <N5> and/or																										
No change	61.17	70.72	50.82	78.96	0.00	39.61	0.00	99.58	39.21	22.72	96.70	72.66	69.98	54.45	62.17	97.93	99.39	89.48	95.90	29.38	53.02	66.09	75.15	97.60	57.86	71.94
3	0.01	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.04
4	23.13	0.00	42.10	1.36	0.00	0.00	0.00	0.00	53.71	6.41	0.00	0.00	0.00	45.55	0.00	0.00	0.00	0.00	0.00	63.65	0.00	0.00	2.88	0.00	29.63	1.96
5	4.51	14.12	0.49	0.00	82.42	0.00	0.00	0.42	0.64	0.00	0.00	0.00	7.17	0.00	0.00	0.00	0.00	0.04	4.10	0.00	0.00	10.36	9.78	0.00	1.57	14.10
6	3.15	4.02	3.57	0.00	0.00	0.00	0.00	0.00	4.64	0.00	0.00	0.00	1.98	0.00	35.21	0.00	0.00	0.00	0.00	1.75	0.00	14.66	2.70	0.00	3.33	2.55
7	1.29	4.30	0.00	0.00	17.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.77	0.00	0.00	0.00	0.00	7.10	0.00	0.00	9.50	0.00	2.08	0.00	0.77	3.01
8	1.93	1.25	0.74	7.46	0.00	0.00	0.00	0.00	0.96	27.92	0.00	15.14	2.46	0.00	2.62	0.00	0.00	0.00	0.00	1.15	0.00	8.32	1.59	0.61	2.53	0.00
9	0.82	0.69	1.13	0.00	0.00	60.39	0.00	0.00	0.00	0.00	0.00	0.00	1.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.42	0.00	0.00	3.49
10	1.42	0.78	0.51	5.84	0.00	0.00	0.00	0.00	0.00	25.56	3.30	0.00	1.90	0.00	0.00	2.07	0.61	0.88	0.00	2.42	6.10	0.00	1.10	0.00	1.56	0.96
Record	1.45	0.99	0.64	5.15	0.00	0.00	100.00	0.00	0.84	17.39	0.00	0.00	2.42	0.00	0.00	0.00	0.00	2.27	0.00	1.65	0.00	0.58	1.70	1.09	1.29	1.95
Don't Know	1.12	3.09	0.00	1.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.20	7.55	0.00	0.00	0.00	0.00	0.22	0.00	0.00	31.39	0.00	0.56	0.70	1.46	0.00
n	*150*	*80*	*40*	*30*	*3*	*5*	*1*	*14*	*17*	*7*	*8*	*10*	*54*	*3*	*9*	*7*	*12*	*25*	*7*	*13*	*6*	*18*	*69*	*12*	*119*	*31*
<N5B> If the program had not been available, what is the likelihood that you would have done this project at the same time as you did?																										
1 Not at all Likely	7.33	6.87	7.61	7.40	0.00	0.90	23.87	8.81	7.11	10.65	12.91	5.35	6.46	1.95	7.32	7.26	0.15	5.15	47.86	6.58	6.93	6.08	5.78	4.39	8.06	4.14
2	12.15	14.79	11.34	7.18	15.91	29.76	0.72	12.33	10.42	11.49	5.73	1.78	18.41	6.25	9.02	13.82	5.82	5.32	9.01	11.05	2.82	8.76	14.38	18.91	10.85	17.90
3	5.09	6.78	4.28	3.80	3.81	5.25	0.00	8.50	4.35	2.75	1.10	8.15	6.45	3.34	3.89	10.23	3.34	6.45	1.51	5.82	8.83	4.16	3.96	8.81	5.41	3.68
4	3.90	5.21	3.40	2.11	2.39	1.13	0.00	3.83	4.07	3.48	1.42	0.22	7.61	4.34	3.84	5.23	1.80	7.94	0.00	0.91	2.28	6.17	5.74	2.25	3.91	3.86
5	8.62	6.01	10.37	7.49	8.02	8.94	0.00	7.85	13.96	10.01	4.75	1.89	4.03	11.89	4.54	0.37	9.17	3.64	4.45	11.67	3.10	4.79	9.98	4.91	9.03	6.78
6	2.45	2.05	2.36	4.57	0.95	7.48	22.43	2.56	1.70	4.23	1.85	1.21	0.73	2.70	6.43	2.88	3.23	12.74	0.53	1.03	0.61	2.23	2.56	4.89	1.78	5.43
7	2.17	3.12	1.82	0.73	18.00	5.03	0.00	1.86	1.71	0.57	0.42	0.60	1.52	3.80	0.21	1.92	1.22	3.96	1.73	1.03	0.22	0.94	3.49	2.45	1.35	5.75
8	2.02	3.17	0.68	6.07	21.00	1.41	0.00	1.84	0.10	0.00	0.64	2.92	0.85	1.32	0.59	3.63	18.63	2.70	0.69	0.19	1.14	0.95	4.28	0.39	0.68	7.91
9	1.12	1.57	0.72	1.88	14.74	0.27	2.03	0.08	1.18	0.79	0.00	0.24	0.28	0.02	0.00	0.00	4.57	0.00	0.12	0.15	0.03	0.11	2.03	3.13	0.57	3.53
10 Extremely Likely	7.99	4.73	9.83	8.77	3.08	19.10	0.00	6.57	12.29	18.45	0.41	1.75	3.02	5.08	5.76	7.36	0.94	3.72	1.85	14.04	24.36	4.32	4.79	6.29	7.98	8.00
Zero Not at all Likely	46.28	44.51	47.29	46.68	12.11	19.65	50.95	43.00	42.83	34.54	70.54	75.29	50.47	59.27	58.39	47.31	44.84	48.23	31.54	46.14	49.64	61.43	41.83	43.51	49.56	31.80
Don't Know	0.88	1.20	0.31	3.32	0.00	1.09	0.00	2.78	0.28	3.05	0.24	0.59	0.18	0.05	0.00	0.00	6.30	0.14	0.70	1.39	0.04	0.05	1.17	0.08	0.80	1.23

* Values are shown as percent of respondents weighted by kWh.
* n is the number of respondents.

	ALL	PG&E(%)	SCE(%)	SDG&E(%)	PG&E Custom Program(%)	SCE Custom Program(%)	SDG&E Custom Program(%)	PG&E Deemed Program(%)	SCE Deemed Program(%)	SDG&E Deemed Program(%)	SCE Direct Install Program(%)	SDG&E Direct Install Program(%)	PG&E LGP Program(%)	SCE LGP Program(%)	PG&E L3P Program(%)	SCE L3P Program(%)	SDG&E L3P Program(%)	CFL Basic(%)	CFL Reflector(%)	High Bay(%)	HID(%)	LF Delamp(%)	Linear(%)	Occupancy Sensor(%)	Deemed(%)	All Calculated(%)
n	*2308*	*1229*	*711*	*368*	*36*	*47*	*8*	*241*	*285*	*129*	*182*	*126*	*828*	*77*	*124*	*120*	*105*	*334*	*95*	*269*	*79*	*302*	*1029*	*200*	*1910*	*398*
<TD1> If the program had not been available, how likely is it that you would have replaced your existing equipment within one year of when you did?																										
Definitely Would Have within one year	4.38	4.95	3.25	9.50	25.06	8.10	0.00	2.70	1.70	6.12	4.83	2.64	3.70	12.46	1.75	1.98	21.41	11.00	3.19	1.95	6.46	2.91	6.19	3.71	2.84	11.45
Probably would have (within one year)	5.50	7.27	4.39	5.49	21.73	0.63	21.70	10.94	4.26	3.71	6.00	7.64	1.85	6.04	2.89	3.92	2.13	5.98	1.46	5.95	2.89	6.41	4.76	8.09	5.20	6.87
50-50 chance you would (within one year)	12.59	10.45	13.26	16.98	8.92	16.74	0.00	10.72	15.26	24.34	11.80	7.28	11.18	6.09	7.66	4.13	18.70	20.26	10.03	10.04	7.74	13.99	14.85	7.44	12.89	11.19
Probably not (within one year) OR	29.94	33.17	28.55	25.78	16.90	50.30	26.26	25.14	29.56	25.71	21.45	30.89	39.46	10.58	52.75	27.34	22.02	32.56	23.01	30.52	10.69	23.75	32.86	34.73	28.44	36.82
Definitely not (within one year)	47.28	44.14	50.06	41.95	27.39	23.22	52.04	50.49	49.12	39.43	54.38	51.56	43.75	64.84	34.93	62.63	35.67	30.17	62.31	51.42	72.21	52.84	40.81	45.50	50.31	33.37
Don't Know	0.31	0.03	0.49	0.30	0.00	1.00	0.00	0.00	0.10	0.70	1.55	0.00	0.05	0.00	0.04	0.01	0.07	0.04	0.00	0.13	0.00	0.10	0.54	0.54	0.31	0.30
n	*2146*	*1145*	*663*	*338*	*28*	*37*	*7*	*218*	*263*	*120*	*178*	*119*	*782*	*69*	*117*	*116*	*92*	*316*	*88*	*247*	*72*	*288*	*954*	*181*	*1794*	*352*
<TD2> If the program had not been available, how likely is it that you would have replaced your existing equipment within three years of when you did?																										
Definitely Would Have within three years	10.40	12.31	9.28	10.02	0.71	0.70	21.70	22.25	8.15	4.69	13.20	6.74	6.43	7.80	4.89	14.12	17.55	6.06	25.57	11.04	4.54	10.40	7.35	18.85	11.05	7.16
Probably would have (within three years)	15.79	17.32	15.38	12.00	54.18	24.12	0.00	8.97	15.31	11.64	14.92	8.05	14.82	10.85	36.20	11.55	20.02	18.56	14.87	15.49	9.41	10.15	19.29	13.48	13.78	25.92
50-50 chance you would (within three yea	23.87	22.36	24.63	25.10	13.24	48.02	1.90	21.80	29.34	39.30	8.46	27.44	24.78	10.19	20.64	19.24	8.27	38.41	9.27	24.40	6.02	15.49	31.26	12.60	23.78	24.36
Probably not (within three years) OR	26.78	31.93	23.75	25.66	25.68	12.72	64.80	33.58	18.87	17.08	31.90	35.92	34.18	53.57	20.33	34.54	17.10	16.01	40.00	25.44	37.20	36.97	21.87	28.08	26.70	27.14
Definitely not (within three years)	23.05	16.05	26.87	26.63	6.18	14.44	11.61	13.40	28.25	27.29	31.33	19.36	19.72	17.58	17.94	20.56	37.06	19.73	9.92	23.63	42.83	27.00	20.08	26.99	24.57	15.42
Don't Know	0.11	0.03	0.08	0.60	0.00	0.00	0.00	0.00	0.07	0.00	0.19	2.50	0.07	0.01	0.00	0.00	0.00	1.24	0.37	0.00	0.00	0.00	0.15	0.00	0.13	0.00
n	*2019*	*1076*	*625*	*318*	*24*	*32*	*7*	*205*	*251*	*112*	*163*	*114*	*737*	*65*	*110*	*114*	*85*	*290*	*83*	*236*	*65*	*278*	*898*	*169*	*1694*	*325*
<TD3> If the program had not been available, how likely is it that you would have replaced your existing equipment within five years of when you did?																										
Definitely Would Have within five years	15.32	17.92	13.81	15.03	22.92	24.40	0.00	9.42	14.25	14.18	7.82	8.25	16.50	12.91	47.56	15.72	27.99	25.74	13.19	14.37	6.73	11.22	17.15	17.96	13.91	22.14
Probably would have (within five years)	26.12	27.38	26.06	21.17	45.80	33.59	2.46	32.52	29.22	18.08	19.76	31.98	24.21	15.52	10.94	16.74	21.67	19.45	13.07	21.68	45.84	13.89	35.42	20.06	25.37	29.72
50-50 chance you would (within five year	22.72	21.30	23.66	22.01	7.67	30.58	1.49	25.83	21.65	29.91	24.53	25.94	22.58	3.48	10.93	34.83	10.11	33.33	42.57	26.73	6.78	19.28	19.99	24.41	24.08	16.17
Probably not (within five years) OR	21.16	21.81	20.67	21.86	17.43	4.05	82.75	24.27	18.08	11.93	25.74	21.25	21.89	57.10	16.61	29.15	21.70	12.36	6.26	20.95	36.32	40.30	13.16	25.36	21.16	21.18
Definitely not (within five years)	14.15	11.49	15.22	17.86	6.05	7.38	13.30	7.75	16.81	24.67	19.37	9.09	14.81	10.99	13.91	3.56	15.74	6.81	13.55	16.28	4.33	15.31	14.02	11.96	14.91	10.46
Don't Know	0.54	0.10	0.58	2.07	0.14	0.00	0.00	0.21	0.00	1.23	2.78	3.50	0.02	0.00	0.06	0.00	2.80	2.33	11.36	0.00	0.00	0.00	0.26	0.26	0.57	0.35
n	*1797*	*959*	*560*	*278*	*22*	*31*	*6*	*167*	*225*	*99*	*143*	*102*	*673*	*54*	*97*	*107*	*71*	*251*	*72*	*208*	*56*	*248*	*815*	*147*	*1505*	*292*
<N9BB> you could explain in your own words the role the age/condition of the existing equpment played in your decision to install this new measure?																										
n	*100*	*52*	*38*	*10*	*0*	*3*	*0*	*10*	*10*	*4*	*14*	*5*	*39*	*4*	*3*	*7*	*1*	*15*	*1*	*13*	*3*	*15*	*44*	*9*	*87*	*13*
<N6> Now I would like you to think one last time about what action you would have taken if the program had not been available. Which of the following alternatives would you have been MOST likely to do?																										
Installed fewer units	9.60	13.32	7.81	6.94	30.48	2.55	8.48	9.68	6.80	3.44	9.38	7.64	13.69	7.06	9.31	16.90	11.81	7.23	3.29	3.72	1.21	17.35	10.73	14.90	9.30	10.90
Installed standard efficiency equipment	18.01	16.49	19.12	16.67	1.78	5.41	3.82	14.20	23.13	21.57	17.10	11.19	17.58	4.97	37.87	16.74	15.86	22.40	13.90	14.08	15.57	21.22	22.19	11.22	19.49	11.58
Installed equipment more efficient than	9.44	12.78	6.81	13.71	15.88	12.22	17.94	17.98	5.68	13.65	5.67	10.19	7.58	11.66	7.84	9.49	15.09	11.04	31.72	9.56	23.60	5.27	8.65	6.06	8.95	11.59
Done nothing (keep the existing equipmen	36.34	30.77	39.34	38.26	23.25	41.62	54.44	29.94	34.00	38.88	59.05	42.80	32.74	45.69	34.48	23.63	29.62	35.92	44.08	41.09	24.63	38.26	32.72	35.85	37.25	32.35
Done the exact same thing we did through	15.75	15.00	15.82	18.14	24.30	27.30	14.37	15.53	17.28	20.04	6.86	5.66	14.77	14.81	3.61	15.09	24.70	17.93	6.08	18.40	21.89	7.48	15.26	21.25	13.98	23.47
Repair/rewind or overhaul the existing e	8.22	9.18	8.07	5.47	4.18	6.46	0.00	9.57	10.76	2.42	0.49	20.84	12.19	14.14	0.74	8.08	1.33	4.45	0.67	9.78	5.76	6.57	8.69	8.83	8.46	7.17
Do Something else (specify)	2.01	1.97	2.23	0.81	0.13	0.45	0.95	2.03	2.10	0.00	0.17	1.68	1.38	1.62	6.03	10.07	1.50	0.86	0.25	2.95	7.31	3.83	0.55	1.42	2.07	1.75
Refused	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DON'KNOW	0.63	0.49	0.80	0.01	0.00	3.98	0.00	1.07	0.26	0.00	1.29	0.00	0.08	0.05	0.13	0.00	0.02	0.12	0.02	0.42	0.03	0.03	1.21	0.47	0.50	1.19
n	*2438*	*1290*	*755*	*393*	*45*	*55*	*13*	*257*	*300*	*140*	*194*	*132*	*853*	*81*	*135*	*125*	*108*	*345*	*104*	*276*	*83*	*307*	*1061*	*262*	*2014*	*424*
<N6A> How many fewer units would you have?																										
0-25% less	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26-50% less	31.25	32.08	31.55	14.88	0.00	0.00	0.00	44.14	15.42	39.68	12.51	4.43	47.18	4.87	26.61	74.93	7.01	31.96	0.00	47.43	1.88	38.85	14.17	49.72	38.01	2.24
51-75% less	9.26	14.86	4.36	0.69	0.00	0.00	0.00	37.71	6.23	0.00	6.20	4.08	4.58	0.00	0.00	0.00	0.00	32.78	45.55	2.33	0.00	15.18	2.99	0.81	10.80	2.62
76-100% less	12.58	6.69	15.69	51.34	0.00	0.00	0.00	0.00	16.98	0.00	23.63	0.00	21.31	48.74	5.46	3.91	88.99	3.70	0.00	13.77	98.12	0.84	26.30	12.95	9.70	24.94
Other	30.76	18.43	43.33	23.27	0.00	100.00	0.00	18.14	46.05	33.45	57.66	73.79	18.27	0.00	67.93	21.15	4.00	31.56	54.45	36.47	0.00	37.75	24.32	4.94	37.17	3.29
Refused	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Don't Know	16.15	27.94	5.06	9.82	100.00	0.00	0.00	0.00	15.32	26.88	0.00	17.70	8.66	46.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.38	32.21	31.58	4.31	66.92
n	*113*	*60*	*32*	*21*	*2*	*1*	*0*	*13*	*11*	*5*	*11*	*7*	*36*	*3*	*9*	*6*	*9*	*21*	*3*	*9*	*2*	*25*	*41*	*12*	*93*	*20*
<N6B> Can you tell me what model or efficiency level you were considering as an alternative?																										
Less efficient than code	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
None	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other	42.32	40.68	46.13	36.86	35.44	12.97	98.44	47.15	71.22	41.01	20.43	58.54	28.30	34.31	28.02	39.07	0.31	67.67	66.54	50.31	64.09	2.17	27.19	54.50	46.36	28.41
Refused	0.01	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.01	0.00
Don't Know	48.54	54.40	40.56	51.72	61.27	58.95	1.56	49.56	21.85	37.92	69.53	41.06	64.33	60.95	51.85	36.91	93.81	32.33	33.46	47.61	35.32	92.59	57.81	9.93	46.23	56.51
n	*246*	*137*	*72*	*37*	*10*	*8*	*2*	*32*	*24*	*15*	*16*	*11*	*75*	*11*	*20*	*13*	*9*	*32*	*16*	*23*	*13*	*29*	*101*	*32*	*194*	*52*

* Values are shown as percent of respondents weighted by kWh.
* n is the number of respondents.

	ALL	PG&E(%)	SCE(%)	SDG&E(%)	PG&E Custom Program(%)	SCE Custom Program(%)	SDG&E Custom Program(%)	PG&E Deemed Program(%)	SCE Deemed Program(%)	SDG&E Deemed Program(%)	SCE Direct Install Program(%)	SDG&E Direct Install Program(%)	PG&E LGP Program(%)	SCE LGP Program(%)	PG&E L3P Program(%)	SCE L3P Program(%)	SDG&E L3P Program(%)	CFL Basic(%)	CFL Reflector(%)	High Bay(%)	HID(%)	LF Delamp(%)	Linear(%)	Occupancy Sensor(%)	Deemed(%)	All Calculated(%)
<ER2> How many more years do you think your lighting system would have gone before failing and required replacement?																										
0	0.43	0.35	0.52	0.28	7.26	0.00	0.00	0.00	0.16	0.00	0.00	0.46	0.21	0.00	0.00	3.39	1.22	0.65	0.00	0.00	0.61	0.00	0.42	2.03	0.12	2.30
1																										
2	8.31	9.40	8.43	3.17	29.36	18.87	0.00	7.38	7.39	1.60	0.56	4.78	9.77	1.71	6.97	17.08	7.52	14.56	1.80	4.99	3.26	6.79	9.71	14.16	7.40	13.75
3	9.81	8.87	10.13	12.01	0.00	4.97	0.00	12.26	10.16	21.38	17.01	5.26	7.50	0.00	7.25	14.46	1.45	7.32	6.63	9.27	0.25	10.56	11.48	8.19	9.85	9.57
4	2.83	2.29	3.20	3.07	3.85	14.83	0.00	1.72	2.56	3.71	4.02	1.49	2.75	4.90	0.55	1.77	8.72	1.44	12.90	1.36	1.36	0.00	3.10	9.13	2.26	6.19
5	29.16	31.57	28.77	21.20	11.56	22.59	1.39	31.11	32.76	12.73	38.85	40.80	34.78	15.39	16.32	9.48	3.50	36.95	24.21	32.67	31.78	24.24	28.20	28.62	31.58	14.65
6	1.24	1.29	1.17	1.38	0.00	0.00	0.00	0.00	1.43	0.14	0.00	3.63	1.09	2.02	10.42	0.00	0.00	3.49	0.00	1.45	0.46	2.06	0.97	0.47	1.36	0.49
7	2.26	1.08	2.08	8.15	0.00	2.66	76.62	0.00	2.08	0.56	0.00	0.69	1.92	0.79	0.07	3.25	17.74	0.70	0.00	1.90	4.59	1.25	2.98	1.53	1.42	7.28
8	1.24	1.28	0.43	5.43	0.00	0.00	0.00	2.34	0.11	2.79	0.00	0.00	0.55	5.95	2.63	0.00	45.07	0.43	0.00	0.15	0.00	0.83	2.26	1.37	0.83	3.70
9	0.57	0.23	0.00	5.03	0.00	0.00	0.00	0.00	0.00	6.94	0.00	4.94	0.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.25	0.22	0.00	0.56	0.64
10	20.06	16.73	22.88	18.84	23.20	6.74	22.00	18.18	22.48	22.51	9.09	17.05	16.65	62.31	6.73	16.62	4.59	6.51	4.88	20.74	11.50	19.61	22.18	18.96	19.88	21.16
12	0.30	0.41	0.26	0.00	0.00	0.00	0.00	1.05	0.36	0.00	0.00	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	1.06	0.00	0.00	0.05	0.00	0.34	0.04
13	0.01	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.01	0.00
15	3.47	3.34	2.71	8.12	1.07	0.00	0.00	2.20	3.37	15.52	0.00	2.27	1.80	0.40	23.49	1.72	0.57	3.73	0.65	0.51	32.01	6.48	1.84	2.48	3.49	3.37
20	2.36	2.76	2.42	0.32	0.00	0.00	0.00	2.46	3.17	0.00	0.00	0.86	3.03	1.00	3.38	0.27	0.12	1.89	5.54	3.09	4.73	3.86	1.45	0.91	2.62	0.76
24	0.02	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.11
25	0.38	0.94	0.00	0.05	0.00	0.00	0.00	2.43	0.00	0.00	0.00	0.00	0.19	0.00	0.00	0.00	0.52	0.17	0.00	1.26	0.83	0.00	0.03	0.00	0.44	0.00
30	0.20	0.01	0.32	0.36	0.00	0.00	0.00	0.00	0.37	0.27	0.00	0.65	0.03	0.00	0.00	0.35	0.00	0.80	0.00	0.00	0.00	0.00	0.10	1.30	0.23	0.00
50	0.08	0.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.43	0.03	0.00	0.09	0.00
74	0.04	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00	0.05	0.00
90	0.07	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.45
98	0.02	0.04	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.15	0.07	0.00	0.00	0.00	0.00	0.00	0.49	0.00	0.00	0.00	0.04	0.00	0.02	0.00
99	13.88	13.35	16.04	4.46	23.70	25.74	0.00	15.71	13.24	3.34	28.71	7.30	12.30	3.29	5.08	31.58	2.74	10.53	2.60	17.94	1.82	18.47	12.83	8.06	13.89	13.80
n	*1406*	*866*	*312*	*228*	*12*	*17*	*4*	*139*	*171*	*69*	*17*	*94*	*654*	*49*	*61*	*58*	*61*	*236*	*30*	*149*	*37*	*185*	*653*	*116*	*1155*	*251*
<ER6> How much downtime did you experience in the past year?																										
0	42.60	46.73	33.85	100.00	0.00	0.00	100.00	64.02	62.87	0.00	100.00	0.00	42.67	0.00	0.00	100.00	100.00	100.00	0.00	58.50	0.00	86.00	39.37	0.00	58.41	38.27
1	1.01	2.41	0.18	0.00	0.00	0.00	0.00	0.00	1.60	0.00	0.00	0.00	2.06	0.00	100.00	0.00	0.00	0.00	0.00	1.40	100.00	6.52	0.00	0.00	1.86	0.78
2	12.75	33.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	42.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14.61	0.00	0.00	16.24
3	3.27	8.38	0.16	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	10.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.65	28.15	14.82	0.11
4	2.82	7.42	0.00	0.00	0.00	0.00	0.00	35.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	40.10	0.00	0.00	0.00	0.00	13.12	0.00
6	2.19	0.00	3.89	0.00	0.00	0.00	0.00	0.00	35.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.51	0.00	10.19	0.00
8	0.35	0.91	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.48	0.00	0.00	1.61	0.00
99	35.02	0.59	61.92	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.75	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	39.86	71.85	0.00	44.59
n	*26*	*14*	*7*	*5*	*0*	*1*	*1*	*3*	*3*	*0*	*1*	*0*	*10*	*1*	*1*	*1*	*4*	*4*	*0*	*3*	*1*	*4*	*12*	*2*	*16*	*10*
<ER9> In your opinion, based on the economics of operating this equipment, for how many more years could you have kept this equipment functioning?																										
1	42.79	10.82	68.81	0.29	0.00	0.00	0.00	52.48	62.87	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.31	11.29	0.00	58.50	0.00	83.87	39.86	0.00	37.24	44.31
2	2.80	1.62	3.89	0.00	0.00	0.00	0.00	0.00	35.53	0.00	0.00	0.00	2.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	2.51	0.00	10.19	0.78
3	11.63	30.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	38.95	0.00	0.00	0.00	0.00	10.40	0.00	0.00	0.00	0.00	13.31	0.00	0.07	14.79
4	1.11	2.66	0.18	0.00	0.00	0.00	0.00	0.00	1.60	0.00	0.00	0.00	3.39	0.00	0.00	0.00	0.00	0.00	0.00	1.40	0.00	0.00	1.16	0.00	5.17	0.00
5	20.79	53.69	0.16	5.18	0.00	100.00	100.00	47.52	0.00	0.00	0.00	0.00	54.85	0.00	100.00	0.00	0.00	0.00	0.00	40.10	0.00	16.13	19.63	28.15	35.61	16.73
6	2.40	0.00	4.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.75	0.00	11.16	0.00
10	0.11	0.00	0.00	1.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.99	72.67	0.00	0.00	0.00	0.00	0.00	0.00	0.51	0.00
15	5.38	0.00	0.00	92.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	97.54	0.00	0.00	0.00	0.00	0.00	6.17	0.00	0.00	6.86
20	0.01	0.00	0.00	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.15	5.64	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00
99	12.98	0.59	22.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.75	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	14.61	71.85	0.00	16.53
n	*26*	*14*	*7*	*5*	*0*	*1*	*1*	*3*	*3*	*0*	*1*	*0*	*10*	*1*	*1*	*1*	*4*	*4*	*0*	*3*	*1*	*4*	*12*	*2*	*16*	*10*
<ER15> Can you briefly describe the specific code/regulatory requirements that this project addressed?																										
Related	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unrelated	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other	21.66	48.32	0.00	0.00	0.00	0.00	0.00	88.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	21.66	0.00
Refused	12.03	26.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	59.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	91.81	0.00	12.03	0.00
Don't Know	66.31	24.82	100.00	100.00	0.00	0.00	0.00	11.76	0.00	0.00	100.00	0.00	40.64	100.00	0.00	0.00	100.00	100.00	0.00	0.00	100.00	100.00	8.19	100.00	66.31	0.00
n	*9*	*6*	*2*	*1*	*0*	*0*	*0*	*2*	*0*	*0*	*1*	*0*	*4*	*1*	*0*	*0*	*1*	*2*	*0*	*1*	*1*	*1*	*2*	*2*	*9*	*0*
<ER19> Can you briefly describe the specific company policies regarding regular/normal maintenance/replacement policy(ies) that were relevant to this project?																										
Related	98.21	96.75	97.73	100.00	0.00	0.00	0.00	100.00	100.00	0.00	0.00	0.00	95.53	0.00	0.00	100.00	100.00	100.00	0.00	0.00	100.00	0.00	96.12	100.00	95.14	100.00
Unrelated	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other	1.04	3.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.25	0.00	2.82	0.00
Refused	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

* Values are shown as percent of respondents weighted by kWh.
* n is the number of respondents.

	ALL	PG&E(%)	SCE(%)	SDG&E(%)	PG&E Custom Program(%)	SCE Custom Program(%)	SDG&E Custom Program(%)	PG&E Deemed Program(%)	SCE Deemed Program(%)	SDG&E Deemed Program(%)	SCE Direct Install Program(%)	SDG&E Direct Install Program(%)	PG&E LGP Program(%)	SCE LGP Program(%)	PG&E L3P Program(%)	SCE L3P Program(%)	SDG&E L3P Program(%)	CFL Basic(%)	CFL Reflector(%)	High Bay(%)	HID(%)	LF Delamp(%)	Linear(%)	Occupancy Sensor(%)	Deemed(%)	All Calculated(%)
Don't Know	0.75	0.00	2.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.63	0.00	2.04	0.00
n	*11*	*5*	*4*	*2*	*0*	*0*	*0*	*1*	*1*	*0*	*0*	*0*	*4*	*1*	*0*	*2*	*2*	*1*	*0*	*0*	*1*	*0*	*6*	*3*	*6*	*5*
<PP1> What do you believe the PROGRAM'S primary strengths are?																										
Improved lighting quality	14.01	10.10	16.92	7.31	5.81	7.46	1.66	7.55	15.93	8.69	26.52	23.00	12.10	1.49	18.62	6.30	0.32	19.14	26.49	23.95	10.10	11.50	7.65	8.81	16.18	6.69
Ease of participation	15.91	15.95	13.96	28.93	25.14	12.11	24.20	5.56	13.21	33.72	15.26	15.35	21.15	10.27	28.44	18.12	30.45	24.08	4.54	12.40	27.35	14.75	19.97	10.35	14.58	20.39
Reliability of program	3.49	4.32	2.43	7.95	0.00	13.83	8.01	0.76	0.44	0.00	1.69	0.00	9.32	0.19	10.43	0.00	19.44	9.73	2.05	1.57	4.81	0.96	6.26	0.36	1.11	11.54
Financial benefits (upfront costs, savings, payback, ROI)	69.65	59.45	75.33	64.88	41.23	59.90	92.46	58.82	80.21	44.62	70.96	61.67	69.52	91.97	61.75	81.14	82.36	49.58	60.78	77.69	61.65	66.43	65.95	79.38	70.34	67.29
Energy efficiency/environmental impacts	31.17	30.87	31.74	28.25	21.69	40.33	37.45	33.24	27.09	24.27	34.92	20.32	34.25	18.56	26.96	39.70	34.08	35.15	41.65	31.69	8.23	42.91	27.14	30.76	31.39	30.40
No impact	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Program awareness	5.00	5.43	4.74	5.39	10.90	10.53	5.65	1.28	0.79	0.45	6.40	7.25	10.56	50.68	2.92	0.54	9.67	2.51	7.63	1.51	0.96	3.32	9.32	2.22	2.91	12.07
Educational benefit	3.28	4.47	3.06	0.86	0.00	0.00	6.52	7.03	0.77	0.77	7.49	0.82	3.96	0.00	2.25	6.84	0.00	3.60	4.85	3.27	0.02	4.97	3.11	2.05	3.60	2.19
Other	5.01	9.88	2.34	7.02	20.84	1.51	0.00	9.82	2.05	10.67	3.43	14.27	7.76	0.53	2.59	1.94	1.44	8.22	5.30	3.04	4.36	4.26	7.30	2.19	5.01	5.04
Refused	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Don't Know	1.37	1.08	1.65	0.46	2.97	2.94	0.00	1.22	2.30	0.43	0.55	1.81	0.25	0.00	0.18	0.00	0.00	0.24	2.14	0.00	5.74	1.19	2.37	0.00	1.31	1.57
n	*1213*	*493*	*498*	*222*	*36*	*46*	*11*	*127*	*142*	*81*	*194*	*82*	*222*	*44*	*108*	*72*	*48*	*127*	*83*	*144*	*57*	*152*	*509*	*141*	*1003*	*210*
<PP2> What concerns do you have about the program, if any? (IF NEEDED: What do you view as the primary features that need to be improved?)																										
None	52.54	59.75	51.47	37.62	49.73	33.22	10.19	68.74	54.82	31.27	53.79	69.25	69.27	68.86	31.28	47.52	37.69	57.84	86.67	55.12	31.66	49.57	48.48	58.11	56.55	39.58
Program will not continue	7.50	8.85	5.57	17.09	16.90	6.08	7.00	8.45	6.45	25.01	3.27	3.48	1.79	0.23	12.23	9.23	15.79	12.77	0.39	9.14	20.13	8.07	7.20	0.12	6.44	10.93
Problems with contractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rebate amount will decrease	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Insufficient advertisement/program awareness	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dissatisfaction with equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Too time consuming or cumbersome paperwork	7.58	8.01	6.43	14.49	23.27	20.44	31.16	3.45	4.72	8.09	2.00	0.00	3.99	22.39	8.76	4.44	24.09	0.66	0.10	2.14	23.31	2.83	13.63	4.65	3.97	19.27
Lack of follow up	2.77	1.45	3.41	2.30	0.00	0.74	0.00	0.32	3.80	5.52	4.21	0.18	0.96	0.25	7.13	3.50	0.00	3.22	2.76	6.47	0.00	0.39	1.67	1.79	3.54	0.26
Source of program funding	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rebate too small	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rebate too small	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Expand program scope	2.27	0.99	2.92	1.64	2.49	2.70	0.00	0.00	0.05	0.23	1.24	0.04	1.04	3.17	1.76	29.51	4.23	1.12	1.67	0.13	0.00	7.53	2.69	0.22	1.84	3.65
Savings are not what were expected	1.85	3.36	1.16	2.03	0.08	4.54	0.00	3.28	0.18	3.84	1.63	2.87	0.38	0.00	12.63	0.21	0.08	2.27	0.31	0.83	7.78	1.50	2.12	1.99	1.47	3.06
Other	11.89	4.54	15.70	7.53	0.36	16.84	0.00	5.12	24.24	6.00	4.37	9.51	6.13	0.20	5.31	3.71	10.02	9.14	2.89	20.29	0.02	7.39	7.94	20.30	12.86	8.74
Refused	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00
Don't Know	0.14	0.14	0.14	0.18	0.12	0.15	0.52	0.11	0.06	0.21	0.30	0.15	0.17	0.05	0.21	0.03	0.08	0.13	0.07	0.06	0.17	0.23	0.17	0.13	0.14	0.16
n	*1037*	*411*	*430*	*196*	*34*	*44*	*11*	*99*	*120*	*70*	*169*	*74*	*182*	*37*	*96*	*60*	*41*	*112*	*68*	*123*	*48*	*129*	*444*	*113*	*850*	*187*
<PP4> On a scale of 0 - 10, where 0 is Completely Dissatisfied and 10 is Completely Satisfied, how would you rate your overall satisfaction with the the program?																										
1 Completely Dissatisfied	0.26	0.00	0.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.72	0.00	0.00	0.00	0.00	0.00	0.00	0.70	0.00	0.00	1.13
2	0.06	0.05	0.05	0.17	0.00	0.13	0.00	0.04	0.08	0.20	0.00	0.57	0.12	0.00	0.00	0.00	0.00	0.26	0.00	0.00	0.11	0.01	0.06	0.26	0.06	0.07
3	1.14	0.13	1.51	2.01	0.83	0.73	0.00	0.00	0.00	0.00	0.00	12.64	0.00	0.00	0.00	19.22	0.00	0.00	0.00	0.00	0.00	6.04	0.70	0.18	1.36	0.41
4	0.73	0.32	1.00	0.20	0.00	5.24	0.00	0.74	0.54	0.00	0.00	1.25	0.00	3.91	0.00	0.00	0.00	0.00	1.19	0.56	0.00	0.00	1.39	0.11	0.43	1.74
5	0.91	0.78	1.04	0.51	0.00	0.04	0.00	1.37	1.16	0.28	1.54	2.53	0.00	0.93	1.26	0.00	0.00	1.00	3.94	0.05	0.29	0.00	0.83	3.57	1.16	0.07
6	2.07	5.16	0.68	1.26	18.35	0.00	1.02	1.79	0.06	2.33	2.18	1.24	2.05	0.85	7.41	0.01	0.21	10.12	0.72	0.63	7.45	1.20	2.78	0.59	1.18	5.07
7	5.82	10.52	3.40	6.58	12.15	10.16	16.19	8.96	2.07	3.19	1.61	1.84	16.07	12.91	3.40	5.01	10.40	5.26	0.02	1.24	19.91	0.53	9.20	10.31	3.29	14.34
8	15.57	16.90	15.43	12.09	14.98	44.54	30.14	16.67	11.30	11.56	10.56	11.10	16.11	8.32	21.02	15.17	9.95	18.96	12.91	12.40	25.27	9.80	20.68	10.07	12.07	27.39
9	18.56	13.06	21.49	16.88	7.34	14.04	40.01	12.84	22.49	16.95	21.27	9.59	15.37	1.41	15.43	34.44	15.87	10.19	14.47	21.76	3.43	16.52	14.58	37.14	20.79	11.01
10 Completely Satisfied	54.67	52.53	54.97	59.70	45.83	25.13	12.64	57.48	62.32	64.03	62.81	59.25	48.71	71.67	51.49	20.42	63.50	52.72	65.90	63.37	43.12	65.86	48.90	37.34	59.41	38.67
Zero Completely Dissatisfied	0.22	0.55	0.01	0.60	0.52	0.00	0.00	0.13	0.00	1.46	0.04	0.00	1.56	0.00	0.00	0.00	0.07	1.50	0.86	0.00	0.42	0.04	0.19	0.44	0.26	0.11
n	*1213*	*493*	*498*	*222*	*36*	*46*	*11*	*127*	*142*	*81*	*194*	*82*	*222*	*44*	*108*	*72*	*48*	*127*	*83*	*144*	*57*	*152*	*509*	*141*	*1003*	*210*
<PP5> Why do you say that?																										
To replace old/outdated lighting equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As part of a planned remodeling/build-out/expansion	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
To gain more control over how the mequipment was used	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maintenance downtime/associated expenses for old equip were too high	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Had process problems and were seeking a solution	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
To improve lighting equipment performance	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
To improve the quality of the lighting in your facility	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lack of follow up	2.77	1.45	3.41	2.30	0.00	0.74	0.00	0.32	3.80	5.52	4.21	0.18	0.96	0.25	7.13	3.50	0.00	3.22	2.76	6.46	0.00	0.39	1.67	1.78	3.54	0.26
To improve visibility/plant safety	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Comply w/co. policies regarding lighting retrofits/remodeling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
To get a rebate from the program	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
To protect the environment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

* Values are shown as percent of respondents weighted by kWh.
* n is the number of respondents.

	ALL	PG&E(%)	SCE(%)	SDG&E(%)	PG&E Custom Program(%)	SCE Custom Program(%)	SDG&E Custom Program(%)	PG&E Deemed Program(%)	SCE Deemed Program(%)	SDG&E Deemed Program(%)	SCE Direct Install Program(%)	SDG&E Direct Install Program(%)	PG&E LGP Program(%)	SCE LGP Program(%)	PG&E L3P Program(%)	SCE L3P Program(%)	SDG&E L3P Program(%)	CFL Basic(%)	CFL Reflector(%)	High Bay(%)	HID(%)	LF Delamp(%)	Linear(%)	Occupancy Sensor(%)	Deemed(%)	All Calculated(%)
Other	100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	100.00	0.00
Refused	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Don't Know	0.00	.	.	0.00	.	.	.	.	.	0.00	.	.	.	.	.	.	.	.	.	.	.	0.00	.	.	0.00	.
n	*1*	*0*	*0*	*1*	*0*	*0*	*0*	*0*	*0*	*1*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*1*	*0*	*0*	*1*	*0*
<PP6> The program you participated in was run by an implementer, has your organizaiton participated in energy efficiency programs run by utility in the past three years?																										
Yes	46.16	33.38	73.73	40.95	75.52	47.31	100.00	22.33	100.00	0.00	0.00	0.00	38.63	14.77	18.09	86.23	40.29	35.62	0.00	11.74	26.16	48.30	48.58	70.20	40.17	53.48
No	47.03	60.76	19.59	47.70	2.93	0.00	0.00	76.04	0.00	0.00	0.00	0.00	54.70	84.22	79.55	13.62	48.24	57.30	99.18	78.07	73.09	49.64	44.86	17.61	56.23	35.79
Don't Know	6.81	5.86	6.68	11.35	21.55	52.69	0.00	1.63	0.00	0.00	0.00	0.00	6.66	1.01	2.36	0.15	11.47	7.09	0.82	10.19	0.75	2.06	6.56	12.19	3.60	10.73
n	*533*	*376*	*108*	*49*	*9*	*4*	*1*	*38*	*1*	*0*	*0*	*0*	*222*	*32*	*107*	*71*	*48*	*73*	*11*	*48*	*42*	*83*	*218*	*58*	*408*	*125*
<PP8> Please consider your recent experience with the program run by the implementer versus your past experience with the utility run programs. Are there any differences between the two that stand out? Any there attributes or services that seemed better																										
Related	99.86	99.89	99.79	100.00	100.00	97.92	100.00	100.00	0.00	0.00	0.00	0.00	100.00	100.00	99.23	100.00	100.00	100.00	0.00	100.00	97.63	100.00	100.00	99.71	99.89	99.85
Unrelated	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Refused	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Don't Know	0.14	0.11	0.21	0.00	0.00	2.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.77	0.00	0.00	0.00	0.00	0.00	2.37	0.00	0.00	0.29	0.11	0.15
n	*117*	*70*	*33*	*14*	*5*	*3*	*1*	*8*	*0*	*0*	*0*	*0*	*40*	*7*	*17*	*23*	*13*	*12*	*0*	*10*	*10*	*13*	*54*	*18*	*70*	*47*
<PP10> The program you participated in was run by &IOU, have you participated in programs run by governments, institutions, or other independent firms in the past three years? (select all that apply)																										
Local Government	5.37	15.77	3.01	1.14	38.05	4.81	0.00	8.97	2.95	1.50	2.50	0.68	0.00	0.02	0.00	0.00	0.00	3.02	0.00	1.78	12.89	5.16	9.45	5.67	3.74	14.85
State Government or Institution	5.89	15.44	3.69	2.27	10.36	0.81	0.00	17.00	5.86	3.54	0.90	0.00	0.00	28.29	0.00	0.00	0.00	2.42	6.43	5.26	57.81	0.13	4.97	2.40	6.16	4.30
Independent Firm	4.64	7.30	3.08	12.79	0.00	4.78	0.51	9.53	4.27	19.87	0.58	0.00	0.00	0.00	0.00	0.00	0.00	2.59	2.58	6.10	34.71	4.66	1.73	0.15	4.93	2.97
Other	84.51	69.33	88.61	84.36	58.48	79.86	99.49	72.64	86.44	75.97	95.60	99.32	0.00	71.69	100.00	100.00	0.00	96.82	89.36	87.91	3.40	88.35	83.76	92.17	86.31	74.03
Refused	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Don't Know	2.10	1.51	2.48	0.00	3.47	11.29	0.00	0.91	1.45	0.00	0.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.63	0.61	2.83	1.83	4.46	0.00	1.08	8.04
n	*680*	*117*	*390*	*173*	*27*	*42*	*10*	*89*	*141*	*81*	*194*	*82*	*0*	*12*	*1*	*1*	*0*	*54*	*72*	*96*	*15*	*69*	*291*	*83*	*595*	*85*
<PP12> Please consider your experiences with the program run by an independent firm versus your recent experience with the utility run program. Are there any differences between the two that stand out? Are there attributes or services that seemed better																										
Related	100.00	100.00	100.00	100.00	0.00	100.00	100.00	100.00	100.00	100.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Unrelated	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Refused	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Don't Know	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	*21*	*5*	*13*	*3*	*0*	*6*	*1*	*5*	*3*	*2*	*4*	*0*	*0*	*0*	*0*	*0*	*0*	*2*	*4*	*2*	*3*	*1*	*8*	*1*	*14*	*7*
<PP14> Please consider your experiences with the program run by a government or institution versus your recent experience with the utility run program. Are there any differences between the two that stand out? Are there attributes that seemed better in o																										
None	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unrelated	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Refused	6.04	0.00	100.00	100.00	0.00	0.00	0.00	0.00	0.00	100.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	100.00	6.04	0.00
Don't Know	93.96	100.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	100.00	0.00	0.00	0.00	93.96	0.00
n	*5*	*3*	*1*	*1*	*0*	*0*	*0*	*3*	*0*	*1*	*1*	*0*	*0*	*0*	*0*	*0*	*0*	*1*	*0*	*1*	*1*	*1*	*0*	*1*	*5*	*0*
<PP16> Which entity, the utility or the implementer was more effective in supporting your organization's decision making process?																										
Utility	13.92	13.58	15.95	6.91	11.27	35.38	0.00	0.00	31.08	0.00	4.47	0.00	29.32	52.22	58.23	1.38	13.04	6.23	0.00	23.21	6.79	1.33	13.18	38.86	12.32	18.99
Implementer	40.23	37.53	51.63	3.57	24.59	18.58	100.00	46.63	47.98	1.82	74.57	0.00	29.11	47.78	34.68	54.04	4.79	79.57	76.71	59.38	9.22	71.91	25.54	0.46	44.94	25.36
Very little difference	44.44	46.93	32.41	84.37	64.15	46.04	0.00	49.49	20.94	98.18	20.96	0.00	41.57	0.00	7.09	44.59	72.43	14.21	23.29	17.41	84.00	26.75	59.62	50.77	41.66	53.22
Don't Know	1.41	1.96	0.00	5.16	0.00	0.00	0.00	3.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.74	0.00	0.00	0.00	0.00	0.00	1.66	9.92	1.09	2.42
n	*116*	*53*	*47*	*16*	*5*	*6*	*1*	*14*	*8*	*5*	*7*	*0*	*25*	*9*	*9*	*17*	*10*	*12*	*5*	*13*	*14*	*13*	*48*	*11*	*83*	*33*
<PP18> How significant was this difference, would you say…																										
Very significant	33.13	37.19	30.36	32.37	66.26	9.72	0.00	18.52	40.80	100.00	32.39	0.00	60.13	99.78	34.13	14.06	26.86	13.99	93.05	28.45	49.24	5.35	52.74	62.87	30.76	42.81
Somewhat significant or	48.73	61.16	39.43	67.63	26.36	90.28	100.00	81.48	0.00	0.00	61.95	0.00	38.09	0.22	64.89	78.74	73.14	74.48	6.95	23.51	40.79	94.65	39.74	35.96	47.21	54.95
Not very significant	18.13	1.65	30.21	0.00	7.38	0.00	0.00	0.00	59.20	0.00	5.66	0.00	1.77	0.00	0.98	7.20	0.00	11.53	0.00	48.04	9.96	0.00	7.52	1.17	22.03	2.24
n	*73*	*34*	*34*	*5*	*4*	*4*	*1*	*6*	*6*	*1*	*5*	*0*	*18*	*9*	*6*	*10*	*3*	*8*	*2*	*11*	*9*	*9*	*28*	*6*	*51*	*22*
<PP20> Which entity had a better technical understanding of the energy use at your facility and provided the best technical assistance in specifying the project?																										

* Values are shown as percent of respondents weighted by kWh.
* n is the number of respondents.

	ALL	PG&E(%)	SCE(%)	SDG&E(%)	PG&E Custom Program(%)	SCE Custom Program(%)	SDG&E Custom Program(%)	PG&E Deemed Program(%)	SCE Deemed Program(%)	SDG&E Deemed Program(%)	SCE Direct Install Program(%)	SDG&E Direct Install Program(%)	PG&E LGP Program(%)	SCE LGP Program(%)	PG&E L3P Program(%)	SCE L3P Program(%)	SDG&E L3P Program(%)	CFL Basic(%)	CFL Reflector(%)	High Bay(%)	HID(%)	LF Delamp(%)	Linear(%)	Occupancy Sensor(%)	Deemed(%)	All Calculated(%)
Utility	17.40	19.13	16.40	12.97	8.62	41.14	0.00	4.83	0.00	0.57	48.14	0.00	24.50	52.16	91.50	18.85	13.70	73.46	4.86	3.72	17.15	13.03	24.00	30.53	10.76	34.88
Implementer	50.25	37.17	66.24	27.00	23.76	58.86	100.00	54.88	89.85	30.79	26.64	0.00	30.95	47.84	3.18	55.99	26.54	0.96	76.71	77.65	23.77	69.68	36.20	0.00	60.42	23.47
Very little difference	18.19	13.85	16.64	56.45	0.83	0.00	0.00	9.36	10.15	0.00	18.67	0.00	43.89	0.00	5.33	25.16	59.76	11.59	18.44	4.99	1.46	17.29	16.98	69.47	19.06	15.90
Don't Know	14.16	29.85	0.72	3.58	66.79	0.00	0.00	30.92	0.00	68.64	6.55	0.00	0.66	0.00	0.00	0.00	0.00	13.98	0.00	13.64	57.63	0.00	22.81	0.00	9.76	25.75
n	*106*	*51*	*42*	*13*	*5*	*5*	*1*	*12*	*7*	*3*	*7*	*0*	*25*	*9*	*9*	*14*	*9*	*11*	*5*	*13*	*12*	*13*	*43*	*9*	*75*	*31*
<PP22> How significant was this difference, would you say…																										
Very significant	47.43	58.40	41.66	28.32	100.00	6.10	0.00	63.98	57.18	100.00	90.96	0.00	39.61	48.12	33.50	16.71	25.49	0.56	94.05	75.46	37.22	27.74	36.46	50.84	52.77	30.29
Somewhat significant or	46.70	35.37	52.29	71.68	0.00	93.90	100.00	35.79	41.56	0.00	9.04	0.00	57.77	51.49	36.05	68.85	74.51	93.44	4.80	24.54	51.83	72.26	52.48	0.00	42.60	59.89
Not very significant	5.86	6.23	6.03	0.00	0.00	0.00	0.00	0.23	1.26	0.00	0.00	0.00	2.62	0.00	30.45	14.44	0.00	6.00	1.16	0.00	10.95	0.00	11.04	49.16	4.62	9.82
Don't Know	0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.01	0.00
n	*76*	*34*	*35*	*7*	*2*	*5*	*1*	*7*	*6*	*2*	*5*	*0*	*18*	*9*	*7*	*10*	*4*	*6*	*4*	*10*	*10*	*10*	*30*	*6*	*52*	*24*
<PP24> Which entity, the utility or the implementer was more effective in supporting you through the application process																										
Utility	22.49	13.71	30.73	23.62	8.62	41.14	0.00	4.69	59.21	0.57	0.00	0.00	19.19	1.07	52.16	11.87	24.97	73.54	0.00	38.27	26.29	4.29	16.93	35.61	20.82	26.88
Implementer	58.12	63.90	58.27	20.07	87.90	58.86	100.00	60.49	29.48	68.64	73.74	0.00	61.61	98.93	31.10	79.48	17.11	26.46	75.29	44.73	14.63	84.86	56.56	61.61	62.41	46.83
Very little difference	10.20	14.85	6.16	7.51	3.48	0.00	0.00	18.58	0.00	0.00	23.14	0.00	18.54	0.00	16.74	8.65	7.95	0.00	19.38	3.35	59.08	0.87	16.03	2.78	8.71	14.15
Don't Know	9.18	7.55	4.84	48.81	0.00	0.00	0.00	16.24	11.31	30.79	3.12	0.00	0.66	0.00	0.00	0.00	49.98	0.00	5.33	13.64	0.00	9.97	10.49	0.00	8.06	12.14
n	*106*	*51*	*42*	*13*	*5*	*5*	*1*	*12*	*7*	*3*	*7*	*0*	*25*	*9*	*9*	*14*	*9*	*11*	*5*	*13*	*12*	*13*	*43*	*9*	*75*	*31*
<PP26> How significant was this difference, would you say…																										
Very significant	58.39	46.21	69.80	41.33	24.61	43.35	0.00	58.61	40.80	100.00	96.89	0.00	24.41	99.94	97.88	92.80	36.35	80.60	94.80	45.70	48.70	60.79	46.19	100.00	63.44	43.35
Somewhat significant or	28.26	52.64	5.98	54.75	75.39	56.65	100.00	41.39	3.88	0.00	3.11	0.00	70.11	0.00	2.12	1.90	59.35	3.42	5.20	10.13	41.42	39.21	49.18	0.00	19.59	54.07
Not very significant	13.35	1.14	24.23	3.91	0.00	0.00	0.00	0.00	55.31	0.00	0.00	0.00	5.48	0.06	0.00	5.31	4.30	15.98	0.00	44.17	9.88	0.00	4.63	0.00	16.97	2.59
n	*79*	*34*	*36*	*9*	*3*	*5*	*1*	*7*	*6*	*2*	*4*	*0*	*19*	*8*	*5*	*13*	*6*	*9*	*2*	*9*	*10*	*10*	*32*	*7*	*54*	*25*
<LT2> For how many years have you been participating in utility's energy efficiency program(s)?																										
1	4.94	6.51	4.49	2.27	1.27	0.00	0.00	11.34	6.48	2.45	7.34	0.00	4.91	0.00	0.00	0.82	2.64	0.94	12.35	7.38	0.27	6.72	4.64	1.44	6.14	2.19
2	9.90	5.70	14.55	0.33	0.00	11.50	0.00	10.76	20.93	0.51	10.72	0.00	3.25	0.01	4.77	1.06	0.24	1.03	4.96	23.59	0.02	6.43	3.63	18.27	12.87	3.14
3	8.28	9.17	6.11	15.97	1.77	12.05	2.53	18.67	2.76	16.01	4.49	19.65	1.53	50.00	12.85	0.26	17.41	6.95	38.67	5.34	0.00	10.66	8.09	6.23	7.02	11.13
4	7.46	4.35	9.67	6.29	1.68	0.00	51.55	7.23	11.04	6.69	31.98	2.37	3.14	2.54	0.00	0.59	0.00	16.26	0.00	10.99	27.71	3.55	1.85	16.06	9.88	1.94
5	13.66	10.11	17.75	4.78	7.49	9.23	0.00	15.04	20.74	8.15	8.53	24.18	6.62	8.36	3.62	24.28	0.09	9.59	0.00	10.48	25.02	19.26	9.58	25.93	16.67	6.81
6	7.32	4.55	9.77	4.00	3.82	16.18	45.91	3.47	3.11	2.56	32.25	0.00	6.98	0.34	0.80	15.50	0.00	0.89	42.56	5.27	0.00	11.85	6.51	3.39	6.27	9.72
7	7.01	4.07	10.12	1.04	3.55	22.47	0.00	2.02	12.31	0.00	0.00	0.00	7.66	0.00	0.00	0.32	2.31	0.32	0.00	0.00	10.72	0.00	13.90	2.08	6.64	7.85
8	8.48	7.70	9.06	8.04	7.35	18.84	0.00	3.90	8.64	16.19	0.00	1.21	11.21	0.00	17.90	10.34	1.91	1.17	0.17	13.35	0.00	4.68	9.11	8.62	7.45	10.80
9	0.39	0.00	0.58	0.66	0.00	0.00	0.00	0.00	0.89	0.00	0.87	0.00	0.00	0.00	0.00	0.00	1.46	0.00	1.29	1.35	0.00	0.00	0.17	0.00	0.46	0.24
10	9.95	14.48	3.43	27.46	29.05	4.62	0.00	10.56	1.33	39.81	0.47	0.00	9.17	2.09	17.48	12.55	22.11	30.95	0.00	10.11	24.59	1.01	12.71	3.20	8.02	14.33
11	0.03	0.09	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.26	0.00	0.00	0.11	0.02	0.04
12	3.51	2.18	2.68	11.51	0.00	0.22	0.00	1.86	2.90	0.32	0.00	0.00	0.09	0.00	28.28	6.97	25.26	6.37	0.00	0.00	0.33	11.31	4.95	0.11	1.89	7.19
13	0.41	1.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.23	0.00	0.08	0.00	0.59	0.00
14	0.36	0.05	0.18	2.17	0.00	1.27	0.00	0.00	0.00	0.00	0.00	8.12	0.16	0.00	0.00	0.00	3.96	0.00	0.00	0.00	0.00	0.17	0.55	0.66	0.09	0.98
15	5.24	5.33	4.50	8.56	0.00	3.50	0.00	9.78	1.31	0.48	0.00	1.53	3.81	25.49	1.71	13.90	18.39	10.68	0.00	1.69	2.01	14.96	4.76	6.44	4.24	7.53
16	0.04	0.00	0.00	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.06	0.00
17	0.46	1.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.05	0.00	0.00	1.52
18	0.38	0.00	0.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.66	0.00	0.00	0.00	0.00	0.00	0.00	0.86	0.00	0.00	1.24
20	2.79	5.94	0.85	2.44	15.70	0.12	0.00	3.59	0.11	1.26	1.05	0.00	3.25	11.17	0.00	0.97	4.19	0.00	0.00	1.95	0.33	2.66	3.97	2.35	1.70	5.26
22	0.10	0.09	0.00	0.61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.79	0.00	0.00	1.89	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.16	0.00	0.15	0.00
25	2.29	6.21	0.00	1.29	2.56	0.00	0.00	0.64	0.00	1.12	0.00	16.68	16.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	4.80	0.73	3.01	0.63
26	0.15	0.00	0.27	0.00	0.00	0.00	0.00	0.00	0.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.98	0.21	0.00
30	0.07	0.12	0.04	0.00	0.00	0.00	0.00	0.00	0.08	0.00	0.00	0.00	0.05	0.00	2.16	0.00	0.00	0.32	0.00	0.00	0.00	0.00	0.14	0.00	0.09	0.02
35	0.03	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.09
Refused	0.05	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00	0.07	0.00
Don't Know	6.75	10.61	5.23	2.22	25.76	0.00	0.00	1.02	6.89	4.45	2.30	5.25	12.89	0.00	8.54	7.80	0.02	14.55	0.00	8.33	1.51	6.20	8.23	3.38	6.47	7.37
n	*494*	*233*	*181*	*80*	*18*	*22*	*3*	*49*	*62*	*29*	*23*	*14*	*145*	*18*	*21*	*56*	*34*	*58*	*8*	*58*	*20*	*57*	*215*	*78*	*353*	*141*
<LT3> During this time, how many times has your organization participated in these program(s)?																										
7 to 10 times, or more	34.59	31.60	35.79	37.95	60.15	47.61	48.45	11.39	33.89	47.79	0.00	8.12	32.84	85.54	65.45	40.96	30.01	32.96	0.00	30.56	53.87	13.50	49.28	13.79	25.46	55.36
4 to 7 times	20.57	20.16	22.19	14.00	29.13	26.00	0.00	23.02	23.91	1.98	0.00	8.21	12.70	1.52	5.61	34.10	28.31	10.60	0.00	10.11	21.09	38.79	14.37	45.98	20.26	21.27
2 to 4 times	27.55	27.73	26.86	30.31	3.55	9.07	51.55	36.86	26.10	18.87	80.37	44.65	34.29	12.94	15.64	13.78	37.03	28.62	82.14	34.52	14.53	15.74	22.25	32.61	33.19	14.73
less than 2 times	12.22	16.31	8.71	16.62	1.27	0.04	0.00	25.84	11.56	29.99	17.33	29.02	14.87	0.00	12.96	3.19	4.57	18.50	17.86	15.96	10.51	24.75	8.63	7.62	16.53	2.42
Don't Know	5.07	4.20	6.45	1.12	5.90	17.28	0.00	2.89	4.54	1.38	2.30	10.00	5.30	0.00	0.34	7.97	0.09	9.32	0.00	8.86	0.00	7.22	5.48	0.00	4.56	6.23
n	*494*	*233*	*181*	*80*	*18*	*22*	*3*	*49*	*62*	*29*	*23*	*14*	*145*	*18*	*21*	*56*	*34*	*58*	*8*	*58*	*20*	*57*	*215*	*78*	*353*	*141*

* Values are shown as percent of respondents weighted by kWh.
* n is the number of respondents.

	ALL	PG&E(%)	SCE(%)	SDG&E(%)	PG&E Custom Program(%)	SCE Custom Program(%)	SDG&E Custom Program(%)	PG&E Deemed Program(%)	SCE Deemed Program(%)	SDG&E Deemed Program(%)	SCE Direct Install Program(%)	SDG&E Direct Install Program(%)	PG&E LGP Program(%)	SCE LGP Program(%)	PG&E L3P Program(%)	SCE L3P Program(%)	SDG&E L3P Program(%)	CFL Basic(%)	CFL Reflector(%)	High Bay(%)	HID(%)	LF Delamp(%)	Linear(%)	Occupancy Sensor(%)	Deemed(%)	All Calculated(%)
<CA6> What type of equipment did you install through this (these) program(s)?																										
Indoor lighting	89.26	85.26	91.02	93.54	97.16	80.35	100.00	82.62	94.39	98.17	98.52	90.11	83.19	100.00	68.66	80.04	87.65	78.72	99.82	87.71	89.70	95.60	88.55	86.72	90.18	87.13
Cooling equipment	19.60	24.38	16.50	19.10	35.76	31.76	48.45	14.30	7.60	5.03	1.48	9.02	27.92	10.59	37.81	48.15	31.32	37.21	0.00	9.01	12.74	22.91	26.43	17.17	11.84	37.53
Natural gas equipment (Water heater/furnace/appliances)	8.12	9.47	7.35	7.56	16.32	24.84	0.00	0.89	3.01	1.87	0.00	0.00	7.97	3.33	63.30	14.28	16.06	2.70	0.00	4.82	12.74	4.29	12.50	3.10	4.41	16.71
Insulation or windows	4.42	8.32	1.68	5.03	18.62	0.14	0.00	1.22	0.15	0.33	0.00	0.00	5.19	3.16	44.62	9.43	11.71	22.74	0.00	0.07	1.61	0.52	7.84	3.26	1.21	11.82
Refrigeration	5.74	2.71	7.17	8.56	5.40	7.15	0.00	0.01	0.27	8.68	0.00	9.02	1.42	0.00	22.74	40.64	9.78	0.16	0.00	0.53	0.00	16.78	7.51	3.74	5.13	7.16
Industrial process equipment	3.72	1.01	4.17	10.17	0.00	7.97	0.00	0.89	0.37	3.44	0.00	9.13	2.00	8.40	0.00	16.50	19.54	0.12	0.00	0.29	1.82	0.00	6.75	3.89	1.12	9.74
Greenhouse heat curtains	0.15	0.36	0.04	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.00	1.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.24	0.15	0.21	0.00
Outdoor lighting	1.59	2.47	0.92	1.96	5.40	0.00	0.00	0.05	0.00	4.18	0.00	0.00	1.82	2.72	14.67	5.22	0.00	0.16	0.00	0.38	3.17	0.00	2.47	1.66	0.95	3.07
Food Service Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HVAC	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Solar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
None	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other	13.75	12.46	15.14	11.24	7.96	32.98	0.00	10.13	12.53	1.58	4.09	13.08	15.01	4.34	36.13	19.41	23.76	1.18	0.18	7.62	9.48	5.97	16.32	26.35	12.44	16.77
Refused	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Don't Know	1.79	2.29	1.79	0.28	0.00	0.00	0.00	3.58	2.19	0.00	0.00	5.83	2.48	0.00	0.00	3.38	0.01	0.44	0.00	4.07	0.00	1.39	1.31	1.84	2.56	0.02
n	*448*	*211*	*163*	*74*	*17*	*21*	*3*	*47*	*57*	*27*	*19*	*13*	*129*	*18*	*18*	*48*	*31*	*49*	*8*	*50*	*19*	*49*	*197*	*76*	*313*	*135*
<LT6> What factors led you to participate in these program(s)?																										
Rebate/Incentive	25.90	30.54	22.10	30.43	28.95	40.27	0.00	28.05	13.75	32.80	9.22	18.39	31.09	83.59	53.16	24.84	33.69	33.85	0.00	16.01	45.12	32.90	34.59	8.61	19.53	41.14
Energy savings	32.31	33.35	33.11	25.42	35.56	26.16	0.00	31.14	36.44	11.35	11.56	29.25	39.55	4.61	4.05	51.62	41.93	14.68	12.35	23.23	49.01	39.66	27.30	55.23	34.10	28.04
Cost savings	30.74	30.69	30.13	33.81	42.49	34.87	0.00	37.41	18.92	30.92	52.38	30.85	14.29	54.91	41.78	42.68	41.58	30.05	93.03	21.84	33.82	25.56	32.90	22.63	27.66	38.13
Quality of equipment	8.20	6.67	6.98	18.53	0.00	7.37	0.00	9.78	1.91	32.10	44.86	35.10	5.87	0.34	8.40	0.42	6.45	0.79	48.81	5.88	29.96	4.26	5.41	5.37	10.05	3.80
Payback	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ease of program participation	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Recommendation from utility rep or contractor	4.19	4.68	4.49	1.35	0.00	0.00	0.00	7.39	0.49	0.00	26.65	0.00	4.07	7.52	1.85	6.60	2.96	20.24	0.00	3.94	0.00	0.00	2.75	12.41	4.65	3.11
Other	18.97	18.81	17.98	24.17	25.80	24.62	100.00	13.33	24.32	24.30	1.63	29.76	18.50	2.72	42.91	5.17	12.90	11.74	0.72	37.83	3.47	25.89	13.08	16.89	18.62	19.81
Refused	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Don't Know	7.47	2.72	11.69	1.24	0.00	0.00	0.00	1.02	19.49	2.77	2.30	0.00	6.66	1.94	0.34	4.30	0.10	16.41	0.00	8.27	1.67	5.68	10.90	0.65	10.35	0.59
n	*487*	*230*	*178*	*79*	*16*	*21*	*3*	*49*	*60*	*28*	*23*	*14*	*144*	*18*	*21*	*56*	*34*	*58*	*8*	*56*	*19*	*56*	*213*	*77*	*349*	*138*
<LT7> And exactly how did that experience help to convince you to install this lighting equipment?																										
Positive experience	32.00	27.21	34.04	36.16	36.68	19.43	0.00	33.60	43.18	12.42	29.88	42.32	14.26	19.14	23.87	17.73	62.64	13.63	0.34	36.06	2.17	20.69	29.00	61.15	33.79	28.04
Ease of participation	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Reliability of program	7.01	8.89	6.94	1.10	11.88	0.00	0.00	10.77	2.38	1.41	59.27	9.56	2.15	0.36	31.86	7.31	0.00	4.74	85.92	3.42	16.52	0.41	6.87	2.51	7.95	4.92
Financial benefits (upfront costs, savings, payback, ROI)	29.77	41.02	25.70	15.81	63.19	44.99	0.00	36.38	15.06	13.06	4.65	50.73	27.82	72.07	57.48	45.96	16.88	32.95	2.61	16.20	59.51	35.25	36.95	17.74	25.15	39.95
Energy efficiency/environmental impacts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
No impact	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Familiarity with program requirements	3.09	5.02	2.39	0.68	0.00	7.02	0.00	0.01	1.78	1.71	0.00	0.00	14.34	0.65	0.00	2.30	0.00	3.55	0.00	2.81	2.62	0.61	4.50	1.37	1.54	6.52
Other	21.77	20.12	20.21	36.23	4.37	28.57	100.00	23.06	20.14	42.03	9.05	27.12	30.85	8.14	0.00	22.55	20.44	33.08	10.38	33.41	9.83	35.77	15.60	17.32	20.61	24.35
Refused	1.70	1.61	0.35	9.76	0.00	0.00	0.00	0.00	0.00	24.57	0.00	0.00	4.60	0.00	0.00	2.50	0.00	0.00	0.00	0.00	11.00	1.84	2.28	0.00	2.41	0.13
Don't Know	9.77	5.55	13.51	2.27	7.81	0.00	0.00	1.64	21.00	4.81	6.09	6.11	8.10	0.00	3.84	4.20	0.04	21.32	0.75	9.17	0.00	5.48	14.30	2.03	12.86	2.95
n	*421*	*199*	*156*	*66*	*15*	*18*	*3*	*40*	*55*	*23*	*18*	*13*	*128*	*16*	*16*	*49*	*27*	*54*	*6*	*50*	*17*	*45*	*183*	*66*	*302*	*119*
<LT8> Have these programs had any long-term influence on your organization's energy efficiency related practices and policies that go beyond the immediate effect of incentives on individual projects?																										
Yes	62.30	71.41	58.36	55.70	67.10	51.23	100.00	84.65	55.55	7.92	0.00	100.00	59.82	27.17	90.72	84.39	89.12	64.70	0.00	64.23	31.25	83.26	54.05	86.85	63.48	60.70
No	29.75	28.28	28.19	42.58	32.90	48.77	0.00	15.35	23.16	87.99	0.00	0.00	39.11	69.99	9.28	8.01	10.88	35.30	0.00	34.52	67.35	16.74	30.91	13.15	24.34	37.08
Don't Know	7.95	0.30	13.44	1.73	0.00	0.00	0.00	0.00	21.29	4.09	0.00	0.00	1.07	2.84	0.00	7.60	0.00	0.00	0.00	1.25	1.40	0.00	15.04	0.00	12.18	2.21
n	*197*	*87*	*79*	*31*	*15*	*15*	*2*	*15*	*25*	*11*	*0*	*2*	*47*	*14*	*10*	*25*	*16*	*17*	*0*	*22*	*9*	*20*	*95*	*34*	*111*	*86*
<LT9> Has your organization developed a specification policy for the selection of energy-efficient equipment?																										
Yes	52.40	52.81	51.94	53.40	54.23	35.70	100.00	40.88	62.70	15.70	0.00	50.29	58.69	39.19	75.55	42.54	50.25	83.76	0.00	75.24	57.82	30.46	52.34	47.64	53.00	51.56
No	45.47	47.19	48.06	24.13	45.77	64.30	0.00	59.12	37.30	84.30	0.00	49.71	41.31	60.81	24.45	57.46	21.96	16.24	0.00	24.76	42.18	69.54	42.84	52.36	47.00	43.29
Don't Know	2.13	0.00	0.00	22.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	27.79	0.00	0.00	0.00	0.00	0.00	4.82	0.00	0.00	5.15
n	*138*	*63*	*53*	*22*	*12*	*10*	*2*	*12*	*15*	*5*	*0*	*2*	*32*	*10*	*7*	*18*	*13*	*12*	*0*	*16*	*6*	*15*	*65*	*24*	*78*	*60*
<LT10> Has your organization assigned responsibility for controlling energy usage and costs to any of the following?																										
An in-house staff person	47.48	41.11	51.71	48.56	35.83	45.49	5.23	35.37	53.31	56.96	0.00	50.29	54.36	90.53	47.65	47.75	53.51	2.50	0.00	57.85	65.27	31.15	48.54	47.84	49.89	44.06
A group of staff	24.53	27.70	18.28	47.35	60.97	27.33	94.77	4.82	1.19	34.86	0.00	0.00	15.91	9.47	9.73	46.19	43.69	30.63	0.00	5.45	1.12	36.83	38.68	5.66	11.04	43.67
An outside contractor	8.90	14.27	6.35	2.27	0.00	13.43	0.00	15.69	7.97	0.00	0.00	0.00	24.46	0.00	39.26	0.00	2.80	52.23	0.00	15.34	0.00	10.25	9.32	1.99	10.71	6.34
None	19.09	16.93	23.66	1.83	3.20	13.75	0.00	44.12	37.52	8.18	0.00	49.71	5.27	0.00	3.35	6.06	0.00	14.65	0.00	21.35	33.61	21.77	3.45	44.51	28.36	5.93

* Values are shown as percent of respondents weighted by kWh.
* n is the number of respondents.

	ALL	PG&E(%)	SCE(%)	SDG&E(%)	PG&E Custom Program(%)	SCE Custom Program(%)	SDG&E Custom Program(%)	PG&E Deemed Program(%)	SCE Deemed Program(%)	SDG&E Deemed Program(%)	SCE Direct Install Program(%)	SDG&E Direct Install Program(%)	PG&E LGP Program(%)	SCE LGP Program(%)	PG&E L3P Program(%)	SCE L3P Program(%)	SDG&E L3P Program(%)	CFL Basic(%)	CFL Reflector(%)	High Bay(%)	HID(%)	LF Delamp(%)	Linear(%)	Occupancy Sensor(%)	Deemed(%)	All Calculated(%)
n	*138*	*63*	*53*	*22*	*12*	*10*	*2*	*12*	*15*	*5*	*0*	*2*	*32*	*10*	*7*	*18*	*13*	*12*	*0*	*16*	*6*	*15*	*65*	*24*	*78*	*60*
<LT11> Does your organization have any internal incentive or reward policies for business units or staff responsible for managing energy costs?																										
Yes	11.18	18.31	5.73	14.03	37.77	2.86	94.77	14.91	8.51	28.52	0.00	0.00	0.69	0.00	0.00	2.83	2.94	22.42	0.00	9.50	0.00	2.61	15.22	10.55	8.23	15.38
No	87.83	79.02	94.27	85.97	62.23	97.14	5.23	78.42	91.49	71.48	0.00	100.00	97.14	100.00	100.00	97.17	97.06	76.61	0.00	90.50	100.00	91.37	84.37	89.45	90.41	84.15
Don't Know	0.99	2.67	0.00	0.00	0.00	0.00	0.00	6.67	0.00	0.00	0.00	0.00	2.17	0.00	0.00	0.00	0.00	0.97	0.00	0.00	0.00	6.02	0.41	0.00	1.36	0.46
n	*138*	*63*	*53*	*22*	*12*	*10*	*2*	*12*	*15*	*5*	*0*	*2*	*32*	*10*	*7*	*18*	*13*	*12*	*0*	*16*	*6*	*15*	*65*	*24*	*78*	*60*
<CA2> In marketing materials or in communications with customers, does your company highlight the ways in which your business is environmentally conscious?																										
Yes	53.30	55.11	50.94	63.29	73.20	59.84	77.29	48.81	48.95	65.91	41.84	26.78	54.68	83.65	56.22	74.95	73.39	47.18	43.89	48.39	52.70	43.67	58.36	67.44	48.24	70.38
No	44.49	43.05	46.44	36.04	17.42	36.54	22.71	51.19	47.90	32.39	57.40	73.22	43.94	16.35	43.36	19.38	26.61	52.58	53.61	48.68	41.37	56.19	38.94	31.96	50.12	25.46
Refused	0.05	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.16	0.00	0.00	0.00	0.00	0.00	0.07	0.00
Don't Know	2.16	1.84	2.54	0.67	9.38	3.61	0.00	0.00	3.15	1.71	0.46	0.00	1.38	0.00	0.42	5.66	0.00	0.24	1.35	2.92	5.93	0.14	2.70	0.60	1.57	4.16
n	*1213*	*493*	*498*	*222*	*36*	*46*	*11*	*127*	*142*	*81*	*194*	*82*	*222*	*44*	*108*	*72*	*48*	*127*	*83*	*144*	*57*	*152*	*509*	*141*	*1003*	*210*
<A3A> According to our records, your organization inatalled <qty1> many lighting measures through <> period is this correct?																										
Yes-quantity correct	87.53	82.17	91.91	78.80	46.32	72.84	100.00	96.14	94.19	96.92	96.74	98.29	77.10	79.56	76.84	87.33	30.32	80.65	99.66	97.70	77.22	96.19	73.93	95.96	94.13	56.01
Yes-Change Quantity	12.27	17.26	8.09	21.12	53.68	27.16	0.00	2.63	5.81	3.08	3.26	1.43	22.80	20.44	23.16	12.67	69.60	19.29	0.34	2.01	22.78	3.81	25.75	4.04	5.63	43.96
Did Not Install	0.10	0.29	0.00	0.00	0.00	0.00	0.00	0.67	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.27	0.00	0.12	0.00
Don't Know	0.10	0.28	0.00	0.08	0.00	0.00	0.00	0.56	0.00	0.00	0.00	0.28	0.10	0.00	0.00	0.00	0.06	0.06	0.00	0.30	0.00	0.00	0.05	0.00	0.11	0.03
n	*2382*	*1263*	*744*	*375*	*44*	*51*	*1*	*257*	*297*	*140*	*194*	*128*	*827*	*78*	*135*	*124*	*106*	*335*	*104*	*272*	*81*	*305*	*1027*	*258*	*1992*	*390*
<A3A_QTY> Approximately how many of this lighting measure did you install?																										
0 to 10	7.95	4.41	13.32	2.17	0.03	1.20	0.00	12.19	33.50	7.79	78.72	25.49	6.92	0.00	0.05	2.22	1.11	26.36	0.00	9.52	5.83	10.68	7.17	5.15	21.45	1.31
11 to 30	10.70	8.87	14.77	2.92	1.00	5.06	0.00	1.06	41.82	10.37	11.45	25.46	15.19	0.73	0.28	0.09	1.73	12.69	73.59	56.38	7.97	32.16	6.03	6.80	25.11	3.61
31 to 50	5.85	8.79	4.22	0.19	8.35	1.37	0.00	22.74	6.95	0.00	0.00	0.00	9.21	0.04	3.01	13.13	0.24	5.62	0.00	5.90	7.29	8.45	5.17	10.31	10.34	3.64
51 to 100	9.94	11.38	8.34	10.10	7.55	9.93	0.00	2.24	10.85	44.14	9.83	0.00	13.97	0.41	11.27	1.62	7.34	11.88	26.41	0.82	22.74	12.19	5.48	49.56	14.11	7.88
101 to 500	19.19	18.52	14.58	38.99	24.61	18.99	100.00	48.66	0.00	18.25	0.00	15.74	11.90	35.72	24.89	20.87	35.98	12.87	0.00	21.88	7.86	5.38	21.62	14.64	8.41	24.50
501 to 1000	9.75	6.40	14.87	4.07	14.30	25.45	0.00	0.00	0.00	5.39	0.00	0.00	4.35	8.28	0.00	18.25	4.43	10.49	0.00	0.00	0.45	0.00	12.96	0.00	2.18	13.47
More than 1000	36.62	41.63	29.91	41.55	44.16	37.99	0.00	13.10	6.88	14.06	0.00	33.32	38.45	54.82	60.50	43.82	49.16	20.10	0.00	5.50	47.87	31.14	41.58	13.55	18.40	45.59
n	*762*	*560*	*124*	*78*	*40*	*50*	*1*	*14*	*21*	*11*	*11*	*9*	*483*	*19*	*23*	*23*	*57*	*140*	*5*	*17*	*60*	*43*	*441*	*56*	*412*	*350*
<A3A_OTH> Would you say that the number of units installed through the program were ...?																										
Less than 10 units	2.04	2.79	0.00	9.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.60	0.00	0.00	0.00	11.59	31.80	0.00	0.00	10.46	0.00	0.58	0.63	5.48	0.94
Between 11 and 50 units	17.89	18.32	16.13	26.68	0.46	0.00	0.00	20.57	100.00	100.00	0.00	0.00	23.98	0.00	29.18	40.19	17.63	22.37	0.00	43.63	34.25	82.62	10.53	49.14	36.35	11.96
50 to 100 units or	9.20	13.82	3.67	0.00	5.87	6.27	0.00	0.00	0.00	0.00	0.00	0.00	24.37	0.63	0.00	1.73	0.00	0.70	0.00	0.00	25.18	0.00	6.78	44.76	23.11	4.72
More than 100 units	65.58	58.63	76.75	57.35	93.66	87.81	0.00	40.27	0.00	0.00	0.00	0.00	34.53	98.77	70.82	56.59	70.77	35.13	0.00	28.58	2.75	12.30	80.57	2.62	18.16	80.83
Don't Know	5.29	6.45	3.44	6.58	0.00	5.92	0.00	39.16	0.00	0.00	0.00	100.00	11.52	0.60	0.00	1.49	0.00	10.00	0.00	27.79	27.35	5.08	1.55	2.85	16.90	1.56
n	*138*	*100*	*25*	*13*	*8*	*10*	*0*	*3*	*1*	*1*	*0*	*1*	*85*	*6*	*4*	*8*	*11*	*18*	*0*	*3*	*13*	*9*	*86*	*9*	*63*	*75*
<DEEM_INSTALL_DATE1_NU> Our Records indicate you installed lighting equipment throught the program on <this date> is that correct?																										
Yes	95.94	93.69	96.79	99.00	90.01	98.88	100.00	97.52	96.67	98.70	95.10	98.34	92.59	99.31	85.05	98.89	99.93	97.81	99.66	97.98	93.77	95.64	92.91	99.88	96.54	93.08
No	1.42	3.38	0.50	0.00	9.99	0.99	0.00	0.31	0.30	0.00	1.00	0.00	2.00	0.53	14.95	0.14	0.00	0.30	0.00	0.81	5.42	0.21	2.67	0.00	0.65	5.09
Don't Know	2.64	2.94	2.71	1.00	0.00	0.13	0.00	2.17	3.03	1.31	3.90	1.66	5.42	0.17	0.00	0.98	0.07	1.90	0.34	1.21	0.80	4.15	4.42	0.12	2.81	1.84
n	*2376*	*1259*	*744*	*373*	*44*	*51*	*1*	*255*	*297*	*140*	*194*	*128*	*825*	*78*	*135*	*124*	*104*	*333*	*104*	*271*	*81*	*305*	*1024*	*258*	*1986*	*390*
<DEEM_INSTALL_YEAR1> In what year did you install/delamp the lighting equipment?																										
2009	28.80	30.11	23.68	0.00	100.00	0.00	0.00	0.00	0.00	0.00	56.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	31.16	0.00	0.00	35.18	0.00	12.79	38.51
2010	33.60	42.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.14	0.00	95.10	0.00	0.00	29.40	0.00	0.00	0.00	0.00	49.06	0.00	0.53	53.65
2011	11.55	6.63	30.78	0.00	0.00	100.00	0.00	100.00	0.00	0.00	29.54	0.00	12.51	47.72	0.00	0.00	0.00	70.60	0.00	21.99	3.36	0.00	10.69	0.00	19.71	6.60
Refused	7.16	9.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	41.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	52.46	0.00	0.00	0.00	18.97	0.00
Don't Know	18.89	12.06	45.54	0.00	0.00	0.00	0.00	0.00	100.00	0.00	14.31	0.00	45.25	52.28	4.90	100.00	0.00	0.00	0.00	46.84	44.19	100.00	5.06	0.00	48.00	1.23
n	*27*	*18*	*9*	*0*	*3*	*2*	*0*	*2*	*1*	*0*	*3*	*0*	*11*	*2*	*2*	*1*	*0*	*3*	*0*	*4*	*5*	*2*	*13*	*0*	*17*	*10*
<DEEM_INSTALL_MONTH1> And what month? {If they can Not recall month, try to get the season.} ';																										
January	4.27	0.24	27.07	0.00	0.00	86.76	0.00	0.00	0.00	0.00	0.00	0.00	6.42	0.00	0.00	0.00	0.00	26.64	0.00	0.00	0.00	0.00	4.64	0.00	1.23	4.89
February	54.77	64.45	0.00	0.00	29.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	62.62	0.00	0.00	65.88
April	0.62	0.00	4.13	0.00	0.00	13.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.75

* Values are shown as percent of respondents weighted by kWh.
* n is the number of respondents.

	ALL	PG&E(%)	SCE(%)	SDG&E(%)	PG&E Custom Program(%)	SCE Custom Program(%)	SDG&E Custom Program(%)	PG&E Deemed Program(%)	SCE Deemed Program(%)	SDG&E Deemed Program(%)	SCE Direct Install Program(%)	SDG&E Direct Install Program(%)	PG&E LGP Program(%)	SCE LGP Program(%)	PG&E L3P Program(%)	SCE L3P Program(%)	SDG&E L3P Program(%)	CFL Basic(%)	CFL Reflector(%)	High Bay(%)	HID(%)	LF Delamp(%)	Linear(%)	Occupancy Sensor(%)	Deemed(%)	All Calculated(%)
June	9.24	3.19	43.48	0.00	0.00	0.00	0.00	64.73	0.00	0.00	65.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	82.99	0.00	0.00	0.00	0.00	54.80	0.00
July	0.55	0.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.01	0.00	0.00	0.00	0.00	70.60	0.00	0.00	0.00	0.00	0.00	0.00	3.25	0.00
August	1.89	1.79	2.46	0.00	0.00	0.00	0.00	35.27	0.00	0.00	0.00	0.00	1.30	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.16	0.00	9.01	0.44
September	1.89	2.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	58.86	0.00	0.00	0.00	0.00	0.00	0.00	17.01	0.00	0.00	0.00	0.00	11.23	0.00
November	3.43	0.00	22.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	34.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.92	0.00	20.36	0.00
Summer	20.42	24.03	0.00	0.00	61.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15.74	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	23.35	0.00	0.00	24.57
Winter	2.89	3.40	0.00	0.00	8.92	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.30	0.00	0.00	3.48
Don't Know	0.02	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00	0.00	0.00	0.00	2.76	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.00
n	*17*	*12*	*5*	*0*	*3*	*2*	*0*	*2*	*0*	*0*	*2*	*0*	*6*	*1*	*1*	*0*	*0*	*3*	*0*	*3*	*1*	*0*	*10*	*0*	*9*	*8*
<LI18A> Of the CFLs you received through the program, what percentage do you estimate were placed into storage for later use?																										
0	80.52	62.27	95.10	70.82	62.05	0.00	0.00	72.94	97.04	82.88	94.09	68.76	71.25	100.00	14.52	88.09	67.53	67.88	83.71	96.71	0.00	85.18	78.27	97.13	82.47	55.85
1	1.88	3.69	0.16	4.82	0.00	0.00	0.00	0.00	0.38	17.12	0.03	0.67	3.76	0.00	11.10	0.00	18.09	3.16	0.57	0.00	0.00	0.00	6.25	0.00	0.89	14.34
2	0.25	0.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.94	0.00	1.04	0.00	0.00	0.84	0.00	0.00	0.00	0.00	0.00	0.00	0.27	0.00
4	0.10	0.03	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	5.27	0.00	0.03	0.00	0.00	0.00	2.25	0.00	0.00	0.11	0.00
5	3.33	6.14	0.00	12.73	0.00	0.00	0.00	6.51	0.00	0.00	0.00	16.90	8.03	0.00	0.00	0.00	0.00	7.19	2.20	0.00	0.00	7.51	0.38	0.00	3.58	0.07
10	6.38	15.26	0.63	1.31	0.00	0.00	0.00	0.55	1.55	0.00	0.00	0.34	7.76	0.00	67.25	1.40	11.31	15.80	3.43	0.00	0.00	0.00	2.93	2.87	4.91	24.98
12	0.05	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.28	0.00	0.00	0.00	0.00	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.72
20	2.58	6.08	0.39	0.00	0.00	0.00	0.00	17.62	1.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.95	0.00	0.00	0.00	1.79	0.00	2.78	0.00
25	0.08	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.43	0.00	0.00	0.00	0.00	0.28	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.34
50	0.03	0.01	0.00	0.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00
75	0.10	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.51	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.10	0.00
100	1.15	0.04	2.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.68	0.00	0.09	0.00	0.00	0.00	0.00	0.06	2.85	0.00	0.00	0.00	0.00	0.00	1.22	0.23
102	3.56	5.28	1.44	10.02	37.95	0.00	0.00	2.39	0.00	0.00	2.20	12.92	6.88	0.00	6.09	5.24	3.07	4.50	1.29	2.53	0.00	5.05	10.39	0.00	3.57	3.47
n	*391*	*219*	*92*	*80*	*2*	*0*	*0*	*18*	*21*	*13*	*56*	*39*	*181*	*4*	*18*	*11*	*28*	*231*	*80*	*5*	*0*	*9*	*60*	*6*	*340*	*51*
<LI19A> Were any of the program provided lighting equipment installed at another facility? If so, what percentage would you estimate?																										
0	91.33	92.36	90.45	93.30	96.14	98.28	100.00	92.90	89.60	92.75	92.59	93.96	90.74	57.79	92.23	93.25	93.16	89.18	80.17	91.53	98.51	93.39	92.36	86.90	91.03	92.77
1	0.14	0.05	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.49	2.42	0.00	0.00	0.00	0.00	0.00	0.00	0.34	0.13	0.02	0.70
2	0.23	0.41	0.06	0.67	0.00	0.00	0.00	0.47	0.08	0.00	0.00	1.60	0.56	0.00	0.00	0.12	1.25	0.00	0.00	0.10	0.82	0.07	0.44	0.00	0.20	0.36
5	0.41	0.08	0.67	0.00	0.68	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.02	0.67	0.00	0.15	0.00	0.00	0.00	0.01	0.00	0.01	1.10	0.08	0.47	0.13
7	0.01	0.02	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.01	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	0.10	0.09	0.12	0.00	0.00	0.08	0.00	0.00	0.15	0.00	0.08	0.00	0.24	0.23	0.00	0.05	0.00	0.33	0.30	0.00	0.00	0.35	0.05	0.09	0.10	0.13
15	0.03	0.08	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.22	0.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.02	0.00	0.04	0.00
20	0.13	0.09	0.08	0.62	0.00	0.60	0.00	0.01	0.05	0.37	0.00	2.18	0.23	0.00	0.00	0.00	0.00	0.15	0.03	0.06	0.00	0.26	0.18	0.03	0.08	0.34
25	0.24	0.20	0.11	1.35	0.00	0.00	0.00	0.38	0.00	2.73	0.00	0.00	0.10	0.00	0.00	1.21	0.00	0.00	0.00	0.00	0.00	0.00	0.42	0.72	0.29	0.00
30	0.36	0.14	0.55	0.00	0.00	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.38	0.41	0.00	0.00	0.00	0.00	0.00	0.17	0.00	0.00	0.00	2.55	0.44	0.02
36	0.01	0.00	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.01	0.00
40	0.03	0.00	0.01	0.27	0.00	0.00	0.00	0.00	0.01	0.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.03	0.00
45	0.29	0.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.98	0.00	0.00	0.35	0.00
50	1.02	0.58	1.36	0.37	0.00	0.00	0.00	0.98	0.34	0.76	5.49	0.00	0.23	0.30	0.75	0.00	0.00	0.26	18.54	0.54	0.05	0.48	0.21	0.76	1.22	0.05
60	0.38	0.39	0.28	1.03	3.18	0.13	0.00	0.01	0.28	2.09	0.00	0.00	0.17	1.73	0.00	0.65	0.00	1.21	0.00	0.35	0.00	0.00	0.66	0.10	0.29	0.79
66	0.01	0.00	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00	0.00	0.00	0.00	0.00	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00
70	0.20	0.31	0.16	0.00	0.00	0.14	0.00	0.67	0.00	0.00	0.00	0.00	0.06	0.00	0.00	1.65	0.00	0.00	0.00	0.36	0.00	0.63	0.02	0.00	0.23	0.04
75	0.14	0.17	0.15	0.00	0.00	0.00	0.00	0.32	0.25	0.00	0.00	0.00	0.09	0.23	0.00	0.00	0.00	0.39	0.00	0.12	0.00	0.58	0.04	0.00	0.16	0.06
80	0.03	0.00	0.03	0.16	0.00	0.00	0.00	0.00	0.04	0.06	0.00	0.26	0.00	0.00	0.00	0.00	0.29	0.00	0.00	0.00	0.00	0.00	0.08	0.00	0.03	0.04
85	0.01	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.08	0.00	0.00	0.00	0.22	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.01
87	0.02	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.02	0.00
90	0.05	0.05	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14	2.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.25	0.04	0.10
95	0.08	0.01	0.12	0.00	0.00	0.00	0.00	0.00	0.21	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.05	0.03	0.09	0.00
98	0.02	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.34	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.02	0.00
99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100	0.68	1.83	0.12	0.00	0.00	0.00	0.00	2.50	0.18	0.00	0.00	0.00	0.32	0.48	6.39	0.00	0.00	7.39	0.16	1.54	0.00	0.18	0.02	0.19	0.83	0.01
101	0.01	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.01	0.00
102	4.06	2.18	5.43	2.09	0.00	0.75	0.00	1.74	6.83	0.58	1.84	1.64	3.85	35.59	0.14	0.15	5.31	0.62	0.81	5.01	0.61	1.76	3.85	7.91	3.98	4.46
n	*2375*	*1259*	*743*	*373*	*44*	*51*	*1*	*256*	*296*	*140*	*194*	*128*	*824*	*78*	*135*	*124*	*104*	*333*	*104*	*270*	*81*	*305*	*1025*	*257*	*1986*	*389*

* Values are shown as percent of respondents weighted by kWh.
* n is the number of respondents.

	ALL	PG&E(%)	SCE(%)	SDG&E(%)	PG&E Custom Program(%)	SCE Custom Program(%)	SDG&E Custom Program(%)	PG&E Deemed Program(%)	SCE Deemed Program(%)	SDG&E Deemed Program(%)	SCE Direct Install Program(%)	SDG&E Direct Install Program(%)	PG&E LGP Program(%)	SCE LGP Program(%)	PG&E L3P Program(%)	SCE L3P Program(%)	SDG&E L3P Program(%)	CFL Basic(%)	CFL Reflector(%)	High Bay(%)	HID(%)	LF Delamp(%)	Linear(%)	Occupancy Sensor(%)	Deemed(%)	All Calculated(%)
<LI20A> What type of lighting was removed and replaced when you installed the lighting equipment through the Program?																										
High Performance T8	0.52	0.74	0.47	0.06	1.83	2.75	0.00	0.00	0.31	0.00	0.00	0.30	1.36	0.00	0.66	0.05	0.00	0.03	0.00	0.36	4.05	0.05	0.62	0.00	0.35	1.26
T8 fluorescent fixtures (1in. diameter b	10.82	8.75	11.69	13.18	43.20	56.16	0.00	2.46	2.79	6.73	6.11	3.75	7.90	51.38	1.58	22.80	32.12	0.61	1.93	1.89	1.33	19.57	22.08	1.26	4.76	36.17
T10 fluorescent fixtures	0.28	0.58	0.11	0.26	0.00	0.00	0.00	0.53	0.00	0.00	0.00	1.23	0.53	0.00	1.58	1.34	0.00	0.65	1.92	0.04	0.00	0.00	0.43	0.05	0.30	0.24
T12 fluorescent fixtures	19.89	19.10	20.57	18.63	37.77	17.63	0.00	11.24	15.52	15.35	23.24	15.35	24.30	59.47	14.99	42.95	28.31	12.61	1.98	6.81	4.92	24.70	36.05	9.69	16.58	33.70
Compact HID (High Intensity Discharge) F	19.51	15.01	23.63	10.92	3.70	10.90	0.00	17.15	33.26	2.51	1.93	0.13	9.36	42.98	38.37	5.80	33.85	11.18	5.39	42.38	21.38	0.18	9.17	12.58	20.16	16.82
Screw-in Modular CFLs	0.73	1.09	0.60	0.18	0.00	0.00	0.00	0.00	0.11	0.18	3.13	0.43	0.84	0.00	8.19	0.00	0.00	14.77	2.71	0.11	0.60	0.00	0.33	0.00	0.66	1.00
Hardwired CFL Fixtures	0.52	0.07	0.86	0.05	0.00	0.86	0.00	0.00	1.26	0.00	0.00	0.00	0.19	0.00	0.00	0.00	0.16	0.15	0.00	1.47	0.59	0.00	0.12	0.00	0.55	0.37
Incandescent bulbs	6.12	5.93	6.35	5.48	0.00	0.00	0.00	3.31	2.72	2.51	19.41	20.02	11.54	42.26	4.18	2.37	0.36	49.33	50.62	2.41	5.41	6.04	3.21	1.51	6.26	5.57
CFL Exit Signs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LED Exit Signs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Halogen bulbs	3.50	4.97	1.85	8.22	3.29	0.00	0.00	7.74	2.82	16.65	0.47	0.69	3.34	0.83	0.22	0.00	0.49	2.98	1.43	4.73	23.33	3.19	1.78	1.00	4.11	0.95
Reflectors	0.30	0.84	0.00	0.10	0.00	0.00	0.00	1.91	0.00	0.00	0.00	0.48	0.00	0.00	0.00	0.00	0.01	0.00	0.25	0.00	7.25	0.00	0.00	0.00	0.37	0.00
Electronic Ballast	2.04	2.83	1.85	0.37	5.05	3.53	0.00	0.79	0.00	0.01	1.52	1.35	5.49	0.75	0.00	14.36	0.31	0.03	0.00	0.19	0.01	14.06	3.16	0.04	1.28	5.25
Magnetic Ballast	3.19	1.04	4.89	0.65	0.00	6.93	0.00	0.20	5.16	0.03	3.75	1.98	1.88	0.64	2.98	4.23	0.78	2.77	0.53	0.10	0.00	6.01	6.30	1.46	3.03	3.86
Manual Switches	4.25	3.25	5.30	1.48	3.30	1.78	0.00	5.28	5.28	3.02	2.74	0.07	1.38	10.97	0.68	12.95	0.06	0.06	0.00	0.45	1.25	0.03	0.06	29.23	4.93	1.39
Lighting Controls, Time Clock	0.15	0.18	0.17	0.00	0.00	0.00	0.00	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.12	0.08	0.49
Lighting Controls, Occupancy Sensor	0.25	0.12	0.27	0.60	0.00	2.75	0.00	0.28	0.00	1.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.71	0.12	0.80
Lighting Controls, Bypass/Delay Timers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Photocell	0.05	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.00	0.06	0.00
Other	2.79	3.69	1.96	4.52	0.00	0.13	0.00	3.10	2.43	0.71	1.47	19.98	6.43	1.91	0.65	1.72	0.02	1.21	0.52	1.81	1.51	6.48	3.93	1.56	3.22	1.00
Fat/Thick Tubes	9.27	14.61	6.03	9.42	0.03	5.05	0.00	14.51	6.85	11.50	6.58	16.15	20.19	0.58	11.36	1.87	1.96	4.49	4.98	10.58	0.03	12.80	12.32	1.03	10.64	3.53
Skinny/Thin Tubes	1.89	1.37	1.86	3.99	0.00	3.52	0.00	0.99	0.41	3.85	7.27	4.64	2.16	0.16	1.83	0.18	4.14	4.11	0.22	0.97	0.33	2.35	3.30	0.01	1.91	1.82
T5 Fixtures (5/8in. diameter)	0.08	0.08	0.05	0.22	0.00	0.00	0.00	0.14	0.00	0.45	0.00	0.00	0.05	1.96	0.05	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.09	0.01	0.10	0.00
Did not Remove Anything	7.18	6.64	7.69	6.05	10.92	5.41	0.00	8.87	6.78	10.59	14.88	3.07	3.17	4.17	4.15	3.65	1.24	0.78	5.85	1.98	10.35	2.20	2.73	34.16	7.87	4.27
Other -Record	9.20	7.50	10.34	8.43	3.80	1.61	0.00	6.74	14.40	13.29	5.78	8.27	8.01	4.51	13.30	2.03	1.27	3.18	5.68	12.53	12.57	20.36	5.06	11.39	10.49	3.78
Screw-in LEDs	100.00	100.00	100.00	100.00	100.00	0.00	100.00	100.00	100.00	100.00	100.00	0.00	100.00	100.00	100.00	0.00	0.00	100.00	0.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
n	*2095*	*1105*	*640*	*350*	*43*	*51*	*1*	*227*	*256*	*125*	*169*	*125*	*722*	*67*	*113*	*97*	*99*	*320*	*100*	*262*	*77*	*84*	*1001*	*251*	*1712*	*383*
<D_REPLACE_ADDON> To determine if replacement or add on																										
REPLACEMENT	93.76	94.23	93.38	94.49	89.46	94.59	100.00	91.81	93.87	90.11	89.63	96.94	97.80	96.32	96.36	96.98	99.95	99.28	94.17	98.06	90.73	99.34	97.44	66.65	93.25	96.21
ADDON	6.24	5.77	6.62	5.51	10.54	5.41	0.00	8.19	6.13	9.89	10.37	3.06	2.20	3.68	3.64	3.02	0.05	0.72	5.83	1.94	9.27	0.66	2.56	33.35	6.75	3.79
n	*2378*	*1259*	*744*	*375*	*44*	*51*	*1*	*255*	*297*	*140*	*194*	*128*	*825*	*78*	*135*	*124*	*106*	*335*	*104*	*270*	*81*	*305*	*1026*	*257*	*1989*	*389*
<LI21A> Were the HID lamps you removed High Pressure Sodium, Metal Halide, Mercury Vapor or Incandescent?																										
High Pressure Sodium	11.18	30.15	5.33	8.33	0.00	0.00	0.00	42.76	6.12	40.26	0.00	0.00	27.62	0.00	14.22	0.00	1.17	28.97	0.00	9.03	11.15	0.00	11.57	26.49	12.46	4.64
Metal Halide	64.74	45.94	69.52	91.67	48.32	100.00	0.00	38.25	72.47	59.74	47.61	0.00	45.08	0.00	57.13	100.00	98.83	0.00	0.00	67.97	63.05	100.00	58.76	72.06	63.94	68.85
Mercury Vapor	3.83	7.00	3.00	0.00	51.68	0.00	0.00	9.66	3.44	0.00	0.00	0.00	11.86	0.00	0.00	0.00	0.00	0.02	0.00	5.11	0.00	0.00	0.65	1.45	4.47	0.58
Incandescent	2.95	7.70	1.57	0.00	0.00	0.00	0.00	0.00	1.80	0.00	0.00	0.00	0.18	0.00	22.16	0.00	0.00	71.01	0.00	1.64	0.00	0.00	0.00	0.00	3.52	0.00
Don't Know	17.31	9.20	20.58	0.00	0.00	0.00	0.00	9.33	16.16	0.00	52.39	0.00	15.25	100.00	6.49	0.00	0.00	0.00	0.00	16.25	25.80	0.00	29.02	0.00	15.62	25.93
n	*97*	*59*	*30*	*8*	*2*	*2*	*0*	*22*	*22*	*2*	*3*	*0*	*25*	*1*	*10*	*2*	*6*	*4*	*0*	*49*	*6*	*1*	*29*	*8*	*79*	*18*
<LI22A> Approximately how old was the equipment that were removed and replaced?																										
Less than 5 years old	11.47	12.41	9.35	20.65	5.02	18.51	0.00	6.90	5.69	24.97	21.99	22.83	16.87	10.35	27.72	1.88	14.70	45.70	28.97	6.31	3.05	18.64	12.31	6.02	10.65	14.73
Between 5 and 10 years old	21.21	21.15	20.93	23.15	14.70	38.06	0.00	25.33	16.45	26.56	22.07	20.43	15.51	10.20	30.36	34.29	22.25	21.87	27.34	19.21	42.27	31.58	18.56	22.81	20.20	25.27
Between 10 and 15 years old or	17.73	18.27	16.03	25.94	18.74	17.04	0.00	22.64	16.66	14.70	12.60	7.23	14.25	12.31	13.60	17.71	58.45	10.55	14.05	19.95	14.52	19.32	14.66	28.10	17.08	20.34
More than 15 years old	42.39	41.39	46.21	23.18	40.99	26.39	100.00	40.12	50.69	22.32	38.13	42.38	46.82	67.12	27.42	45.09	3.38	19.58	28.58	51.82	32.83	26.31	41.82	39.47	44.59	33.56
Refused	0.02	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.64	0.00	0.00	0.00	0.03	0.00
Don't Know	7.17	6.71	7.47	7.08	20.54	0.00	0.00	5.01	10.51	11.45	5.21	7.13	6.36	0.02	0.90	1.02	1.22	2.29	1.06	2.70	6.70	4.15	12.66	3.60	7.44	6.10
n	*1984*	*1049*	*602*	*333*	*35*	*46*	*1*	*214*	*243*	*114*	*157*	*121*	*698*	*63*	*102*	*93*	*97*	*312*	*91*	*261*	*73*	*81*	*976*	*190*	*1622*	*362*
<LI23A> How would you describe the condition of the lighting equipment that was removed and replaced?																										
Poor condition	12.71	16.28	10.80	11.12	11.81	4.86	0.00	18.43	10.33	13.87	17.83	12.12	15.10	12.71	15.96	7.79	7.40	12.45	21.67	16.42	4.09	7.25	11.13	10.39	13.29	10.36
Fair condition or	48.31	40.21	54.66	39.86	71.05	62.75	100.00	41.59	58.00	24.71	35.27	46.50	35.52	67.59	19.17	52.06	51.88	47.87	34.63	53.20	47.96	42.38	46.02	51.31	46.23	56.69
Good condition	34.12	41.08	28.18	44.30	16.50	29.38	0.00	36.54	24.34	52.44	39.07	40.00	46.99	19.69	64.85	37.33	39.53	39.12	35.37	28.09	42.52	47.30	34.89	37.82	34.76	31.52
Refused	0.02	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.64	0.00	0.00	0.00	0.03	0.00

* Values are shown as percent of respondents weighted by kWh.
* n is the number of respondents.

	ALL	PG&E(%)	SCE(%)	SDG&E(%)	PG&E Custom Program(%)	SCE Custom Program(%)	SDG&E Custom Program(%)	PG&E Deemed Program(%)	SCE Deemed Program(%)	SDG&E Deemed Program(%)	SCE Direct Install Program(%)	SDG&E Direct Install Program(%)	PG&E LGP Program(%)	SCE LGP Program(%)	PG&E L3P Program(%)	SCE L3P Program(%)	SDG&E L3P Program(%)	CFL Basic(%)	CFL Reflector(%)	High Bay(%)	HID(%)	LF Delamp(%)	Linear(%)	Occupancy Sensor(%)	Deemed(%)	All Calculated(%)
Don't Know	4.84	2.35	6.36	4.72	0.64	3.01	0.00	3.44	7.33	8.99	7.83	1.38	2.19	0.00	0.02	2.81	1.19	0.56	8.32	2.29	4.78	3.07	7.96	0.49	5.68	1.43
n	*1983*	*1048*	*602*	*333*	*35*	*46*	*1*	*214*	*243*	*114*	*157*	*121*	*697*	*63*	*102*	*93*	*97*	*312*	*91*	*261*	*73*	*81*	*975*	*190*	*1622*	*361*
<LI24A> Approximately what percentage of the lighting equipment that was removed and replaced was broken or Not working prior to installing ?																										
0	42.45	47.87	38.05	49.09	24.96	28.16	0.00	48.69	36.60	50.61	50.85	49.16	47.65	24.12	69.07	41.38	51.55	50.17	49.18	31.99	61.38	49.28	41.12	65.91	43.48	38.34
1	8.04	6.98	9.07	5.77	25.01	8.32	100.00	6.67	10.55	2.62	1.53	7.52	3.34	42.77	2.68	2.06	0.05	4.66	0.50	13.78	0.57	0.76	6.02	9.13	6.92	12.57
2	6.58	5.76	7.35	4.99	0.34	21.56	0.00	5.16	3.04	4.82	12.00	2.86	9.58	1.56	0.09	14.99	7.25	8.33	0.31	2.58	16.01	2.83	10.47	2.83	5.84	9.59
3	2.92	1.55	3.56	4.12	0.00	0.00	0.00	1.85	5.66	2.20	0.00	14.53	1.93	0.68	0.47	0.00	0.01	2.80	3.80	2.67	0.00	0.21	3.41	3.88	3.61	0.16
4	0.85	0.44	0.83	2.46	3.70	0.00	0.00	0.00	0.64	0.94	2.72	0.00	0.15	0.00	0.00	0.00	6.69	0.00	0.00	0.00	0.00	3.86	1.52	0.00	0.64	1.66
5	10.09	7.62	11.89	8.29	15.56	21.57	0.00	4.43	8.50	6.41	7.58	4.04	8.07	12.70	11.44	32.16	14.92	15.45	0.46	7.40	4.66	30.70	11.51	5.78	8.96	14.63
6	0.07	0.05	0.09	0.00	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.08	0.00
7	0.10	0.05	0.08	0.40	0.00	0.00	0.00	0.00	0.00	0.87	0.48	0.00	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.23	0.00	0.11	0.04
8	0.08	0.24	0.00	0.00	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00	0.10	0.01
9	0.16	0.00	0.29	0.00	0.00	0.55	0.00	0.00	0.13	0.00	0.85	0.00	0.00	0.23	0.00	0.07	0.00	0.00	0.00	0.15	0.00	0.00	0.26	0.04	0.16	0.16
10	12.28	8.40	15.92	4.56	1.28	9.35	0.00	6.52	19.46	2.94	14.88	11.56	13.83	12.51	4.24	1.49	2.47	2.18	21.32	19.12	5.30	5.72	9.84	6.69	13.26	8.34
12	0.22	0.00	0.00	2.36	0.00	0.00	0.00	0.00	0.00	5.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.52	0.00	0.28	0.00
15	0.82	1.73	0.40	0.04	0.00	0.50	0.00	2.27	0.33	0.00	0.85	0.15	1.88	0.44	0.63	0.00	0.04	1.95	0.54	1.47	0.00	0.00	0.55	0.45	0.82	0.84
20	3.63	3.49	3.72	3.65	0.00	0.76	0.00	2.89	4.85	6.49	3.89	2.37	6.06	0.00	0.43	0.00	0.68	1.02	0.10	4.88	7.92	0.21	3.95	0.59	4.24	1.19
25	1.85	1.06	2.53	0.70	0.00	0.80	0.00	1.01	3.78	1.55	0.00	0.00	1.29	0.56	1.48	0.81	0.00	1.99	2.54	3.08	0.58	0.00	1.62	0.11	2.22	0.37
30	0.77	0.61	0.87	0.71	0.00	0.27	0.00	0.35	1.02	0.34	0.10	2.58	0.95	0.10	1.08	2.18	0.00	1.67	0.00	0.89	0.82	0.52	0.59	1.24	0.79	0.68
33	0.73	2.07	0.00	0.29	0.00	0.00	0.00	4.68	0.00	0.64	0.00	0.00	0.12	0.00	0.00	0.00	0.00	0.00	0.00	2.19	0.00	0.00	0.06	0.15	0.92	0.00
35	0.06	0.08	0.00	0.40	0.00	0.00	0.00	0.00	0.00	0.89	0.00	0.00	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.68	0.00	0.09	0.00	0.08	0.00
40	0.73	2.07	0.00	0.23	0.00	0.00	0.00	4.56	0.00	0.51	0.00	0.00	0.27	0.00	0.00	0.00	0.00	0.08	0.00	2.13	0.00	0.00	0.13	0.00	0.87	0.16
50	1.14	1.31	0.81	2.49	2.00	5.59	0.00	1.32	0.36	3.33	0.00	1.77	1.45	0.00	0.00	0.20	1.97	0.37	0.89	0.86	1.80	3.14	1.35	0.12	0.81	2.46
70	0.11	0.33	0.00	0.01	1.26	0.00	0.00	0.41	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.03	0.03	0.00	0.19	0.00	0.00	0.12	0.00	0.09	0.23
75	0.01	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.01	0.00
80	0.21	0.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	6.19	0.00	0.00	0.00	0.00	0.67	0.00	0.00	0.00	0.00	0.27	0.00
90	0.13	0.32	0.00	0.26	0.00	0.00	0.00	0.01	0.00	0.36	0.00	0.00	0.86	0.00	0.00	0.00	0.31	3.31	0.00	0.05	0.03	0.00	0.03	0.01	0.15	0.05
95	0.06	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.30
100	0.76	2.03	0.06	0.28	0.00	0.00	0.00	4.71	0.00	0.00	0.21	1.29	0.00	0.92	0.00	0.00	0.02	0.68	18.10	0.01	0.00	0.00	0.09	0.00	0.95	0.00
102	5.12	5.13	4.49	8.91	25.88	2.57	0.00	3.92	4.94	9.27	4.04	2.17	2.02	3.41	0.00	4.66	14.00	5.32	2.26	5.88	0.24	2.77	6.01	3.08	4.35	8.23
n	*1983*	*1048*	*602*	*333*	*35*	*46*	*1*	*214*	*243*	*114*	*157*	*121*	*697*	*63*	*102*	*93*	*97*	*312*	*91*	*261*	*73*	*81*	*975*	*190*	*1622*	*361*
<A3B> According to our records, your organization inatalled <qty1> many lighting measures through <> period is this correct?																										
Yes-quantity correct	82.15	75.00	85.32	92.06	93.58	78.90	0.00	78.98	83.53	97.18	94.41	80.67	63.90	51.42	73.54	94.86	0.00	76.11	96.68	72.52	75.72	90.74	82.57	96.26	83.47	74.62
Yes-Change Quantity	10.99	12.60	10.97	0.45	6.42	21.10	0.00	4.94	11.97	0.65	1.96	0.00	23.45	46.24	10.57	2.30	0.00	15.75	0.00	19.63	4.77	0.43	11.59	2.26	9.08	21.87
Did Not Install	4.14	9.41	1.16	4.54	0.00	0.00	0.00	15.83	0.78	2.08	2.47	10.01	6.23	0.50	9.69	2.53	0.00	3.65	0.91	6.83	15.32	0.38	3.61	0.98	4.64	1.33
Refused	0.05	0.00	0.08	0.00	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.42	0.06	0.00
Don't Know	2.67	2.99	2.47	2.95	0.00	0.00	0.00	0.25	3.59	0.09	1.15	9.32	6.42	1.84	6.20	0.30	0.00	4.50	2.41	1.03	4.20	8.45	2.23	0.08	2.75	2.19
n	*1523*	*797*	*538*	*188*	*7*	*9*	*0*	*134*	*213*	*90*	*181*	*98*	*563*	*52*	*93*	*83*	*0*	*221*	*86*	*142*	*51*	*237*	*617*	*169*	*1324*	*199*
<A3B_QTY> Approximately how many of this lighting measure did you install?																										
0 to 10	4.69	6.26	1.09	89.66	0.00	0.00	0.00	1.28	1.86	91.87	18.37	0.00	12.53	0.00	0.00	0.00	0.00	7.09	0.00	0.73	10.17	11.45	6.16	2.03	8.94	1.60
11 to 30	19.14	25.34	13.25	4.27	0.00	2.33	0.00	19.81	30.75	4.38	0.34	0.00	47.46	0.00	21.49	0.00	0.00	22.27	0.00	46.74	78.66	3.56	3.52	10.68	42.13	2.41
31 to 50	4.85	5.30	4.42	3.67	0.00	1.94	0.00	0.00	2.86	3.76	75.13	0.00	9.18	0.00	29.36	25.41	0.00	19.07	0.00	0.00	4.00	25.73	5.71	6.83	4.29	5.26
51 to 100	20.92	42.00	0.18	0.00	76.30	0.00	0.00	78.90	0.45	0.00	0.00	0.00	8.51	0.00	35.85	0.00	0.00	27.59	0.00	9.97	0.06	58.59	25.76	22.64	10.20	28.72
101 to 500	21.55	9.41	34.24	1.95	13.94	68.11	0.00	0.00	0.00	0.00	0.00	81.36	6.88	11.32	10.98	0.00	0.00	16.22	0.00	0.00	0.08	0.66	32.28	37.81	2.33	35.54
501 to 1000	1.32	0.00	2.68	0.00	0.00	5.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.27	0.00	0.00	2.28
More than 1000	27.53	11.68	44.14	0.45	9.76	22.17	0.00	0.00	64.08	0.00	6.16	18.64	15.44	88.68	2.32	74.59	0.00	7.77	100.00	42.56	7.03	0.00	24.29	20.01	32.11	24.20
n	*319*	*277*	*37*	*5*	*6*	*9*	*0*	*5*	*10*	*3*	*7*	*2*	*255*	*7*	*11*	*4*	*0*	*73*	*1*	*7*	*25*	*16*	*167*	*30*	*161*	*158*
<DEEM_INSTALL_DATE2_NU> Our Records indicate you installed lighting equpiment throught the program on <this date> is that correct?																										
Yes	99.39	98.95	99.58	99.72	100.00	100.00	0.00	99.88	99.89	99.61	98.44	100.00	98.29	98.41	94.79	100.00	0.00	94.81	99.43	99.96	99.66	99.86	99.28	98.27	99.45	99.02
No	0.47	0.74	0.35	0.29	0.00	0.00	0.00	0.00	0.00	0.39	1.56	0.00	1.12	1.59	4.64	0.00	0.00	4.82	0.00	0.04	0.00	0.14	0.43	1.61	0.43	0.73
Don't Know	0.14	0.31	0.07	0.00	0.00	0.00	0.00	0.13	0.11	0.00	0.00	0.00	0.59	0.00	0.57	0.00	0.00	0.37	0.57	0.00	0.34	0.00	0.29	0.13	0.12	0.25
n	*1358*	*689*	*498*	*171*	*6*	*9*	*0*	*122*	*195*	*86*	*172*	*85*	*478*	*45*	*83*	*77*	*0*	*194*	*79*	*131*	*30*	*214*	*553*	*157*	*1183*	*175*

* Values are shown as percent of respondents weighted by kWh.
* n is the number of respondents.

	ALL	PG&E(%)	SCE(%)	SDG&E(%)	PG&E Custom Program(%)	SCE Custom Program(%)	SDG&E Custom Program(%)	PG&E Deemed Program(%)	SCE Deemed Program(%)	SDG&E Deemed Program(%)	SCE Direct Install Program(%)	SDG&E Direct Install Program(%)	PG&E LGP Program(%)	SCE LGP Program(%)	PG&E L3P Program(%)	SCE L3P Program(%)	SDG&E L3P Program(%)	CFL Basic(%)	CFL Reflector(%)	High Bay(%)	HID(%)	LF Delamp(%)	Linear(%)	Occupancy Sensor(%)	Deemed(%)	All Calculated(%)
<DEEM_INSTALL_YEAR2> In what year did you install/delamp the lighting equipment?																										
2009	63.33	43.35	88.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	99.91	0.00	0.00	0.00	100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	99.91	54.57	91.42
2010	23.93	45.27	2.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	79.92	23.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	82.19	0.00	31.39	0.00
2011	6.24	6.29	0.08	100.00	0.00	0.00	0.00	0.00	0.00	100.00	0.09	0.00	11.11	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	42.34	4.33	0.09	8.18	0.00
Don't Know	6.50	5.08	8.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.97	76.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	57.66	13.48	0.00	5.86	8.58
n	*13*	*7*	*5*	*1*	*0*	*0*	*0*	*0*	*0*	*1*	*2*	*0*	*6*	*3*	*1*	*0*	*0*	*1*	*0*	*1*	*0*	*2*	*7*	*2*	*11*	*2*
<DEEM_INSTALL_MONTH2> And what month? {If they can Not recall month, try to get the season.} ';																										
January	3.26	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	4.24	0.00
March	23.25	45.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00
May	0.04	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.05	0.00
June	64.44	39.21	97.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	99.91	0.00	72.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	74.07	99.91	83.96	0.00
July	2.03	3.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	2.64	0.00
November	2.67	2.65	2.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.88	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.90	0.00	3.47	0.00
Summer	4.32	8.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.03	0.00	5.63	0.00
n	*9*	*5*	*3*	*1*	*0*	*0*	*0*	*0*	*0*	*1*	*2*	*0*	*4*	*1*	*1*	*0*	*0*	*1*	*0*	*1*	*0*	*1*	*4*	*2*	*8*	*1*
<LI18B> Of the CFLs you received through the program, what percentage do you estimate were placed into storage for later use?																										
0	75.33	96.36	69.98	55.28	0.00	0.00	0.00	100.00	61.91	32.06	93.33	93.70	95.74	100.00	97.97	47.51	0.00	90.77	94.62	66.70	96.54	76.12	76.45	52.62	74.58	88.99
1	0.01	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.83	0.00	0.00	0.00	0.00	3.46	0.00	0.05	0.00	0.01	0.10
2	0.03	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.00	0.29	0.00	0.00	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.48
3	1.84	0.00	0.00	38.51	0.00	0.00	0.00	0.00	0.00	61.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.57	0.00	1.94	0.00
5	0.63	1.10	0.26	3.84	0.00	0.00	0.00	0.00	0.00	6.17	0.00	0.00	1.40	0.00	0.00	27.89	0.00	0.99	1.11	0.00	0.00	23.20	1.83	0.00	0.53	2.29
10	20.44	0.56	28.09	0.00	0.00	0.00	0.00	0.00	37.82	0.00	1.81	0.00	0.72	0.00	0.00	0.00	0.00	0.41	0.00	33.30	0.00	0.00	3.95	0.00	21.45	2.13
20	0.02	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.00	0.02	0.00
25	0.17	0.25	0.00	2.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.30	0.00	0.00	1.74	0.00	0.00	0.47	0.68	0.00	0.00	0.00	0.00	0.00	0.18	0.00
50	0.55	1.36	0.32	0.00	0.00	0.00	0.00	0.00	0.27	0.00	0.49	0.00	1.74	0.00	0.00	0.00	0.00	3.33	0.86	0.00	0.00	0.00	0.00	0.00	0.25	6.01
100	0.25	0.05	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.31	0.00	0.07	0.00	0.00	0.00	0.00	2.09	0.00	0.00	0.00	0.00	0.00	0.00	0.27	0.00
102	0.75	0.17	0.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.97	0.00	0.22	0.00	0.00	23.77	0.00	1.74	2.72	0.00	0.00	0.68	0.00	47.38	0.79	0.00
n	*274*	*149*	*89*	*36*	*0*	*0*	*0*	*3*	*10*	*12*	*66*	*24*	*128*	*4*	*18*	*9*	*0*	*148*	*64*	*4*	*2*	*6*	*46*	*4*	*214*	*60*
<LI19B> Were any of the program provided lighting equipment installed at another facility? If so, what percentage would you estimate?																										
0	90.36	91.64	89.34	95.03	89.24	89.11	0.00	90.60	86.41	93.36	96.53	99.53	93.96	81.69	90.67	96.33	0.00	99.06	100.00	90.45	100.00	88.67	87.07	94.97	90.33	90.55
1	0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.01	0.00
2	0.35	0.00	0.56	0.00	0.00	5.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.10	0.00	0.00	2.28
3	0.02	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.02	0.00
5	0.38	0.00	0.60	0.00	0.00	0.00	0.00	0.00	0.09	0.00	2.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	1.13	0.00	0.45	0.00
9	0.02	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.14
10	0.16	0.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.51	0.00	0.19	0.00
15	0.03	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.17	0.00	0.32	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00	0.04	0.00
20	0.01	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.01	0.00
25	0.33	0.13	0.12	4.35	0.00	0.00	0.00	0.19	0.20	5.95	0.00	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.23	0.00	1.69	0.00	0.00	0.39	0.00
30	0.03	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.00	0.00	0.20
36	0.00	0.00	0.00	0.08	0.00	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00
40	1.11	0.00	1.76	0.00	0.00	0.00	0.00	0.00	2.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.25	0.00	0.00	1.31	0.00
50	0.30	0.61	0.15	0.18	0.00	0.00	0.00	1.57	0.05	0.24	0.23	0.00	0.00	2.15	0.00	0.27	0.00	0.00	0.00	0.00	0.00	0.08	0.71	0.48	0.35	0.00
60	0.50	1.50	0.03	0.00	0.00	0.00	0.00	3.89	0.00	0.00	0.00	0.00	0.00	1.09	0.00	0.00	0.00	0.00	0.00	0.09	0.00	0.00	1.47	0.00	0.59	0.00
66	0.08	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.67	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.00	0.00	0.00	0.52
70	0.07	0.00	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.47	0.00	0.00	0.00	0.00	0.00	0.00	0.22	0.00	0.08	0.00
75	0.35	0.07	0.52	0.00	0.00	0.00	0.00	0.17	0.79	0.00	0.00	0.00	0.00	0.00	0.00	0.63	0.00	0.02	0.00	0.00	0.00	0.20	0.71	0.73	0.41	0.00
80	0.08	0.00	0.10	0.25	0.00	0.00	0.00	0.00	0.00	0.34	0.49	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.19	0.00	0.00	0.04	0.00	0.09	0.00
85	0.04	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.00	0.05	0.00
90	0.02	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.12
95	0.02	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.00	0.03	0.00
99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100	0.65	1.07	0.49	0.00	0.00	0.00	0.00	2.56	0.82	0.00	0.00	0.00	0.02	0.00	1.07	0.00	0.00	0.03	0.00	0.07	0.00	0.00	1.96	0.00	0.76	0.01

* Values are shown as percent of respondents weighted by kWh.
* n is the number of respondents.

	ALL	PG&E(%)	SCE(%)	SDG&E(%)	PG&E Custom Program(%)	SCE Custom Program(%)	SDG&E Custom Program(%)	PG&E Deemed Program(%)	SCE Deemed Program(%)	SDG&E Deemed Program(%)	SCE Direct Install Program(%)	SDG&E Direct Install Program(%)	PG&E LGP Program(%)	SCE LGP Program(%)	PG&E L3P Program(%)	SCE L3P Program(%)	SDG&E L3P Program(%)	CFL Basic(%)	CFL Reflector(%)	High Bay(%)	HID(%)	LF Delamp(%)	Linear(%)	Occupancy Sensor(%)	Deemed(%)	All Calculated(%)
102	5.08	4.03	6.00	0.13	10.76	5.45	0.00	1.03	8.57	0.00	0.00	0.47	4.65	11.85	0.96	0.46	0.00	0.90	0.00	8.74	0.00	1.99	4.45	3.76	4.88	6.17
n	*1358*	*689*	*498*	*171*	*6*	*9*	*0*	*122*	*195*	*86*	*172*	*85*	*478*	*45*	*83*	*77*	*0*	*194*	*79*	*131*	*30*	*214*	*553*	*157*	*1183*	*175*
<LI20B> What type of lighting was removed and replaced when you installed the lighting equipment through the Program?																										
High Performance T8	0.43	0.03	0.65	0.20	0.00	5.45	0.00	0.00	0.00	0.00	0.14	0.64	0.07	0.00	0.00	0.00	0.00	0.45	0.00	0.00	0.00	0.00	1.17	0.00	0.03	2.33
T8 fluorescent fixtures (1in. diameter b	5.94	6.41	5.74	5.35	0.00	7.89	0.00	2.28	3.40	4.54	7.77	7.19	14.96	1.96	1.37	20.62	0.00	3.50	0.35	4.87	0.29	23.88	7.45	0.85	5.86	6.33
T10 fluorescent fixtures	0.25	0.59	0.08	0.19	0.00	0.00	0.00	0.00	0.05	0.00	0.05	0.62	1.47	1.54	0.79	0.00	0.00	0.18	0.00	0.00	5.13	0.00	0.27	0.00	0.30	0.02
T12 fluorescent fixtures	22.34	13.32	27.71	14.36	15.55	28.71	0.00	13.99	24.62	19.07	14.17	3.58	12.21	63.97	9.24	66.38	0.00	1.68	1.06	14.35	0.11	55.11	38.41	2.98	21.50	26.34
Compact HID (High Intensity Discharge) F	20.46	30.08	16.81	2.75	75.16	16.72	0.00	25.54	22.01	2.35	3.32	3.66	11.58	3.68	31.61	0.53	0.00	0.21	0.06	29.87	46.31	3.67	19.31	7.64	17.43	34.94
Screw-in Modular CFLS	1.01	0.47	1.37	0.07	0.00	0.00	0.00	0.06	0.00	0.00	10.02	0.23	0.40	0.00	4.69	0.00	0.00	4.79	25.57	0.00	0.00	0.05	0.14	0.06	1.22	0.00
Hardwired CFL Fixtures	0.10	0.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.28	0.00	0.12	0.00
Incandescent bulbs	10.63	7.25	12.67	7.43	0.00	0.00	0.00	4.35	13.36	5.22	27.96	12.47	11.99	3.70	18.51	1.28	0.00	70.59	64.11	14.00	1.37	1.09	3.59	2.27	12.09	3.70
CFL Exit Signs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LED Exit Signs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Halogen bulbs	4.01	8.43	1.77	2.96	0.00	0.00	0.00	5.01	1.25	3.34	7.02	2.09	17.51	0.00	1.84	0.00	0.00	3.66	17.81	8.23	2.32	0.00	0.42	0.61	4.82	0.16
Reflectors	0.48	1.46	0.00	0.00	0.00	0.00	0.00	3.46	0.00	0.00	0.00	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14.82	0.00	0.12	0.00	0.58	0.00
Electronic Ballast	0.32	0.17	0.31	1.51	0.00	2.44	0.00	0.13	0.00	0.00	0.00	4.95	0.29	0.00	0.22	0.32	0.00	1.19	0.00	0.00	0.00	0.00	0.77	0.15	0.18	1.02
Magnetic Ballast	0.59	1.27	0.21	0.95	0.00	0.00	0.00	0.22	0.25	0.49	0.21	1.98	1.71	0.00	8.53	0.32	0.00	1.19	0.35	0.27	5.13	0.52	0.74	0.11	0.71	0.03
Manual Switches	2.85	2.08	3.48	0.00	0.00	0.00	0.00	4.45	3.80	0.00	4.96	0.01	1.01	3.86	0.00	3.27	0.00	0.00	0.00	2.94	0.00	1.47	0.44	11.10	3.35	0.46
Lighting Controls, Time Clock	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Occupancy Sensor	0.88	0.30	1.25	0.00	0.00	0.00	0.00	0.00	1.53	0.00	0.35	0.00	0.83	0.00	0.00	2.81	0.00	0.00	0.00	1.68	0.00	0.00	0.00	1.87	0.84	1.05
Lighting Controls, Bypass/Delay Timers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Photocell	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other	1.24	1.89	0.86	1.73	0.00	0.00	0.00	0.54	0.89	1.17	1.60	3.01	4.34	0.04	1.62	0.94	0.00	0.26	3.07	0.39	0.00	2.14	2.48	0.00	1.27	1.13
Fat/Thick Tubes	6.04	6.04	4.98	19.42	0.00	0.00	0.00	2.84	5.47	5.05	9.88	52.27	10.36	1.69	17.89	0.61	0.00	10.44	0.01	5.40	1.88	6.12	9.66	0.00	6.79	2.50
Skinny/Thin Tubes	1.54	0.55	2.17	0.13	0.00	0.00	0.00	0.60	2.27	0.17	5.01	0.04	0.85	0.00	0.16	0.20	0.00	0.45	12.94	2.44	0.84	0.00	0.41	0.24	1.86	0.00
T5 Fixtures (5/8in. diameter)	0.02	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.02	0.00
Did not Remove Anything	9.41	6.59	10.99	8.14	5.95	10.81	0.00	12.98	14.47	10.25	0.87	3.31	0.92	4.97	2.41	1.36	0.00	1.60	0.78	2.28	0.27	0.89	0.51	60.14	9.94	6.85
Other -Record	5.12	9.43	2.12	14.30	8.15	0.00	0.00	15.82	2.37	19.67	1.67	2.04	4.38	14.11	3.78	0.00	0.00	1.86	2.18	7.82	2.14	2.04	4.02	3.82	5.33	4.10
Refused	0.04	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.47	0.00	0.01	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.11	0.00	0.05	0.00
Don't Know	9.21	6.78	9.43	22.48	0.00	30.42	0.00	7.04	4.67	29.51	18.82	6.41	10.19	0.58	5.58	3.74	0.00	6.28	4.78	5.10	20.63	7.27	13.60	8.84	8.34	13.34
n	*1139*	*577*	*412*	*150*	*6*	*9*	*0*	*89*	*152*	*69*	*154*	*81*	*419*	*41*	*63*	*56*	*0*	*191*	*76*	*127*	*30*	*43*	*524*	*148*	*968*	*171*
<LI21B> Were the HID lamps you removed High Pressure Sodium, Metal Halide, Mercury Vapor or Incandescent?																										
High Pressure Sodium	55.15	74.86	12.35	37.43	100.00	0.00	0.00	0.00	14.36	100.00	57.74	0.00	5.79	0.00	97.01	100.00	0.00	0.00	0.00	27.80	100.00	0.00	71.67	8.01	21.79	76.57
Metal Halide	24.20	19.28	35.68	0.00	0.00	0.00	0.00	88.61	65.77	0.00	12.68	0.00	59.27	0.00	2.99	0.00	0.00	100.00	0.00	55.83	0.00	0.00	8.28	68.15	56.63	3.37
Mercury Vapor	16.19	5.83	39.42	0.00	0.00	100.00	0.00	11.39	0.00	0.00	0.00	0.00	34.72	0.00	0.00	0.00	0.00	0.00	0.00	6.91	0.00	100.00	18.89	0.00	10.16	20.07
Incandescent	0.75	0.00	0.64	62.57	0.00	0.00	0.00	0.00	0.00	0.00	9.32	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.17	0.00	1.93	0.00
Don't Know	3.71	0.03	11.91	0.00	0.00	0.00	0.00	0.00	19.87	0.00	20.25	0.00	0.22	0.00	0.00	0.00	0.00	0.00	100.00	9.46	0.00	0.00	0.00	23.84	9.49	0.00
n	*39*	*24*	*13*	*2*	*2*	*1*	*0*	*5*	*6*	*1*	*5*	*1*	*12*	*0*	*5*	*1*	*0*	*1*	*1*	*19*	*2*	*1*	*10*	*5*	*31*	*8*
<LI22B> Approximately how old was the equipment that were removed and replaced?																										
Less than 5 years old	15.94	12.66	17.36	20.66	0.00	0.00	0.00	8.55	17.83	23.89	29.31	13.81	21.81	53.96	17.22	4.12	0.00	51.96	56.14	22.36	4.86	2.44	7.85	5.34	17.68	7.90
Between 5 and 10 years old	27.07	24.75	28.46	25.71	74.80	6.11	0.00	15.17	36.10	6.12	19.84	67.29	10.51	13.13	18.21	23.12	0.00	26.18	20.86	31.65	58.80	0.68	25.10	22.47	25.32	35.15
Between 10 and 15 years old or	21.94	28.68	19.43	7.26	5.11	18.75	0.00	37.68	15.28	9.12	17.80	3.32	32.77	15.78	22.91	56.70	0.00	4.74	1.30	27.88	6.11	44.98	14.63	35.38	23.92	12.79
More than 15 years old	31.00	32.80	29.66	35.22	20.09	75.15	0.00	38.15	24.21	45.74	27.83	12.89	32.81	11.72	39.55	15.48	0.00	12.74	7.64	16.45	30.20	49.07	47.66	24.28	28.20	43.96
Don't Know	4.05	1.12	5.09	11.15	0.00	0.00	0.00	0.44	6.58	15.14	5.22	2.69	2.10	5.40	2.11	0.58	0.00	4.37	14.06	1.66	0.03	2.83	4.75	12.54	4.89	0.20
n	*1065*	*551*	*374*	*140*	*5*	*7*	*0*	*79*	*132*	*62*	*145*	*78*	*406*	*37*	*61*	*53*	*0*	*187*	*73*	*121*	*29*	*42*	*515*	*98*	*900*	*165*
<LI23B> How would you describe the condition of the lighting equipment that was removed and replaced?																										
Poor condition	10.23	15.83	7.12	10.38	14.82	0.00	0.00	15.89	7.50	8.51	13.85	14.35	15.81	8.53	18.39	1.37	0.00	7.71	11.17	6.14	65.30	11.00	10.29	7.03	10.60	8.52
Fair condition or	60.18	64.15	58.44	54.71	85.18	87.79	0.00	64.47	56.51	50.11	41.83	64.48	59.27	19.03	32.49	75.28	0.00	53.70	37.74	63.41	21.67	54.32	65.49	47.33	56.29	78.17
Good condition	27.18	19.80	31.32	26.31	0.00	12.21	0.00	19.64	31.16	29.25	43.84	20.07	24.35	72.44	49.13	22.93	0.00	37.93	50.80	30.46	12.36	34.67	20.28	31.84	30.23	13.09
Don't Know	2.42	0.22	3.12	8.60	0.00	0.00	0.00	0.00	4.83	12.13	0.49	1.10	0.57	0.00	0.00	0.42	0.00	0.66	0.29	0.00	0.67	0.02	3.95	13.81	2.89	0.22
n	*1065*	*551*	*374*	*140*	*5*	*7*	*0*	*79*	*132*	*62*	*145*	*78*	*406*	*37*	*61*	*53*	*0*	*187*	*73*	*121*	*29*	*42*	*515*	*98*	*900*	*165*
<LI24B> Approximately what percentage of the lighting equipment that was removed and replaced was broken or Not working prior to installing ?																										

* Values are shown as percent of respondents weighted by kWh.
* n is the number of respondents.

	ALL	PG&E(%)	SCE(%)	SDG&E(%)	PG&E Custom Program(%)	SCE Custom Program(%)	SDG&E Custom Program(%)	PG&E Deemed Program(%)	SCE Deemed Program(%)	SDG&E Deemed Program(%)	SCE Direct Install Program(%)	SDG&E Direct Install Program(%)	PG&E LGP Program(%)	SCE LGP Program(%)	PG&E L3P Program(%)	SCE L3P Program(%)	SDG&E L3P Program(%)	CFL Basic(%)	CFL Reflector(%)	High Bay(%)	HID(%)	LF Delamp(%)	Linear(%)	Occupancy Sensor(%)	Deemed(%)	All Calculated(%)
0	50.49	58.04	46.01	54.30	86.23	0.00	0.00	34.48	55.23	65.50	61.07	30.53	65.45	38.75	62.24	15.50	0.00	64.86	56.17	60.29	33.98	30.94	40.49	68.61	52.31	42.10
1	7.52	8.33	7.57	1.56	8.66	42.95	0.00	16.45	2.25	1.61	1.85	1.43	1.68	0.00	2.43	10.80	0.00	3.60	1.91	5.26	0.00	0.52	11.57	12.39	4.05	23.56
2	6.83	2.68	9.22	5.63	0.00	0.00	0.00	5.95	12.43	8.29	8.71	0.00	1.28	0.13	0.83	1.82	0.00	5.43	9.56	2.96	0.00	0.42	13.23	0.14	8.30	0.04
3	9.59	1.89	14.59	0.46	0.00	30.02	0.00	5.19	6.13	0.00	8.86	1.42	0.08	49.18	0.00	56.78	0.00	0.00	23.63	5.56	0.00	44.72	10.01	0.00	8.08	16.58
4	0.22	0.12	0.30	0.00	0.00	0.00	0.00	0.00	0.05	0.00	1.73	0.00	0.30	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.34	0.51	0.00	0.22	0.22
5	4.58	2.57	4.75	16.01	0.00	0.00	0.00	1.52	5.63	1.82	1.84	46.11	3.01	4.25	12.62	10.44	0.00	6.25	2.09	4.29	0.00	2.72	6.06	1.95	5.40	0.79
7	0.00	0.00	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	0.02	0.00	0.00	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.21	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.05	0.00	0.02	0.00
9	0.04	0.01	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	2.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.24
10	6.34	8.44	5.49	2.53	0.00	20.92	0.00	15.62	3.19	1.98	4.60	3.69	5.63	5.31	9.93	2.71	0.00	3.30	3.07	5.37	19.38	5.34	7.41	3.13	5.70	9.31
12	0.02	0.00	0.00	0.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.32	0.00	0.00	0.00	0.00	0.00	0.00	0.59	0.00	0.00	0.00	0.00	0.00	0.03	0.00
15	0.43	0.21	0.59	0.00	0.00	0.00	0.00	0.00	0.73	0.00	0.91	0.00	0.54	0.00	0.00	0.00	0.00	1.12	2.57	0.33	0.03	0.69	0.07	1.85	0.52	0.02
18	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00
20	3.38	3.34	2.72	11.74	5.11	0.00	0.00	1.64	3.51	15.85	3.50	3.03	3.77	0.00	4.99	0.06	0.00	6.05	0.32	4.39	0.44	3.70	3.00	1.15	3.53	2.72
25	0.72	1.35	0.32	1.25	0.00	0.00	0.00	1.15	0.00	1.83	2.14	0.00	2.43	0.00	0.00	0.00	0.00	0.32	0.00	0.47	2.32	2.15	0.68	0.99	0.86	0.08
30	1.45	3.91	0.11	1.08	0.00	0.00	0.00	9.17	0.18	0.12	0.00	3.14	1.64	0.12	0.00	0.00	0.00	2.09	0.00	2.67	0.00	0.95	0.55	0.98	1.51	1.16
33	0.06	0.17	0.00	0.00	0.00	0.00	0.00	0.46	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.92	0.07	0.00
40	0.08	0.23	0.00	0.00	0.00	0.00	0.00	0.26	0.00	0.00	0.00	0.00	0.13	0.00	1.22	0.00	0.00	0.68	0.00	0.04	0.00	0.53	0.03	0.00	0.08	0.07
50	3.96	5.37	3.37	1.65	0.00	0.00	0.00	0.35	5.40	0.61	0.00	3.87	13.58	0.00	0.00	0.00	0.00	0.26	0.00	5.58	43.42	0.02	0.72	0.70	4.69	0.59
55	0.00	0.00	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00
70	0.05	0.01	0.08	0.00	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.00	0.06	0.00
75	0.12	0.23	0.00	0.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.53	0.09	0.00	2.86	0.00	0.00	2.40	0.00	0.00	0.37	0.00	0.11	0.00	0.15	0.00
80	0.02	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.03	0.00
100	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00
102	4.07	3.11	4.77	1.98	0.00	6.11	0.00	7.78	5.16	2.40	4.53	1.10	0.33	0.00	2.86	1.90	0.00	3.55	0.00	2.80	0.03	6.96	5.19	7.19	4.40	2.53
n	*1065*	*551*	*374*	*140*	*5*	*7*	*0*	*79*	*132*	*62*	*145*	*78*	*406*	*37*	*61*	*53*	*0*	*187*	*73*	*121*	*29*	*42*	*515*	*98*	*900*	*165*
<A3C> According to our records, your organization inatalled <qty1> many lighting measures through <> period is this correct?																										
Yes-quantity correct	79.47	68.87	86.33	91.86	0.00	0.00	0.00	69.50	76.97	99.58	94.41	73.32	72.64	54.61	61.05	99.45	0.00	78.74	91.83	93.93	82.88	65.05	76.69	91.51	86.23	48.43
Yes-Change Quantity	6.93	14.98	1.33	0.03	0.00	0.00	0.00	1.04	0.30	0.00	3.28	0.11	10.09	1.63	33.45	0.00	0.00	4.72	0.00	0.00	13.52	2.26	10.74	1.35	1.61	31.33
Did Not Install	4.76	2.97	6.40	3.67	0.00	0.00	0.00	0.60	14.53	0.42	0.41	11.48	5.13	0.12	0.23	0.00	0.00	10.91	0.00	2.33	3.60	29.40	0.99	0.22	5.20	2.76
Refused	0.02	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.12
Don't Know	8.82	13.13	5.94	4.44	0.00	0.00	0.00	28.86	8.21	0.00	1.91	15.09	12.04	43.63	5.26	0.55	0.00	5.63	8.17	3.74	0.00	3.28	11.54	6.92	6.96	17.36
n	*869*	*426*	*345*	*98*	*0*	*0*	*0*	*61*	*118*	*41*	*148*	*57*	*306*	*25*	*59*	*54*	*0*	*122*	*24*	*14*	*11*	*105*	*403*	*190*	*773*	*96*
<A3C_QTY> Approximately how many of this lighting measure did you install?																										
0 to 10	5.63	6.46	1.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.25	0.00	12.35	100.00	1.30	0.00	0.00	37.74	0.00	0.00	12.63	36.38	1.67	19.94	8.35	4.63
11 to 30	26.11	31.19	3.35	14.31	0.00	0.00	0.00	20.30	86.40	0.00	0.00	14.31	12.41	0.00	47.96	0.00	0.00	35.23	0.00	0.00	17.44	39.59	25.00	33.12	16.89	29.48
31 to 50	4.64	2.16	15.80	0.00	0.00	0.00	0.00	0.00	11.79	0.00	93.75	0.00	3.08	0.00	1.36	0.00	0.00	10.22	0.00	0.00	20.82	0.00	3.64	11.34	13.33	1.46
51 to 100	31.25	20.57	78.96	85.69	0.00	0.00	0.00	79.70	1.81	0.00	0.00	85.69	7.56	0.00	31.56	100.00	0.00	0.00	0.00	0.00	37.55	0.00	35.60	0.00	8.58	39.54
101 to 500	7.58	9.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	19.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.42	10.14	1.66	9.74
More than 1000	24.80	30.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	44.79	0.00	17.82	0.00	0.00	16.81	0.00	0.00	11.56	24.03	25.66	25.45	51.20	15.14
n	*130*	*119*	*9*	*2*	*0*	*0*	*0*	*2*	*4*	*0*	*3*	*2*	*107*	*1*	*10*	*1*	*0*	*29*	*0*	*0*	*8*	*7*	*55*	*31*	*63*	*67*
<DEEM_INSTALL_DATE3_NU> Our Records indicate you installed lighting equipment throught the program on <this date> is that correct?																										
Yes	98.40	96.90	99.33	100.00	0.00	0.00	0.00	100.00	99.55	100.00	98.74	100.00	94.24	99.39	100.00	100.00	0.00	99.86	100.00	100.00	100.00	100.00	97.23	99.86	99.59	92.40
NO	0.34	0.00	0.66	0.00	0.00	0.00	0.00	0.00	0.45	0.00	1.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.55	0.13	0.41	0.00
Don't Know	1.26	3.10	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.76	0.61	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00	2.22	0.01	0.01	7.60
n	*750*	*355*	*305*	*90*	*0*	*0*	*0*	*55*	*102*	*40*	*132*	*50*	*247*	*20*	*53*	*51*	*0*	*103*	*21*	*11*	*9*	*91*	*346*	*169*	*679*	*71*
<DEEM_INSTALL_YEAR3> In what year did you install/delamp the lighting equipment?																										
2009	65.52	0.00	65.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	88.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	71.53	0.00	65.52	0.00
2011	34.48	0.00	34.48	0.00	0.00	0.00	0.00	0.00	100.00	0.00	11.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	28.47	100.00	34.48	0.00
n	*3*	*0*	*3*	*0*	*0*	*0*	*0*	*0*	*1*	*0*	*2*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*2*	*1*	*3*	*0*
<DEEM_INSTALL_MONTH3> And what month? {If they can Not recall month, try to get the season.} ';																										

* Values are shown as percent of respondents weighted by kWh.
* n is the number of respondents.

	ALL	PG&E(%)	SCE(%)	SDG&E(%)	PG&E Custom Program(%)	SCE Custom Program(%)	SDG&E Custom Program(%)	PG&E Deemed Program(%)	SCE Deemed Program(%)	SDG&E Deemed Program(%)	SCE Direct Install Program(%)	SDG&E Direct Install Program(%)	PG&E LGP Program(%)	SCE LGP Program(%)	PG&E L3P Program(%)	SCE L3P Program(%)	SDG&E L3P Program(%)	CFL Basic(%)	CFL Reflector(%)	High Bay(%)	HID(%)	LF Delamp(%)	Linear(%)	Occupancy Sensor(%)	Deemed(%)	All Calculated(%)
March	8.41	0.00	8.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	8.41	0.00
August	26.07	0.00	26.07	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	28.47	0.00	26.07	0.00
September	65.52	0.00	65.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	88.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	71.53	0.00	65.52	0.00
n	*3*	*0*	*3*	*0*	*0*	*0*	*0*	*0*	*1*	*0*	*2*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*2*	*1*	*3*	*0*
<LI18C> Of the CFLs you received through the program, what percentage do you estimate were placed into storage for later use?																										
0	91.11	87.20	96.32	72.35	0.00	0.00	0.00	0.00	92.84	0.00	94.35	87.97	93.68	100.00	54.24	99.84	0.00	90.90	88.72	0.00	0.00	100.00	99.32	92.94	90.90	93.73
1	0.31	0.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.14	0.00	0.00	0.00	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.11
3	1.68	0.00	0.00	17.75	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.04	0.00	0.00	0.00	0.00	0.00	0.00	1.81	0.00
5	0.33	0.94	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.12	0.00	0.00	0.16	0.00	0.00	2.54	0.00	0.00	0.00	0.68	0.00	0.35	0.00
10	0.25	0.77	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.34	0.00	2.91	0.00	0.00	0.30	0.00	0.00	0.00	0.00	0.00	0.00	0.15	1.40
15	0.08	0.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.28	0.00	0.00	0.00	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.00
30	0.18	0.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.68	0.00	0.00	0.00	0.00	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
100	1.18	0.76	0.00	9.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.03	0.91	0.00	0.00	0.00	0.00	0.30	7.82	0.00	0.00	0.00	0.00	0.00	1.28	0.00
102	4.90	8.58	3.64	0.00	0.00	0.00	0.00	0.00	7.16	0.00	5.65	0.00	1.84	0.00	42.85	0.00	0.00	5.78	0.93	0.00	0.00	0.00	0.00	7.06	5.23	0.76
n	*119*	*65*	*40*	*14*	*0*	*0*	*0*	*0*	*2*	*1*	*23*	*13*	*57*	*6*	*8*	*9*	*0*	*90*	*17*	*0*	*0*	*1*	*8*	*3*	*105*	*14*
<LI19C> Were any of the program provided lighting equipment installed at another facility? If so, what percentage would you estimate?																										
0	93.10	98.52	89.07	91.60	0.00	0.00	0.00	97.41	80.18	89.18	97.89	99.47	98.41	62.76	99.23	91.90	0.00	100.00	90.80	100.00	100.00	93.40	92.34	91.36	91.95	98.93
2	0.02	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.02	0.00
5	0.79	0.00	0.21	8.28	0.00	0.00	0.00	0.00	0.23	10.82	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.40	0.00	0.95	0.00
10	0.18	0.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.31	0.00	0.00	1.07
20	0.66	0.10	1.20	0.00	0.00	0.00	0.00	0.00	3.16	0.00	0.00	0.00	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	2.83	0.79	0.00
25	0.26	0.06	0.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00	0.00	2.24	0.00	0.00	0.00	0.00	0.00	0.28	0.00	1.10	0.32	0.00
30	0.16	0.00	0.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.72	0.19	0.00
35	0.26	0.00	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.91	0.31	0.00
60	0.08	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.90	0.00	0.00	0.10	0.00
70	1.50	0.00	2.93	0.00	0.00	0.00	0.00	0.00	5.82	0.00	0.00	0.00	0.00	0.00	0.00	3.46	0.00	0.00	0.00	0.00	0.00	0.00	2.01	1.70	1.80	0.00
75	1.00	0.00	1.94	0.00	0.00	0.00	0.00	0.00	5.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.77	0.00	1.19	0.00
80	0.48	0.00	0.94	0.00	0.00	0.00	0.00	0.00	0.54	0.00	0.00	0.00	0.00	30.47	0.00	0.00	0.00	0.00	8.54	0.00	0.00	4.27	0.00	0.00	0.58	0.00
93	0.19	0.00	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.85	0.22	0.00
99	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00
100	0.11	0.24	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.78	0.10	0.00	0.00	0.00	0.00	0.00	1.12	0.02	0.00	0.13	0.00
102	1.23	0.64	1.87	0.12	0.00	0.00	0.00	2.59	4.90	0.00	0.00	0.53	0.47	0.31	0.00	0.00	0.00	0.00	0.66	0.00	0.00	0.00	1.95	0.54	1.47	0.00
n	*750*	*355*	*305*	*90*	*0*	*0*	*0*	*55*	*102*	*40*	*132*	*50*	*247*	*20*	*53*	*51*	*0*	*103*	*21*	*11*	*9*	*91*	*346*	*169*	*679*	*71*
<LI20C> What type of lighting was removed and replaced when you installed the lighting equipment through the Program?																										
High Performance T8	0.10	0.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.00	0.00	0.57
T8 fluorescent fixtures (1in. diameter b	8.20	11.33	5.99	7.33	0.00	0.00	0.00	2.30	7.21	4.10	3.51	16.60	20.20	0.00	1.66	9.18	0.00	0.00	0.00	0.00	0.00	0.00	12.91	1.72	10.00	0.22
T10 fluorescent fixtures	0.07	0.03	0.11	0.00	0.00	0.00	0.00	0.00	0.34	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.09	0.00	0.00	0.00	0.00	0.11	0.00	0.08	0.04
T12 fluorescent fixtures	22.60	24.33	20.05	30.51	0.00	0.00	0.00	38.47	32.90	38.97	13.40	6.17	32.10	17.76	4.57	13.67	0.00	0.41	17.89	20.86	18.85	0.00	31.81	8.05	25.21	11.02
Compact HID (High Intensity Discharge) F	9.24	19.09	3.35	0.00	0.00	0.00	0.00	21.60	1.29	0.00	2.18	0.00	6.05	0.85	38.84	8.68	0.00	0.00	0.46	41.68	0.00	0.00	11.36	0.94	5.35	26.48
Screw-in Modular CFLS	0.78	0.35	1.12	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.31	0.00	0.00	1.08	4.93	0.00	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.95	0.00
Hardwired CFL Fixtures	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Incandescent bulbs	9.67	14.80	6.20	7.40	0.00	0.00	0.00	0.00	0.18	2.67	10.79	21.01	9.46	39.28	31.00	4.45	0.00	68.98	35.47	3.19	0.00	11.52	6.19	1.31	6.78	22.48
CFL Exit Signs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LED Exit Signs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Halogen bulbs	1.44	0.67	0.66	9.91	0.00	0.00	0.00	0.73	1.97	13.36	0.00	0.00	1.08	0.00	0.00	0.00	0.00	2.93	0.00	7.59	0.00	0.00	0.02	3.44	1.65	0.51
Reflectors	0.32	0.09	0.37	1.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.42	0.18	26.01	0.00	0.00	0.00	1.37	16.67	0.00	0.00	0.00	0.00	0.00	0.40	0.00
Electronic Ballast	0.50	0.20	0.53	1.69	0.00	0.00	0.00	0.00	0.18	0.00	1.11	6.53	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.83	0.00	0.61	0.00
Magnetic Ballast	0.22	0.10	0.14	1.32	0.00	0.00	0.00	0.00	0.00	1.79	0.28	0.00	0.19	0.00	0.00	0.10	0.00	0.88	0.00	0.00	0.87	0.00	0.26	0.00	0.23	0.17
Manual Switches	9.19	3.56	14.26	3.83	0.00	0.00	0.00	2.20	10.23	3.54	12.69	4.65	4.30	2.29	3.07	23.86	0.00	0.14	0.00	0.00	32.50	9.00	0.48	35.51	10.96	1.35
Lighting Controls, Time Clock	0.01	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05
Lighting Controls, Occupancy Sensor	0.21	0.54	0.00	0.00	0.00	0.00	0.00	1.41	0.00	0.00	0.00	0.00	0.00	0.00	0.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.88	0.26	0.00
Lighting Controls, Bypass/Delay Timers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Photocell	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other	2.98	2.54	3.50	1.76	0.00	0.00	0.00	0.27	8.28	0.00	1.72	6.83	4.40	0.00	0.70	0.00	0.00	1.29	0.46	1.20	0.00	1.19	4.17	1.19	3.43	0.96

* Values are shown as percent of respondents weighted by kWh.
* n is the number of respondents.

	ALL	PG&E(%)	SCE(%)	SDG&E(%)	PG&E Custom Program(%)	SCE Custom Program(%)	SDG&E Custom Program(%)	PG&E Deemed Program(%)	SCE Deemed Program(%)	SDG&E Deemed Program(%)	SCE Direct Install Program(%)	SDG&E Direct Install Program(%)	PG&E LGP Program(%)	SCE LGP Program(%)	PG&E L3P Program(%)	SCE L3P Program(%)	SDG&E L3P Program(%)	CFL Basic(%)	CFL Reflector(%)	High Bay(%)	HID(%)	LF Delamp(%)	Linear(%)	Occupancy Sensor(%)	Deemed(%)	All Calculated(%)
Fat/Thick Tubes	13.87	21.50	9.54	5.19	0.00	0.00	0.00	5.48	9.02	2.67	15.30	12.43	29.23	0.00	17.24	0.20	0.00	0.92	0.00	0.00	0.00	9.36	22.29	0.95	14.60	10.65
Skinny/Thin Tubes	0.63	0.78	0.62	0.00	0.00	0.00	0.00	0.00	0.11	0.00	1.36	0.00	1.34	0.00	0.29	0.02	0.00	0.00	0.00	0.00	5.44	1.19	0.95	0.01	0.47	1.32
T5 Fixtures (5/8in. diameter)	0.47	0.03	0.87	0.00	0.00	0.00	0.00	0.00	2.60	0.00	0.00	0.00	0.06	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.02	1.89	0.58	0.00
Did not Remove Anything	12.96	5.28	20.37	2.50	0.00	0.00	0.00	17.80	4.89	2.99	25.58	1.08	4.58	3.18	0.00	34.48	0.00	1.23	20.70	0.00	0.00	6.49	8.32	31.10	11.44	19.69
Other -Record	2.86	0.85	4.82	0.00	0.00	0.00	0.00	0.22	11.08	0.00	1.80	0.00	1.58	0.00	0.00	1.54	0.00	1.48	8.97	1.24	7.05	0.98	0.99	7.95	3.44	0.28
Refused	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Don't Know	9.73	5.27	10.42	26.40	0.00	0.00	0.00	9.52	10.52	29.33	11.90	17.96	5.73	10.62	2.34	7.50	0.00	12.04	1.18	24.24	35.28	61.45	7.78	7.53	10.95	4.34
n	*655*	*296*	*275*	*84*	*0*	*0*	*0*	*48*	*77*	*34*	*132*	*50*	*213*	*15*	*35*	*51*	*0*	*102*	*21*	*11*	*8*	*10*	*335*	*168*	*585*	*70*
<LI21C> Were the HID lamps you removed High Pressure Sodium, Metal Halide, Mercury Vapor or Incandescent?																										
Metal Halide	4.48	2.36	11.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	36.38	0.00	52.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.31	0.00	16.89	0.00
Mercury Vapor	95.43	97.64	88.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	63.62	0.00	47.87	0.00	100.00	100.00	0.00	0.00	0.00	100.00	0.00	0.00	94.69	0.00	82.76	100.00
Incandescent	0.09	0.00	0.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
n	*8*	*3*	*5*	*0*	*0*	*0*	*0*	*0*	*1*	*0*	*2*	*0*	*2*	*1*	*1*	*1*	*0*	*0*	*1*	*2*	*0*	*0*	*5*	*0*	*7*	*1*
<LI22C> Approximately how old was the equipment that were removed and replaced?																										
Less than 5 years old	18.20	25.79	12.44	13.11	0.00	0.00	0.00	2.23	3.35	10.53	24.79	20.39	5.92	28.49	66.31	4.25	0.00	35.88	52.67	7.59	0.00	0.00	21.08	4.53	10.10	57.81
Between 5 and 10 years old	22.63	21.51	24.92	15.98	0.00	0.00	0.00	19.11	13.87	9.70	32.46	33.68	34.23	46.73	2.96	30.59	0.00	26.74	9.32	4.39	16.27	67.26	25.45	14.74	24.93	11.42
Between 10 and 15 years old or	13.14	7.79	16.52	20.23	0.00	0.00	0.00	19.58	22.91	21.67	11.28	16.14	8.06	0.00	2.40	15.50	0.00	19.54	9.53	0.00	7.05	10.68	9.95	25.92	14.83	4.89
More than 15 years old	39.57	41.82	35.47	50.34	0.00	0.00	0.00	58.57	43.94	58.10	21.45	28.47	47.87	7.72	25.44	49.56	0.00	16.54	27.26	88.02	57.83	7.54	38.22	41.17	42.93	23.14
Don't Know	6.46	3.09	10.64	0.34	0.00	0.00	0.00	0.51	15.93	0.00	10.02	1.31	3.92	17.06	2.89	0.10	0.00	1.30	1.22	0.00	18.85	14.52	5.30	13.64	7.22	2.74
n	*594*	*274*	*242*	*78*	*0*	*0*	*0*	*40*	*71*	*31*	*114*	*47*	*199*	*12*	*35*	*45*	*0*	*100*	*19*	*11*	*8*	*9*	*323*	*124*	*527*	*67*
<LI23C> How would you describe the condition of the lighting equipment that was removed and replaced?																										
Poor condition	13.98	10.95	18.16	6.31	0.00	0.00	0.00	36.15	29.76	0.63	1.66	22.32	8.85	0.00	3.57	29.97	0.00	9.27	9.44	42.13	0.00	8.69	9.96	21.85	16.59	1.22
Fair condition or	47.01	54.85	40.31	45.56	0.00	0.00	0.00	36.23	43.78	45.03	39.20	47.04	62.10	2.35	51.54	38.71	0.00	39.12	62.09	44.28	90.33	88.99	49.14	37.88	45.79	52.94
Good condition	33.59	32.59	31.68	47.96	0.00	0.00	0.00	27.21	25.71	54.10	43.98	30.64	26.15	97.65	44.78	12.42	0.00	38.27	27.64	13.59	9.67	0.13	36.81	31.23	31.48	43.94
Refused	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.02
Don't Know	5.42	1.60	9.85	0.17	0.00	0.00	0.00	0.42	0.75	0.23	15.17	0.00	2.88	0.00	0.12	18.90	0.00	13.33	0.83	0.00	0.00	2.20	4.09	9.05	6.15	1.88
n	*594*	*274*	*242*	*78*	*0*	*0*	*0*	*40*	*71*	*31*	*114*	*47*	*199*	*12*	*35*	*45*	*0*	*100*	*19*	*11*	*8*	*9*	*323*	*124*	*527*	*67*
<LI24C> Approximately what percentage of the lighting equipment that was removed and replaced was broken or Not working prior to installing ?																										
0	56.68	56.24	53.93	72.78	0.00	0.00	0.00	26.53	38.47	72.79	67.68	72.75	67.19	99.26	51.92	53.72	0.00	78.29	72.37	31.62	31.35	78.31	57.44	51.26	57.03	54.95
1	1.67	0.84	2.14	3.04	0.00	0.00	0.00	0.21	0.12	2.75	0.00	3.87	1.19	0.00	0.57	11.14	0.00	0.00	0.00	3.19	0.00	0.13	1.69	2.12	2.01	0.00
2	3.93	1.19	7.12	0.03	0.00	0.00	0.00	1.45	1.97	0.04	5.14	0.00	1.89	0.00	0.00	22.95	0.00	0.00	0.00	0.00	0.00	0.00	3.45	9.10	4.73	0.00
3	0.39	0.00	0.82	0.00	0.00	0.00	0.00	0.00	0.30	0.00	0.44	0.00	0.00	0.00	0.00	2.80	0.00	0.19	0.00	0.00	0.00	0.00	0.22	1.24	0.47	0.00
4	0.23	0.14	0.07	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.18	5.71	0.26	0.00	0.00	0.00	0.00	1.48	0.00	0.00	0.00	0.00	0.13	0.16	0.27	0.04
5	8.99	6.80	10.29	12.36	0.00	0.00	0.00	21.19	17.20	16.65	6.91	0.27	4.20	0.00	4.75	3.62	0.00	2.57	10.77	21.65	68.65	0.00	6.40	14.53	9.70	5.55
6	0.05	0.00	0.00	0.50	0.00	0.00	0.00	0.00	0.00	0.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.24	0.06	0.00
10	9.92	11.62	10.25	0.48	0.00	0.00	0.00	25.68	18.74	0.31	6.69	0.96	14.34	0.74	1.52	0.56	0.00	1.84	0.00	21.44	0.00	10.68	10.29	9.46	11.53	2.06
12	0.28	0.00	0.59	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.48	0.00	0.00	0.00	0.00	0.00	0.00	3.55	0.00	0.00	0.00	0.00	0.00	0.00	0.34	0.00
15	2.67	0.58	4.97	0.35	0.00	0.00	0.00	2.67	2.92	0.15	9.61	0.92	0.11	0.00	0.43	0.00	0.00	0.20	0.00	0.00	0.00	0.00	3.35	2.75	3.20	0.05
20	8.61	16.20	2.84	3.64	0.00	0.00	0.00	0.00	7.10	3.68	0.00	3.53	5.92	0.00	38.84	0.00	0.00	0.90	6.97	1.24	0.00	0.00	11.05	7.14	3.63	32.97
25	0.24	0.53	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.40	0.00	0.97	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.74	0.28	0.06
30	0.24	0.19	0.00	1.66	0.00	0.00	0.00	0.00	0.00	2.25	0.00	0.00	0.37	0.00	0.00	0.00	0.00	2.36	0.00	0.00	0.00	1.28	0.05	0.00	0.29	0.00
33	0.50	1.18	0.00	0.00	0.00	0.00	0.00	4.14	0.00	0.00	0.00	0.00	1.13	0.00	0.00	0.00	0.00	3.16	0.00	0.00	0.00	0.00	0.40	0.00	0.30	1.47
40	0.02	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.13
50	2.49	1.28	3.38	3.43	0.00	0.00	0.00	3.10	6.47	0.63	0.00	11.32	1.10	0.00	0.79	4.24	0.00	4.81	9.06	20.86	0.00	7.41	1.01	0.00	2.84	0.77
60	0.09	0.21	0.00	0.00	0.00	0.00	0.00	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.00	0.11	0.00
70	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03
75	1.28	0.00	2.66	0.00	0.00	0.00	0.00	0.00	6.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.01	0.00	1.54	0.00
80	0.14	0.33	0.00	0.00	0.00	0.00	0.00	2.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.22	0.00	0.17	0.00
90	0.03	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.04	0.00
100	0.07	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.27	0.08	0.00
101	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.02
102	1.47	2.52	0.77	0.24	0.00	0.00	0.00	11.23	0.05	0.09	1.51	0.67	1.78	0.00	0.00	0.82	0.00	0.60	0.83	0.00	0.00	2.20	1.92	0.83	1.39	1.88
n	*594*	*274*	*242*	*78*	*0*	*0*	*0*	*40*	*71*	*31*	*114*	*47*	*199*	*12*	*35*	*45*	*0*	*100*	*19*	*11*	*8*	*9*	*323*	*124*	*527*	*67*

* Values are shown as percent of respondents weighted by kWh.
* n is the number of respondents.

	ALL	PG&E(%)	SCE(%)	SDG&E(%)	PG&E Custom Program(%)	SCE Custom Program(%)	SDG&E Custom Program(%)	PG&E Deemed Program(%)	SCE Deemed Program(%)	SDG&E Deemed Program(%)	SCE Direct Install Program(%)	SDG&E Direct Install Program(%)	PG&E LGP Program(%)	SCE LGP Program(%)	PG&E L3P Program(%)	SCE L3P Program(%)	SDG&E L3P Program(%)	CFL Basic(%)	CFL Reflector(%)	High Bay(%)	HID(%)	LF Delamp(%)	Linear(%)	Occupancy Sensor(%)	Deemed(%)	All Calculated(%)
<LI30> Considering all of the lighting changes we just discussed that were implemented through the program, approximately what percentage of the facility's lighting was affected by these changes?																										
0	0.33	0.00	0.66	0.00	0.00	0.00	0.00	0.00	1.25	0.00	0.27	0.00	0.00	0.00	0.00	0.00	0.00	0.68	0.00	0.00	0.00	0.00	0.51	0.00	0.40	0.00
1	0.10	0.07	0.13	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.39	0.22	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.02	0.32	0.12	0.02
2	2.60	0.02	5.12	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.03	0.00	0.00	27.41	0.00	0.11	0.00	0.00	0.00	0.00	4.61	0.00	0.01	15.02
3	0.25	0.00	0.49	0.00	0.00	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.28	0.00	0.00	0.00	0.00	0.30	0.00
4	0.42	1.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.85	0.00	0.00	0.00	0.00	0.23	0.00	0.00	0.00	0.00	0.72	0.00	0.51	0.00
5	1.03	0.13	1.90	0.22	0.00	0.00	0.00	0.00	3.36	0.00	1.12	0.79	0.23	0.00	0.00	0.02	0.00	0.00	1.79	19.59	0.00	0.01	0.31	0.32	1.24	0.02
8	0.54	1.33	0.00	0.00	0.00	0.00	0.00	7.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.97	0.00	0.66	0.00
10	1.73	1.48	1.53	4.13	0.00	0.00	0.00	5.70	3.00	5.09	0.36	1.67	0.61	0.00	0.41	0.23	0.00	0.63	0.00	1.12	0.00	0.11	2.61	0.85	2.04	0.24
12	0.03	0.00	0.00	0.34	0.00	0.00	0.00	0.00	0.00	0.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.15	0.04	0.00
15	0.05	0.01	0.01	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.53	0.01	0.00	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.00	0.05	0.02
20	0.84	0.43	1.30	0.00	0.00	0.00	0.00	0.00	2.72	0.00	0.19	0.00	0.66	0.00	0.25	0.00	0.00	0.40	0.00	2.64	0.00	1.32	0.89	0.24	0.93	0.38
25	0.85	0.26	1.48	0.00	0.00	0.00	0.00	0.00	0.30	0.00	0.23	0.00	0.12	0.00	0.73	6.82	0.00	0.21	0.00	0.00	0.00	5.99	0.15	0.23	1.03	0.00
30	0.96	0.09	1.71	0.74	0.00	0.00	0.00	0.00	2.14	1.02	0.73	0.00	0.17	14.11	0.00	0.02	0.00	3.50	0.00	0.00	0.00	0.54	0.20	2.85	1.15	0.08
33	0.14	0.00	0.27	0.00	0.00	0.00	0.00	0.00	0.59	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.24	0.00	0.17	0.00
35	0.10	0.05	0.09	0.42	0.00	0.00	0.00	0.00	0.00	0.00	0.27	1.49	0.10	0.00	0.00	0.00	0.00	0.56	0.42	0.00	0.00	0.00	0.03	0.23	0.12	0.00
40	0.40	0.42	0.43	0.10	0.00	0.00	0.00	0.00	0.29	0.00	0.90	0.34	0.20	0.00	1.17	0.04	0.00	0.13	0.00	0.00	0.00	1.06	0.23	0.66	0.47	0.03
45	0.01	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.17	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.02
50	7.31	14.11	3.02	0.22	0.00	0.00	0.00	20.07	1.95	0.04	4.67	0.68	18.56	0.00	0.62	3.34	0.00	6.99	23.61	0.00	21.40	1.43	9.88	3.68	8.34	2.39
60	1.95	1.96	2.24	0.17	0.00	0.00	0.00	2.74	3.46	0.00	1.81	0.59	2.37	0.00	0.57	0.41	0.00	1.30	0.00	0.00	0.00	0.09	3.21	0.24	2.29	0.33
65	0.10	0.18	0.02	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.79	0.32	0.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.61	0.02	0.10	0.12	0.00
70	4.26	1.32	5.69	9.83	0.00	0.00	0.00	1.10	8.52	12.13	3.24	3.96	1.61	0.00	0.85	4.05	0.00	5.81	0.00	0.00	12.09	0.69	3.54	8.73	4.91	1.10
75	4.24	7.01	2.38	2.07	0.00	0.00	0.00	11.01	0.88	1.93	3.77	2.42	6.47	4.96	5.38	3.13	0.00	1.19	0.00	23.33	26.02	0.89	4.32	2.61	4.43	3.33
80	11.75	4.58	17.91	9.58	0.00	0.00	0.00	2.33	19.87	9.43	23.88	9.96	4.43	8.44	6.45	4.50	0.00	4.04	13.33	20.14	0.00	2.69	9.93	23.65	13.41	3.77
85	1.69	2.88	1.01	0.10	0.00	0.00	0.00	0.89	0.00	0.14	3.07	0.00	4.52	0.00	0.79	0.07	0.00	0.59	1.65	0.00	0.00	0.01	2.91	0.00	0.84	5.80
90	10.54	4.43	16.52	4.35	0.00	0.00	0.00	8.53	22.71	1.95	8.61	10.49	5.03	44.73	0.33	9.81	0.00	7.23	7.84	0.00	0.00	32.68	8.63	6.38	11.53	5.80
93	1.00	0.00	1.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.10	1.21	0.00
95	5.61	7.87	4.30	2.52	0.00	0.00	0.00	9.49	4.42	2.50	6.59	2.59	3.80	0.00	15.34	0.86	0.00	5.36	0.00	0.00	0.00	10.43	5.05	6.02	4.82	9.41
96	0.08	0.00	0.00	0.92	0.00	0.00	0.00	0.00	0.00	1.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.00	0.10	0.00
97	0.01	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04
98	0.85	0.37	1.09	1.75	0.00	0.00	0.00	0.11	0.59	2.35	1.36	0.24	0.45	0.00	0.38	2.04	0.00	1.14	0.00	0.00	0.00	1.28	0.46	1.86	1.00	0.16
99	5.34	9.51	0.79	12.36	0.00	0.00	0.00	0.88	0.00	15.34	0.00	4.74	1.10	0.00	33.18	4.22	0.00	0.09	0.00	0.00	6.49	1.61	8.36	2.00	2.10	20.88
100	34.04	40.24	26.45	49.26	0.00	0.00	0.00	29.80	22.76	46.33	34.20	56.77	46.84	25.33	33.55	22.30	0.00	49.23	51.37	26.90	34.00	37.77	31.80	33.69	34.65	31.09
102	0.86	0.19	1.51	0.20	0.00	0.00	0.00	0.06	0.09	0.00	4.34	0.71	0.32	1.87	0.00	0.00	0.00	10.30	0.00	0.00	0.00	0.62	0.18	0.09	1.01	0.10
n	*936*	*462*	*367*	*107*	*0*	*0*	*0*	*66*	*129*	*43*	*148*	*64*	*337*	*26*	*59*	*64*	*0*	*134*	*24*	*14*	*12*	*115*	*436*	*201*	*828*	*108*
<HB1> Thinking about all of the types of linear fluorescent bulbs that were installed through the program, what is the highest height above the area they light? [IN FEET]																										
0	0.23	0.02	0.41	0.00	0.12	1.43	0.00	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.12	0.00	0.00	0.00	0.00	0.41	0.00	0.15	0.45
4	0.40	0.01	0.40	1.66	0.00	0.00	0.00	0.00	0.00	5.09	1.57	0.00	0.01	0.00	0.00	0.00	0.00	9.55	0.00	0.00	0.00	0.00	0.31	0.00	0.55	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.33	0.38	0.09	1.48	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.40	0.75	0.00	0.00	0.50	3.88	0.00	0.03	0.00	0.00	0.36	0.48	0.00	0.19	0.71
7	0.12	0.24	0.06	0.01	0.00	0.00	0.00	0.00	0.09	0.00	0.00	0.00	0.48	0.00	0.00	0.19	0.03	2.23	0.00	0.00	0.00	0.12	0.06	0.15	0.15	0.04
8	4.67	4.74	4.43	5.71	3.06	0.00	4.22	2.64	5.46	9.22	6.30	9.26	6.36	0.55	4.31	3.45	0.66	19.24	8.41	1.22	2.44	3.70	3.87	13.72	5.58	2.30
9	6.04	5.58	6.81	3.54	19.31	15.24	0.31	1.66	4.70	3.77	7.47	8.28	3.88	12.40	2.49	1.16	1.18	7.73	4.79	0.00	0.92	8.02	6.83	7.02	4.50	10.08
10	13.37	14.03	12.78	14.36	5.42	10.07	51.87	14.07	10.29	7.99	13.16	19.42	13.97	9.09	27.13	24.87	7.50	29.83	13.35	9.36	15.34	17.15	12.20	14.39	13.53	12.98
11	1.16	1.92	0.80	0.53	5.92	0.05	0.00	0.45	0.29	0.00	2.48	2.36	1.61	1.14	0.86	0.00	0.00	1.40	3.33	0.58	0.00	0.91	1.37	0.33	1.10	1.31
12	16.64	8.75	21.27	18.38	23.00	5.68	37.03	9.40	29.68	14.14	10.90	12.22	5.33	42.84	2.47	25.82	21.37	7.56	20.56	9.16	0.26	20.05	18.96	9.17	17.21	15.15
13	2.43	3.98	1.82	0.57	3.07	0.06	3.66	0.62	1.75	0.68	3.82	0.00	6.70	2.16	0.00	0.00	0.04	0.46	1.56	0.00	0.00	4.26	2.53	3.26	3.01	0.93
14	3.07	3.85	2.90	1.34	4.09	4.13	0.00	1.42	0.73	0.34	4.72	2.79	5.37	0.81	1.83	5.88	1.67	1.23	0.71	0.00	4.03	4.21	3.40	4.24	3.18	2.78
15	6.81	11.23	4.06	6.72	0.13	2.41	1.87	17.50	3.10	7.42	7.66	16.16	7.47	6.46	31.46	1.37	1.41	3.04	3.61	7.23	0.00	8.29	7.22	4.14	7.22	5.74
16	3.15	2.22	3.91	2.25	3.63	1.32	0.00	0.30	5.42	3.76	3.87	2.97	2.94	5.20	1.11	1.55	1.00	2.54	2.04	2.99	5.27	3.85	3.03	2.71	3.85	1.35
17	0.46	0.16	0.69	0.23	0.00	0.00	0.00	0.00	0.15	0.00	0.53	1.04	0.14	0.00	0.85	3.86	0.00	0.00	0.00	0.87	0.00	0.07	0.57	0.27	0.26	0.97
18	1.80	2.05	1.50	2.61	0.07	0.61	0.00	0.80	1.11	7.10	2.71	1.29	3.40	1.85	1.38	1.35	0.01	1.84	0.00	1.38	4.80	1.32	1.47	6.27	2.08	1.08
19	0.26	0.14	0.38	0.00	0.00	0.78	0.00	0.00	0.60	0.00	0.00	0.00	0.00	0.00	1.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.37	0.70	0.27	0.23
20	10.78	10.79	11.17	8.68	9.92	4.69	0.00	14.39	11.96	7.55	11.34	10.16	9.53	3.57	9.79	17.99	10.98	2.04	1.64	9.47	0.12	12.44	11.39	14.78	12.06	7.44
21	0.14	0.28	0.08	0.00	0.00	0.00	0.00	1.15	0.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	1.39	0.20	0.00
22	0.67	0.86	0.62	0.33	0.00	0.00	0.00	0.10	1.27	1.01	0.25	0.00	1.66	0.00	0.00	0.00	0.00	0.40	1.11	0.26	0.33	1.97	0.39	0.50	0.83	0.25
23	0.36	1.04	0.00	0.00	6.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.31	0.00	0.00	0.57	0.00	0.05	1.16

* Values are shown as percent of respondents weighted by kWh.
* n is the number of respondents.

	ALL	PG&E(%)	SCE(%)	SDG&E(%)	PG&E Custom Program(%)	SCE Custom Program(%)	SDG&E Custom Program(%)	PG&E Deemed Program(%)	SCE Deemed Program(%)	SDG&E Deemed Program(%)	SCE Direct Install Program(%)	SDG&E Direct Install Program(%)	PG&E LGP Program(%)	SCE LGP Program(%)	PG&E L3P Program(%)	SCE L3P Program(%)	SDG&E L3P Program(%)	CFL Basic(%)	CFL Reflector(%)	High Bay(%)	HID(%)	LF Delamp(%)	Linear(%)	Occupancy Sensor(%)	Deemed(%)	All Calculated(%)
24	0.70	1.04	0.39	1.23	0.60	0.00	0.00	1.04	0.39	3.76	0.76	0.00	1.38	0.00	0.03	0.26	0.00	0.00	0.00	2.23	0.52	0.68	0.26	2.30	0.91	0.16
25	4.31	7.54	1.50	8.38	3.56	3.09	0.00	7.39	1.23	3.10	0.70	0.48	9.44	6.70	4.62	0.71	20.25	1.17	0.51	3.49	12.53	1.23	5.44	4.11	2.80	8.23
26	0.71	0.25	0.72	2.14	0.00	4.68	0.00	0.00	0.04	0.00	0.00	0.00	0.43	0.00	0.35	0.00	5.97	0.35	0.00	0.10	2.80	0.06	1.09	0.00	0.13	2.21
28	0.53	1.49	0.00	0.17	0.00	0.00	0.00	0.89	0.00	0.42	0.00	0.17	2.54	0.00	0.00	0.00	0.00	0.00	0.12	2.43	0.00	0.08	0.40	0.00	0.43	0.80
30	6.97	6.03	6.81	10.91	4.28	7.66	0.00	11.30	8.07	5.42	3.96	9.98	5.08	5.77	0.85	7.53	19.28	1.01	0.00	25.24	35.54	0.35	5.34	0.36	7.24	6.27
32	0.01	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.02	0.00
34	0.44	0.00	0.80	0.00	0.00	5.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.65	0.00	0.00	0.00	0.00	0.00	1.58
35	3.64	4.40	3.83	0.12	4.75	7.28	0.00	10.61	6.23	0.36	0.00	0.00	1.84	0.89	1.70	0.00	0.00	0.06	6.82	17.20	2.88	1.68	0.78	8.25	3.69	3.51
40	0.78	0.04	1.24	0.80	0.00	1.09	0.00	0.00	0.43	1.07	3.04	0.00	0.07	0.00	0.00	0.93	1.27	3.09	0.00	0.00	0.00	2.31	0.40	1.31	0.82	0.67
44	1.26	0.00	2.30	0.00	0.00	15.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.25	0.00	0.00	4.56
45	0.42	1.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.74	0.00	0.00	1.51
50	0.12	0.12	0.02	0.64	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.00	0.24	0.00	0.00	0.00	1.78	0.10	0.00	0.31	0.00	0.00	0.14	0.00	0.07	0.24
60	0.03	0.01	0.00	0.27	0.00	0.00	0.00	0.03	0.00	0.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.04	0.00
66	0.99	1.93	0.49	0.51	0.00	0.00	0.00	0.00	0.00	0.00	0.93	0.00	3.63	0.00	1.04	1.99	1.43	0.38	0.00	0.00	3.19	0.00	1.58	0.20	1.06	0.79
70	0.03	0.09	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.19	0.00	0.00	0.00	0.03	0.05	0.00	0.00	1.39	0.00	0.00	0.00	0.05	0.00
75	0.14	0.39	0.00	0.00	0.00	0.00	0.00	1.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.14	0.00	0.00	0.00	0.00	0.19	0.00
98	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.00	0.02
99	6.02	3.24	7.70	6.43	3.05	9.13	1.05	2.63	6.41	17.02	13.67	3.03	2.95	0.58	6.37	0.32	0.25	4.58	31.41	1.39	7.64	6.90	6.00	0.39	6.60	4.53
n	*1863*	*981*	*572*	*310*	*42*	*51*	*12*	*125*	*171*	*104*	*171*	*118*	*713*	*72*	*101*	*107*	*76*	*226*	*72*	*92*	*41*	*260*	*1031*	*141*	*1473*	*390*
<HB2> Just to double check, was any of the linear fluorescent lighting installed through the program at a height of 13 or more feet above the area it is meant to light? This would qualify as HIGH BAY lighting.																										
Yes	8.39	3.76	7.92	22.88	0.14	19.27	62.71	0.04	1.04	26.03	22.18	2.03	4.90	1.87	13.81	2.01	11.84	5.69	32.79	0.28	0.00	3.11	10.58	1.67	7.34	11.10
No	81.14	88.42	79.34	72.09	96.94	78.76	37.29	75.56	80.16	71.20	73.85	96.17	89.83	41.14	85.90	97.99	74.28	93.38	66.68	90.15	100.00	95.24	73.15	97.35	81.77	79.50
Don't Know	10.48	7.82	12.74	5.03	2.92	1.97	0.00	24.39	18.79	2.76	3.97	1.81	5.27	56.99	0.29	0.00	13.88	0.94	0.53	9.58	0.00	1.65	16.26	0.98	10.89	9.39
n	*927*	*482*	*277*	*168*	*16*	*20*	*9*	*45*	*71*	*44*	*88*	*77*	*373*	*40*	*48*	*58*	*38*	*132*	*51*	*21*	*13*	*128*	*522*	*60*	*744*	*183*
<HB3> What is the main kind of linear bulbs located at this height?																										
T8s	46.89	53.17	41.87	47.37	63.71	18.69	59.64	52.22	40.21	64.63	43.63	19.26	49.20	75.35	65.28	77.57	43.99	40.69	53.18	25.07	58.06	65.09	47.68	52.66	48.02	44.17
T5s	24.27	20.37	28.40	19.58	31.06	41.40	0.00	19.65	32.60	11.89	21.01	0.33	19.07	12.64	18.18	12.24	37.95	1.17	22.64	31.40	15.92	9.76	27.26	19.39	20.85	32.57
Other	3.95	7.20	2.15	0.66	0.32	0.00	0.00	14.90	3.59	0.00	1.48	3.69	5.03	0.50	4.26	3.05	0.00	5.11	0.36	9.85	6.58	2.96	2.81	0.00	5.06	1.27
Refused	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Don't Know	19.14	14.83	20.59	27.65	4.66	15.94	39.88	15.31	21.79	21.76	29.17	53.28	17.10	11.51	12.25	5.43	18.06	32.27	8.50	25.36	16.24	22.33	15.23	30.45	21.79	12.69
n	*900*	*470*	*278*	*152*	*25*	*32*	*5*	*75*	*87*	*66*	*80*	*42*	*318*	*31*	*52*	*48*	*39*	*93*	*24*	*71*	*21*	*121*	*490*	*80*	*695*	*205*
<HB1a> Other than linear fluorescents, is any of the lighting installed through the program considered to be High Bay? (If needed, lighting higher than 13 ft)																										
Yes	26.03	26.56	26.61	18.13	53.87	23.45	0.50	25.81	32.06	21.44	15.26	17.79	28.51	40.76	12.85	18.95	13.25	10.09	13.77	35.45	30.49	14.47	22.55	24.37	25.89	27.22
No	68.07	64.19	69.16	78.38	46.13	76.55	97.83	57.29	62.48	75.32	81.01	76.31	69.20	58.56	85.56	80.92	86.70	88.45	69.59	61.43	67.63	80.91	64.87	73.27	67.64	71.71
Don't Know	5.90	9.25	4.24	3.49	0.00	0.00	1.68	16.90	5.47	3.24	3.72	5.90	2.29	0.69	1.59	0.14	0.05	1.46	16.65	3.12	1.88	4.62	12.59	2.36	6.47	1.08
n	*1724*	*935*	*533*	*256*	*13*	*25*	*7*	*191*	*205*	*88*	*176*	*98*	*632*	*43*	*99*	*84*	*63*	*323*	*103*	*267*	*83*	*176*	*517*	*255*	*1464*	*260*
<HB2A> What kind of High Bay Lighting is it?																										
HID (High-intensity discharge) High Pres	6.76	8.03	5.96	7.66	31.53	25.88	0.00	6.98	2.26	9.75	8.07	3.90	7.07	0.00	0.00	33.61	0.39	0.56	13.95	2.25	18.24	29.35	8.90	4.01	5.05	20.41
HID Metal Halide	11.95	14.00	9.40	30.22	5.20	1.87	0.00	6.52	8.27	43.53	0.00	1.61	24.40	8.78	0.00	53.72	0.00	12.87	0.00	6.26	10.39	30.26	20.10	13.72	10.54	23.31
HID Mercury Vapor	2.37	5.06	0.57	5.77	0.00	0.00	0.00	7.61	0.72	8.42	0.26	0.00	3.39	0.00	0.00	0.00	0.00	29.97	0.00	0.71	0.00	5.02	4.73	1.89	2.19	3.81
HID - Don't Know what type	8.28	15.03	4.93	1.39	0.00	0.67	0.00	13.60	6.70	2.03	0.00	0.00	12.85	0.00	75.36	0.00	0.00	1.53	0.00	11.32	6.63	2.85	8.58	2.92	8.83	3.92
CFLs	8.90	17.08	4.51	4.65	0.00	0.00	100.00	4.38	1.46	5.84	22.12	1.39	33.95	0.00	4.94	6.64	1.35	67.44	94.53	1.88	0.77	2.19	21.76	0.80	5.83	33.53
Other	4.67	6.73	3.69	1.95	0.00	17.48	0.00	0.17	1.18	0.00	2.05	7.16	15.02	67.29	2.40	0.46	2.91	1.48	2.33	3.18	1.18	1.05	10.07	5.59	3.94	10.53
Refused	1.54	0.00	2.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	44.68	0.00	0.00	0.00	0.00	0.00	0.00	7.45	0.00	1.73	0.00
Don't Know	24.52	17.97	29.57	7.50	33.26	3.97	0.00	27.76	26.86	7.29	67.50	9.12	7.22	2.34	0.21	5.70	4.03	13.98	3.13	31.36	0.56	34.30	23.44	12.94	26.48	8.81
n	*321*	*181*	*100*	*40*	*5*	*9*	*1*	*46*	*52*	*18*	*19*	*12*	*115*	*8*	*15*	*12*	*9*	*50*	*13*	*67*	*25*	*22*	*94*	*50*	*261*	*60*
<DEL1> We also show that you delamped linear fluorescent fixtures. Is this correct?																										
Yes	78.15	94.89	55.24	81.28	0.00	100.00	100.00	98.71	48.00	41.33	0.00	63.50	84.23	36.99	87.39	99.36	0.00	0.00	87.05	87.08	100.00	100.00	64.88	84.52	71.71	100.00
No	15.20	1.74	30.83	18.72	0.00	0.00	0.00	0.00	52.00	58.67	38.43	36.50	3.45	63.01	7.73	0.00	0.00	31.79	12.95	12.10	0.00	0.00	19.61	15.48	19.68	0.00
Don't Know	6.65	3.37	13.92	0.00	0.00	0.00	0.00	1.29	0.00	0.00	61.57	0.00	12.32	0.00	4.88	0.64	0.00	68.21	0.00	0.82	0.00	0.00	15.50	0.00	8.61	0.00
n	*57*	*29*	*18*	*10*	*0*	*1*	*3*	*7*	*6*	*5*	*2*	*2*	*16*	*2*	*6*	*7*	*0*	*3*	*7*	*8*	*2*	*3*	*26*	*8*	*48*	*9*
<DEL1a> As part of the retrofit you had done during your participation in Program program did you have any delamping done?																										
Yes	30.78	28.64	36.03	14.32	35.68	57.73	35.04	10.30	19.65	3.84	19.87	5.07	32.82	73.85	17.68	59.04	21.92	12.72	35.17	2.08	51.03	44.97	32.56	32.48	20.62	46.72
No	60.17	63.98	52.61	81.87	56.39	39.05	50.24	70.49	50.58	89.39	77.20	90.36	61.87	26.14	82.32	38.49	78.03	85.29	62.64	84.66	48.83	55.03	57.13	59.19	67.31	48.97
Don't Know	9.05	7.38	11.36	3.81	7.94	3.22	14.72	19.21	29.77	6.76	2.93	4.57	5.30	0.00	0.00	2.47	0.05	1.99	2.18	13.27	0.14	0.00	10.32	8.33	12.07	4.31
n	*1292*	*668*	*376*	*248*	*41*	*50*	*11*	*58*	*75*	*61*	*137*	*110*	*524*	*52*	*45*	*62*	*66*	*176*	*56*	*44*	*33*	*30*	*845*	*108*	*921*	*371*

* Values are shown as percent of respondents weighted by kWh.
* n is the number of respondents.

	ALL	PG&E(%)	SCE(%)	SDG&E(%)	PG&E Custom Program(%)	SCE Custom Program(%)	SDG&E Custom Program(%)	PG&E Deemed Program(%)	SCE Deemed Program(%)	SDG&E Deemed Program(%)	SCE Direct Install Program(%)	SDG&E Direct Install Program(%)	PG&E LGP Program(%)	SCE LGP Program(%)	PG&E L3P Program(%)	SCE L3P Program(%)	SDG&E L3P Program(%)	CFL Basic(%)	CFL Reflector(%)	High Bay(%)	HID(%)	LF Delamp(%)	Linear(%)	Occupancy Sensor(%)	Deemed(%)	All Calculated(%)
<DEL2> Have you had Removal only Delamping done within your facility since 2009?																										
Yes	19.31	18.94	19.54	18.98	47.44	41.19	0.00	5.19	11.33	15.73	21.93	26.66	20.62	52.70	19.80	8.12	35.10	33.79	61.60	21.62	19.21	3.32	28.13	15.89	13.34	37.56
No	77.04	78.54	75.95	80.55	48.36	58.81	98.22	92.23	82.12	84.02	74.54	73.34	76.85	40.55	80.06	87.80	64.82	65.41	31.25	65.33	78.32	93.39	70.20	82.26	82.20	61.28
Don't Know	3.65	2.52	4.52	0.47	4.20	0.00	1.78	2.59	6.55	0.25	3.54	0.00	2.52	6.74	0.14	4.08	0.07	0.80	7.15	13.05	2.48	3.30	1.67	1.84	4.46	1.16
n	*874*	*498*	*289*	*87*	*18*	*22*	*5*	*74*	*107*	*49*	*51*	*13*	*346*	*35*	*60*	*74*	*20*	*87*	*23*	*47*	*24*	*271*	*364*	*58*	*724*	*150*
<DEL2a> What percent of the original fixtures within the retrofitted area were removed?																										
0 Percent	1.40	1.04	0.88	9.65	0.00	0.00	0.00	0.00	2.24	19.05	1.24	21.95	1.96	0.00	0.00	0.00	0.00	4.01	0.00	0.00	0.00	12.85	0.52	4.83	2.06	0.69
Between 0 and 15 Percent	42.33	36.21	46.01	35.32	47.11	65.29	0.00	24.72	37.66	21.50	60.77	16.02	38.61	0.65	0.00	12.41	49.75	3.45	100.00	47.63	45.40	3.53	39.41	30.91	39.53	45.37
Between 15 and 30 Percent	13.71	10.33	16.49	1.08	0.00	0.00	0.00	0.39	34.37	0.00	22.26	10.41	17.12	0.02	12.59	31.86	0.00	0.00	0.00	0.00	28.55	1.79	20.52	0.00	19.40	7.54
Between 30 and 45 Percent	4.27	1.89	5.61	2.59	0.00	13.42	0.00	19.68	0.60	6.69	0.00	0.00	0.46	0.00	0.00	24.04	0.00	0.00	0.00	4.14	0.00	6.96	5.32	0.00	3.45	5.15
Between 45 and 60 Percent	4.96	14.58	0.52	0.20	17.53	0.00	0.00	43.01	1.73	0.52	0.39	0.00	9.90	0.00	6.79	0.00	0.00	0.00	0.00	8.43	26.05	3.95	4.75	1.51	5.96	3.87
Between 60 and 80 Percent	1.57	0.70	1.57	6.58	0.00	0.00	0.00	0.00	0.00	16.44	2.49	0.00	0.00	0.26	7.30	13.17	0.45	0.40	0.00	0.00	0.00	3.90	0.57	21.34	3.01	0.00
Between 80 and 100 Percent	6.12	0.25	9.60	0.00	0.00	19.64	0.00	0.00	7.88	0.00	0.00	0.00	0.46	12.96	0.00	5.69	0.00	0.75	0.00	0.00	0.00	20.79	7.43	5.04	2.83	9.69
100 Percent	13.38	28.30	5.38	19.21	23.70	1.65	0.00	12.20	7.59	35.79	8.06	51.62	25.21	0.00	73.33	12.83	0.00	61.98	0.00	39.80	0.00	25.27	5.36	36.36	19.73	6.49
Don't Know	12.26	6.71	13.94	25.37	11.66	0.00	0.00	0.00	7.94	0.00	4.79	0.00	6.28	86.11	0.00	0.00	49.80	29.42	0.00	0.00	0.00	20.96	16.12	0.00	4.02	21.20
n	*128*	*75*	*36*	*17*	*7*	*5*	*0*	*7*	*9*	*8*	*8*	*4*	*53*	*5*	*8*	*9*	*5*	*16*	*2*	*10*	*5*	*24*	*60*	*11*	*94*	*34*
<DEL3> Have you had Remove and Replace Delamping done within your facility since 2009?																										
Yes	35.71	38.08	34.42	36.37	40.48	37.94	64.95	35.75	41.51	31.13	35.54	45.33	37.42	3.29	46.37	19.95	23.71	24.91	65.63	43.35	80.83	30.55	34.65	28.60	35.82	35.40
No	59.13	59.60	59.06	57.01	50.96	62.06	0.00	62.86	51.86	68.61	52.63	54.42	60.76	90.61	53.47	76.49	76.19	74.98	28.15	45.19	16.69	62.19	63.45	63.73	58.36	61.46
Don't Know	5.16	2.32	6.52	6.62	8.56	0.00	35.05	1.40	6.64	0.25	11.83	0.25	1.83	6.10	0.16	3.56	0.10	0.11	6.22	11.46	2.48	7.26	1.90	7.67	5.83	3.15
n	*873*	*498*	*288*	*87*	*18*	*22*	*5*	*74*	*106*	*49*	*51*	*13*	*346*	*35*	*60*	*74*	*20*	*87*	*23*	*47*	*24*	*271*	*364*	*57*	*723*	*150*
<DEL3a> What type of fixtures were removed?																										
AL\High Performance T8,	2.25	3.19	1.91	0.00	25.99	12.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.34	0.00	0.00	9.17
T8 fluorescent fixtures (1in. diameter bulbs),	7.31	6.42	8.17	3.49	38.82	46.88	0.00	0.00	0.78	1.72	2.24	30.36	3.34	4.12	0.49	0.00	0.00	0.00	3.51	0.00	0.00	0.70	16.49	0.00	1.79	24.31
T10 fluorescent fixtures,	0.13	0.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.44	0.00	1.47	0.00	0.00	4.61	0.00	0.53	0.00	0.00	0.00	0.00	0.17	0.00
T12 Fixtures (1.5in. diameter bulbs),	37.00	32.28	39.53	39.04	6.24	25.85	4.56	41.13	35.54	82.02	38.97	51.96	35.35	72.95	25.04	84.94	0.00	31.30	1.79	17.52	73.74	51.80	32.92	38.10	39.54	29.19
HID (High Intensity Discharge) Fixtures@-Compact,	3.30	4.45	0.03	31.39	0.00	0.00	95.44	2.57	0.00	0.00	0.00	0.00	7.09	0.00	2.90	0.39	0.00	0.08	0.00	2.57	7.85	1.33	4.90	2.15	1.50	8.88
Compact Fluorescent@, Hardwire,	0.85	2.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.02	0.00	1.12	0.00
Incandescent,	1.13	0.11	1.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.03	0.00	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13	2.59	0.00	1.49	0.00
Halogen,	0.06	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00	0.00	0.08	0.00
Magnetic Ballast,	0.10	0.28	0.00	0.00	0.00	0.00	0.00	0.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.23	0.00	0.13	0.00
Other	6.79	6.35	7.67	0.02	0.00	0.35	0.00	0.36	12.76	0.06	4.79	0.00	11.83	0.00	5.19	0.78	0.00	11.27	0.34	26.86	15.12	4.19	1.97	3.28	8.58	1.27
Fat/Thick Tubes,	12.39	12.54	11.88	16.97	0.00	3.12	0.00	11.64	19.21	0.00	5.97	0.00	7.43	0.00	50.53	4.11	94.54	0.00	0.00	7.94	0.00	25.08	9.39	5.71	13.87	7.83
Skinny/Thin Tubes,	1.50	2.19	1.24	0.00	0.00	0.00	0.00	7.41	0.00	0.00	4.80	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.66	1.77	0.00	1.99	0.00
T5 Fixtures (5/8in. diameter)\,	4.80	0.13	7.94	0.00	0.00	0.00	0.00	0.00	0.11	0.00	30.45	0.00	0.22	0.00	0.26	0.00	0.00	0.00	93.86	0.00	0.00	0.24	0.02	0.00	6.36	0.00
Other	15.14	17.31	14.78	5.64	26.07	11.34	0.00	11.23	23.81	9.18	2.79	17.68	21.08	10.35	7.04	5.73	1.92	12.97	0.00	28.81	2.29	9.67	16.37	30.28	14.78	16.27
Don't Know	7.26	11.75	5.03	3.44	2.87	0.00	0.00	24.70	7.79	7.02	2.95	0.00	7.38	12.57	7.08	4.06	3.54	39.78	0.50	15.78	1.01	4.00	6.00	20.49	8.61	3.09
n	*316*	*203*	*86*	*27*	*9*	*11*	*3*	*28*	*32*	*13*	*14*	*4*	*141*	*10*	*25*	*19*	*7*	*34*	*6*	*22*	*12*	*87*	*136*	*19*	*252*	*64*
<DEL3b> What type of fixtures were installed?																										
AL\High Performance T8,	6.27	4.73	4.83	31.39	25.99	18.88	95.44	0.96	0.05	0.00	0.00	0.00	2.63	0.00	0.00	21.39	0.00	3.79	0.00	0.71	0.00	0.70	13.02	10.61	1.20	21.93
T8 fluorescent fixtures (1in. diameter bulbs),	54.26	48.49	57.14	59.04	56.01	77.66	4.56	56.36	49.93	89.60	53.04	51.96	46.32	79.40	29.43	72.48	94.54	33.15	5.30	14.92	76.78	70.81	59.97	49.32	52.05	61.08
T12 Fixtures (1.5in. diameter bulbs),	3.61	0.00	6.03	0.00	0.00	0.00	0.00	0.00	12.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	26.50	0.00	0.00	0.00	0.00	4.78	0.00
HID (High Intensity Discharge) Fixtures@-Compact,	0.43	1.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.59	0.00	0.00	0.00	0.00	0.08	0.00	0.00	4.99	0.00	0.38	0.00	0.00	1.75
Electronic Ballast,	1.12	3.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.65	0.00	1.48	0.00
Other	2.55	4.59	1.35	2.80	0.00	0.35	0.00	0.36	0.09	0.00	4.79	30.36	8.16	0.00	5.19	0.12	0.00	5.87	0.34	0.00	0.00	4.75	2.51	1.32	2.98	1.21
Skinny/Thin Tubes,	2.26	1.74	2.77	0.00	0.00	3.12	0.00	2.07	0.00	0.00	8.76	0.00	2.28	5.76	0.46	0.00	0.00	0.00	0.00	0.36	1.61	4.85	1.78	0.00	2.58	1.29
T5 Fixtures (5/8in. diameter)\,	4.14	3.90	4.67	0.00	0.00	0.00	0.00	4.32	9.41	0.00	0.00	0.00	3.64	4.49	8.24	0.00	0.00	0.00	0.00	11.39	0.00	6.81	1.57	0.00	5.49	0.00
Spotlight	0.03	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.11
Other	9.99	16.50	6.93	2.61	15.12	0.00	0.00	16.72	13.52	0.00	0.00	17.68	11.36	0.00	39.53	2.83	5.46	16.32	0.00	18.02	9.50	6.06	10.47	16.30	11.19	6.32
Don't Know	15.34	15.57	16.24	4.15	2.87	0.00	0.00	19.21	14.79	10.40	33.41	0.00	16.29	0.00	17.16	3.17	0.00	40.79	94.36	28.11	7.13	6.02	7.59	22.45	18.26	6.32
n	*315*	*202*	*86*	*27*	*9*	*11*	*3*	*28*	*32*	*13*	*14*	*4*	*140*	*10*	*25*	*19*	*7*	*34*	*6*	*22*	*12*	*87*	*135*	*19*	*252*	*63*
<DEL3c> How many lamps per fixture were present prior to the delamping retrofit?																										
1	2.13	4.77	0.81	0.00	0.00	0.00	0.00	3.97	0.11	0.00	2.79	0.00	6.90	0.00	2.90	0.39	0.00	1.63	0.00	2.22	2.87	2.74	1.54	5.35	2.82	0.00
2	25.19	22.78	27.66	13.43	19.55	4.70	1.73	17.12	40.08	17.63	19.33	61.39	28.67	28.63	15.51	22.53	0.88	38.30	1.67	32.12	0.10	47.92	11.86	38.69	29.35	12.34
3	7.21	6.65	8.12	0.95	9.40	48.93	2.83	9.73	0.00	0.06	0.00	0.00	3.12	12.20	10.87	6.26	0.00	2.61	0.00	7.04	2.70	2.26	12.92	0.00	2.95	20.36
4	49.65	51.81	48.02	53.90	61.66	33.56	95.44	51.82	53.28	9.94	39.68	8.25	46.46	48.67	63.88	67.83	99.03	5.42	3.97	52.22	87.56	42.80	57.45	29.29	47.52	56.22
5	6.06	0.00	10.10	0.00	0.00	0.00	0.00	0.00	2.94	0.00	33.41	0.00	0.00	0.00	0.00	0.00	0.00	37.21	93.86	6.39	0.00	0.00	0.00	0.00	8.02	0.00

* Values are shown as percent of respondents weighted by kWh.
* n is the number of respondents.

	ALL	PG&E(%)	SCE(%)	SDG&E(%)	PG&E Custom Program(%)	SCE Custom Program(%)	SDG&E Custom Program(%)	PG&E Deemed Program(%)	SCE Deemed Program(%)	SDG&E Deemed Program(%)	SCE Direct Install Program(%)	SDG&E Direct Install Program(%)	PG&E LGP Program(%)	SCE LGP Program(%)	PG&E L3P Program(%)	SCE L3P Program(%)	SDG&E L3P Program(%)	CFL Basic(%)	CFL Reflector(%)	High Bay(%)	HID(%)	LF Delamp(%)	Linear(%)	Occupancy Sensor(%)	Deemed(%)	All Calculated(%)
6	0.11	0.31	0.00	0.00	0.00	0.00	0.00	0.19	0.00	0.00	0.00	0.00	0.19	0.14	1.47	0.00	0.00	7.12	0.00	0.00	0.01	0.00	0.05	0.00	0.14	0.00
8	1.53	2.28	1.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.80	0.00	4.48	0.00	1.20	0.00	0.00	0.15	0.00	0.00	4.99	1.10	2.26	0.00	1.46	1.75
Don't Know	8.13	11.41	4.05	31.71	9.39	12.81	0.00	17.18	3.58	72.37	0.00	30.36	10.18	10.35	4.17	2.99	0.09	7.56	0.50	0.00	1.79	3.18	13.93	26.68	7.74	9.33
n	*316*	*203*	*86*	*27*	*9*	*11*	*3*	*28*	*32*	*13*	*14*	*4*	*141*	*10*	*25*	*19*	*7*	*34*	*6*	*22*	*12*	*87*	*136*	*19*	*252*	*64*
<DEL3d> How many lamps per fixture are present Now, after the delamping retrofit?																										
1	10.28	9.82	10.79	7.71	0.00	0.00	0.00	1.88	21.85	0.00	0.00	82.32	17.62	0.00	7.50	0.00	0.62	29.41	0.00	1.25	0.10	24.51	6.60	0.47	12.94	2.09
2	45.60	51.83	40.39	63.09	71.06	72.71	100.00	62.42	32.81	28.50	28.87	17.68	44.90	71.18	33.30	58.64	95.75	15.05	5.64	20.89	78.01	45.61	56.49	32.42	38.52	67.44
3	7.51	4.79	9.77	0.00	19.55	12.69	0.00	2.20	11.08	0.00	0.00	0.00	0.45	5.76	13.80	26.05	0.00	8.83	0.00	24.89	0.00	1.92	5.41	27.59	5.76	12.91
4	24.92	17.68	31.18	2.40	0.00	1.79	0.00	13.78	25.29	4.38	71.13	0.00	18.54	0.50	43.43	0.00	3.63	37.62	93.86	48.15	16.73	16.30	17.08	10.88	31.60	4.33
5	0.71	0.05	1.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.00	12.97	0.00	1.29	0.00	0.00	0.00	0.00	1.66	0.00	0.02	2.84
6	2.27	2.41	2.41	0.00	0.00	0.00	0.00	0.00	4.87	0.00	0.00	0.00	5.03	0.00	0.00	0.00	0.00	2.51	0.00	0.00	0.00	7.89	0.01	0.00	3.00	0.02
7	0.01	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00	0.00	0.00	0.01	0.00
8	0.78	2.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.40	0.00	1.47	0.00	0.00	4.75	0.00	0.00	4.99	1.06	0.38	0.00	0.47	1.75
Don't Know	7.90	11.11	4.30	26.80	9.39	12.81	0.00	19.71	4.10	67.12	0.00	0.00	8.90	22.56	0.49	2.34	0.00	0.54	0.50	4.83	0.00	2.72	12.37	28.64	7.67	8.62
n	*316*	*203*	*86*	*27*	*9*	*11*	*3*	*28*	*32*	*13*	*14*	*4*	*141*	*10*	*25*	*19*	*7*	*34*	*6*	*22*	*12*	*87*	*136*	*19*	*252*	*64*
<DEL3E> Approximately how old were the lfixtures that were removed and replaced as a result of this Remove and Replace delamping? Would you say…																										
Less than 5 years old	5.68	9.35	1.08	32.45	25.99	0.00	95.44	10.62	0.43	2.66	2.24	0.00	6.50	0.00	0.00	3.17	0.00	5.61	0.00	5.18	0.83	1.20	10.73	0.00	3.75	11.62
Between 6 and 10 years old	14.67	9.90	16.98	19.28	0.00	56.66	4.56	1.47	7.11	1.72	13.28	0.00	10.10	40.06	41.57	13.07	95.24	46.66	0.00	15.08	0.27	12.65	19.86	1.96	10.39	27.87
Between 10 and 15 years old	17.97	12.94	22.24	3.12	17.06	24.84	0.00	20.66	28.41	5.90	8.70	8.25	9.57	18.73	3.12	23.09	0.00	6.20	0.34	8.59	4.48	33.11	12.21	44.98	19.07	14.58
More than 15 years old	56.93	66.32	52.62	45.14	56.95	6.03	0.00	67.10	53.59	89.71	75.78	91.75	71.13	41.20	54.03	60.67	4.76	39.53	99.66	48.45	94.42	52.45	53.72	53.06	62.05	41.15
Don't Know	4.75	1.48	7.07	0.00	0.00	12.47	0.00	0.15	10.45	0.00	0.00	0.00	2.70	0.00	1.28	0.00	0.00	2.00	0.00	22.70	0.00	0.59	3.49	0.00	4.74	4.78
n	*316*	*203*	*86*	*27*	*9*	*11*	*3*	*28*	*32*	*13*	*14*	*4*	*141*	*10*	*25*	*19*	*7*	*34*	*6*	*22*	*12*	*87*	*136*	*19*	*252*	*64*
<DEL3F> How would you describe the condition of the fixtures that were removed and replaced as a result of the Remove and Replace delamping? Would you say they were in…																										
Poor condition	18.24	16.19	20.82	3.10	41.54	6.39	0.00	13.44	21.84	6.09	20.21	0.00	14.23	28.77	3.76	41.29	3.70	15.06	1.67	14.70	9.60	19.09	21.60	22.03	19.49	14.37
Fair condition or	56.13	45.97	60.10	76.48	58.46	90.39	97.17	56.25	49.56	92.11	69.30	82.32	37.59	27.68	41.86	41.35	0.82	75.64	98.33	41.28	9.68	71.10	49.25	74.84	53.97	62.81
Good condition	25.29	37.84	18.53	20.25	0.00	3.22	2.83	30.31	28.60	1.80	10.50	17.68	48.18	43.55	54.37	11.22	94.54	8.52	0.00	44.03	80.72	9.81	28.37	3.13	26.09	22.83
Don't Know	0.34	0.00	0.55	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.15	0.95	0.77	0.00	0.00	0.00	0.00	0.78	0.00	0.45	0.00
n	*316*	*203*	*86*	*27*	*9*	*11*	*3*	*28*	*32*	*13*	*14*	*4*	*141*	*10*	*25*	*19*	*7*	*34*	*6*	*22*	*12*	*87*	*136*	*19*	*252*	*64*
<DEL3G> Approximately what percentage of the fixtures that were removed and replaced were broken or Not working prior to the Remove and Replace delamping?																										
0 Percent	43.64	55.89	39.42	13.11	56.37	64.97	1.73	30.47	23.14	17.05	45.09	60.22	66.41	5.89	75.34	70.72	0.95	79.54	0.11	22.49	17.74	46.17	56.45	41.83	38.19	60.44
Between 0 and 15 Percent	42.96	37.83	42.74	77.21	40.76	20.58	98.27	67.57	50.33	69.50	46.01	0.00	23.23	51.55	21.17	28.89	95.51	18.86	99.89	66.82	79.81	39.06	27.61	37.43	46.55	31.90
Between 15 and 30 Percent	6.20	3.08	8.35	2.32	0.00	14.46	0.00	1.77	9.63	4.21	4.79	0.00	4.99	32.21	1.66	0.00	3.54	0.58	0.00	0.00	2.46	11.14	6.85	0.47	6.07	6.60
Between 30 and 45 Percent	2.50	0.73	3.32	4.56	0.00	0.00	0.00	0.00	4.51	9.24	4.10	9.42	1.53	0.00	0.00	0.39	0.00	1.02	0.00	9.79	0.00	2.97	0.73	0.00	3.16	0.45
Between 45 and 60 Percent	0.20	0.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.90	0.00	1.34	0.00	0.00	0.00	0.00	0.00	0.00	0.64	0.05	0.00	0.27	0.00
Between 60 and 80 Percent	2.79	0.00	4.66	0.00	0.00	0.00	0.00	0.00	9.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.64	0.00	3.70	0.00
100 Percent	0.91	0.12	1.46	0.00	0.00	0.00	0.00	0.00	2.95	0.00	0.00	0.00	0.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.09	20.27	1.21	0.00
Don't Know	0.79	1.76	0.05	2.80	2.87	0.00	0.00	0.19	0.00	0.00	0.00	30.36	2.71	10.35	0.49	0.00	0.00	0.00	0.00	0.89	0.00	0.00	1.59	0.00	0.85	0.61
n	*316*	*203*	*86*	*27*	*9*	*11*	*3*	*28*	*32*	*13*	*14*	*4*	*141*	*10*	*25*	*19*	*7*	*34*	*6*	*22*	*12*	*87*	*136*	*19*	*252*	*64*
<DEL4> Have you had a delamping retrofit to reduce the number of lamps per fixture within your facility since 2009?																										
Yes	47.61	53.44	44.67	45.81	48.29	34.87	61.99	51.44	43.36	43.69	33.21	38.91	57.74	43.44	43.64	75.78	40.44	19.55	11.19	47.08	20.54	50.61	51.59	37.70	46.44	51.12
No	48.69	43.38	51.74	46.10	51.39	65.13	36.22	41.99	55.30	55.56	57.53	61.09	39.97	53.41	56.01	20.82	32.64	80.36	82.62	50.12	79.46	43.69	45.63	60.21	49.36	46.67
Refused	0.01	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.01	0.00
Don't Know	3.70	3.16	3.59	8.09	0.32	0.00	1.78	6.56	1.34	0.75	9.26	0.00	2.23	3.15	0.35	3.40	26.92	0.09	6.18	2.80	0.00	5.70	2.78	1.93	4.19	2.21
n	*872*	*498*	*287*	*87*	*18*	*22*	*5*	*74*	*105*	*49*	*51*	*13*	*346*	*35*	*60*	*74*	*20*	*87*	*23*	*46*	*24*	*271*	*364*	*57*	*722*	*150*
<DEL4a> How many lamps per fixture were present prior to the delamping retrofit?																										
1 to 10	89.81	89.22	90.58	85.44	97.59	97.11	100.00	94.99	97.65	98.36	84.68	49.08	86.77	99.99	72.26	80.27	56.29	58.92	77.74	97.85	97.01	88.24	89.08	97.62	90.02	89.24
51 to 100	10.19	10.78	9.42	14.56	2.41	2.89	0.00	5.01	2.35	1.64	15.32	50.92	13.23	0.01	27.75	19.73	43.71	41.08	22.26	2.15	2.99	11.76	10.93	2.38	9.99	10.76
n	*414*	*242*	*136*	*36*	*9*	*12*	*1*	*35*	*50*	*18*	*17*	*7*	*173*	*19*	*25*	*38*	*10*	*42*	*12*	*21*	*11*	*117*	*190*	*21*	*332*	*82*
<DEL4b> How many lamps per fixture are present now, after the delamping retrofit?																										
1	91.05	90.90	90.69	96.07	97.59	97.11	100.00	94.27	97.59	98.36	85.26	49.08	87.33	99.99	93.53	80.35	100.00	59.75	87.56	97.85	99.97	90.13	90.07	97.62	90.95	91.33
3	8.95	9.10	9.31	3.93	2.41	2.89	0.00	5.73	2.41	1.64	14.74	50.92	12.67	0.01	6.47	19.65	0.00	40.25	12.44	2.15	0.03	9.87	9.93	2.38	9.05	8.67
n	*414*	*242*	*136*	*36*	*9*	*12*	*1*	*35*	*50*	*18*	*17*	*7*	*173*	*19*	*25*	*38*	*10*	*42*	*12*	*21*	*11*	*117*	*190*	*21*	*332*	*82*
<DEL5> Is the amount of lighting better, worse, or the same than before your delamping job?																										
Better	74.84	79.27	74.94	47.54	66.22	79.27	35.05	89.18	86.05	72.49	63.14	40.32	73.24	61.96	94.84	66.13	15.58	61.59	90.85	94.97	86.69	68.36	72.71	85.76	75.61	72.54
Worse	3.81	3.54	3.68	6.94	1.42	0.81	1.12	2.32	1.87	1.18	9.30	0.00	5.35	4.95	0.64	1.32	22.44	25.59	7.27	1.39	2.74	5.80	2.28	0.00	4.11	2.94

* Values are shown as percent of respondents weighted by kWh.
* n is the number of respondents.

	ALL	PG&E(%)	SCE(%)	SDG&E(%)	PG&E Custom Program(%)	SCE Custom Program(%)	SDG&E Custom Program(%)	PG&E Deemed Program(%)	SCE Deemed Program(%)	SDG&E Deemed Program(%)	SCE Direct Install Program(%)	SDG&E Direct Install Program(%)	PG&E LGP Program(%)	SCE LGP Program(%)	PG&E L3P Program(%)	SCE L3P Program(%)	SDG&E L3P Program(%)	CFL Basic(%)	CFL Reflector(%)	High Bay(%)	HID(%)	LF Delamp(%)	Linear(%)	Occupancy Sensor(%)	Deemed(%)	All Calculated(%)
Same	21.10	17.00	21.19	44.44	32.04	19.92	63.83	8.18	11.88	26.33	27.55	45.00	21.30	33.09	4.51	31.89	61.98	5.75	1.88	3.63	10.57	25.84	24.76	14.24	20.00	24.42
Refused	0.06	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00	3.58	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.00
Don't Know	0.18	0.19	0.09	1.09	0.32	0.00	0.00	0.33	0.21	0.00	0.01	14.68	0.12	0.00	0.00	0.00	0.00	3.49	0.00	0.00	0.00	0.01	0.25	0.00	0.20	0.11
n	*872*	*498*	*287*	*87*	*18*	*22*	*5*	*74*	*105*	*49*	*51*	*13*	*346*	*35*	*60*	*74*	*20*	*87*	*23*	*46*	*24*	*271*	*364*	*57*	*722*	*150*
<DEL11> Did you install additional lighting equipment to increase the amount of lighting in the delamped area(s)?																										
Yes	7.35	8.63	8.06	0.00	81.65	100.00	0.00	0.00	0.00	0.00	0.00	0.00	5.92	44.40	0.00	29.80	0.00	0.00	0.00	0.00	0.00	6.22	15.90	0.00	5.26	16.39
No	92.65	91.37	91.94	100.00	18.35	0.00	100.00	100.00	100.00	100.00	100.00	100.00	94.08	55.60	100.00	70.20	100.00	100.00	100.00	100.00	100.00	93.78	84.10	0.00	94.74	83.61
n	*70*	*44*	*21*	*5*	*2*	*1*	*1*	*6*	*6*	*1*	*5*	*1*	*34*	*4*	*2*	*5*	*2*	*11*	*3*	*1*	*2*	*25*	*28*	*0*	*56*	*14*
<L_MSP1> Since January 2010, have you purchased and installed any lighting on your own without any assistance from any UTILITY or Program either at this facility or at other locations?																										
Yes-only at this facility	19.57	21.32	18.63	18.55	5.11	22.43	32.01	28.98	17.43	8.72	23.05	29.26	19.21	7.62	18.08	18.93	25.76	21.12	18.40	16.92	15.73	15.68	21.19	26.10	20.11	17.38
Yes-only at other locations	7.74	10.11	5.27	13.16	25.39	3.53	0.00	7.23	5.39	4.17	2.88	7.53	3.88	12.34	21.03	7.63	31.34	1.44	0.00	3.37	21.79	10.15	11.65	2.67	4.99	18.87
Yes-both at this facility and other locations	3.25	6.11	1.64	1.95	3.78	6.79	0.00	1.49	0.97	1.03	0.54	2.93	12.70	2.99	6.33	3.69	3.25	7.81	6.59	1.05	1.78	0.25	6.29	1.89	2.57	6.01
No	65.37	56.42	71.84	61.16	39.38	67.24	66.35	57.08	75.89	75.42	73.53	60.27	62.89	24.35	54.57	60.75	39.60	69.41	71.72	77.78	60.70	73.15	53.38	61.68	69.74	47.64
Don't Know	4.07	6.05	2.62	5.18	26.34	0.00	1.63	5.23	0.32	10.67	0.00	0.00	1.31	52.69	0.00	9.00	0.05	0.22	3.28	0.88	0.00	0.78	7.50	7.65	2.59	10.09
n	*1480*	*786*	*461*	*233*	*33*	*28*	*7*	*171*	*200*	*80*	*102*	*64*	*495*	*43*	*87*	*88*	*82*	*212*	*66*	*195*	*56*	*172*	*613*	*166*	*1213*	*267*
<LSP2> What type of fixtures, ballasts or light controls were installed as part of this lighting retrofit that was done without any assistance from your Utility?																										
High Performance T8	6.59	5.86	4.84	17.25	0.00	0.00	0.00	3.30	1.04	32.10	5.81	5.75	13.64	3.81	1.08	23.57	17.25	16.69	0.00	5.32	0.11	8.23	8.79	1.46	5.15	10.44
T8 fluorescent fixtures (1in. diameter b	30.53	33.40	32.19	11.52	2.99	24.44	0.00	35.16	43.54	8.89	8.04	4.95	50.34	10.68	16.13	23.58	15.47	7.82	22.23	21.25	50.53	27.66	31.45	41.41	34.71	19.38
T10 fluorescent fixtures	0.28	0.08	0.00	2.28	0.00	0.00	0.00	0.00	0.00	11.61	0.00	0.00	0.00	0.00	0.58	0.00	0.00	1.23	0.00	0.00	0.00	0.00	0.00	1.78	0.38	0.00
T12 Fixtures (1.5in. diameter bulbs)	1.89	0.58	3.43	0.52	0.00	0.00	0.00	0.00	4.11	0.00	2.15	0.00	1.53	0.00	0.64	5.03	0.90	0.76	0.00	4.85	1.79	2.54	1.18	0.00	2.40	0.53
HID (High Intensity Discharge) Fixtures-	3.35	0.12	6.62	2.33	0.00	18.81	0.00	0.01	1.87	5.16	16.83	7.95	0.21	31.54	0.35	1.33	0.00	0.00	0.00	1.42	13.98	14.68	1.11	0.23	3.10	4.02
Compact Fluorescent, Screw-in Modular	5.20	8.07	1.12	11.22	0.00	0.00	51.12	3.54	1.52	7.79	0.00	20.21	14.62	0.00	13.58	1.83	5.75	37.17	1.28	0.79	2.79	6.10	5.69	3.89	4.35	7.49
Compact Fluorescent, Hardwire	0.66	0.00	0.00	6.23	0.00	0.00	3.21	0.00	0.00	0.00	0.00	18.96	0.01	0.00	0.00	0.00	5.01	0.18	0.00	0.00	0.00	2.75	0.73	0.00	0.46	1.18
Incandescent	0.98	2.08	0.16	0.05	10.21	0.80	0.00	1.54	0.00	0.00	0.53	0.25	0.68	0.00	0.00	0.00	0.02	2.92	9.53	0.00	1.54	0.00	0.13	3.89	0.57	2.08
Exit Signs, Compact Fluorescent	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Exit Signs, LED	4.03	0.70	8.04	0.22	0.07	0.00	0.00	0.00	11.78	0.00	6.63	0.00	2.19	0.00	0.00	0.16	0.39	0.00	0.00	0.26	1.82	0.00	8.52	0.89	5.34	0.54
Halogen	3.94	0.29	8.20	0.31	0.00	31.42	0.00	0.02	6.64	0.00	3.92	0.00	0.11	2.99	1.76	6.60	0.54	0.33	0.14	0.15	0.00	1.86	7.41	3.00	2.99	6.46
Install Reflectors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electronic Ballast	6.77	9.82	4.37	4.74	53.35	0.00	0.00	1.26	7.06	5.16	1.48	10.60	9.25	0.00	0.00	0.00	3.41	4.01	0.00	3.54	2.51	6.38	10.19	4.14	4.06	13.99
Magnetic Ballast	0.27	0.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	4.30	0.00	0.00	0.14	0.00	0.00	0.00	0.00	0.61	0.00	0.00	1.00
Lighting Controls, Time Clock	0.48	0.00	1.03	0.00	0.00	0.00	0.00	0.00	0.05	0.00	4.64	0.00	0.01	0.00	0.00	1.39	0.00	0.00	0.00	0.07	0.00	0.72	0.86	0.00	0.66	0.00
Lighting Controls, Occupancy Sensor	5.15	6.78	4.57	0.95	12.05	0.00	3.21	11.57	3.22	3.49	0.00	0.00	1.53	7.77	0.00	19.02	0.13	0.04	0.00	1.47	0.00	23.63	4.38	0.59	4.95	5.67
Lighting Controls, Bypass/Delay Timers	0.23	0.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.52	0.00	0.32	0.00
Lighting Controls, Photocell	0.09	0.14	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.45	0.45	0.00	0.00	0.00	0.15	0.00	0.23	0.00	0.25	0.12	0.00
Other Lighting	4.35	8.68	0.66	2.70	12.05	0.00	45.67	13.67	0.22	0.00	1.71	0.00	4.72	0.00	0.05	1.74	0.00	0.69	0.00	13.39	1.81	1.37	2.16	3.84	4.33	4.42
Fat/Thick Tubes	1.12	2.28	0.24	0.19	0.00	0.00	0.00	0.00	0.00	0.93	1.35	0.00	1.04	0.00	13.52	0.00	0.01	0.27	0.00	4.35	0.00	0.00	0.60	0.00	1.41	0.33
Skinny/Thin Tubes	3.03	0.61	5.99	0.00	0.00	0.00	0.00	0.38	10.29	0.00	0.00	0.00	1.43	0.00	0.00	0.10	0.00	3.52	0.00	0.36	0.00	0.00	0.82	18.37	4.15	0.02
T5 Fixtures (5/8in. diameter)	10.19	15.28	3.49	18.50	54.45	6.04	0.00	19.83	3.06	0.00	6.54	34.68	1.04	0.00	0.88	0.25	22.04	0.04	0.00	20.14	1.14	0.00	12.61	4.88	7.83	16.47
Generic LED (Screw Based)	24.85	20.27	26.52	36.39	21.07	36.01	0.00	15.08	34.30	32.33	2.04	0.75	13.13	16.50	50.50	20.64	51.63	17.12	1.57	15.29	22.85	9.10	29.44	44.17	20.62	36.15
Other -Record	9.50	8.38	10.54	9.50	0.82	8.37	0.00	11.48	5.19	20.21	22.21	23.24	10.89	27.09	0.06	16.87	2.92	8.50	65.75	7.30	5.03	9.36	9.44	5.17	11.25	4.83
Refused	0.01	0.00	0.00	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.28	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00
Don't Know	4.53	2.75	7.11	0.57	8.63	0.25	0.00	0.83	6.07	2.91	18.46	0.00	2.99	12.51	2.94	0.00	0.00	3.09	0.00	5.37	4.01	13.65	3.25	0.68	4.91	3.52
Screw-in LEDSs Reflector Lamps	100.00	100.00	100.00	100.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	100.00	0.00	0.00	100.00	0.00	0.00	100.00	0.00	100.00	100.00
n	*440*	*226*	*134*	*80*	*14*	*12*	*3*	*51*	*53*	*17*	*27*	*22*	*132*	*14*	*29*	*28*	*38*	*65*	*15*	*58*	*25*	*38*	*186*	*53*	*333*	*107*
<LI17> Were the HID lamps you installed High Pressure Sodium, Metal Halide, Mercury Vapor or Incandescent?																										
High Pressure Sodium	15.40	0.00	15.42	0.00	0.00	0.00	0.00	0.00	1.03	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	3.56	0.00	0.00	100.00	0.00	0.26	100.00
Metal Halide	16.31	100.00	16.25	0.00	0.00	0.00	0.00	100.00	36.51	0.00	13.94	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	100.00	10.79	0.00	100.00	19.23	0.00
Mercury Vapor	13.83	0.00	13.84	0.00	0.00	0.00	0.00	0.00	63.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	18.01	0.00	0.00	16.30	0.00
Incadescent	3.50	0.00	3.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	4.56	0.00	0.00	4.13	0.00
Refused	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Don't Know	51.18	0.00	51.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	86.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	66.64	0.00	0.00	60.34	0.00
n	*9*	*1*	*8*	*0*	*0*	*0*	*0*	*1*	*4*	*0*	*2*	*0*	*0*	*1*	*0*	*1*	*0*	*0*	*0*	*2*	*1*	*4*	*1*	*1*	*8*	*1*
<MSP2A_1> How many High Performance T8 Fluorescent Fixtures did you purchase for this facility?																										
1	1.48	0.00	4.05	0.00	0.00	0.00	0.00	0.00	31.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.31	0.00	2.84	0.00
2	1.80	5.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	90.53	3.44	0.00
4	1.80	0.00	0.00	5.87	0.00	0.00	0.00	0.00	0.00	16.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.22	0.00	0.00	0.00	0.00	3.44	0.00
5	7.94	0.00	21.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	96.50	0.00	0.00	0.00	0.00	0.00	0.00	15.19	0.00
6	13.40	12.28	0.00	30.64	0.00	0.00	0.00	95.42	0.00	83.92	0.00	0.00	0.36	0.00	0.00	0.00	0.00	0.00	0.00	44.10	100.00	0.00	14.62	0.00	25.65	0.00

* Values are shown as percent of respondents weighted by kWh.
* n is the number of respondents.

	ALL	PG&E(%)	SCE(%)	SDG&E(%)	PG&E Custom Program(%)	SCE Custom Program(%)	SDG&E Custom Program(%)	PG&E Deemed Program(%)	SCE Deemed Program(%)	SDG&E Deemed Program(%)	SCE Direct Install Program(%)	SDG&E Direct Install Program(%)	PG&E LGP Program(%)	SCE LGP Program(%)	PG&E L3P Program(%)	SCE L3P Program(%)	SDG&E L3P Program(%)	CFL Basic(%)	CFL Reflector(%)	High Bay(%)	HID(%)	LF Delamp(%)	Linear(%)	Occupancy Sensor(%)	Deemed(%)	All Calculated(%)
8	1.69	0.00	0.00	5.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.63	0.00	3.23	0.00
12	16.93	0.88	45.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	69.14	0.00	3.50	0.00	0.00	0.00	100.00	0.00	0.00	32.40	0.00
18	0.19	0.57	0.00	0.00	0.00	0.00	0.00	4.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.47	0.36	0.00
28	7.43	0.00	20.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	30.86	0.00	0.00	0.00	0.00	0.00	0.00	11.58	0.00	0.00	15.55
50	0.93	0.00	0.00	3.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.24	0.00	0.00	0.00	0.00	0.00	1.45	0.00	0.00	1.94
100	3.85	11.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.00	0.00	7.37	0.00
200	2.34	0.00	6.38	0.00	0.00	0.00	0.00	0.00	50.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	26.34	0.00	0.00	0.00	0.00	4.48	0.00
400	15.48	0.00	0.00	50.59	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87.26	0.00	0.00	0.00	0.00	0.00	24.13	0.00	0.00	32.41
Don't Know	24.76	69.01	2.27	4.35	0.00	0.00	0.00	0.00	17.84	0.00	0.00	0.00	78.91	0.00	0.00	0.00	7.50	0.00	0.00	9.34	0.00	0.00	37.29	0.00	1.59	50.09
n	*20*	*8*	*6*	*6*	*0*	*0*	*0*	*3*	*3*	*2*	*1*	*1*	*5*	*0*	*0*	*2*	*3*	*2*	*0*	*5*	*1*	*1*	*9*	*2*	*15*	*5*
<MSP2B_1> How many High Performance T8 Fluorescent Fixtures did you purchase for your other locations?																										
10	7.57	1.59	27.67	0.00	0.00	0.00	0.00	0.00	31.89	0.00	0.00	0.00	3.91	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	24.17	0.00	7.57	0.00
15	7.84	6.24	13.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	100.00	0.00	0.00	0.00	0.00	7.52	0.00	0.00	11.54	0.00	7.84	0.00
30	0.42	0.55	0.00	0.00	0.00	0.00	0.00	1.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.62	0.00	0.42	0.00
40	25.04	32.49	0.00	0.00	0.00	0.00	0.00	61.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	39.10	0.00	0.00	0.00	0.00	25.04	0.00
100	22.46	29.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	71.59	0.00	0.00	0.00	0.00	0.00	0.00	9.40	0.00	0.00	62.67	0.00	22.46	0.00
200	10.00	0.00	43.63	0.00	0.00	0.00	0.00	0.00	50.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15.61	0.00	0.00	0.00	0.00	10.00	0.00
498	7.69	9.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	24.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	90.53	7.69	0.00
Refused	14.62	18.97	0.00	0.00	0.00	0.00	0.00	35.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.83	0.00	0.00	0.00	0.00	14.62	0.00
Don't Know	4.35	1.04	15.48	0.00	0.00	0.00	0.00	1.97	17.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.54	0.00	0.00	0.00	9.47	4.35	0.00
n	*14*	*9*	*4*	*1*	*0*	*0*	*0*	*4*	*3*	*0*	*0*	*0*	*4*	*1*	*1*	*0*	*1*	*2*	*0*	*6*	*0*	*0*	*4*	*2*	*14*	*0*
<MSP4_1> On a scale from 0 to 10, where zero indicates you Strongly Disagree and 10 indicates you Strongly Agree, please rate the following statement. My experience with the 2010-2012 Program influenced my decision to install this high efficiency																										
1 Strongly Disagree	1.03	2.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	6.52	0.00	0.00	0.00	0.00	1.83	0.00
3	0.76	0.00	2.22	0.00	0.00	0.00	0.00	0.00	17.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.80	0.00	0.00	0.00	0.00	1.35	0.00
5	22.83	54.79	6.26	0.00	0.00	0.00	0.00	0.00	50.28	0.00	0.00	0.00	75.21	0.00	0.00	0.00	0.00	0.00	0.00	13.54	0.00	0.00	34.78	0.00	3.81	47.31
7	24.75	8.76	21.24	50.59	0.00	0.00	0.00	35.87	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	87.26	96.50	0.00	19.81	0.00	0.00	23.83	9.47	18.79	32.41
8	6.77	15.67	0.00	3.03	0.00	0.00	0.00	63.15	0.00	0.00	0.00	0.00	0.34	0.00	0.00	0.00	5.24	0.00	0.00	36.78	100.00	0.00	1.43	0.00	10.51	1.94
9	6.80	0.00	19.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	30.86	0.00	0.00	0.00	0.00	0.00	0.00	11.43	0.00	0.00	15.55
10 Strongly Agree	19.91	12.99	5.87	46.38	0.00	0.00	0.00	0.99	31.89	100.00	0.00	100.00	17.50	100.00	0.00	0.00	7.50	0.00	0.00	18.54	0.00	0.00	28.53	0.00	33.22	2.79
Zero Strongly Disagree	17.15	5.06	44.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.95	0.00	0.00	69.14	0.00	3.50	0.00	0.00	0.00	100.00	0.00	90.53	30.48	0.00
n	*26*	*12*	*7*	*7*	*0*	*0*	*0*	*5*	*3*	*2*	*1*	*1*	*6*	*1*	*1*	*2*	*4*	*3*	*0*	*8*	*1*	*1*	*11*	*2*	*21*	*5*
<MSP5_1>Why do you give it this rating?																										
Record Reason	90.78	62.01	100.00	100.00	0.00	0.00	0.00	41.78	100.00	100.00	100.00	100.00	100.00	100.00	0.00	100.00	100.00	100.00	0.00	54.86	100.00	0.00	100.00	100.00	84.74	100.00
Refused	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Don't Know	9.22	37.99	0.00	0.00	0.00	0.00	0.00	58.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	45.14	0.00	0.00	0.00	0.00	15.26	0.00
n	*19*	*8*	*4*	*7*	*0*	*0*	*0*	*5*	*1*	*2*	*1*	*1*	*3*	*1*	*0*	*1*	*4*	*2*	*0*	*5*	*1*	*0*	*10*	*1*	*15*	*4*
<MSP17_1>Why did you purchase this lighting without the financial assistance available through a utility program?																										
Too much paperwork	12.38	4.36	6.26	30.64	0.00	0.00	0.00	0.00	50.28	83.92	0.00	0.00	5.99	0.00	0.00	0.00	0.00	0.00	0.00	13.54	0.00	0.00	14.43	90.53	22.00	0.00
Takes too long to get approval	11.24	4.36	28.04	0.00	0.00	0.00	0.00	0.00	50.28	0.00	0.00	0.00	5.99	100.00	0.00	30.86	0.00	0.00	0.00	13.54	0.00	0.00	12.52	90.53	7.89	15.55
Needed equipment immediately (No time to	34.03	15.16	77.90	5.87	0.00	0.00	0.00	61.08	82.16	16.08	100.00	0.00	0.34	100.00	0.00	69.14	0.00	96.50	0.00	57.85	100.00	100.00	3.53	9.47	60.48	0.00
Program had ended	25.58	64.13	3.97	0.00	0.00	0.00	0.00	0.00	31.89	0.00	0.00	0.00	88.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	42.99	0.00	8.68	47.31
Equipment would Not qualify PROBE	3.78	8.30	1.90	0.00	0.00	0.00	0.00	34.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	19.81	0.00	0.00	1.09	0.00	6.73	0.00
Rebate wasn't important eNough	2.87	4.36	0.00	4.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.99	0.00	0.00	0.00	7.50	0.00	0.00	0.00	0.00	0.00	2.05	90.53	2.93	2.79
Didn't kNow program was available	4.65	4.63	3.97	5.51	0.00	0.00	0.00	4.92	31.89	0.00	0.00	100.00	0.96	0.00	100.00	0.00	0.00	3.50	0.00	9.39	0.00	0.00	4.88	0.00	8.27	0.00
No program available	3.13	8.30	0.00	0.00	0.00	0.00	0.00	34.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	19.81	0.00	0.00	0.00	0.00	5.57	0.00
Other	22.35	11.72	8.49	53.62	0.00	0.00	0.00	34.00	68.11	0.00	0.00	0.00	4.69	0.00	0.00	0.00	92.50	0.00	0.00	46.30	0.00	0.00	25.26	0.00	13.02	34.35
Refused	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Don't Know	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	*26*	*12*	*7*	*7*	*0*	*0*	*0*	*5*	*3*	*2*	*1*	*1*	*6*	*1*	*1*	*2*	*4*	*3*	*0*	*8*	*1*	*1*	*11*	*2*	*21*	*5*
<MSP19_1> Was this measure specifically recommended by a Program or Utility sponsored Audit, report or program technical specialist?																										
Yes	1.48	0.73	4.57	0.00	0.00	0.00	0.00	27.51	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.50	0.00	0.00	0.00	100.00	3.31	0.00
No	43.22	11.74	95.43	37.72	0.00	0.00	0.00	72.49	0.00	100.00	0.00	0.00	5.87	100.00	100.00	100.00	0.00	0.00	0.00	78.50	0.00	100.00	20.94	0.00	96.69	0.00
Don't Know	55.30	87.53	0.00	62.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	94.13	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	79.06	0.00	0.00	100.00
n	*10*	*5*	*3*	*2*	*0*	*0*	*0*	*2*	*1*	*1*	*0*	*0*	*2*	*1*	*1*	*1*	*1*	*0*	*0*	*4*	*0*	*1*	*4*	*1*	*8*	*2*
<MSP20_1> IF you had not participated in the Program, how likely is it that your organization would still have implemented this measure, using a 0 to 10 scale where 0 means you Definitely Would Not have implemented this measure and 10 means you																										
4	1.36	0.00	3.97	0.00	0.00	0.00	0.00	0.00	31.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.28	0.00	2.42	0.00
5	6.18	0.00	6.26	14.42	0.00	0.00	0.00	0.00	50.28	16.08	0.00	100.00	0.00	0.00	0.00	0.00	5.24	0.00	0.00	23.94	0.00	0.00	4.03	0.00	9.48	1.94

* Values are shown as percent of respondents weighted by kWh.
* n is the number of respondents.

	ALL	PG&E(%)	SCE(%)	SDG&E(%)	PG&E Custom Program(%)	SCE Custom Program(%)	SDG&E Custom Program(%)	PG&E Deemed Program(%)	SCE Deemed Program(%)	SDG&E Deemed Program(%)	SCE Direct Install Program(%)	SDG&E Direct Install Program(%)	PG&E LGP Program(%)	SCE LGP Program(%)	PG&E L3P Program(%)	SCE L3P Program(%)	SDG&E L3P Program(%)	CFL Basic(%)	CFL Reflector(%)	High Bay(%)	HID(%)	LF Delamp(%)	Linear(%)	Occupancy Sensor(%)	Deemed(%)	All Calculated(%)
6	8.59	0.00	0.00	30.64	0.00	0.00	0.00	0.00	0.00	83.92	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14.43	0.00	15.26	0.00
7	5.07	11.72	1.90	0.00	0.00	0.00	0.00	34.00	0.00	0.00	0.00	0.00	4.69	100.00	0.00	0.00	0.00	0.00	0.00	27.96	0.00	0.00	1.09	0.00	9.02	0.00
8	0.09	0.24	0.00	0.00	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.15	0.00	0.16	0.00
10 Definitely Would Have	73.07	73.12	87.87	54.94	0.00	0.00	0.00	4.92	17.84	0.00	100.00	0.00	94.97	0.00	100.00	100.00	94.77	100.00	0.00	14.19	0.00	100.00	78.01	90.53	53.65	98.06
Zero Definitely Would Not	5.63	14.92	0.00	0.00	0.00	0.00	0.00	60.09	0.00	0.00	0.00	0.00	0.34	0.00	0.00	0.00	0.00	0.00	0.00	33.92	100.00	0.00	0.00	9.47	10.01	0.00
n	*26*	*12*	*7*	*7*	*0*	*0*	*0*	*5*	*3*	*2*	*1*	*1*	*6*	*1*	*1*	*2*	*4*	*3*	*0*	*8*	*1*	*1*	*11*	*2*	*21*	*5*
<MSP23_1> In what year did you install the High Performance T8 Fluorescent Fixtures?																										
2010	22.75	14.22	50.79	0.00	0.00	0.00	0.00	58.22	50.28	0.00	0.00	0.00	0.00	0.00	0.00	69.14	0.00	0.00	0.00	47.46	0.00	100.00	0.00	0.00	40.43	0.00
2011	22.70	6.27	23.46	43.90	0.00	0.00	0.00	6.79	17.84	100.00	100.00	0.00	6.33	0.00	0.00	0.00	12.74	96.50	0.00	18.07	100.00	0.00	17.91	100.00	36.66	4.73
2012	53.64	78.82	23.85	56.10	0.00	0.00	0.00	34.99	31.89	0.00	0.00	100.00	92.71	0.00	100.00	30.86	87.26	0.00	0.00	34.47	0.00	0.00	81.00	0.00	21.29	95.27
2013	0.65	0.00	1.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.09	0.00	1.15	0.00
Don't Know	0.26	0.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.96	0.00	0.00	0.00	0.00	3.50	0.00	0.00	0.00	0.00	0.00	0.00	0.47	0.00
n	*26*	*12*	*7*	*7*	*0*	*0*	*0*	*5*	*3*	*2*	*1*	*1*	*6*	*1*	*1*	*2*	*4*	*3*	*0*	*8*	*1*	*1*	*11*	*2*	*21*	*5*
And in which month (or season)?																										
February	18.63	0.00	0.00	69.81	0.00	0.00	0.00	0.00	0.00	83.92	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	75.96	0.00	19.50	0.00
May	1.41	0.00	2.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.74	0.00	1.47	0.00
November	0.20	1.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.21	0.00
December	41.91	27.17	61.39	9.91	0.00	0.00	0.00	7.57	26.19	0.00	0.00	0.00	94.61	0.00	0.00	100.00	58.90	0.00	0.00	11.71	0.00	100.00	10.78	90.53	41.11	58.90
Spring	3.57	0.00	0.00	13.37	0.00	0.00	0.00	0.00	0.00	16.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15.86	0.00	0.00	0.00	0.00	3.74	0.00
Fall	0.37	2.23	0.00	0.00	0.00	0.00	0.00	2.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.47	0.39	0.00
Don't Know	33.91	69.39	36.12	6.91	0.00	0.00	0.00	89.55	73.81	0.00	100.00	0.00	0.00	0.00	0.00	0.00	41.10	100.00	0.00	72.43	0.00	0.00	7.52	0.00	33.57	41.10
n	*14*	*5*	*5*	*4*	*0*	*0*	*0*	*3*	*2*	*2*	*1*	*0*	*2*	*1*	*0*	*1*	*2*	*1*	*0*	*5*	*1*	*1*	*4*	*2*	*12*	*2*
<MSP25_1> Did you receive a rebate for the High Performance T8 Fluorescent Fixtures?																										
Yes	4.05	4.36	2.22	5.87	0.00	0.00	0.00	0.00	17.84	16.08	0.00	0.00	5.99	0.00	0.00	0.00	0.00	0.00	0.00	15.20	0.00	0.00	0.00	90.53	7.20	0.00
No	95.95	95.64	97.78	94.13	0.00	0.00	0.00	100.00	82.16	83.92	100.00	100.00	94.01	100.00	100.00	100.00	100.00	100.00	0.00	84.80	100.00	100.00	100.00	9.47	92.80	100.00
n	*26*	*12*	*7*	*7*	*0*	*0*	*0*	*5*	*3*	*2*	*1*	*1*	*6*	*1*	*1*	*2*	*4*	*3*	*0*	*8*	*1*	*1*	*11*	*2*	*21*	*5*
<MSP26_1>What type of lighting equipment was removed and replaced when you installed the High Performance T8 Fluorescent Fixtures?																										
High Performance T8	0.85	0.00	0.00	3.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.24	0.00	0.00	0.00	0.00	0.00	1.43	0.00	0.00	1.94
T8 fluorescent fixtures (1in. diameter b	33.65	4.11	93.81	0.00	0.00	0.00	0.00	0.00	50.28	0.00	100.00	0.00	5.65	100.00	0.00	100.00	0.00	100.00	0.00	21.69	0.00	100.00	12.52	0.00	47.72	15.55
T10 fluorescent fixtures	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T12 Fixtures (1.5in. diameter bulbs)	50.60	77.50	33.70	34.99	0.00	0.00	0.00	35.87	100.00	83.92	100.00	0.00	94.35	0.00	0.00	0.00	7.50	96.50	0.00	38.15	100.00	0.00	59.47	100.00	50.99	50.09
HID (High Intensity Discharge) Fixtures-	5.37	14.22	0.00	0.00	0.00	0.00	0.00	58.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	33.92	0.00	0.00	0.00	0.00	9.54	0.00
Compact Fluorescent, Screw-in Modular	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compact Fluorescent, Hardwire	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Incandescent	0.45	1.20	0.00	0.00	0.00	0.00	0.00	4.92	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.87	0.00	0.00	0.00	0.00	0.81	0.00
Exit Signs, Compact Fluorescent	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Exit Signs, LED	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Halogen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Install Reflectors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electronic Ballast	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Magnetic Ballast	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Time Clock	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Occupancy Sensor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Bypass/Delay Timers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Photocell	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fat/Thick Tubes	1.65	0.00	0.00	5.87	0.00	0.00	0.00	0.00	0.00	16.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.39	0.00	0.00	0.00	0.00	2.92	0.00
Skinny/Thin Tubes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T5 Fixtures (5/8in. diameter)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Generic LED (SCREW BASE)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Nothing removed...new euqipment	15.81	0.24	0.00	56.10	0.00	0.00	0.00	0.99	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	87.26	0.00	0.00	0.00	0.00	0.00	26.58	0.00	2.91	32.41
Other -Record	1.03	2.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	6.52	0.00	0.00	0.00	0.00	1.83	0.00
Refused	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Don't Know	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	*26*	*12*	*7*	*7*	*0*	*0*	*0*	*5*	*3*	*2*	*1*	*1*	*6*	*1*	*1*	*2*	*4*	*3*	*0*	*8*	*1*	*1*	*11*	*2*	*21*	*5*
<MSP27_1> Approximately how old was this lighting equipment that you removed?																										
Less than 5 years old	9.64	0.00	21.24	6.91	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	41.10	96.50	0.00	0.00	0.00	0.00	1.95	0.00	13.30	2.88
Between 5 and 10 years old	5.59	10.76	1.90	0.00	0.00	0.00	0.00	1.89	0.00	0.00	0.00	0.00	14.11	100.00	0.00	0.00	0.00	3.50	0.00	0.00	100.00	0.00	9.56	9.47	8.61	0.00

* Values are shown as percent of respondents weighted by kWh.
* n is the number of respondents.

	ALL	PG&E(%)	SCE(%)	SDG&E(%)	PG&E Custom Program(%)	SCE Custom Program(%)	SDG&E Custom Program(%)	PG&E Deemed Program(%)	SCE Deemed Program(%)	SDG&E Deemed Program(%)	SCE Direct Install Program(%)	SDG&E Direct Install Program(%)	PG&E LGP Program(%)	SCE LGP Program(%)	PG&E L3P Program(%)	SCE L3P Program(%)	SDG&E L3P Program(%)	CFL Basic(%)	CFL Reflector(%)	High Bay(%)	HID(%)	LF Delamp(%)	Linear(%)	Occupancy Sensor(%)	Deemed(%)	All Calculated(%)
Between 10 and 15 years old or	34.10	14.48	64.41	9.91	0.00	0.00	0.00	34.34	0.00	0.00	0.00	0.00	4.69	0.00	100.00	100.00	58.90	0.00	0.00	34.47	0.00	100.00	18.36	0.00	37.88	27.13
More than 15 years old?	50.67	74.75	12.46	83.18	0.00	0.00	0.00	63.77	100.00	100.00	0.00	0.00	81.20	0.00	0.00	0.00	0.00	0.00	0.00	65.53	0.00	0.00	70.14	90.53	40.21	69.99
n	*23*	*11*	*7*	*5*	*0*	*0*	*0*	*4*	*3*	*2*	*1*	*0*	*6*	*1*	*1*	*2*	*3*	*3*	*0*	*8*	*1*	*1*	*8*	*2*	*19*	*4*
<MSP28_1> How would you describe the condition of this removed equipment?																										
In Poor condition	29.73	12.10	27.43	90.09	0.00	0.00	0.00	0.00	49.72	100.00	100.00	0.00	12.81	0.00	100.00	0.00	41.10	96.50	0.00	21.72	0.00	0.00	32.79	0.00	44.26	2.88
Fair condition or	58.37	82.58	52.69	0.00	0.00	0.00	0.00	100.00	50.28	0.00	0.00	0.00	79.90	100.00	0.00	69.14	0.00	0.00	0.00	78.28	0.00	100.00	48.85	9.47	52.07	69.99
Good condition	11.91	5.32	19.88	9.91	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.29	0.00	0.00	30.86	58.90	3.50	0.00	0.00	100.00	0.00	18.36	90.53	3.67	27.13
n	*23*	*11*	*7*	*5*	*0*	*0*	*0*	*4*	*3*	*2*	*1*	*0*	*6*	*1*	*1*	*2*	*3*	*3*	*0*	*8*	*1*	*1*	*8*	*2*	*19*	*4*
<MSP29_1> Approximately what percentage of this removed lighting equiment was broken or not working prior to installing the T8 Fluorescent Fixtures (1 inch diameter bulbs)?																										
0	54.68	63.70	64.41	0.00	0.00	0.00	0.00	6.86	0.00	0.00	0.00	0.00	81.20	0.00	100.00	100.00	0.00	3.50	0.00	17.54	100.00	100.00	62.94	9.47	33.94	93.00
2	3.99	0.00	6.26	9.91	0.00	0.00	0.00	0.00	50.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	58.90	0.00	0.00	13.54	0.00	0.00	2.79	0.00	3.92	4.12
5	1.96	4.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	90.53	3.02	0.00
10	5.34	8.32	3.97	0.00	0.00	0.00	0.00	34.34	31.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	19.81	0.00	0.00	3.11	0.00	8.23	0.00
15	0.90	0.00	2.22	0.00	0.00	0.00	0.00	0.00	17.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.80	0.00	0.00	0.00	0.00	1.39	0.00
20	12.92	0.00	1.90	83.18	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	10.39	0.00	0.00	21.14	0.00	19.92	0.00
100	20.21	23.61	21.24	6.91	0.00	0.00	0.00	58.80	0.00	0.00	100.00	0.00	12.81	0.00	0.00	0.00	41.10	96.50	0.00	33.92	0.00	0.00	10.02	0.00	29.58	2.88
n	*23*	*11*	*7*	*5*	*0*	*0*	*0*	*4*	*3*	*2*	*1*	*0*	*6*	*1*	*1*	*2*	*3*	*3*	*0*	*8*	*1*	*1*	*8*	*2*	*19*	*4*
<MSP2A_2>How many T8 Fluorescent Fixtures (1 inch diameter bulbs) did you purchase for this facility?																										
1	0.22	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.29	0.00	0.00	0.27	0.00
2	1.49	1.46	1.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	42.32	0.00	2.56	0.00	0.00	1.43	0.00	18.78	0.00	1.97	0.00	1.70	1.17	1.76	1.82	0.00
3	16.13	30.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	52.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	30.55	0.00	18.46	5.77
4	2.71	4.80	0.30	0.19	100.00	0.00	0.00	0.70	0.00	0.00	8.69	0.00	6.59	0.00	0.00	0.11	0.55	9.23	73.56	0.00	27.36	0.00	1.06	0.60	2.76	2.49
5	0.22	0.41	0.00	0.00	0.00	0.00	0.00	0.26	0.00	0.00	0.00	0.00	0.56	0.00	0.00	0.00	0.00	3.58	2.19	0.00	0.00	0.00	0.29	0.00	0.08	0.84
6	3.71	4.26	2.99	5.25	0.00	0.00	0.00	0.00	3.93	0.00	0.00	23.10	0.02	0.00	84.04	0.00	0.00	1.68	0.00	9.60	0.00	0.00	4.49	0.00	4.54	0.00
8	8.37	14.07	0.75	28.12	0.00	0.00	0.00	37.71	0.99	66.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	57.99	0.00	0.00	0.00	1.36	10.26	0.00
10	8.32	11.89	4.33	0.00	0.00	0.00	0.00	31.88	5.52	0.00	0.00	0.00	0.00	38.49	0.00	0.00	0.00	0.00	0.00	19.57	0.00	0.00	0.10	22.56	10.12	0.30
12	0.89	1.43	0.28	0.00	0.00	0.00	0.00	2.61	0.36	0.00	0.00	0.00	0.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.25	0.00	2.13	1.09	0.00
13	0.02	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.03	0.00
16	0.04	0.00	0.00	2.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.32	0.00	0.00	0.00	0.00	0.00	8.69	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00
18	0.33	0.00	0.73	0.00	0.00	0.00	0.00	0.00	0.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.32	0.40	0.00
20	3.63	3.80	3.02	14.04	0.00	0.00	0.00	10.19	0.00	33.30	0.00	0.00	0.00	0.00	0.00	22.27	0.00	0.00	0.00	7.74	0.00	0.00	2.16	5.75	4.45	0.00
21	0.71	0.00	1.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	48.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.35	0.00	0.87	0.00
30	18.57	0.20	41.32	3.14	0.00	0.00	0.00	0.54	54.30	0.00	0.00	13.82	0.00	0.00	0.00	0.00	0.00	0.00	24.25	0.00	0.00	83.27	25.90	0.44	22.75	0.00
40	0.52	0.00	0.00	30.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87.32	0.00	0.00	0.00	0.00	0.00	0.99	0.00	0.00	2.84
48	11.11	0.00	24.94	0.00	0.00	0.00	0.00	0.00	32.77	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	45.16	13.61	0.00
50	4.36	0.00	9.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	72.15	0.00	0.00	0.00	0.00	0.00	0.00	5.87	5.13	1.54	16.89
60	0.22	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.71	0.00	0.00	0.00	0.00	52.27	0.00	0.00	0.00	0.00	0.00	0.00	0.27	0.00
75	2.86	0.00	6.42	0.00	0.00	95.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.41	0.00	0.00	15.58
80	3.80	7.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.20	0.00	0.00	20.70
100	0.27	0.03	0.40	4.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.00	2.92	12.13	4.45	0.00	0.00	0.00	3.48	0.14	0.00	0.22	0.49
150	2.82	5.24	0.00	0.00	0.00	0.00	0.00	11.88	0.00	0.00	0.00	0.00	0.00	0.00	15.96	0.00	0.00	0.00	0.00	3.12	0.00	0.00	0.00	9.68	3.45	0.00
400	0.85	1.58	0.00	0.00	0.00	0.00	0.00	4.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.44	1.04	0.00
500	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	1.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03
1000	0.07	0.00	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.28	0.00	0.37
Don't Know	7.76	12.93	1.35	12.22	0.00	4.70	0.00	0.00	1.16	0.00	0.00	53.76	22.74	46.24	0.00	0.00	0.00	0.00	0.00	0.00	72.64	0.00	13.28	0.39	1.93	33.68
n	*77*	*40*	*28*	*9*	*1*	*2*	*0*	*13*	*11*	*2*	*4*	*4*	*24*	*3*	*2*	*8*	*3*	*9*	*4*	*10*	*4*	*7*	*25*	*18*	*61*	*16*
<MSP2B_2> How many T8 Fluorescent Fixtures (1 inch diameter bulbs) did you purchase for your other locations?																										
1	24.19	52.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	46.89	0.00	29.88	0.00
2	1.31	0.00	2.78	0.00	0.00	19.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.53	0.00	0.00	6.86
6	2.77	6.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.01	0.00	0.00	0.00	0.00	0.00	97.11	0.00	0.00	0.00	0.00	0.00	3.42	0.00
8	0.98	0.00	2.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	41.71	0.00	0.00	0.00	0.00	0.00	0.00	99.11	0.00	0.00	0.00	0.00	0.00	0.00	1.21	0.00
9	0.06	0.00	0.13	0.00	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.68	0.00	0.00	0.00	0.00	0.08	0.00
10	0.32	0.33	0.00	2.47	0.00	0.00	0.00	0.54	0.00	100.00	0.00	0.00	0.25	0.00	0.00	0.00	0.00	0.00	2.89	0.00	0.36	1.09	0.00	0.00	0.40	0.00
11	2.94	0.00	6.27	0.00	0.00	0.00	0.00	0.00	9.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	18.70	0.00	0.00	3.63	0.00
12	2.62	0.00	5.58	0.00	0.00	0.00	0.00	0.00	6.17	0.00	28.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.32	0.00	0.00	1.30	0.00	3.23	0.00
20	7.25	3.14	12.35	0.00	0.00	0.00	0.00	9.54	18.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	63.38	0.00	0.00	2.81	0.00	8.95	0.00
30	2.04	0.00	4.35	0.00	0.00	0.00	0.00	0.00	4.23	0.00	29.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14.63	0.00	0.00	0.00	93.60	2.52	0.00
40	7.43	6.15	9.78	0.00	0.00	68.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14.40	0.00	3.51	24.09
45	0.09	0.00	0.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.00	0.00	0.47
50	0.03	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.04	0.00

* Values are shown as percent of respondents weighted by kWh.
* n is the number of respondents.

	ALL	PG&E(%)	SCE(%)	SDG&E(%)	PG&E Custom Program(%)	SCE Custom Program(%)	SDG&E Custom Program(%)	PG&E Deemed Program(%)	SCE Deemed Program(%)	SDG&E Deemed Program(%)	SCE Direct Install Program(%)	SDG&E Direct Install Program(%)	PG&E LGP Program(%)	SCE LGP Program(%)	PG&E L3P Program(%)	SCE L3P Program(%)	SDG&E L3P Program(%)	CFL Basic(%)	CFL Reflector(%)	High Bay(%)	HID(%)	LF Delamp(%)	Linear(%)	Occupancy Sensor(%)	Deemed(%)	All Calculated(%)
60	0.63	0.00	1.35	0.00	0.00	0.00	0.00	0.00	2.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.23	0.00	0.78	0.00
100	9.27	0.00	10.60	61.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	89.60	63.38	0.00	0.00	0.00	0.00	0.00	17.98	0.00	0.00	48.69
150	0.15	0.33	0.00	0.00	35.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.29	0.00	0.00	0.79
200	17.58	0.00	37.47	0.00	0.00	0.00	0.00	0.00	55.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	92.78	0.00	0.00	0.00	21.72	0.00
600	0.77	0.33	1.31	0.00	35.74	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.49	0.00	0.76	0.80
700	0.58	0.00	1.24	0.00	0.00	0.00	0.00	0.00	1.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.06	0.00	0.00	0.00	0.72	0.00
800	12.04	26.10	0.00	0.00	0.00	0.00	0.00	79.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	76.54	0.00	0.00	14.87	0.00
890	0.58	0.00	1.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.40	0.00	0.00	0.00	0.00	0.00	3.67	0.00	0.00	0.71	0.00
1000	1.61	3.50	0.00	0.00	0.00	0.00	0.00	10.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.13	0.00	1.99	0.00
5000	0.01	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05
Don't Know	4.76	1.58	3.28	35.72	28.76	12.24	0.00	0.00	2.27	0.00	0.00	0.00	2.20	0.00	0.00	0.00	36.63	0.00	0.00	0.00	3.79	0.00	7.73	6.40	1.58	18.25
n	*41*	*17*	*19*	*5*	*3*	*3*	*0*	*4*	*9*	*1*	*3*	*0*	*9*	*2*	*1*	*2*	*4*	*2*	*2*	*4*	*4*	*4*	*23*	*2*	*27*	*14*
<MSP4_2> On a scale from 0 to 10, where zero indicates you Strongly Disagree and 10 indicates you Strongly Agree, please rate the following statement. My experience with the 2010-2012 Program influenced my decision to install this high efficiency																										
1 Strongly Disagree	1.05	2.04	0.06	1.33	24.80	0.00	0.00	3.16	0.07	0.00	0.00	0.00	0.79	0.00	0.00	0.00	1.71	0.00	0.00	0.21	0.00	0.00	2.25	0.00	1.05	1.03
2	1.51	1.41	1.36	4.39	0.00	11.84	0.00	0.90	0.64	28.97	0.00	0.00	0.71	10.47	9.66	0.00	0.00	0.00	0.00	2.36	0.00	1.46	1.30	2.37	1.32	2.41
3	0.45	0.00	0.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.55	0.00
4	2.10	0.00	4.32	0.00	0.00	66.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.63	0.00	0.00	12.13
5	1.73	2.86	0.78	0.00	0.00	0.00	0.00	6.46	0.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.97	4.58	0.00	0.00	1.63	0.00	2.10	0.00
6	3.74	0.38	6.59	8.79	0.00	0.00	0.00	0.00	0.00	58.05	0.00	0.00	0.80	0.00	0.00	68.09	0.00	0.00	0.00	2.61	0.00	1.65	5.02	5.04	1.76	13.15
7	5.59	11.72	0.06	0.00	0.00	0.00	0.00	21.25	0.00	0.00	0.00	0.00	4.85	0.00	0.00	0.65	0.00	0.00	0.00	0.00	0.00	0.28	1.71	25.96	5.81	4.49
8	7.92	9.65	2.52	53.12	0.00	0.00	0.00	0.42	2.23	0.00	14.25	53.76	19.85	0.00	0.00	1.45	63.40	3.73	2.19	4.54	0.34	0.58	15.10	1.60	1.83	37.00
9	26.82	0.53	54.65	0.00	0.00	0.00	0.00	0.00	69.51	0.00	0.00	0.00	1.11	4.15	0.00	0.00	0.00	0.00	0.00	0.00	86.53	0.00	23.35	44.37	32.30	0.66
10 Strongly Agree	13.25	21.71	4.49	19.52	61.40	22.07	0.00	26.48	0.22	12.98	4.34	0.00	6.39	12.57	90.34	26.64	22.57	22.58	73.56	41.85	1.11	3.14	10.31	5.64	13.95	9.89
Zero Strongly Disagree	35.77	49.55	24.23	12.86	0.00	0.00	0.00	41.34	26.32	0.00	60.29	46.24	65.51	72.81	0.00	3.17	12.32	73.69	2.28	43.86	12.02	92.89	33.55	15.03	39.32	18.84
Don't Know	0.07	0.15	0.00	0.00	13.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.15	0.00	0.00	0.40
n	*102*	*48*	*42*	*12*	*4*	*4*	*0*	*15*	*18*	*3*	*7*	*4*	*26*	*4*	*3*	*9*	*5*	*10*	*4*	*13*	*7*	*11*	*38*	*19*	*79*	*23*
<MSP5_2>Why do you give it this rating?																										
Record Reason	100.00	100.00	100.00	100.00	100.00	100.00	0.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Refused	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Don't Know	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	*47*	*21*	*20*	*6*	*1*	*2*	*0*	*5*	*7*	*2*	*2*	*1*	*13*	*2*	*2*	*7*	*3*	*4*	*2*	*4*	*3*	*5*	*19*	*10*	*37*	*10*
<MSP17_2>Why did you purchase this lighting without the financial assistance available through a utility program?																										
Too much paperwork	4.84	5.62	4.47	0.00	0.00	66.09	0.00	8.37	0.00	0.00	0.00	0.00	4.01	10.47	0.00	0.65	0.00	1.98	0.00	0.00	0.00	0.28	6.68	9.54	2.17	17.53
Takes too long to get approval	9.49	14.07	5.80	0.00	0.00	66.09	0.00	19.44	0.63	0.00	20.90	0.00	2.63	0.00	60.54	0.65	0.00	81.24	0.00	2.36	0.00	0.28	8.57	25.20	8.79	12.81
Needed equipment immediately (No time to	11.46	14.75	9.15	0.66	11.10	18.81	0.00	27.73	8.28	0.00	14.25	9.32	4.93	72.81	0.00	2.11	0.00	11.64	21.97	5.39	3.54	15.52	6.97	27.61	12.13	8.29
Program had ended	4.53	9.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.98	0.00	0.14	25.49
Equipment would Not qualify PROBE	11.06	0.29	18.41	49.24	0.00	0.00	0.00	0.00	21.08	0.00	42.01	0.00	0.60	0.00	0.00	0.00	63.33	59.57	0.00	0.00	86.53	0.00	5.63	0.00	10.99	11.36
Rebate wasn't important eNough	3.99	1.24	6.99	0.00	0.00	77.93	0.00	0.00	2.41	0.00	0.00	0.00	2.61	0.00	0.00	0.00	0.00	1.45	0.00	8.32	3.69	0.00	5.48	0.12	1.80	14.43
Didn't kNow program was available	20.11	25.88	14.14	24.39	0.00	0.00	0.00	4.05	11.72	87.02	19.29	23.10	50.50	0.00	0.00	42.16	12.32	21.14	0.00	17.39	0.00	30.61	25.96	13.45	23.87	2.21
No program available	1.58	0.02	1.79	17.55	0.00	0.00	0.00	0.00	1.41	0.00	0.00	0.00	0.05	4.15	0.00	6.68	22.57	0.68	0.00	0.21	2.86	2.42	1.59	1.61	1.01	4.34
Other	34.60	19.52	50.03	25.71	88.90	3.26	0.00	33.96	54.63	12.98	45.56	67.58	1.65	12.57	39.46	49.46	24.36	3.73	4.47	66.75	3.39	0.72	36.91	45.34	37.42	21.13
Refused	0.01	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.00	1.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08
Don't Know	1.45	3.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.40	0.00	0.00	0.00	0.00	0.00	73.56	0.00	0.00	0.00	0.39	0.00	1.75	0.00
n	*102*	*48*	*42*	*12*	*4*	*4*	*0*	*15*	*18*	*3*	*7*	*4*	*26*	*4*	*3*	*9*	*5*	*10*	*4*	*13*	*7*	*11*	*38*	*19*	*79*	*23*
<MSP19_2> Was this measure specifically recommended by a Program or Utility sponsored Audit, report or program technical specialist?																										
Yes	20.68	34.44	5.17	0.00	0.00	0.00	0.00	48.14	5.39	0.00	0.00	0.00	1.80	0.00	100.00	10.40	0.00	0.00	0.00	86.02	0.00	74.60	5.20	0.00	31.48	0.00
No	79.19	65.31	94.83	100.00	84.69	100.00	0.00	51.86	94.62	0.00	100.00	0.00	98.20	100.00	0.00	89.60	100.00	100.00	0.00	13.98	100.00	25.40	94.60	100.00	68.52	99.60
Don't Know	0.14	0.25	0.00	0.00	15.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.40
n	*32*	*17*	*14*	*1*	*2*	*2*	*0*	*7*	*7*	*0*	*1*	*0*	*7*	*2*	*1*	*2*	*1*	*2*	*0*	*7*	*2*	*2*	*14*	*5*	*21*	*11*
<MSP20_2> IF you had not participated in the Program, how likely is it that your organization would still have implemented this measure, using a 0 to 10 scale where 0 means you Definitely Would Not have implemented this measure and 10 means you																										
2	0.25	0.36	0.00	1.96	0.00	0.00	0.00	0.00	0.00	12.98	0.00	0.00	0.76	0.00	0.00	0.00	0.00	7.59	0.00	0.00	0.00	0.72	0.25	0.00	0.16	0.66
3	0.64	0.74	0.60	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	1.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.34	0.00	0.64	1.73	0.77	0.00
4	4.08	8.61	0.00	0.00	0.00	0.00	0.00	19.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.17	4.93	0.00
5	10.88	12.24	9.40	12.60	0.00	18.81	0.00	0.49	6.95	58.05	0.00	53.76	25.21	16.72	0.00	26.64	0.00	0.00	73.56	22.29	0.00	2.42	11.44	6.21	7.09	28.95
6	3.69	0.37	7.22	0.00	0.00	0.00	0.00	0.18	0.00	0.00	14.25	0.00	0.60	0.00	0.00	68.09	0.00	0.00	2.19	0.00	0.00	0.00	5.99	5.04	1.70	13.15
7	18.46	0.00	37.97	0.00	0.00	0.00	0.00	0.00	48.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.13	45.71	22.33	0.00
8	9.39	0.33	18.64	4.45	13.80	11.84	0.00	0.41	21.30	28.97	21.12	0.00	0.00	0.00	0.00	2.00	0.08	0.32	0.00	0.63	86.53	0.86	2.37	0.46	10.82	2.58
9	0.34	0.01	0.68	0.00	0.00	0.00	0.00	0.00	0.86	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.54	0.00	0.01	0.00	0.41	0.00

* Values are shown as percent of respondents weighted by kWh.
* n is the number of respondents.

	ALL	PG&E(%)	SCE(%)	SDG&E(%)	PG&E Custom Program(%)	SCE Custom Program(%)	SDG&E Custom Program(%)	PG&E Deemed Program(%)	SCE Deemed Program(%)	SDG&E Deemed Program(%)	SCE Direct Install Program(%)	SDG&E Direct Install Program(%)	PG&E LGP Program(%)	SCE LGP Program(%)	PG&E L3P Program(%)	SCE L3P Program(%)	SDG&E L3P Program(%)	CFL Basic(%)	CFL Reflector(%)	High Bay(%)	HID(%)	LF Delamp(%)	Linear(%)	Occupancy Sensor(%)	Deemed(%)	All Calculated(%)
10 Definitely Would Have	48.75	74.06	25.49	31.74	24.80	69.34	0.00	76.54	21.81	0.00	64.63	46.24	69.07	83.28	100.00	3.17	36.60	69.15	24.25	72.50	5.90	96.00	51.90	18.66	50.29	41.44
Zero Definitely Would Not	3.17	2.53	0.01	49.24	61.40	0.00	0.00	2.94	0.00	0.00	0.00	0.00	1.21	0.00	0.00	0.10	63.33	21.14	0.00	4.58	0.00	0.00	5.27	0.03	1.08	13.15
Don't Know	0.36	0.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.58	0.00	0.00	0.00	0.00	1.80	0.00	0.00	3.69	0.00	0.00	0.00	0.42	0.08
n	*102*	*48*	*42*	*12*	*4*	*4*	*0*	*15*	*18*	*3*	*7*	*4*	*26*	*4*	*3*	*9*	*5*	*10*	*4*	*13*	*7*	*11*	*38*	*19*	*79*	*23*
<MSP23_2> In what year did you install the T8 Fluorescent Fixtures (1 inch diameter bulbs)?																										
2010	24.90	26.37	25.03	6.03	0.00	0.00	0.00	4.00	23.41	28.97	25.23	23.14	51.57	10.47	0.00	56.13	0.00	71.21	2.28	12.47	88.47	6.44	30.08	0.27	27.31	13.41
2011	28.34	27.21	24.64	86.80	61.40	18.81	0.00	33.52	21.78	58.05	39.40	23.10	18.80	76.96	39.46	40.71	98.21	2.13	75.75	78.26	3.88	28.38	21.63	17.31	26.11	38.98
2012	26.48	42.49	12.46	7.17	13.70	77.93	0.00	57.51	7.13	12.98	35.37	53.76	27.96	0.00	50.88	2.10	1.79	0.32	21.97	6.91	6.54	65.18	24.03	35.45	22.43	45.78
2013	19.12	1.82	37.56	0.00	0.00	0.00	0.00	3.16	47.68	0.00	0.00	0.00	0.88	0.00	0.00	1.06	0.00	26.35	0.00	0.00	0.00	0.00	23.59	44.64	23.02	0.51
Don't Know	1.15	2.11	0.31	0.00	24.90	3.26	0.00	1.81	0.00	0.00	0.00	0.00	0.79	12.57	9.66	0.00	0.00	0.00	0.00	2.36	1.11	0.00	0.67	2.33	1.12	1.32
n	*102*	*48*	*42*	*12*	*4*	*4*	*0*	*15*	*18*	*3*	*7*	*4*	*26*	*4*	*3*	*9*	*5*	*10*	*4*	*13*	*7*	*11*	*38*	*19*	*79*	*23*
And in which month (or season)?																										
January	0.16	0.22	0.07	0.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.32	0.35	0.00	0.00	0.66	0.00	11.11	0.00	0.00	0.00	0.80	0.00	0.00	0.18	0.00
February	1.78	4.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.77	0.00	2.04	0.00
March	1.74	4.77	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.72	0.00	0.00	0.00	0.00	0.00	94.27	0.00	0.00	0.00	0.00	0.00	1.99	0.00
May	11.93	0.04	20.46	0.00	0.00	0.00	0.00	0.00	23.00	0.00	37.82	0.00	0.07	0.00	0.00	0.00	0.00	1.45	0.00	0.00	0.00	0.00	1.52	71.31	13.68	0.00
June	8.38	21.44	0.98	0.00	0.00	0.00	0.00	65.09	0.00	0.00	29.85	0.00	0.85	0.00	0.00	0.00	0.00	3.41	0.00	44.59	0.00	0.00	0.60	2.80	9.38	1.50
July	1.27	0.00	2.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	19.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.09	1.46	0.00
August	0.36	0.00	0.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.70	0.00	0.00	0.00	0.00	0.00	6.90	0.00	0.00	0.42	0.00
November	1.89	0.00	3.24	0.00	0.00	0.00	0.00	0.00	3.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.05	0.00	0.00	0.00	0.00	2.16	0.00
December	1.51	2.60	0.87	1.02	100.00	0.00	0.00	0.00	0.93	0.00	0.00	13.82	2.32	11.97	0.00	0.00	0.00	0.00	2.92	1.61	3.83	4.69	1.02	0.00	1.18	3.78
Spring	4.62	3.02	0.58	60.01	0.00	0.00	0.00	9.24	0.69	66.70	0.00	0.00	0.08	0.00	0.00	0.00	64.43	1.80	0.00	9.15	0.00	0.00	5.71	2.15	2.18	21.36
Summer	18.03	5.50	24.95	28.05	0.00	0.00	0.00	15.51	28.30	0.00	32.33	0.00	0.83	0.00	0.00	2.14	35.49	59.57	2.81	0.00	0.00	2.59	34.62	5.43	18.95	11.69
Fall	4.78	10.81	1.44	0.00	0.00	0.00	0.00	0.94	1.73	0.00	0.00	0.00	17.00	0.00	0.00	0.00	0.00	0.00	0.00	4.92	0.00	0.00	8.10	0.70	1.09	30.09
Winter	5.86	0.68	9.63	0.00	0.00	0.00	0.00	0.00	8.73	0.00	0.00	0.00	1.10	0.00	0.00	21.33	0.00	0.00	0.00	0.00	2.10	80.86	0.00	8.64	6.71	0.00
Don't Know	37.69	46.03	34.97	10.24	0.00	100.00	0.00	9.23	32.75	33.30	0.00	76.86	69.68	88.03	0.00	50.19	0.08	22.67	0.00	28.69	94.07	4.17	44.65	0.87	38.58	31.58
n	*65*	*28*	*27*	*10*	*1*	*1*	*0*	*8*	*11*	*2*	*5*	*4*	*18*	*3*	*1*	*7*	*4*	*10*	*3*	*10*	*4*	*6*	*23*	*9*	*52*	*13*
<MSP25_2> Did you receive a rebate for the T8 Fluorescent Fixtures (1 inch diameter bulbs)?																										
Yes	3.18	5.92	0.77	0.00	0.00	11.84	0.00	0.00	0.00	0.00	0.00	0.00	12.41	0.00	0.00	0.00	0.00	1.80	0.00	0.00	0.00	0.00	6.98	0.00	0.00	18.37
No	96.35	93.93	99.13	91.21	86.20	88.16	0.00	100.00	100.00	41.96	100.00	100.00	87.59	87.43	100.00	100.00	100.00	98.20	100.00	97.40	100.00	100.00	92.87	99.73	99.52	81.23
Don't Know	0.47	0.15	0.10	8.79	13.80	0.00	0.00	0.00	0.00	58.05	0.00	0.00	0.00	12.57	0.00	0.00	0.00	0.00	0.00	2.61	0.00	0.00	0.15	0.27	0.48	0.40
n	*102*	*48*	*42*	*12*	*4*	*4*	*0*	*15*	*18*	*3*	*7*	*4*	*26*	*4*	*3*	*9*	*5*	*10*	*4*	*13*	*7*	*11*	*38*	*19*	*79*	*23*
<MSP26_2>What type of lighting equipment was removed and replaced when you installed the T8 Fluorescent Fixtures (1 inch diameter bulbs)?																										
High Performance T8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T8 fluorescent fixtures (1in. diameter b	24.60	28.43	22.36	6.38	0.00	81.19	0.00	8.34	21.61	28.97	0.00	9.32	51.85	0.00	0.00	0.75	1.71	24.65	0.00	0.00	4.80	1.10	30.66	53.91	26.56	15.20
T10 fluorescent fixtures	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T12 Fixtures (1.5in. diameter bulbs)	50.72	59.12	39.45	88.18	38.60	11.84	0.00	38.12	35.57	41.96	53.65	76.86	80.54	87.43	49.12	79.15	98.21	8.81	73.56	26.62	6.39	57.01	80.44	13.27	47.73	64.97
HID (High Intensity Discharge) Fixtures-	1.74	2.81	0.83	0.00	0.00	11.84	0.00	0.00	0.07	0.00	0.00	0.00	0.14	0.00	39.46	0.00	0.00	0.00	0.00	0.21	0.34	0.00	3.69	0.00	1.64	2.17
Compact Fluorescent, Screw-in Modular	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compact Fluorescent, Hardwire	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Incandescent	6.53	8.62	5.04	0.00	0.00	0.00	0.00	19.47	5.24	0.00	20.90	0.00	0.00	0.00	0.00	0.00	0.00	59.57	21.97	10.21	0.00	0.00	0.00	23.54	7.90	0.00
Exit Signs, Compact Fluorescent	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Exit Signs, LED	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Halogen	5.56	11.72	0.00	0.00	0.00	0.00	0.00	26.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	41.21	0.00	0.00	0.00	0.00	6.72	0.00
Install Reflectors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electronic Ballast	0.11	0.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.66
Magnetic Ballast	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Time Clock	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Occupancy Sensor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Bypass/Delay Timers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Photocell	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other	0.13	0.27	0.00	0.00	0.00	0.00	0.00	0.49	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.68	0.13	0.13
Fat/Thick Tubes	0.44	0.00	0.19	8.79	0.00	0.00	0.00	0.00	0.00	58.05	4.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.61	0.00	0.00	0.21	0.00	0.54	0.00
Skinny/Thin Tubes	0.24	0.00	0.49	0.00	0.00	0.00	0.00	0.00	0.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.30	0.29	0.00
T5 Fixtures (5/8in. diameter)	0.93	0.00	1.91	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	19.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.04	1.12	0.00
Generic LED (SCREW BASE)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Nothing removed...new euqipment	20.81	12.05	30.96	0.98	61.40	18.81	0.00	0.18	36.66	0.00	21.12	13.82	16.31	0.00	50.88	0.00	0.00	4.86	4.47	12.65	88.47	42.17	12.84	1.73	20.66	21.51
Other -Record	1.60	3.09	0.28	0.06	0.00	0.00	0.00	6.92	0.22	0.00	0.00	0.00	0.06	0.00	0.00	1.06	0.08	2.12	0.00	6.48	0.00	0.00	1.46	0.27	1.86	0.37
Refused	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Don't Know	0.05	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.27	0.06	0.00

* Values are shown as percent of respondents weighted by kWh.
* n is the number of respondents.

	ALL	PG&E(%)	SCE(%)	SDG&E(%)	PG&E Custom Program(%)	SCE Custom Program(%)	SDG&E Custom Program(%)	PG&E Deemed Program(%)	SCE Deemed Program(%)	SDG&E Deemed Program(%)	SCE Direct Install Program(%)	SDG&E Direct Install Program(%)	PG&E LGP Program(%)	SCE LGP Program(%)	PG&E L3P Program(%)	SCE L3P Program(%)	SDG&E L3P Program(%)	CFL Basic(%)	CFL Reflector(%)	High Bay(%)	HID(%)	LF Delamp(%)	Linear(%)	Occupancy Sensor(%)	Deemed(%)	All Calculated(%)
n	*102*	*48*	*42*	*12*	*4*	*4*	*0*	*15*	*18*	*3*	*7*	*4*	*26*	*4*	*3*	*9*	*5*	*10*	*4*	*13*	*7*	*11*	*38*	*19*	*79*	*23*
<MSP27_2> Approximately how old was this lighting equipment that you removed?																										
Less than 5 years old	11.93	1.22	26.17	4.00	0.00	0.00	0.00	0.00	34.23	12.98	26.49	10.82	2.69	12.57	0.00	0.10	1.71	88.52	0.00	0.24	31.98	2.67	0.15	45.45	14.33	0.39
Between 5 and 10 years old	12.07	9.85	10.37	49.73	0.00	85.41	0.00	19.48	1.45	0.00	0.00	0.00	0.14	0.00	0.00	19.69	63.33	0.56	0.00	0.72	34.41	0.00	10.28	27.81	8.17	30.87
Between 10 and 15 years old or	19.68	31.05	7.36	4.49	35.50	14.59	0.00	44.50	7.25	28.97	18.96	0.00	11.89	4.15	80.33	0.00	0.08	8.32	100.00	65.57	2.93	0.00	8.82	14.57	21.72	9.84
More than 15 years old?	52.25	57.17	47.39	41.78	28.76	0.00	0.00	35.78	45.11	58.05	54.55	89.18	84.34	83.28	19.67	79.56	34.89	2.60	0.00	10.92	30.68	96.85	80.12	10.58	50.98	58.38
Don't Know	4.07	0.71	8.71	0.00	35.74	0.00	0.00	0.24	11.96	0.00	0.00	0.00	0.94	0.00	0.00	0.65	0.00	0.00	0.00	22.54	0.00	0.48	0.63	1.60	4.80	0.51
n	*84*	*38*	*35*	*11*	*3*	*3*	*0*	*14*	*13*	*3*	*6*	*3*	*19*	*4*	*2*	*9*	*5*	*8*	*2*	*10*	*5*	*8*	*33*	*18*	*65*	*19*
<MSP28_2> How would you describe the condition of this removed equipment?																										
In Poor condition	27.61	22.25	33.51	34.12	0.00	0.00	0.00	33.61	39.23	58.05	75.54	100.00	11.81	85.38	0.00	3.05	24.28	89.23	77.00	10.65	87.42	93.00	8.52	47.14	31.91	6.91
Fair condition or	38.31	22.61	60.65	14.10	64.50	100.00	0.00	11.41	55.08	28.97	5.50	0.00	29.64	14.62	80.33	91.33	12.32	10.43	23.00	27.78	12.58	1.57	58.36	18.13	30.06	78.10
Good condition	34.08	55.14	5.85	51.78	35.50	0.00	0.00	54.98	5.69	12.98	18.96	0.00	58.55	0.00	19.67	5.62	63.40	0.34	0.00	61.57	0.00	5.43	33.12	34.73	38.04	14.98
n	*84*	*38*	*35*	*11*	*3*	*3*	*0*	*14*	*13*	*3*	*6*	*3*	*19*	*4*	*2*	*9*	*5*	*8*	*2*	*10*	*5*	*8*	*33*	*18*	*65*	*19*
<MSP29_2> Approximately what percentage of this removed lighting equipment was broken or working prior to installing T8 Fluorescent Fixtures (1 inch diameter bulbs)?																										
0	64.80	70.48	58.82	55.63	100.00	81.40	0.00	60.54	50.90	12.98	100.00	62.38	85.54	0.00	19.67	77.16	63.40	93.14	23.00	66.81	24.76	9.85	84.51	44.60	61.52	80.59
1	0.41	0.00	0.97	0.00	0.00	0.00	0.00	0.00	1.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.72	0.00	0.00	0.00	1.32	0.49	0.00
3	0.17	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.35	0.00	0.21	0.00
5	7.15	13.45	0.17	0.00	0.00	0.00	0.00	26.70	0.00	0.00	0.00	0.00	0.07	14.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87.24	0.18	0.44	8.57	0.30
10	3.92	0.27	8.92	0.00	0.00	0.00	0.00	0.00	12.17	0.00	0.00	0.00	0.60	0.00	0.00	1.06	0.00	0.00	0.00	22.54	0.00	0.00	1.02	0.28	4.49	1.20
15	1.17	0.00	2.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	19.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.12	1.41	0.00
20	4.86	6.65	0.84	20.20	0.00	0.00	0.00	6.93	0.00	58.05	0.00	26.80	0.09	72.81	80.33	0.00	12.32	2.45	0.00	9.68	0.00	0.00	6.81	0.00	5.26	2.94
25	0.89	0.00	2.10	0.00	0.00	14.59	0.00	0.00	1.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	30.68	0.00	0.95	0.00	0.50	2.77
30	0.98	1.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.97	0.00	0.00	5.72
33	0.07	0.00	0.00	1.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.71	0.00	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.39
40	0.89	0.00	0.00	17.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.57	0.00	0.00	0.00	0.00	0.00	1.77	0.00	0.00	5.16
50	1.85	3.29	0.19	0.67	0.00	0.00	0.00	0.50	0.00	0.00	0.00	10.82	6.71	0.00	0.00	1.35	0.00	3.69	77.00	0.00	0.00	1.00	0.00	0.57	2.23	0.00
70	0.93	1.77	0.00	0.00	0.00	0.00	0.00	3.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.87	0.00	1.13	0.00
80	0.22	0.00	0.00	4.43	0.00	0.00	0.00	0.00	0.00	28.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.44	0.00	0.27	0.00
100	11.52	1.81	24.93	0.00	0.00	0.00	0.00	1.81	34.23	0.00	0.00	0.00	1.99	12.57	0.00	0.75	0.00	0.71	0.00	0.24	31.98	1.91	0.01	47.67	13.87	0.16
102	0.17	0.08	0.31	0.00	0.00	4.01	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.58	0.00	0.00	0.00	0.05	0.76
n	*84*	*38*	*35*	*11*	*3*	*3*	*0*	*14*	*13*	*3*	*6*	*3*	*19*	*4*	*2*	*9*	*5*	*8*	*2*	*10*	*5*	*8*	*33*	*18*	*65*	*19*
<MSP23_3> In what year did you install the T10 fluorescent fixtures?																										
2010	100.00	100.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	100.00	100.00	0.00
n	*2*	*1*	*0*	*1*	*0*	*0*	*0*	*0*	*0*	*1*	*0*	*0*	*0*	*0*	*1*	*0*	*0*	*1*	*0*	*0*	*0*	*0*	*0*	*1*	*2*	*0*
And in which month (or season)?																										
March	13.03	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	13.03	0.00
Don't Know	86.97	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	86.97	0.00
n	*2*	*1*	*0*	*1*	*0*	*0*	*0*	*0*	*0*	*1*	*0*	*0*	*0*	*0*	*1*	*0*	*0*	*1*	*0*	*0*	*0*	*0*	*0*	*1*	*2*	*0*
<MSP26_3>What type of lighting equipment was removed and replaced when you installed the T10 fluorescent fixtures?																										
High Performance T8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T8 fluorescent fixtures (1in. diameter b	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T10 fluorescent fixtures	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T12 Fixtures (1.5in. diameter bulbs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HID (High Intensity Discharge) Fixtures-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compact Fluorescent, Screw-in Modular	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compact Fluorescent, Hardwire	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Incandescent	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Generic LED (SCREW BASE)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Exit Signs, Compact Fluorescent	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Exit Signs, LED	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Halogen	86.97	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	86.97	0.00
Install Reflectors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electronic Ballast	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Magnetic Ballast	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Time Clock	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Occupancy Sensor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Bypass/Delay Timers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

* Values are shown as percent of respondents weighted by kWh.
* n is the number of respondents.

	ALL	PG&E(%)	SCE(%)	SDG&E(%)	PG&E Custom Program(%)	SCE Custom Program(%)	SDG&E Custom Program(%)	PG&E Deemed Program(%)	SCE Deemed Program(%)	SDG&E Deemed Program(%)	SCE Direct Install Program(%)	SDG&E Direct Install Program(%)	PG&E LGP Program(%)	SCE LGP Program(%)	PG&E L3P Program(%)	SCE L3P Program(%)	SDG&E L3P Program(%)	CFL Basic(%)	CFL Reflector(%)	High Bay(%)	HID(%)	LF Delamp(%)	Linear(%)	Occupancy Sensor(%)	Deemed(%)	All Calculated(%)
Lighting Controls, Photocell	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fat/Thick Tubes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Skinny/Thin Tubes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T5 Fixtures (5/8in. diameter)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Nothing removed...new euqipment	13.03	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	13.03	0.00
Other -Record	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Refused	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Don't Know	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	*2*	*1*	*0*	*1*	*0*	*0*	*0*	*0*	*0*	*1*	*0*	*0*	*0*	*0*	*1*	*0*	*0*	*1*	*0*	*0*	*0*	*0*	*0*	*1*	*2*	*0*
<MSP27_3> Approximately how old was this lighting equipment that you removed?																										
Between 5 and 10 years old	100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	100.00	0.00
n	*1*	*0*	*0*	*1*	*0*	*0*	*0*	*0*	*0*	*1*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*1*	*1*	*0*
<MSP28_3> How would you describe the condition of this removed equipment?																										
Good condition	100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	100.00	0.00
n	*1*	*0*	*0*	*1*	*0*	*0*	*0*	*0*	*0*	*1*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*1*	*1*	*0*
<MSP29_3> Approximately what percentage of this removed lighting equipment was broken or working prior to installing the T10 fluorescent fixtures?																										
1	100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	100.00	0.00
n	*1*	*0*	*0*	*1*	*0*	*0*	*0*	*0*	*0*	*1*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*1*	*1*	*0*
<MSP23_4> In what year did you install the T12 Fixtures (1.5in. diameter bulbs)?																										
2010	34.90	3.69	40.96	0.00	0.00	0.00	0.00	0.00	31.07	0.00	0.00	0.00	4.41	0.00	0.00	100.00	0.00	25.99	0.00	14.87	100.00	100.00	20.48	0.00	37.24	6.35
2011	11.41	16.27	11.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	4.27	0.00	0.00	33.68	0.00	12.35	0.00
2012	47.53	34.67	47.98	92.04	0.00	0.00	0.00	0.00	68.93	0.00	0.00	0.00	41.41	0.00	0.00	0.00	92.04	48.16	0.00	80.87	0.00	0.00	24.44	0.00	43.74	93.65
2013	3.27	23.26	0.00	7.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	27.77	0.00	0.00	0.00	7.96	25.85	0.00	0.00	0.00	0.00	10.92	0.00	3.54	0.00
Don't Know	2.89	22.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	26.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.48	0.00	3.13	0.00
n	*18*	*9*	*6*	*3*	*0*	*0*	*0*	*0*	*4*	*0*	*1*	*0*	*8*	*0*	*1*	*1*	*3*	*5*	*0*	*3*	*1*	*1*	*8*	*0*	*13*	*5*
And in which month (or season)?																										
January	17.19	0.00	19.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	18.15	0.00
February	7.84	0.00	8.82	0.00	0.00	0.00	0.00	0.00	12.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14.87	0.00	0.00	0.00	0.00	8.28	0.00
March	2.25	20.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	4.27	0.00	0.00	0.00	0.00	2.38	0.00
July	0.03	0.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.34	0.00	0.00	0.00	0.00	2.70	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00
Spring	0.39	3.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.65	0.00	0.41	0.00
Summer	3.05	26.01	0.00	69.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	32.88	0.00	0.00	0.00	69.01	23.16	0.00	0.00	0.00	0.00	11.98	0.00	3.22	0.00
Fall	0.11	0.00	0.00	30.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	30.99	10.40	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00
Winter	4.79	44.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	56.27	0.00	0.00	0.00	0.00	37.76	0.00	0.00	0.00	0.00	18.79	0.00	0.00	90.37
Don't Know	64.36	4.74	71.84	0.00	0.00	0.00	0.00	0.00	87.33	0.00	100.00	0.00	6.00	0.00	0.00	0.00	0.00	25.99	0.00	80.87	100.00	0.00	67.58	0.00	67.42	9.63
n	*16*	*8*	*6*	*2*	*0*	*0*	*0*	*0*	*4*	*0*	*1*	*0*	*7*	*0*	*1*	*1*	*2*	*5*	*0*	*3*	*1*	*1*	*6*	*0*	*12*	*4*
<MSP26_4>What type of lighting equipment was removed and replaced when you installed the T12 Fixtures (1.5in. diameter bulbs)?																										
High Performance T8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T8 fluorescent fixtures (1in. diameter b	16.25	0.00	19.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	17.58	0.00
T10 fluorescent fixtures	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T12 Fixtures (1.5in. diameter bulbs)	78.67	80.94	80.66	11.54	0.00	0.00	0.00	0.00	100.00	0.00	100.00	0.00	96.67	0.00	0.00	0.00	11.54	100.00	0.00	95.73	100.00	0.00	89.30	0.00	79.72	65.96
HID (High Intensity Discharge) Fixtures-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compact Fluorescent, Screw-in Modular	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compact Fluorescent, Hardwire	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Incandescent	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Generic LED (SCREW BASE)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Exit Signs, Compact Fluorescent	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Exit Signs, LED	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Halogen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Install Reflectors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electronic Ballast	0.36	2.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.32	0.00	0.39	0.00
Magnetic Ballast	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Time Clock	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Occupancy Sensor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Bypass/Delay Timers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Photocell	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

* Values are shown as percent of respondents weighted by kWh.
* n is the number of respondents.

	ALL	PG&E(%)	SCE(%)	SDG&E(%)	PG&E Custom Program(%)	SCE Custom Program(%)	SDG&E Custom Program(%)	PG&E Deemed Program(%)	SCE Deemed Program(%)	SDG&E Deemed Program(%)	SCE Direct Install Program(%)	SDG&E Direct Install Program(%)	PG&E LGP Program(%)	SCE LGP Program(%)	PG&E L3P Program(%)	SCE L3P Program(%)	SDG&E L3P Program(%)	CFL Basic(%)	CFL Reflector(%)	High Bay(%)	HID(%)	LF Delamp(%)	Linear(%)	Occupancy Sensor(%)	Deemed(%)	All Calculated(%)
Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fat/Thick Tubes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Skinny/Thin Tubes	0.36	2.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.32	0.00	0.39	0.00
T5 Fixtures (5/8in. diameter)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Nothing removed...new euqipment	2.13	16.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	4.27	0.00	0.00	0.00	0.00	2.30	0.00
Other -Record	2.59	0.00	0.00	88.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	88.46	0.00	0.00	0.00	0.00	0.00	9.38	0.00	0.00	34.04
Refused	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Don't Know	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	*18*	*9*	*6*	*3*	*0*	*0*	*0*	*0*	*4*	*0*	*1*	*0*	*8*	*0*	*1*	*1*	*3*	*5*	*0*	*3*	*1*	*1*	*8*	*0*	*13*	*5*
<MSP27_4> Approximately how old was this lighting equipment that you removed?																										
Less than 5 years old	6.27	4.41	6.46	7.96	0.00	0.00	0.00	0.00	9.28	0.00	0.00	0.00	4.41	0.00	0.00	0.00	7.96	49.14	0.00	0.00	0.00	0.00	20.48	0.00	6.27	6.35
Between 5 and 10 years old	16.93	65.61	11.06	3.58	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	65.61	0.00	0.00	0.00	3.58	48.16	0.00	0.00	0.00	0.00	58.34	0.00	13.34	59.61
Between 10 and 15 years old or	16.63	0.25	19.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	100.00	0.00	2.70	0.00	0.00	0.00	100.00	0.00	0.00	18.03	0.00
More than 15 years old?	18.98	29.73	15.17	88.46	0.00	0.00	0.00	0.00	21.79	0.00	0.00	0.00	29.73	0.00	0.00	0.00	88.46	0.00	0.00	15.53	100.00	0.00	21.18	0.00	17.72	34.04
Don't Know	41.18	0.00	47.98	0.00	0.00	0.00	0.00	0.00	68.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	84.47	0.00	0.00	0.00	0.00	44.65	0.00
n	*17*	*8*	*6*	*3*	*0*	*0*	*0*	*0*	*4*	*0*	*1*	*0*	*8*	*0*	*0*	*1*	*3*	*5*	*0*	*2*	*1*	*1*	*8*	*0*	*12*	*5*
<MSP28_4> How would you describe the condition of this removed equipment?																										
In Poor condition	69.75	70.27	71.84	7.96	0.00	0.00	0.00	0.00	87.33	0.00	100.00	0.00	70.27	0.00	0.00	0.00	7.96	89.60	0.00	84.47	100.00	0.00	78.82	0.00	70.07	65.96
Fair condition or	29.87	26.40	28.16	92.04	0.00	0.00	0.00	0.00	12.67	0.00	0.00	0.00	26.40	0.00	0.00	100.00	92.04	10.40	0.00	15.53	0.00	100.00	19.86	0.00	29.52	34.04
Good condition	0.37	3.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.32	0.00	0.40	0.00
n	*17*	*8*	*6*	*3*	*0*	*0*	*0*	*0*	*4*	*0*	*1*	*0*	*8*	*0*	*0*	*1*	*3*	*5*	*0*	*2*	*1*	*1*	*8*	*0*	*12*	*5*
<MSP29_4> Approximately what percentage of this removed lighting equipment was broken or working prior to installing the T10 fluorescent fixtures?																										
0	20.03	29.73	19.34	3.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	29.73	0.00	0.00	100.00	3.58	10.40	0.00	0.00	0.00	100.00	11.80	0.00	21.72	0.00
3	7.57	0.00	8.82	0.00	0.00	0.00	0.00	0.00	12.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15.53	0.00	0.00	0.00	0.00	8.21	0.00
5	3.14	4.41	0.00	88.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.41	0.00	0.00	0.00	88.46	25.99	0.00	0.00	0.00	0.00	10.19	0.00	0.00	40.39
20	0.24	0.00	0.00	7.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.96	23.16	0.00	0.00	0.00	0.00	0.00	0.00	0.26	0.00
25	5.45	0.00	6.35	0.00	0.00	0.00	0.00	0.00	9.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	5.90	0.00
100	63.58	65.86	65.49	0.00	0.00	0.00	0.00	0.00	78.21	0.00	100.00	0.00	65.86	0.00	0.00	0.00	0.00	40.46	0.00	84.47	0.00	0.00	78.02	0.00	63.91	59.61
n	*17*	*8*	*6*	*3*	*0*	*0*	*0*	*0*	*4*	*0*	*1*	*0*	*8*	*0*	*0*	*1*	*3*	*5*	*0*	*2*	*1*	*1*	*8*	*0*	*12*	*5*
<MSP2A_5> How many ...COMPACT HID (High																										
.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
<MSP2B_5> How many ...COMPACT HID (High																										
.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
<MSP4_5> I'm going to read a statement																										
.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
<MSP5_5>																										
Record Reason	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Refused	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Don't Know	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
<MSP17_5>																										
Too much paperwork	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Takes too long to get approval	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Needed equipment immediately (No time to	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Program had ended	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Equipment would Not qualify PROBE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rebate wasn't important eNough	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Didn't kNow program was available	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
No program available	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Refused	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Don't Know	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

* Values are shown as percent of respondents weighted by kWh.
* n is the number of respondents.

	ALL	PG&E(%)	SCE(%)	SDG&E(%)	PG&E Custom Program(%)	SCE Custom Program(%)	SDG&E Custom Program(%)	PG&E Deemed Program(%)	SCE Deemed Program(%)	SDG&E Deemed Program(%)	SCE Direct Install Program(%)	SDG&E Direct Install Program(%)	PG&E LGP Program(%)	SCE LGP Program(%)	PG&E L3P Program(%)	SCE L3P Program(%)	SDG&E L3P Program(%)	CFL Basic(%)	CFL Reflector(%)	High Bay(%)	HID(%)	LF Delamp(%)	Linear(%)	Occupancy Sensor(%)	Deemed(%)	All Calculated(%)
n	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
<MSP19_5> Was this measure specifically																										
.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
<MSP20_5> IF you had Not participated i																										
.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
<MSP23_5> In what year did you install																										
.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
And in which month (or season)																										
.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
<MSP25_5> Did you receive a rebate for																										
.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
<MSP26_5>																										
High Performance T8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T8 fluorescent fixtures (1in. diameter b	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T10 fluorescent fixtures	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T12 Fixtures (1.5in. diameter bulbs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HID (High Intensity Discharge) Fixtures-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compact Fluorescent, Screw-in Modular	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compact Fluorescent, Hardwire	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Incandescent	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Exit Signs, Compact Fluorescent	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Exit Signs, LED	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Halogen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Install Reflectors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electronic Ballast	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Magnetic Ballast	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Time Clock	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Occupancy Sensor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Bypass/Delay Timers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Photocell	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fat/Thick Tubes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Skinny/Thin Tubes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T5 Fixtures (5/8in. diameter)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Generic LED (SCREW BASE)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Nothing removed...new euqipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other -Record	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Refused	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Don't Know	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
<MSP27_5> Approximately how old was thi																										
.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
<MSP28_5> How would you describe the co																										
.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
<MSP29_5> Approximately what percentage																										
.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

* Values are shown as percent of respondents weighted by kWh.
* n is the number of respondents.

	ALL	PG&E(%)	SCE(%)	SDG&E(%)	PG&E Custom Program(%)	SCE Custom Program(%)	SDG&E Custom Program(%)	PG&E Deemed Program(%)	SCE Deemed Program(%)	SDG&E Deemed Program(%)	SCE Direct Install Program(%)	SDG&E Direct Install Program(%)	PG&E LGP Program(%)	SCE LGP Program(%)	PG&E L3P Program(%)	SCE L3P Program(%)	SDG&E L3P Program(%)	CFL Basic(%)	CFL Reflector(%)	High Bay(%)	HID(%)	LF Delamp(%)	Linear(%)	Occupancy Sensor(%)	Deemed(%)	All Calculated(%)
n	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
<MSP2A_6> How many SCREW-IN MODULAR CFLs did you purchase for this facility?																										
2	0.68	0.31	0.00	3.04	0.00	0.00	0.00	0.00	0.00	10.40	0.00	0.00	0.59	0.00	0.00	0.00	0.00	0.80	0.00	0.00	10.75	0.00	0.00	0.00	1.00	0.00
3	1.68	2.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.21	0.00	2.49	0.00
4	0.30	0.40	0.00	0.00	0.00	0.00	0.00	2.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.16	0.44	0.00
5	0.06	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.09	0.00
6	0.03	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00
10	35.22	36.26	73.49	0.00	0.00	0.00	0.00	2.44	78.35	0.00	0.00	0.00	67.85	0.00	0.00	0.00	0.00	0.00	38.21	0.00	0.00	100.00	66.29	0.00	52.05	0.00
12	11.27	15.24	0.00	0.00	0.00	0.00	0.00	55.07	0.00	0.00	0.00	0.00	11.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	89.25	0.00	1.52	50.60	16.65	0.00
17	1.13	1.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.07	0.00	0.00	0.00	0.00	28.16	0.00	0.00	0.00	0.00	1.68	0.00
20	1.21	0.67	0.00	4.88	0.00	0.00	0.00	3.95	0.00	3.16	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.47	61.79	0.00	0.00	0.00	1.45	0.00	1.78	0.00
25	0.41	0.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.06	0.00	0.00	0.00	0.00	1.43	0.00	0.00	0.00	0.00	0.00	0.00	0.61	0.00
29	1.78	0.00	0.00	12.17	0.00	0.00	0.00	0.00	0.00	41.61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.16	0.00	0.00	0.00	0.00	0.00	0.00	2.63	0.00
30	2.55	3.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.54	0.00	0.00	0.00	0.00	0.00	0.00	63.40	0.00	0.00	0.00	0.00	3.77	0.00
50	2.12	0.61	3.15	8.94	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.16	0.00	0.00	50.77	100.00	1.57	0.00	0.00	0.00	0.00	4.18	0.00	1.20	4.04
96	3.63	4.44	3.06	0.00	0.00	0.00	0.00	26.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	49.23	0.00	0.00	0.00	0.00	0.00	0.00	0.88	23.85	5.37	0.00
100	3.42	2.03	0.00	13.11	0.00	0.00	0.00	9.86	0.00	44.84	0.00	0.00	0.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.47	8.95	5.05	0.00
200	2.42	3.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.05	0.00	0.00	7.48
300	2.99	4.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.49	0.00	0.00	9.26
3000	17.14	23.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	76.60	0.00	0.00	59.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	53.02
Refused	0.34	0.00	2.96	0.00	0.00	0.00	0.00	0.00	3.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.44	0.00	0.00	0.00	0.00	0.50	0.00
Don't Know	11.61	1.56	17.34	57.87	0.00	0.00	100.00	0.00	18.49	0.00	0.00	0.00	2.96	0.00	0.00	0.00	0.00	30.12	0.00	0.00	0.00	0.00	2.30	14.44	4.65	26.19
n	*38*	*26*	*5*	*7*	*0*	*0*	*1*	*7*	*3*	*4*	*0*	*1*	*15*	*0*	*4*	*2*	*1*	*10*	*2*	*3*	*2*	*1*	*13*	*7*	*33*	*5*
<MSP2B_6> How many SCREW-IN MODULAR CFLs did you purchase for your other locations?																										
10	0.51	0.75	0.00	0.00	0.00	0.00	0.00	5.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	1.63	0.00
25	1.23	1.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.67	0.00	0.00	0.00	0.00	4.05	0.00	0.00	0.00	0.00	0.00	0.00	3.92	0.00
100	22.31	11.31	0.00	52.26	0.00	0.00	0.00	88.38	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	79.68	15.38	0.00	71.20	0.00
196	0.50	0.73	0.00	0.00	0.00	0.00	0.00	5.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	1.58	0.00
200	4.04	5.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.13	0.00	0.00	5.89
300	4.11	0.55	86.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.42	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	20.32	0.75	0.00	13.13	0.00
800	0.57	0.00	13.19	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	1.81	0.00
1000	22.58	33.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	85.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	45.38	0.00	0.00	32.88
6000	28.66	42.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87.63	0.00	0.00	94.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	41.73
Don't Know	15.50	3.12	0.00	47.74	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.02	0.00	0.00	0.00	100.00	1.30	0.00	0.00	0.00	0.00	30.36	0.00	6.73	19.50
n	*16*	*12*	*2*	*2*	*0*	*0*	*0*	*3*	*1*	*0*	*0*	*1*	*7*	*0*	*2*	*1*	*1*	*4*	*1*	*1*	*0*	*2*	*7*	*1*	*12*	*4*
<MSP4_6> On a scale from 0 to 10, where zero indicates you Strongly Disagree and 10 indicates you Strongly Agree, please rate the following statement. My experience with the 2010-2012 Program influenced my decision to install this high efficiency																										
1 Strongly Disagree	0.02	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00
2	19.28	28.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	50.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	39.91	0.00	31.69	0.00
3	0.08	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.13	0.00
5	10.12	14.92	0.00	0.43	0.00	0.00	0.00	0.00	0.00	3.16	0.00	0.00	26.05	0.00	0.00	0.00	0.00	0.47	0.00	0.00	0.00	0.00	20.75	0.00	0.48	25.08
6	0.25	0.00	2.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.88	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00	0.42	0.00
7	13.87	18.57	0.00	6.11	0.00	0.00	0.00	0.00	0.00	44.84	0.00	0.00	0.00	0.00	76.60	0.00	0.00	59.34	0.00	0.00	0.00	0.00	2.Refused	0.00	2.29	31.84
8	3.23	4.32	0.00	1.42	0.00	0.00	0.00	23.37	0.00	10.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	38.21	0.00	10.75	0.00	0.00	26.76	5.30	0.00
10 Strongly Agree	15.44	13.85	61.50	0.00	0.00	0.00	0.00	33.44	78.35	0.00	0.00	0.00	8.82	0.00	10.81	0.00	0.00	2.59	0.00	0.00	89.25	43.37	10.88	8.20	22.49	4.49
Zero Strongly Disagree	34.97	19.50	21.44	86.38	0.00	0.00	100.00	43.19	3.16	0.00	0.00	100.00	14.77	0.00	12.59	88.12	100.00	31.34	61.79	100.00	0.00	56.64	24.89	50.60	32.65	38.59
Don't Know	2.74	0.00	14.51	5.67	0.00	0.00	0.00	0.00	18.49	41.61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.16	0.00	0.00	0.00	0.00	0.00	14.44	4.51	0.00
n	*45*	*30*	*6*	*9*	*0*	*0*	*1*	*8*	*3*	*4*	*0*	*2*	*18*	*0*	*4*	*3*	*2*	*10*	*2*	*3*	*2*	*3*	*18*	*7*	*38*	*7*
<MSP5_6>Why do you give it this rating?																										
Record Reason	81.30	100.00	3.99	100.00	0.00	0.00	0.00	100.00	0.00	100.00	0.00	0.00	100.00	0.00	100.00	100.00	0.00	100.00	100.00	0.00	100.00	0.00	100.00	100.00	66.96	100.00
Refused	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Don't Know	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	*17*	*13*	*2*	*2*	*0*	*0*	*0*	*6*	*1*	*2*	*0*	*0*	*5*	*0*	*2*	*1*	*0*	*4*	*1*	*0*	*2*	*1*	*5*	*4*	*15*	*2*
<MSP17_6>Why did you purchase this lighting without the financial assistance available through a utility program?																										
Too much paperwork	22.52	33.52	0.00	0.00	0.00	0.00	0.00	1.74	0.00	0.00	0.00	0.00	25.54	0.00	76.60	0.00	0.00	59.34	0.00	0.00	0.00	0.00	20.34	2.16	0.36	56.92
Takes too long to get approval	13.90	20.70	0.00	0.00	0.00	0.00	0.00	4.87	0.00	0.00	0.00	0.00	0.00	0.00	81.67	0.00	0.00	59.34	0.00	28.16	0.00	0.00	0.00	6.04	2.35	31.84
Needed equipment immediately (No time to	39.97	57.71	2.48	4.16	0.00	0.00	0.00	26.83	3.16	0.00	0.00	0.00	57.54	0.00	81.67	0.00	14.04	60.26	0.00	36.60	0.00	0.00	54.30	0.00	40.06	39.83
Program had ended	0.67	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.74	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.39	0.00	1.10	0.00

* Values are shown as percent of respondents weighted by kWh.
* n is the number of respondents.

	ALL	PG&E(%)	SCE(%)	SDG&E(%)	PG&E Custom Program(%)	SCE Custom Program(%)	SDG&E Custom Program(%)	PG&E Deemed Program(%)	SCE Deemed Program(%)	SDG&E Deemed Program(%)	SCE Direct Install Program(%)	SDG&E Direct Install Program(%)	PG&E LGP Program(%)	SCE LGP Program(%)	PG&E L3P Program(%)	SCE L3P Program(%)	SDG&E L3P Program(%)	CFL Basic(%)	CFL Reflector(%)	High Bay(%)	HID(%)	LF Delamp(%)	Linear(%)	Occupancy Sensor(%)	Deemed(%)	All Calculated(%)
Equipment would Not qualify PROBE	8.00	0.00	0.00	35.00	0.00	0.00	0.00	0.00	0.00	52.01	0.00	93.81	0.00	0.00	0.00	0.00	0.00	6.16	0.00	0.00	10.75	45.13	0.00	0.00	13.15	0.00
Rebate wasn't important eNough	1.72	0.14	16.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	75.86	0.00	0.46	0.00	0.00	0.00	11.51	0.00	0.00	2.83	0.00
Didn't kNow program was available	8.65	9.78	2.64	7.95	0.00	0.00	0.00	24.48	0.00	44.84	0.00	6.19	1.41	0.00	18.33	12.26	0.00	2.37	61.79	0.00	0.00	0.00	10.58	26.76	11.32	4.49
No program available	21.16	4.15	64.05	52.46	0.00	0.00	100.00	0.00	78.35	0.00	0.00	0.00	2.67	0.00	10.81	11.88	85.96	29.31	0.00	0.00	0.00	43.37	18.36	0.00	12.19	35.09
Other	16.06	11.99	16.32	27.92	0.00	0.00	0.00	42.09	0.00	0.00	0.00	93.81	7.35	0.00	0.00	75.86	0.00	0.00	38.21	0.00	89.25	56.64	0.16	50.60	26.41	0.00
Refused	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Don't Know	3.61	3.07	14.51	0.43	0.00	0.00	0.00	0.00	18.49	3.16	0.00	0.00	5.36	0.00	0.00	0.00	0.00	1.44	0.00	63.40	0.00	0.00	0.00	14.44	5.93	0.00
n	*45*	*30*	*6*	*9*	*0*	*0*	*1*	*8*	*3*	*4*	*0*	*2*	*18*	*0*	*4*	*3*	*2*	*10*	*2*	*3*	*2*	*3*	*18*	*7*	*38*	*7*
<MSP19_6>Was this measure specifically recommended by a Program or Utility sponsored Audit, report or program technical specialist?																										
Yes	72.78	93.74	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	98.40	0.00	91.06	0.00	0.00	100.00	0.00	0.00	0.00	0.00	62.36	0.00	0.00	80.77
No	22.92	6.26	14.60	100.00	0.00	0.00	0.00	100.00	14.60	0.00	0.00	0.00	1.60	0.00	8.94	0.00	100.00	0.00	0.00	100.00	0.00	0.00	37.64	12.99	56.55	19.23
Don't Know	4.30	0.00	85.40	0.00	0.00	0.00	0.00	0.00	85.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87.01	43.45	0.00
n	*9*	*6*	*2*	*1*	*0*	*0*	*0*	*1*	*2*	*0*	*0*	*0*	*3*	*0*	*2*	*0*	*1*	*1*	*0*	*1*	*0*	*0*	*5*	*2*	*5*	*4*
<MSP20_6> IF you had not participated in the Program, how likely is it that your organization would still have implemented this measure, using a 0 to 10 scale where 0 means you Definitely Would Not have implemented this measure and 10 means you																										
3	0.95	0.00	0.00	4.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14.04	0.00	0.00	0.00	0.00	0.00	1.97	0.00	0.00	2.43
5	1.01	0.88	0.00	1.84	0.00	0.00	0.00	1.74	0.00	0.00	0.00	6.19	0.98	0.00	0.00	0.00	0.00	1.79	0.00	0.00	0.00	0.00	0.87	2.16	1.67	0.00
6	12.70	18.90	0.00	0.00	0.00	0.00	0.00	1.79	0.00	0.00	0.00	0.00	0.00	0.00	76.60	0.00	0.00	59.34	38.21	0.00	0.00	0.00	0.00	0.00	0.37	31.84
7	0.08	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.13	0.00
8	3.04	4.00	2.56	0.43	0.00	0.00	0.00	0.00	0.00	3.16	0.00	0.00	6.98	0.00	0.00	11.88	0.00	0.47	0.00	0.00	89.25	0.00	0.53	0.00	5.00	0.00
9	0.36	0.53	0.00	0.00	0.00	0.00	0.00	2.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	61.79	0.00	0.00	0.00	0.00	0.00	0.59	0.00
10 Definitely Would Have	73.69	67.49	82.93	87.90	0.00	0.00	100.00	74.34	81.51	55.23	0.00	93.81	88.51	0.00	12.59	88.12	85.96	31.44	0.00	100.00	10.75	100.00	90.52	59.55	81.71	61.24
Zero Definitely Would Not	5.43	8.08	0.00	0.00	0.00	0.00	0.00	19.24	0.00	0.00	0.00	0.00	3.33	0.00	10.81	0.00	0.00	0.80	0.00	0.00	0.00	0.00	5.95	23.85	6.03	4.49
Don't Know	2.74	0.00	14.51	5.67	0.00	0.00	0.00	0.00	18.49	41.61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.16	0.00	0.00	0.00	0.00	0.00	14.44	4.51	0.00
n	*45*	*30*	*6*	*9*	*0*	*0*	*1*	*8*	*3*	*4*	*0*	*2*	*18*	*0*	*4*	*3*	*2*	*10*	*2*	*3*	*2*	*3*	*18*	*7*	*38*	*7*
<MSP23_6> In what year did you install the SCREW-IN MODULAR CFLs?																										
2010	15.80	20.03	0.00	10.27	0.00	0.00	0.00	38.67	0.00	44.84	0.00	0.00	17.92	0.00	10.81	0.00	14.04	0.82	61.79	63.40	89.25	0.00	19.91	11.11	17.95	12.48
2011	35.51	49.45	14.51	3.69	0.00	0.00	0.00	1.79	18.49	13.55	0.00	6.19	50.16	0.00	84.12	0.00	0.00	59.91	38.21	0.00	10.75	0.00	43.31	14.44	37.87	31.84
2012	46.80	30.03	82.85	80.38	0.00	0.00	100.00	59.54	81.51	0.00	0.00	93.81	31.06	0.00	5.07	87.74	85.96	31.54	0.00	36.60	0.00	100.00	36.23	74.45	41.08	55.68
Don't Know	1.89	0.49	2.64	5.67	0.00	0.00	0.00	0.00	0.00	41.61	0.00	0.00	0.86	0.00	0.00	12.26	0.00	7.73	0.00	0.00	0.00	0.00	0.54	0.00	3.10	0.00
n	*45*	*30*	*6*	*9*	*0*	*0*	*1*	*8*	*3*	*4*	*0*	*2*	*18*	*0*	*4*	*3*	*2*	*10*	*2*	*3*	*2*	*3*	*18*	*7*	*38*	*7*
And in which month (or season)?																										
January	10.67	0.00	80.91	0.00	0.00	0.00	0.00	0.00	80.91	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	15.30	0.00
February	0.63	0.77	0.00	0.00	0.00	0.00	0.00	7.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	61.79	0.00	0.00	0.00	0.00	0.00	0.90	0.00
April	2.52	0.00	19.09	0.00	0.00	0.00	0.00	0.00	19.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	56.53	3.61	0.00
May	1.05	1.30	0.00	0.00	0.00	0.00	0.00	12.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	23.64	1.51	0.00
July	2.43	0.00	0.00	43.75	0.00	0.00	0.00	0.00	0.00	76.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.57	0.00	3.48	0.00
October	0.56	0.00	0.00	10.15	0.00	0.00	0.00	0.00	0.00	17.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.75	0.00	0.00	0.00	0.81	0.00
December	4.68	5.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	89.25	0.00	0.00	0.00	6.70	0.00
Spring	55.27	68.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	73.59	0.00	80.69	0.00	0.00	97.71	0.00	0.00	0.00	0.00	63.12	0.00	48.10	71.84
Summer	4.35	4.45	0.00	13.20	0.00	0.00	0.00	4.42	0.00	0.00	0.00	100.00	7.09	0.00	0.00	0.00	0.00	0.00	38.21	100.00	0.00	0.00	1.38	0.00	6.24	0.00
Fall	0.68	0.83	0.00	0.00	0.00	0.00	0.00	4.30	0.00	0.00	0.00	0.00	0.66	0.00	0.00	0.00	0.00	1.35	0.00	0.00	0.00	0.00	0.00	8.44	0.97	0.00
Winter	2.30	2.62	0.00	3.08	0.00	0.00	0.00	0.00	0.00	5.40	0.00	0.00	0.00	0.00	7.92	0.00	0.00	0.77	0.00	0.00	0.00	0.00	4.01	0.00	3.30	0.00
Don't Know	14.86	16.25	0.00	29.83	0.00	0.00	0.00	72.10	0.00	0.00	0.00	0.00	8.40	0.00	11.39	0.00	100.00	0.18	0.00	0.00	0.00	0.00	26.92	11.39	9.09	28.16
n	*22*	*15*	*2*	*5*	*0*	*0*	*0*	*6*	*2*	*3*	*0*	*1*	*6*	*0*	*3*	*0*	*1*	*4*	*2*	*1*	*2*	*1*	*8*	*4*	*18*	*4*
<MSP25_6> Did you receive a rebate for the SCREW-IN MODULAR CFLs?																										
Yes	1.58	1.73	0.00	1.84	0.00	0.00	0.00	7.76	0.00	0.00	0.00	6.19	0.51	0.00	0.00	0.00	0.00	0.00	61.79	0.00	0.00	0.00	1.27	6.04	2.60	0.00
No	97.98	97.62	100.00	98.16	0.00	0.00	100.00	92.24	100.00	100.00	0.00	93.81	98.34	0.00	100.00	100.00	100.00	100.00	38.21	100.00	100.00	100.00	97.81	93.96	96.67	100.00
Don't Know	0.44	0.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.73	0.00
n	*45*	*30*	*6*	*9*	*0*	*0*	*1*	*8*	*3*	*4*	*0*	*2*	*18*	*0*	*4*	*3*	*2*	*10*	*2*	*3*	*2*	*3*	*18*	*7*	*38*	*7*
<MSP26_6> What type of lighting equipment was removed and replaced when you installed the SCREW-IN MODULAR CFLs?																										
High Performance T8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T8 fluorescent fixtures (1in. diameter b	0.20	0.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.40	0.00	0.32	0.00
T10 fluorescent fixtures	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T12 Fixtures (1.5in. diameter bulbs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HID (High Intensity Discharge) Fixtures-	26.19	20.82	63.98	25.50	0.00	0.00	0.00	26.83	81.51	0.00	0.00	0.00	25.54	0.00	5.07	0.00	85.96	0.00	0.00	36.60	0.00	43.37	39.30	0.00	17.32	39.96
Compact Fluorescent, Screw-in Modular	17.85	22.60	0.00	11.67	0.00	0.00	0.00	2.35	0.00	41.61	0.00	6.19	1.72	0.00	87.41	0.00	14.04	65.60	0.00	0.00	0.00	0.00	7.81	2.91	4.39	38.76
Compact Fluorescent, Hardwire	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

* Values are shown as percent of respondents weighted by kWh.
* n is the number of respondents.

	ALL	PG&E(%)	SCE(%)	SDG&E(%)	PG&E Custom Program(%)	SCE Custom Program(%)	SDG&E Custom Program(%)	PG&E Deemed Program(%)	SCE Deemed Program(%)	SDG&E Deemed Program(%)	SCE Direct Install Program(%)	SDG&E Direct Install Program(%)	PG&E LGP Program(%)	SCE LGP Program(%)	PG&E L3P Program(%)	SCE L3P Program(%)	SDG&E L3P Program(%)	CFL Basic(%)	CFL Reflector(%)	High Bay(%)	HID(%)	LF Delamp(%)	Linear(%)	Occupancy Sensor(%)	Deemed(%)	All Calculated(%)
Incandescent	16.81	17.45	36.02	6.54	0.00	0.00	0.00	70.83	18.49	47.99	0.00	0.00	7.61	0.00	0.00	100.00	0.00	4.12	100.00	63.40	0.00	11.51	4.46	97.09	27.63	0.00
Exit Signs, Compact Fluorescent	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Exit Signs, LED	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Halogen	3.01	4.00	0.00	1.42	0.00	0.00	0.00	0.00	0.00	10.40	0.00	0.00	6.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	4.95	0.00
Install Reflectors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electronic Ballast	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Magnetic Ballast	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Time Clock	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Occupancy Sensor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Bypass/Delay Timers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Photocell	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fat/Thick Tubes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Skinny/Thin Tubes	0.20	0.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00	0.00	0.00	0.00	0.97	0.00	0.00	0.00	0.00	0.00	0.00	0.34	0.00
T5 Fixtures (5/8in. diameter)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Generic LED (SCREW BASE)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Nothing removed...new euqipment	35.94	34.82	0.00	54.88	0.00	0.00	100.00	0.00	0.00	0.00	0.00	93.81	57.62	0.00	7.52	0.00	0.00	29.31	0.00	0.00	0.00	45.13	48.43	0.00	45.37	21.28
Other -Record	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Refused	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Don't Know	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	*45*	*30*	*6*	*9*	*0*	*0*	*1*	*8*	*3*	*4*	*0*	*2*	*18*	*0*	*4*	*3*	*2*	*10*	*2*	*3*	*2*	*3*	*18*	*7*	*38*	*7*
<MSP27_6> Approximately how old was this lighting equipment that you removed?																										
Less than 5 years old	33.21	43.33	2.64	19.78	0.00	0.00	0.00	11.29	0.00	52.01	0.00	100.00	96.95	0.00	11.69	12.26	0.00	15.40	100.00	63.40	100.00	0.00	51.04	8.20	29.15	37.57
Between 5 and 10 years old	45.10	45.82	64.05	23.71	0.00	0.00	0.00	59.54	78.35	47.99	0.00	0.00	1.20	0.00	82.83	11.88	14.04	84.60	0.00	0.00	0.00	79.03	11.23	73.82	46.55	43.53
Between 10 and 15 years old or	6.74	9.87	0.00	0.00	0.00	0.00	0.00	26.83	0.00	0.00	0.00	0.00	1.00	0.00	5.48	0.00	0.00	0.00	0.00	28.16	0.00	0.00	14.03	0.00	13.00	0.00
More than 15 years old?	14.40	0.18	33.31	56.51	0.00	0.00	0.00	0.00	21.65	0.00	0.00	0.00	0.47	0.00	0.00	75.86	85.96	0.00	0.00	8.44	0.00	20.97	23.70	14.44	10.23	18.90
Don't Know	0.55	0.81	0.00	0.00	0.00	0.00	0.00	2.35	0.00	0.00	0.00	0.00	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.54	1.07	0.00
n	*38*	*25*	*6*	*7*	*0*	*0*	*0*	*8*	*3*	*4*	*0*	*1*	*14*	*0*	*3*	*3*	*2*	*9*	*2*	*3*	*2*	*2*	*13*	*7*	*33*	*5*
<MSP28_6> How would you describe the condition of this removed equipment?																										
In Poor condition	48.77	39.55	64.05	73.15	0.00	0.00	0.00	42.09	78.35	41.61	0.00	100.00	63.33	0.00	11.69	11.88	85.96	11.66	38.21	0.00	0.00	79.03	72.62	50.60	41.62	56.47
Fair condition or	46.73	55.77	30.83	23.71	0.00	0.00	0.00	50.70	18.49	47.99	0.00	0.00	34.64	0.00	82.83	75.86	14.04	86.12	61.79	63.40	89.25	20.97	26.32	40.45	49.70	43.53
Good condition	4.50	4.68	5.12	3.14	0.00	0.00	0.00	7.22	3.16	10.40	0.00	0.00	2.02	0.00	5.48	12.26	0.00	2.22	0.00	36.60	10.75	0.00	1.06	8.95	8.68	0.00
n	*38*	*25*	*6*	*7*	*0*	*0*	*0*	*8*	*3*	*4*	*0*	*1*	*14*	*0*	*3*	*3*	*2*	*9*	*2*	*3*	*2*	*2*	*13*	*7*	*33*	*5*
<MSP29_6> Approximately what percentage of this removed lighting equiment was broken or not working prior to installing the SCREW-IN MODULAR CFLs?																										
0	11.53	10.66	14.51	12.37	0.00	0.00	0.00	26.46	18.49	10.40	0.00	0.00	3.41	0.00	5.48	0.00	14.04	2.22	0.00	28.16	10.75	0.00	4.47	47.87	19.37	3.09
2	1.00	1.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.91	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.56	0.00	1.92	0.00
5	20.27	29.06	2.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.53	0.00	82.83	12.26	0.00	85.09	0.00	0.00	0.00	0.00	1.36	0.00	1.54	40.45
8	7.81	11.43	0.00	0.00	0.00	0.00	0.00	40.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	49.97	15.06	0.00
10	3.70	1.47	16.32	0.95	0.00	0.00	0.00	3.53	0.00	3.16	0.00	0.00	1.25	0.00	0.00	75.86	0.00	2.04	38.21	0.00	0.00	20.97	0.00	2.16	7.13	0.00
20	15.90	23.27	0.00	0.00	0.00	0.00	0.00	2.89	0.00	0.00	0.00	0.00	60.27	0.00	0.00	0.00	0.00	0.00	61.79	0.00	0.00	0.00	39.45	0.00	1.08	31.87
25	2.18	0.00	0.00	13.53	0.00	0.00	0.00	0.00	0.00	44.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.60	0.00	4.20	0.00
30	4.19	6.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	89.25	0.00	0.00	0.00	8.09	0.00
50	3.56	4.24	0.00	4.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	11.39	0.00	0.00	0.00	0.00	0.00	0.00	63.40	0.00	0.00	1.69	0.00	6.86	0.00
70	5.20	7.61	0.00	0.00	0.00	0.00	0.00	26.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.37	0.00	10.03	0.00
80	9.72	0.22	61.50	0.00	0.00	0.00	0.00	0.00	78.35	0.00	0.00	0.00	0.59	0.00	0.00	0.00	0.00	0.65	0.00	0.00	0.00	79.03	0.00	0.00	18.74	0.00
100	14.95	4.46	5.04	69.07	0.00	0.00	0.00	0.00	3.16	41.61	0.00	0.00	1.17	0.00	11.69	11.88	85.96	10.00	0.00	8.44	0.00	0.00	31.48	0.00	5.98	24.60
n	*38*	*25*	*6*	*7*	*0*	*0*	*0*	*8*	*3*	*4*	*0*	*1*	*14*	*0*	*3*	*3*	*2*	*9*	*2*	*3*	*2*	*2*	*13*	*7*	*33*	*5*
<CFL1A> Where did you purchase the CFLs that were installed OUTSIDE the Program? [ACCEPT MULTIPLES]																										
Home Depot	29.70	16.67	83.01	44.74	0.00	0.00	100.00	26.46	78.35	100.00	0.00	0.00	12.81	0.00	18.33	100.00	14.04	35.93	0.00	0.00	100.00	54.87	16.62	33.43	30.66	28.21
Costco	9.97	2.62	16.32	28.80	0.00	0.00	100.00	0.00	0.00	0.00	0.00	6.19	0.00	0.00	10.81	75.86	0.00	29.31	0.00	0.00	0.00	11.51	4.52	0.00	3.37	20.22
Orchard Spply Hdwr	12.47	18.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	76.60	0.00	0.00	59.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	31.84
ACE Hardware	3.88	5.77	0.00	0.00	0.00	0.00	0.00	26.83	0.00	0.00	0.00	0.00	1.42	0.00	0.00	0.00	0.00	2.59	0.00	0.00	0.00	0.00	6.90	0.00	6.37	0.00
Lowe's	2.05	0.00	16.32	1.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.19	0.00	0.00	0.00	75.86	0.00	0.00	0.00	0.00	0.00	11.51	0.87	0.00	3.37	0.00
SaveMart	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
K-Mart	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sam's Club	1.76	2.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.64	0.00	0.00	4.49
Smart & Final	1.63	0.00	16.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	75.86	0.00	0.00	0.00	0.00	0.00	11.51	0.00	0.00	2.68	0.00
Yardbirds Hm Ctr	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FRY's Elect	1.63	0.00	16.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	75.86	0.00	0.00	0.00	0.00	0.00	11.51	0.00	0.00	2.68	0.00
True Value	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

* Values are shown as percent of respondents weighted by kWh.
* n is the number of respondents.

	ALL	PG&E(%)	SCE(%)	SDG&E(%)	PG&E Custom Program(%)	SCE Custom Program(%)	SDG&E Custom Program(%)	PG&E Deemed Program(%)	SCE Deemed Program(%)	SDG&E Deemed Program(%)	SCE Direct Install Program(%)	SDG&E Direct Install Program(%)	PG&E LGP Program(%)	SCE LGP Program(%)	PG&E L3P Program(%)	SCE L3P Program(%)	SDG&E L3P Program(%)	CFL Basic(%)	CFL Reflector(%)	High Bay(%)	HID(%)	LF Delamp(%)	Linear(%)	Occupancy Sensor(%)	Deemed(%)	All Calculated(%)
Contractor Installed them	0.26	0.00	2.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.26	0.00	0.00	0.00	0.00	0.00	0.00	0.54	0.00	0.43	0.00
Other	1.10	1.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.85	0.00	0.00	0.00	0.00	3.11	0.00	0.00	0.00	0.00	0.92	0.00	1.80	0.00
Refused	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Don't Know	29.04	31.58	14.51	27.92	0.00	0.00	0.00	0.00	18.49	0.00	0.00	93.81	55.13	0.00	0.00	0.00	0.00	0.00	0.00	63.40	0.00	45.13	40.07	14.44	47.74	0.00
n	*45*	*30*	*6*	*9*	*0*	*0*	*1*	*8*	*3*	*4*	*0*	*2*	*18*	*0*	*4*	*3*	*2*	*10*	*2*	*3*	*2*	*3*	*18*	*7*	*38*	*7*
<CFL3A>Were all of these CFLs installed or were some put into storage for later use?																										
All installed	49.80	40.89	0.00	97.73	0.00	0.00	100.00	74.89	0.00	96.84	0.00	93.81	9.47	0.00	89.19	0.00	100.00	97.04	61.79	28.16	100.00	45.13	27.37	56.01	40.10	64.86
All in storage	1.63	0.00	16.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	75.86	0.00	0.00	0.00	0.00	0.00	11.51	0.00	0.00	2.68	0.00
Some installed, some in storage	27.85	30.42	69.17	2.27	0.00	0.00	0.00	25.11	81.51	3.16	0.00	6.19	40.43	0.00	10.81	24.14	0.00	2.96	38.21	71.84	0.00	43.37	32.73	29.55	23.15	35.14
Don't Know	20.72	28.70	14.51	0.00	0.00	0.00	0.00	0.00	18.49	0.00	0.00	0.00	50.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	39.91	14.44	34.07	0.00
n	*45*	*30*	*6*	*9*	*0*	*0*	*1*	*8*	*3*	*4*	*0*	*2*	*18*	*0*	*4*	*3*	*2*	*10*	*2*	*3*	*2*	*3*	*18*	*7*	*38*	*7*
CFL4new About what percentage were installed?																										
.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
<CFL5> Why were they put in storage?																										
Record Reason PUT INTO STORAGE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Refused	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Don't Know	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	*23*	*16*	*5*	*2*	*0*	*0*	*0*	*4*	*2*	*1*	*0*	*1*	*11*	*0*	*1*	*3*	*0*	*4*	*1*	*2*	*0*	*2*	*10*	*4*	*20*	*3*
<MSP2A_7> How many Hardwired CFL Fixtures did you purchase for this facility?																										
4	79.45	0.00	0.00	82.10	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	100.00
6	17.33	0.00	0.00	17.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	84.30	0.00	0.00	0.00	0.00	0.00	0.00	84.30	0.00
10	3.23	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	15.70	0.00	0.00	0.00	0.00	0.00	0.00	15.70	0.00
n	*3*	*1*	*0*	*2*	*0*	*0*	*1*	*0*	*0*	*0*	*0*	*0*	*1*	*0*	*0*	*0*	*1*	*2*	*0*	*0*	*0*	*0*	*1*	*0*	*2*	*1*
<MSP2B_7> How many Hardwired CFL Fixtures did you purchase for your other locations?																										
100	52.26	0.00	0.00	52.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	100.00	0.00
Don't Know	47.74	0.00	0.00	47.74	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	100.00
n	*2*	*0*	*0*	*2*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*1*	*0*	*0*	*0*	*0*	*1*	*0*	*0*	*0*	*0*	*1*	*1*	*0*	*1*	*1*
<MSP4_7>On a scale from 0 to 10, where zero indicates you Strongly Disagree and 10 indicates you Strongly Agree, please rate the following statement. My experience with the 2010-2012 Program influenced my decision to install this high efficiency																										
8	0.79	100.00	0.00	0.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	1.43	100.00	0.00	0.00	0.00	0.00	0.00	0.00	1.55	0.00
Zero Strongly Disagree	99.21	0.00	0.00	99.33	0.00	0.00	100.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	98.57	0.00	0.00	0.00	0.00	100.00	100.00	0.00	98.45	100.00
n	*5*	*1*	*0*	*4*	*0*	*0*	*1*	*0*	*0*	*0*	*0*	*1*	*1*	*0*	*0*	*0*	*2*	*2*	*0*	*0*	*0*	*1*	*2*	*0*	*3*	*2*
<MSP5_7>Why do you give it this rating?																										
Record Reason	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Refused	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Don't Know	84.30	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	84.30	0.00	0.00	0.00	0.00	0.00	0.00	84.30	0.00
n	*2*	*1*	*0*	*1*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*1*	*0*	*0*	*0*	*1*	*2*	*0*	*0*	*0*	*0*	*0*	*0*	*2*	*0*
<MSP17_7>Why did you purchase this lighting without the financial assistance available through a utility program?																										
Too much paperwork	3.05	0.00	0.00	3.05	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.23	0.00	0.00	6.23
Takes too long to get approval	3.05	0.00	0.00	3.05	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.23	0.00	0.00	6.23
Needed equipment immediately (No time to	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Program had ended	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Equipment would Not qualify PROBE	50.26	0.00	0.00	50.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	98.45	0.00
Rebate wasn't important eNough	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Didn't kNow program was available	0.12	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	15.70	0.00	0.00	0.00	0.00	0.00	0.00	0.24	0.00
No program available	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other	96.82	0.00	0.00	96.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	100.00	84.30	0.00	0.00	0.00	100.00	93.77	0.00	99.76	93.77
Refused	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Don't Know	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	*5*	*1*	*0*	*4*	*0*	*0*	*1*	*0*	*0*	*0*	*0*	*1*	*1*	*0*	*0*	*0*	*2*	*2*	*0*	*0*	*0*	*1*	*2*	*0*	*3*	*2*
<MSP19_7> Was this measure specifically recommended by a Program or Utility sponsored Audit, report or program technical specialist?																										
No	100.00	100.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	100.00	100.00	0.00	0.00	0.00	0.00	100.00	0.00	100.00	100.00
n	*2*	*1*	*0*	*1*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*1*	*0*	*0*	*0*	*1*	*1*	*0*	*0*	*0*	*0*	*1*	*0*	*1*	*1*

* Values are shown as percent of respondents weighted by kWh.
* n is the number of respondents.

	ALL	PG&E(%)	SCE(%)	SDG&E(%)	PG&E Custom Program(%)	SCE Custom Program(%)	SDG&E Custom Program(%)	PG&E Deemed Program(%)	SCE Deemed Program(%)	SDG&E Deemed Program(%)	SCE Direct Install Program(%)	SDG&E Direct Install Program(%)	PG&E LGP Program(%)	SCE LGP Program(%)	PG&E L3P Program(%)	SCE L3P Program(%)	SDG&E L3P Program(%)	CFL Basic(%)	CFL Reflector(%)	High Bay(%)	HID(%)	LF Delamp(%)	Linear(%)	Occupancy Sensor(%)	Deemed(%)	All Calculated(%)
<MSP20_7> IF you had not participated in the Program, how likely is it that your organization would still have implemented this measure, using a 0 to 10 scale where 0 means you Definitely Would Not have implemented this measure and 10 means you																										
6	0.12	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	15.70	0.00	0.00	0.00	0.00	0.00	0.00	0.24	0.00
10 Definitely Would Have	99.21	0.00	0.00	99.33	0.00	0.00	100.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	98.57	0.00	0.00	0.00	0.00	100.00	100.00	0.00	98.45	100.00
Don't Know	0.67	0.00	0.00	0.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.43	84.30	0.00	0.00	0.00	0.00	0.00	0.00	1.30	0.00
n	*5*	*1*	*0*	*4*	*0*	*0*	*1*	*0*	*0*	*0*	*0*	*1*	*1*	*0*	*0*	*0*	*2*	*2*	*0*	*0*	*0*	*1*	*2*	*0*	*3*	*2*
<MSP23_7> In what year did you install the Hardwired CFL Fixtures?																										
2012	100.00	100.00	0.00	100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	100.00	100.00	0.00	0.00	0.00	100.00	100.00	0.00	0.00	0.00	100.00	100.00	0.00	100.00	100.00
n	*5*	*1*	*0*	*4*	*0*	*0*	*1*	*0*	*0*	*0*	*0*	*1*	*1*	*0*	*0*	*0*	*2*	*2*	*0*	*0*	*0*	*1*	*2*	*0*	*3*	*2*
And in which month (or season)?																										
Winter	100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00
n	*1*	*0*	*0*	*1*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*1*	*1*	*0*	*0*	*0*	*0*	*0*	*0*	*1*	*0*
<MSP25_7>Did you receive a rebate for the Hardwired CFL Fixtures?																										
Yes	0.12	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	15.70	0.00	0.00	0.00	0.00	0.00	0.00	0.24	0.00
No	99.88	0.00	0.00	100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	100.00	84.30	0.00	0.00	0.00	100.00	100.00	0.00	99.76	100.00
n	*5*	*1*	*0*	*4*	*0*	*0*	*1*	*0*	*0*	*0*	*0*	*1*	*1*	*0*	*0*	*0*	*2*	*2*	*0*	*0*	*0*	*1*	*2*	*0*	*3*	*2*
<MSP26_7>What type of lighting equipment was removed and replaced when you installed the Hardwired CFL Fixtures?																										
High Performance T8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T8 fluorescent fixtures (1in. diameter b	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T10 fluorescent fixtures	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T12 Fixtures (1.5in. diameter bulbs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HID (High Intensity Discharge) Fixtures-	45.90	0.00	0.00	45.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	98.57	0.00	0.00	0.00	0.00	0.00	93.77	0.00	0.00	93.77
Compact Fluorescent, Screw-in Modular	0.12	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	15.70	0.00	0.00	0.00	0.00	0.00	0.00	0.24	0.00
Compact Fluorescent, Hardwire	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Incandescent	0.67	0.00	0.00	0.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.43	84.30	0.00	0.00	0.00	0.00	0.00	0.00	1.30	0.00
Exit Signs, Compact Fluorescent	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Exit Signs, LED	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Halogen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Install Reflectors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electronic Ballast	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Magnetic Ballast	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Time Clock	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Occupancy Sensor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Bypass/Delay Timers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Photocell	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fat/Thick Tubes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Skinny/Thin Tubes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T5 Fixtures (5/8in. diameter)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Generic LED (SCREW BASE)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Nothing removed...new euqipment	53.31	0.00	0.00	53.37	0.00	0.00	100.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	6.23	0.00	98.45	6.23
Other -Record	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Refused	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Don't Know	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	*5*	*1*	*0*	*4*	*0*	*0*	*1*	*0*	*0*	*0*	*0*	*1*	*1*	*0*	*0*	*0*	*2*	*2*	*0*	*0*	*0*	*1*	*2*	*0*	*3*	*2*
<MSP27_7> Approximately how old was this lighting equipment that you removed?																										
Less than 5 years old	0.27	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	15.70	0.00	0.00	0.00	0.00	0.00	0.00	15.70	0.00
Between 5 and 10 years old	1.43	0.00	0.00	1.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.43	84.30	0.00	0.00	0.00	0.00	0.00	0.00	84.30	0.00
More than 15 years old?	98.31	0.00	0.00	98.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	98.57	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	100.00
n	*3*	*1*	*0*	*2*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*1*	*0*	*0*	*0*	*2*	*2*	*0*	*0*	*0*	*0*	*1*	*0*	*2*	*1*
<MSP28_7> How would you describe the condition of this removed equipment?																										
In Poor condition	99.73	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	84.30	0.00	0.00	0.00	0.00	100.00	0.00	84.30	100.00
Fair condition or	0.27	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	15.70	0.00	0.00	0.00	0.00	0.00	0.00	15.70	0.00
n	*3*	*1*	*0*	*2*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*1*	*0*	*0*	*0*	*2*	*2*	*0*	*0*	*0*	*0*	*1*	*0*	*2*	*1*
<MSP29_7> Approximately what percentage of this removed lighting equiment was broken or not working prior to installing the Hardwired CFL Fixtures?																										
15	0.27	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	15.70	0.00	0.00	0.00	0.00	0.00	0.00	15.70	0.00

* Values are shown as percent of respondents weighted by kWh.
* n is the number of respondents.

	ALL	PG&E(%)	SCE(%)	SDG&E(%)	PG&E Custom Program(%)	SCE Custom Program(%)	SDG&E Custom Program(%)	PG&E Deemed Program(%)	SCE Deemed Program(%)	SDG&E Deemed Program(%)	SCE Direct Install Program(%)	SDG&E Direct Install Program(%)	PG&E LGP Program(%)	SCE LGP Program(%)	PG&E L3P Program(%)	SCE L3P Program(%)	SDG&E L3P Program(%)	CFL Basic(%)	CFL Reflector(%)	High Bay(%)	HID(%)	LF Delamp(%)	Linear(%)	Occupancy Sensor(%)	Deemed(%)	All Calculated(%)
60	1.43	0.00	0.00	1.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.43	84.30	0.00	0.00	0.00	0.00	0.00	0.00	84.30	0.00
100	98.31	0.00	0.00	98.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	98.57	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	100.00
n	*3*	*1*	*0*	*2*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*1*	*0*	*0*	*0*	*2*	*2*	*0*	*0*	*0*	*0*	*1*	*0*	*2*	*1*
<MSP2A_9> How many ...COMPACT FLUORESCE																										
.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
<MSP2B_9> How many ...COMPACT FLUORESCE																										
.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
<MSP4_9> I'm going to read a statement																										
.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
<MSP5_9>																										
Record Reason	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Refused	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Don't Know	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
<MSP17_9>																										
Too much paperwork	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Takes too long to get approval	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Needed equipment immediately (No time to	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Program had ended	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Equipment would Not qualify PROBE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rebate wasn't important eNough	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Didn't kNow program was available	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
No program available	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Refused	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Don't Know	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
<MSP19_9> Was this measure specifically																										
.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
<MSP20_9> IF you had Not participated i																										
.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
<MSP23_9> In what year did you install																										
.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
And in which month (or season)																										
.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
<MSP25_9> Did you receive a rebate for																										
.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
<MSP26_9>																										
High Performance T8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T8 fluorescent fixtures (1in. diameter b	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T10 fluorescent fixtures	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T12 Fixtures (1.5in. diameter bulbs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HID (High Intensity Discharge) Fixtures-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

* Values are shown as percent of respondents weighted by kWh.
* n is the number of respondents.

	ALL	PG&E(%)	SCE(%)	SDG&E(%)	PG&E Custom Program(%)	SCE Custom Program(%)	SDG&E Custom Program(%)	PG&E Deemed Program(%)	SCE Deemed Program(%)	SDG&E Deemed Program(%)	SCE Direct Install Program(%)	SDG&E Direct Install Program(%)	PG&E LGP Program(%)	SCE LGP Program(%)	PG&E L3P Program(%)	SCE L3P Program(%)	SDG&E L3P Program(%)	CFL Basic(%)	CFL Reflector(%)	High Bay(%)	HID(%)	LF Delamp(%)	Linear(%)	Occupancy Sensor(%)	Deemed(%)	All Calculated(%)
Compact Fluorescent, Screw-in Modular	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compact Fluorescent, Hardwire	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Incandescent	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Exit Signs, Compact Fluorescent	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Exit Signs, LED	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Halogen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Install Reflectors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electronic Ballast	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Magnetic Ballast	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Time Clock	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Occupancy Sensor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Bypass/Delay Timers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Photocell	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fat/Thick Tubes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Skinny/Thin Tubes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T5 Fixtures (5/8in. diameter)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Generic LED (SCREW BASE)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Nothing removed...new euqipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other -Record	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Refused	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Don't Know	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
<MSP27_9> Approximately how old was thi																										
.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
<MSP28_9> How would you describe the co																										
.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
<MSP29_9> Approximately what percentage																										
.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
<MSP2A_10> How many ...LED Exit Signs..																										
.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
<MSP2B_10> How many ...LED Exit Signs..																										
.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
<MSP4_10> I'm going to read a statemen																										
.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
<MSP5_10>																										
Record Reason	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Refused	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Don't Know	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
<MSP17_10>																										
Too much paperwork	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Takes too long to get approval	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Needed equipment immediately (No time to	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Program had ended	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Equipment would Not qualify PROBE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rebate wasn't important eNough	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Didn't kNow program was available	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
No program available	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

* Values are shown as percent of respondents weighted by kWh.
* n is the number of respondents.

	ALL	PG&E(%)	SCE(%)	SDG&E(%)	PG&E Custom Program(%)	SCE Custom Program(%)	SDG&E Custom Program(%)	PG&E Deemed Program(%)	SCE Deemed Program(%)	SDG&E Deemed Program(%)	SCE Direct Install Program(%)	SDG&E Direct Install Program(%)	PG&E LGP Program(%)	SCE LGP Program(%)	PG&E L3P Program(%)	SCE L3P Program(%)	SDG&E L3P Program(%)	CFL Basic(%)	CFL Reflector(%)	High Bay(%)	HID(%)	LF Delamp(%)	Linear(%)	Occupancy Sensor(%)	Deemed(%)	All Calculated(%)
Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Refused	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Don't Know	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
<MSP19_10> Was this measure specificall																										
.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
<MSP20_10> IF you had Not participated																										
.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
<MSP23_10> In what year did you install																										
.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
And in which month (or season)																										
.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
<MSP25_10> Did you receive a rebate for																										
.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
<MSP26_10>																										
High Performance T8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T8 fluorescent fixtures (1in. diameter b	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T10 fluorescent fixtures	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T12 Fixtures (1.5in. diameter bulbs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HID (High Intensity Discharge) Fixtures-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compact Fluorescent, Screw-in Modular	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compact Fluorescent, Hardwire	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Incandescent	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Exit Signs, Compact Fluorescent	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Exit Signs, LED	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Halogen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Install Reflectors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electronic Ballast	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Magnetic Ballast	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Time Clock	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Occupancy Sensor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Bypass/Delay Timers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Photocell	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fat/Thick Tubes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Skinny/Thin Tubes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T5 Fixtures (5/8in. diameter)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Generic LED (SCREW BASE)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Nothing removed...new euqipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other -Record	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Refused	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Don't Know	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
<MSP27_10> Approximately how old was th																										
.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
<MSP28_10> How would you describe the c																										
.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*

* Values are shown as percent of respondents weighted by kWh.
* n is the number of respondents.

	ALL	PG&E(%)	SCE(%)	SDG&E(%)	PG&E Custom Program(%)	SCE Custom Program(%)	SDG&E Custom Program(%)	PG&E Deemed Program(%)	SCE Deemed Program(%)	SDG&E Deemed Program(%)	SCE Direct Install Program(%)	SDG&E Direct Install Program(%)	PG&E LGP Program(%)	SCE LGP Program(%)	PG&E L3P Program(%)	SCE L3P Program(%)	SDG&E L3P Program(%)	CFL Basic(%)	CFL Reflector(%)	High Bay(%)	HID(%)	LF Delamp(%)	Linear(%)	Occupancy Sensor(%)	Deemed(%)	All Calculated(%)
<MSP29_10> Approximately what percentag																										
.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
<MSP23_11> In what year did you install																										
.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
And in which month (or season)																										
.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
<MSP26_11>																										
High Performance T8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T8 fluorescent fixtures (1in. diameter b	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T10 fluorescent fixtures	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T12 Fixtures (1.5in. diameter bulbs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HID (High Intensity Discharge) Fixtures-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compact Fluorescent, Screw-in Modular	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compact Fluorescent, Hardwire	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Incandescent	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Generic LED (SCREW BASE)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Exit Signs, Compact Fluorescent	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Exit Signs, LED	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Halogen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Install Reflectors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electronic Ballast	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Magnetic Ballast	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Time Clock	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Occupancy Sensor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Bypass/Delay Timers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Photocell	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fat/Thick Tubes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Skinny/Thin Tubes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T5 Fixtures (5/8in. diameter)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Nothing removed...new euqipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other -Record	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Refused	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Don't Know	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
<MSP27_11> Approximately how old was th																										
.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
<MSP28_11> How would you describe the c																										
.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
<MSP29_11> Approximately what percentag																										
.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
<MSP2A_12> How many ...REFLECTORS... di																										
.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
<MSP2B_12> How many ...REFLECTORS... di																										
.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*

* Values are shown as percent of respondents weighted by kWh.
* n is the number of respondents.

	ALL	PG&E(%)	SCE(%)	SDG&E(%)	PG&E Custom Program(%)	SCE Custom Program(%)	SDG&E Custom Program(%)	PG&E Deemed Program(%)	SCE Deemed Program(%)	SDG&E Deemed Program(%)	SCE Direct Install Program(%)	SDG&E Direct Install Program(%)	PG&E LGP Program(%)	SCE LGP Program(%)	PG&E L3P Program(%)	SCE L3P Program(%)	SDG&E L3P Program(%)	CFL Basic(%)	CFL Reflector(%)	High Bay(%)	HID(%)	LF Delamp(%)	Linear(%)	Occupancy Sensor(%)	Deemed(%)	All Calculated(%)
<MSP4_12> I'm going to read a statemen																										
.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
<MSP5_12>																										
Record Reason	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Refused	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Don't Know	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
<MSP17_12>																										
Too much paperwork	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Takes too long to get approval	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Needed equipment immediately (No time to	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Program had ended	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Equipment would Not qualify PROBE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rebate wasn't important eNough	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Didn't kNow program was available	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
No program available	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Refused	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Don't Know	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
<MSP19_12> Was this measure specificall																										
.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
<MSP20_12> IF you had Not participated																										
.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
<MSP23_12> In what year did you install																										
.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
And in which month (or season)																										
.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
<MSP25_12> Did you receive a rebate for																										
.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
<MSP26_12>																										
High Performance T8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T8 fluorescent fixtures (1in. diameter b	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T10 fluorescent fixtures	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T12 Fixtures (1.5in. diameter bulbs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HID (High Intensity Discharge) Fixtures-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compact Fluorescent, Screw-in Modular	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compact Fluorescent, Hardwire	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Incandescent	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Exit Signs, Compact Fluorescent	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Exit Signs, LED	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Halogen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Install Reflectors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electronic Ballast	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Magnetic Ballast	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Time Clock	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Occupancy Sensor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Bypass/Delay Timers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Photocell	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

* Values are shown as percent of respondents weighted by kWh.
* n is the number of respondents.

	ALL	PG&E(%)	SCE(%)	SDG&E(%)	PG&E Custom Program(%)	SCE Custom Program(%)	SDG&E Custom Program(%)	PG&E Deemed Program(%)	SCE Deemed Program(%)	SDG&E Deemed Program(%)	SCE Direct Install Program(%)	SDG&E Direct Install Program(%)	PG&E LGP Program(%)	SCE LGP Program(%)	PG&E L3P Program(%)	SCE L3P Program(%)	SDG&E L3P Program(%)	CFL Basic(%)	CFL Reflector(%)	High Bay(%)	HID(%)	LF Delamp(%)	Linear(%)	Occupancy Sensor(%)	Deemed(%)	All Calculated(%)
Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fat/Thick Tubes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Skinny/Thin Tubes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T5 Fixtures (5/8in. diameter)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Generic LED (SCREW BASE)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Nothing removed...new euqipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other -Record	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Refused	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Don't Know	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
<MSP27_12> Approximately how old was th																										
.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
<MSP28_12> How would you describe the c																										
.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
<MSP29_12> Approximately what percentag																										
.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
<MSP23_13> In what year did you install the ELECTRONIC BALLAST?																										
2010	8.18	0.78	27.95	0.00	0.00	0.00	0.00	5.58	28.73	0.00	17.25	0.00	1.72	0.00	0.00	0.00	0.00	17.69	0.00	69.79	0.00	0.00	0.49	3.64	19.74	0.00
2011	27.03	31.52	5.60	65.47	0.00	0.00	0.00	94.42	0.00	100.00	82.75	10.80	89.99	0.00	0.00	0.00	96.23	0.00	0.00	30.21	100.00	0.00	24.82	96.36	26.22	27.60
2012	58.51	67.69	48.01	18.57	100.00	0.00	0.00	0.00	51.49	0.00	0.00	46.00	8.29	0.00	0.00	0.00	3.77	82.31	0.00	0.00	0.00	100.00	65.57	0.00	38.86	72.40
2013	5.06	0.00	18.44	0.00	0.00	0.00	0.00	0.00	19.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.34	0.00	12.22	0.00
Don't Know	1.23	0.00	0.00	15.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	43.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.78	0.00	2.97	0.00
n	*24*	*10*	*6*	*8*	*1*	*0*	*0*	*2*	*4*	*1*	*2*	*4*	*7*	*0*	*0*	*0*	*3*	*2*	*0*	*3*	*1*	*1*	*14*	*3*	*19*	*5*
And in which month (or season)?																										
January	5.69	0.00	0.00	52.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	97.24	0.00	0.00	0.00	0.00	0.00	12.94	0.00	0.00	18.58
March	0.64	1.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.45	0.00	0.92	0.00
September	0.61	0.00	1.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.25	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.87	0.00
December	3.12	7.86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	34.80	4.50	0.00
Spring	7.55	11.16	0.00	28.58	0.00	0.00	0.00	5.58	0.00	100.00	0.00	0.00	12.13	0.00	0.00	0.00	0.00	0.00	0.00	15.63	100.00	0.00	0.00	3.64	10.88	0.00
Summer	19.23	16.96	25.29	0.00	0.00	0.00	0.00	94.42	20.89	0.00	82.75	0.00	3.58	0.00	0.00	0.00	0.00	0.00	0.00	14.59	0.00	0.00	24.54	61.56	27.72	0.00
Fall	24.78	62.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	73.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	56.31	0.00	0.00	80.89
Don't Know	38.39	0.00	73.48	19.24	0.00	0.00	0.00	0.00	79.11	0.00	0.00	100.00	0.00	0.00	0.00	0.00	2.76	0.00	0.00	69.79	0.00	100.00	4.77	0.00	55.11	0.53
n	*17*	*7*	*5*	*5*	*0*	*0*	*0*	*2*	*3*	*1*	*2*	*2*	*5*	*0*	*0*	*0*	*2*	*1*	*0*	*3*	*1*	*1*	*8*	*3*	*14*	*3*
<MSP26_13>What type of lighting equipment was removed and replaced when you installed the Electronic Ballast?																										
High Performance T8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T8 fluorescent fixtures (1in. diameter b	0.12	0.00	0.00	1.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.77	0.00	0.00	0.00	0.00	0.00	0.18	0.00	0.00	0.21
T10 fluorescent fixtures	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T12 Fixtures (1.5in. diameter bulbs)	42.30	65.21	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	61.34	0.00	0.00	72.20
HID (High Intensity Discharge) Fixtures-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compact Fluorescent, Screw-in Modular	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compact Fluorescent, Hardwire	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Incandescent	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Generic LED (SCREW BASE)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Exit Signs, Compact Fluorescent	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Exit Signs, LED	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Halogen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Install Reflectors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electronic Ballast	27.96	2.49	93.88	7.71	0.00	0.00	0.00	0.00	94.69	0.00	82.75	20.87	8.29	0.00	0.00	0.00	0.00	82.31	0.00	84.37	0.00	100.00	8.38	0.00	67.52	0.00
Magnetic Ballast	62.87	73.49	48.01	26.35	100.00	0.00	0.00	100.00	51.49	0.00	0.00	68.33	11.74	0.00	0.00	0.00	2.65	0.00	0.00	0.00	0.00	100.00	67.19	100.00	49.47	72.34
Lighting Controls, Time Clock	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Occupancy Sensor	0.12	0.00	0.00	1.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.77	0.00	0.00	0.00	0.00	0.00	0.18	0.00	0.00	0.21
Lighting Controls, Bypass/Delay Timers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Photocell	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

* Values are shown as percent of respondents weighted by kWh.
* n is the number of respondents.

	ALL	PG&E(%)	SCE(%)	SDG&E(%)	PG&E Custom Program(%)	SCE Custom Program(%)	SDG&E Custom Program(%)	PG&E Deemed Program(%)	SCE Deemed Program(%)	SDG&E Deemed Program(%)	SCE Direct Install Program(%)	SDG&E Direct Install Program(%)	PG&E LGP Program(%)	SCE LGP Program(%)	PG&E L3P Program(%)	SCE L3P Program(%)	SDG&E L3P Program(%)	CFL Basic(%)	CFL Reflector(%)	High Bay(%)	HID(%)	LF Delamp(%)	Linear(%)	Occupancy Sensor(%)	Deemed(%)	All Calculated(%)
Fat/Thick Tubes	1.65	0.00	0.00	21.36	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15.63	0.00	0.00	0.00	0.00	3.97	0.00
Skinny/Thin Tubes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T5 Fixtures (5/8in. diameter)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Nothing removed...new euqipment	13.08	20.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	67.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	18.97	0.00	0.00	22.32
Other -Record	2.49	3.34	1.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.25	0.00	11.12	0.00	0.00	0.00	0.00	17.69	0.00	0.00	100.00	0.00	0.00	0.00	6.01	0.00
Refused	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Don't Know	3.65	0.52	0.00	43.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.80	1.72	0.00	0.00	0.00	93.58	0.00	0.00	0.00	0.00	0.00	5.29	0.00	1.55	5.13
n	*24*	*10*	*6*	*8*	*1*	*0*	*0*	*2*	*4*	*1*	*2*	*4*	*7*	*0*	*0*	*0*	*3*	*2*	*0*	*3*	*1*	*1*	*14*	*3*	*19*	*5*
<MSP27_13> Approximately how old was this lighting equipment that you removed?																										
Less than 5 years old	4.24	0.00	0.00	47.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.87	0.00	0.00	0.00	0.00	96.23	0.00	0.00	0.00	0.00	0.00	6.59	0.00	1.43	6.79
Between 5 and 10 years old	23.95	3.21	69.84	0.00	0.00	0.00	0.00	5.58	74.90	0.00	0.00	0.00	23.25	0.00	0.00	0.00	0.00	82.31	0.00	69.79	0.00	100.00	0.00	3.64	50.27	0.00
Between 10 and 15 years old or	57.66	81.67	24.04	15.96	100.00	0.00	0.00	0.00	19.78	0.00	82.75	43.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14.59	0.00	0.00	86.96	0.00	18.89	92.95
More than 15 years old?	14.01	15.12	6.12	34.64	0.00	0.00	0.00	94.42	5.31	100.00	17.25	35.93	76.75	0.00	0.00	0.00	0.00	17.69	0.00	15.63	100.00	0.00	6.23	96.36	29.40	0.00
Don't Know	0.14	0.00	0.00	1.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.77	0.00	0.00	0.00	0.00	0.00	0.22	0.00	0.00	0.27
n	*23*	*9*	*6*	*8*	*1*	*0*	*0*	*2*	*4*	*1*	*2*	*4*	*6*	*0*	*0*	*0*	*3*	*2*	*0*	*3*	*1*	*1*	*13*	*3*	*19*	*4*
<MSP28_13>How would you describe the condition of this removed equipment?																										
In Poor condition	85.98	86.43	95.04	50.60	100.00	0.00	0.00	0.00	94.69	100.00	100.00	74.87	38.48	0.00	0.00	0.00	3.77	100.00	0.00	100.00	0.00	100.00	90.53	0.00	78.02	93.21
Fair condition or	8.57	10.39	4.96	9.29	0.00	0.00	0.00	100.00	5.31	0.00	0.00	25.13	35.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	3.94	65.20	18.00	0.00
Good condition	1.99	3.18	0.00	1.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	25.73	0.00	0.00	0.00	2.65	0.00	0.00	0.00	0.00	0.00	0.15	34.80	3.98	0.19
Don't Know	3.46	0.00	0.00	39.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	93.58	0.00	0.00	0.00	0.00	0.00	5.38	0.00	0.00	6.60
n	*23*	*9*	*6*	*8*	*1*	*0*	*0*	*2*	*4*	*1*	*2*	*4*	*6*	*0*	*0*	*0*	*3*	*2*	*0*	*3*	*1*	*1*	*13*	*3*	*19*	*4*
<MSP29_13> Approximately what percentage of this removed lighting equipment was broken or working prior to installing the Electronic ballast?																										
0	7.33	10.15	1.17	10.39	0.00	0.00	0.00	100.00	0.00	0.00	17.25	25.13	33.84	0.00	0.00	0.00	2.65	17.69	0.00	0.00	100.00	0.00	1.43	65.20	15.19	0.19
3	0.74	1.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.15	0.00	1.54	0.00
5	1.90	3.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	25.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	34.80	3.98	0.00
10	0.68	0.00	0.00	7.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.06	0.00	1.43	0.00
20	2.25	0.00	0.00	25.35	0.00	0.00	0.00	0.00	0.00	100.00	0.00	10.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15.63	0.00	0.00	0.55	0.00	4.71	0.00
50	48.66	81.67	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	75.70	0.00	0.00	92.95
80	0.14	0.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.22	0.00	0.30	0.00
90	0.39	0.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.60	0.00	0.81	0.00
100	37.92	2.88	98.83	56.55	0.00	0.00	0.00	0.00	100.00	0.00	82.75	43.20	23.25	0.00	0.00	0.00	97.35	82.31	0.00	84.37	0.00	100.00	19.28	0.00	72.03	6.87
n	*23*	*9*	*6*	*8*	*1*	*0*	*0*	*2*	*4*	*1*	*2*	*4*	*6*	*0*	*0*	*0*	*3*	*2*	*0*	*3*	*1*	*1*	*13*	*3*	*19*	*4*
<MSP23_14> In what year did you install the MAGNETIC BALLAST?																										
2012	98.48	98.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	98.48
2013	1.52	1.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.52
n	*2*	*2*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*1*	*0*	*1*	*0*	*0*	*1*	*0*	*0*	*0*	*0*	*1*	*0*	*0*	*2*
And in which month (or season)?																										
Spring	100.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00
n	*1*	*1*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*1*	*0*	*0*	*0*	*0*	*1*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*1*
<MSP26_14>What type of lighting equipment was removed and replaced when you installed the MAGNETIC BALLAST?																										
High Performance T8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T8 fluorescent fixtures (1in. diameter b	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T10 fluorescent fixtures	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T12 Fixtures (1.5in. diameter bulbs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HID (High Intensity Discharge) Fixtures-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compact Fluorescent, Screw-in Modular	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compact Fluorescent, Hardwire	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Incandescent	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Generic LED (SCREW BASE)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Exit Signs, Compact Fluorescent	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Exit Signs, LED	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Halogen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Install Reflectors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electronic Ballast	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Magnetic Ballast	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Time Clock	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Occupancy Sensor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

* Values are shown as percent of respondents weighted by kWh.
* n is the number of respondents.

	ALL	PG&E(%)	SCE(%)	SDG&E(%)	PG&E Custom Program(%)	SCE Custom Program(%)	SDG&E Custom Program(%)	PG&E Deemed Program(%)	SCE Deemed Program(%)	SDG&E Deemed Program(%)	SCE Direct Install Program(%)	SDG&E Direct Install Program(%)	PG&E LGP Program(%)	SCE LGP Program(%)	PG&E L3P Program(%)	SCE L3P Program(%)	SDG&E L3P Program(%)	CFL Basic(%)	CFL Reflector(%)	High Bay(%)	HID(%)	LF Delamp(%)	Linear(%)	Occupancy Sensor(%)	Deemed(%)	All Calculated(%)
Lighting Controls, Bypass/Delay Timers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Photocell	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fat/Thick Tubes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Skinny/Thin Tubes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T5 Fixtures (5/8in. diameter)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Nothing removed...new euqipment	98.48	98.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	98.48
Other -Record	1.52	1.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.52
Refused	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Don't Know	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	*2*	*2*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*1*	*0*	*1*	*0*	*0*	*1*	*0*	*0*	*0*	*0*	*1*	*0*	*0*	*2*
<MSP27_14> Approximately how old was this lighting equipment that you removed?																										
More than 15 years old?	100.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00
n	*1*	*1*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*1*	*0*	*0*	*0*	*0*	*1*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*1*
<MSP28_14> How would you describe the condition of this removed equipment?																										
In Poor condition	100.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00
n	*1*	*1*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*1*	*0*	*0*	*0*	*0*	*1*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*1*
<MSP29_14> Approximately what percentage of this removed lighting equipment was broken or working prior to installing the MAGNETIC BALLAST?																										
100	100.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00
n	*1*	*1*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*1*	*0*	*0*	*0*	*0*	*1*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*1*
<MSP2A_15> How many ...TIME CLOCK LIGHT																										
.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
<MSP2B_15> How many ...TIME CLOCK LIGHT																										
.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
<MSP4_15> I'm going to read a statemen																										
.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
<MSP5_15>																										
Record Reason	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Refused	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Don't Know	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
<MSP17_15>																										
Too much paperwork	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Takes too long to get approval	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Needed equipment immediately (No time to	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Program had ended	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Equipment would Not qualify PROBE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rebate wasn't important eNough	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Didn't kNow program was available	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
No program available	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Refused	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Don't Know	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
<MSP19_15> Was this measure specificall																										
.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
<MSP20_15> IF you had Not participated																										
.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

* Values are shown as percent of respondents weighted by kWh.
* n is the number of respondents.

	ALL	PG&E(%)	SCE(%)	SDG&E(%)	PG&E Custom Program(%)	SCE Custom Program(%)	SDG&E Custom Program(%)	PG&E Deemed Program(%)	SCE Deemed Program(%)	SDG&E Deemed Program(%)	SCE Direct Install Program(%)	SDG&E Direct Install Program(%)	PG&E LGP Program(%)	SCE LGP Program(%)	PG&E L3P Program(%)	SCE L3P Program(%)	SDG&E L3P Program(%)	CFL Basic(%)	CFL Reflector(%)	High Bay(%)	HID(%)	LF Delamp(%)	Linear(%)	Occupancy Sensor(%)	Deemed(%)	All Calculated(%)
n	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
<MSP23_15> In what year did you install																										
.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
And in which month (or season)																										
.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
<MSP25_15> Did you receive a rebate for																										
.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
<MSP26_15>																										
High Performance T8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T8 fluorescent fixtures (1in. diameter b	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T10 fluorescent fixtures	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T12 Fixtures (1.5in. diameter bulbs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HID (High Intensity Discharge) Fixtures-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compact Fluorescent, Screw-in Modular	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compact Fluorescent, Hardwire	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Incandescent	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Exit Signs, Compact Fluorescent	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Exit Signs, LED	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Halogen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Install Reflectors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electronic Ballast	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Magnetic Ballast	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Time Clock	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Occupancy Sensor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Bypass/Delay Timers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Photocell	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fat/Thick Tubes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Skinny/Thin Tubes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T5 Fixtures (5/8in. diameter)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Generic LED (SCREW BASE)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Nothing removed...new euqipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other -Record	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Refused	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Don't Know	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
<MSP27_15> Approximately how old was th																										
.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
<MSP28_15> How would you describe the c																										
.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
<MSP29_15> Approximately what percentag																										
.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
<MSP2A_16> How many OCCUPANCY SENSOR LIGHTING CONTROLS did you purchase for this facility?																										
4	17.87	24.25	0.00	20.02	0.00	0.00	100.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	2.79	0.00	34.51	3.09
10	76.14	75.60	100.00	7.84	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	100.00	0.00	0.00	0.00	0.00	100.00	87.18	0.00	52.95	96.72
12	5.90	0.00	0.00	72.14	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.04	0.00	12.54	0.00
50	0.10	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.19
n	*8*	*4*	*1*	*3*	*1*	*0*	*1*	*2*	*0*	*1*	*0*	*0*	*1*	*0*	*0*	*1*	*1*	*1*	*1*	*1*	*0*	*1*	*4*	*0*	*4*	*4*

* Values are shown as percent of respondents weighted by kWh.
* n is the number of respondents.

	ALL	PG&E(%)	SCE(%)	SDG&E(%)	PG&E Custom Program(%)	SCE Custom Program(%)	SDG&E Custom Program(%)	PG&E Deemed Program(%)	SCE Deemed Program(%)	SDG&E Deemed Program(%)	SCE Direct Install Program(%)	SDG&E Direct Install Program(%)	PG&E LGP Program(%)	SCE LGP Program(%)	PG&E L3P Program(%)	SCE L3P Program(%)	SDG&E L3P Program(%)	CFL Basic(%)	CFL Reflector(%)	High Bay(%)	HID(%)	LF Delamp(%)	Linear(%)	Occupancy Sensor(%)	Deemed(%)	All Calculated(%)
<MSP2B_16>How many OCCUPANCY SENSOR LIGHTING CONTROLS did you purchase for your other locations?																										
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00
3	1.45	2.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.50	0.00	0.00	97.32
5	2.74	3.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	40.09	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	2.78	0.00
8	2.81	0.00	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	24.20	0.00	2.86	0.00
21	28.10	0.00	90.90	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	33.85	0.00	0.00	28.52	0.00
25	54.90	79.45	0.00	0.00	0.00	0.00	0.00	88.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	66.15	0.00	0.00	55.73	0.00
100	7.35	10.65	0.00	0.00	0.00	0.00	0.00	11.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	63.27	0.00	7.47	0.00
Don't Know	2.64	3.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	38.62	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	100.00	2.64	2.68
n	*10*	*8*	*2*	*0*	*0*	*0*	*0*	*3*	*1*	*0*	*0*	*0*	*5*	*1*	*0*	*0*	*0*	*1*	*1*	*1*	*0*	*2*	*4*	*1*	*8*	*2*
<MSP4_16> On a scale from 0 to 10, where zero indicates you Strongly Disagree and 10 indicates you Strongly Agree, please rate the following statement. My experience with the 2010-2012 Program influenced my decision to install this high efficiency																										
5	19.74	28.84	0.00	0.00	100.00	0.00	0.00	10.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	78.55	0.00	6.27	89.40
6	1.04	1.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.13	0.00	0.00	6.40
8	61.20	60.10	68.69	0.00	0.00	0.00	0.00	79.83	100.00	0.00	0.00	0.00	40.09	0.00	0.00	0.00	0.00	0.00	0.00	29.63	0.00	89.25	0.00	0.00	73.04	0.00
9	1.86	2.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	38.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	2.22	0.00
10 Strongly Agree	4.65	6.79	0.00	0.00	0.00	0.00	0.00	9.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	70.37	0.00	0.00	0.00	0.00	5.55	0.00
Zero Strongly Disagree	11.51	0.05	31.31	100.00	0.00	0.00	100.00	0.00	0.00	100.00	0.00	0.00	0.63	100.00	0.00	100.00	100.00	100.00	0.00	0.00	0.00	10.75	17.32	0.00	12.93	4.20
n	*16*	*10*	*3*	*3*	*1*	*0*	*1*	*4*	*1*	*1*	*0*	*0*	*5*	*1*	*0*	*1*	*1*	*1*	*1*	*2*	*0*	*3*	*8*	*1*	*11*	*5*
<MSP5_16>Why do you give it this rating?																										
Record Reason	100.00	100.00	100.00	0.00	0.00	0.00	0.00	100.00	100.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	100.00	100.00	100.00	100.00	100.00
Refused	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Don't Know	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	*6*	*5*	*1*	*0*	*0*	*0*	*0*	*2*	*1*	*0*	*0*	*0*	*3*	*0*	*0*	*0*	*0*	*0*	*0*	*2*	*0*	*2*	*1*	*1*	*5*	*1*
<MSP17_16>Why did you purchase this lighting without the financial assistance available through a utility program?																										
Too much paperwork	0.47	0.00	0.00	20.02	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.87	0.00	0.00	2.89
Takes too long to get approval	1.51	1.52	0.00	20.02	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	21.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.99	0.00	0.00	9.29
Needed equipment immediately (No time to	2.01	0.00	6.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.99	0.00	2.40	0.00
Program had ended	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Equipment would Not qualify PROBE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rebate wasn't important eNough	7.11	10.38	0.00	0.00	0.00	0.00	0.00	10.70	0.00	0.00	0.00	0.00	38.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.89	100.00	8.48	0.00
Didn't kNow program was available	27.96	27.96	24.43	72.14	100.00	0.00	0.00	9.47	0.00	100.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	70.37	0.00	10.75	64.39	0.00	16.08	89.40
No program available	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other	63.27	62.85	68.69	7.84	0.00	0.00	0.00	79.83	100.00	0.00	0.00	0.00	78.75	0.00	0.00	0.00	100.00	100.00	0.00	29.63	0.00	89.25	0.74	100.00	75.26	1.31
Refused	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Don't Know	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	*16*	*10*	*3*	*3*	*1*	*0*	*1*	*4*	*1*	*1*	*0*	*0*	*5*	*1*	*0*	*1*	*1*	*1*	*1*	*2*	*0*	*3*	*8*	*1*	*11*	*5*
<MSP19_16> Was this measure specifically recommended by a Program or Utility sponsored Audit, report or program technical specialist?																										
Yes	3.25	4.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	34.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.55	0.00	0.00	6.68
No	80.28	72.35	100.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	65.38	100.00	0.00	100.00	0.00	0.00	0.00	100.00	0.00	100.00	72.41	0.00	67.89	93.32
Don't Know	16.47	23.09	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	23.03	0.00	32.11	0.00
n	*8*	*6*	*2*	*0*	*1*	*0*	*0*	*2*	*0*	*0*	*0*	*0*	*3*	*1*	*0*	*1*	*0*	*0*	*1*	*1*	*0*	*1*	*5*	*0*	*6*	*2*
<MSP20_16> IF you had not participated in the Program, how likely is it that your organization would still have implemented this measure, using a 0 to 10 scale where 0 means you Definitely Would Not have implemented this measure and 10 means you																										
4	1.04	1.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.13	0.00	0.00	6.40
5	6.51	9.50	0.00	0.00	0.00	0.00	0.00	9.47	0.00	0.00	0.00	0.00	38.03	0.00	0.00	0.00	0.00	0.00	0.00	70.37	0.00	0.00	0.00	100.00	7.76	0.00
7	20.06	0.00	68.69	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	30.22	0.00	0.00	23.94	0.00
8	39.19	57.24	0.00	0.00	0.00	0.00	0.00	79.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	59.04	0.00	0.00	46.77	0.00
10 Definitely Would Have	33.21	31.74	31.31	100.00	100.00	0.00	100.00	10.70	0.00	100.00	0.00	0.00	40.67	100.00	0.00	100.00	100.00	100.00	0.00	29.63	0.00	10.75	95.86	0.00	21.53	93.60
Zero Definitely Would Not	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00
n	*16*	*10*	*3*	*3*	*1*	*0*	*1*	*4*	*1*	*1*	*0*	*0*	*5*	*1*	*0*	*1*	*1*	*1*	*1*	*2*	*0*	*3*	*8*	*1*	*11*	*5*
<MSP23_16> In what year did you install the OCCUPANCY SENSOR LIGHTING CONTROLS?																										
2010	9.86	1.52	24.43	72.14	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	21.25	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	10.75	10.85	0.00	10.53	6.40
2011	83.66	92.91	68.69	0.00	100.00	0.00	0.00	100.00	100.00	0.00	0.00	0.00	0.59	0.00	0.00	0.00	0.00	100.00	0.00	70.37	0.00	89.25	78.55	0.00	82.52	89.58
2012	4.62	2.86	6.88	27.86	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	40.09	100.00	0.00	0.00	100.00	0.00	0.00	29.63	0.00	0.00	10.59	0.00	4.73	4.02
2013	1.86	2.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	38.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	100.00	2.22	0.00
n	*16*	*10*	*3*	*3*	*1*	*0*	*1*	*4*	*1*	*1*	*0*	*0*	*5*	*1*	*0*	*1*	*1*	*1*	*1*	*2*	*0*	*3*	*8*	*1*	*11*	*5*
And in which month (or season)?																										

* Values are shown as percent of respondents weighted by kWh.
* n is the number of respondents.

	ALL	PG&E(%)	SCE(%)	SDG&E(%)	PG&E Custom Program(%)	SCE Custom Program(%)	SDG&E Custom Program(%)	PG&E Deemed Program(%)	SCE Deemed Program(%)	SDG&E Deemed Program(%)	SCE Direct Install Program(%)	SDG&E Direct Install Program(%)	PG&E LGP Program(%)	SCE LGP Program(%)	PG&E L3P Program(%)	SCE L3P Program(%)	SDG&E L3P Program(%)	CFL Basic(%)	CFL Reflector(%)	High Bay(%)	HID(%)	LF Delamp(%)	Linear(%)	Occupancy Sensor(%)	Deemed(%)	All Calculated(%)
January	7.33	0.00	24.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	10.75	0.01	0.00	8.72	0.00
May	20.59	0.00	68.69	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	30.22	0.00	0.00	24.51	0.00
June	1.07	1.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	35.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.24	0.00	0.00	6.67
July	1.73	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.90	0.00	2.06	0.00
Summer	4.77	6.99	0.00	0.00	0.00	0.00	0.00	9.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	5.68	0.00
Fall	55.12	80.72	0.00	0.00	100.00	0.00	0.00	79.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	59.04	59.20	0.00	47.89	93.15
Don't Know	9.39	10.73	6.88	0.00	0.00	0.00	0.00	10.70	0.00	0.00	0.00	0.00	64.45	100.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	29.65	100.00	11.14	0.18
n	*13*	*9*	*3*	*1*	*1*	*0*	*0*	*4*	*1*	*1*	*0*	*0*	*4*	*1*	*0*	*1*	*0*	*1*	*1*	*1*	*0*	*3*	*6*	*1*	*10*	*3*
<MSP25_16> Did you receive a rebate for the OCCUPANCY SENSOR LIGHTING CONTROLS?																										
Yes	1.86	2.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	38.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	2.22	0.00
No	98.14	97.29	100.00	100.00	100.00	0.00	100.00	100.00	100.00	100.00	0.00	0.00	61.97	100.00	0.00	100.00	100.00	100.00	0.00	100.00	0.00	100.00	100.00	0.00	97.78	100.00
n	*16*	*10*	*3*	*3*	*1*	*0*	*1*	*4*	*1*	*1*	*0*	*0*	*5*	*1*	*0*	*1*	*1*	*1*	*1*	*2*	*0*	*3*	*8*	*1*	*11*	*5*
<MSP26_16>What type of lighting equipment was removed and replaced when you installed the OCCUPANCY SENSOR LIGHTING CONTROLS?																										
High Performance T8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T8 fluorescent fixtures (1in. diameter b	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T10 fluorescent fixtures	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T12 Fixtures (1.5in. diameter bulbs)	7.13	0.00	24.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	10.75	0.00	0.00	8.51	0.00
HID (High Intensity Discharge) Fixtures-	14.49	21.17	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	57.67	0.00	0.00	89.40
Compact Fluorescent, Screw-in Modular	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compact Fluorescent, Hardwire	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Incandescent	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Exit Signs, Compact Fluorescent	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Exit Signs, LED	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Halogen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Install Reflectors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electronic Ballast	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Magnetic Ballast	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Time Clock	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Occupancy Sensor	0.18	0.00	0.00	7.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.73	0.00	0.00	1.13
Lighting Controls, Bypass/Delay Timers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Photocell	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fat/Thick Tubes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Skinny/Thin Tubes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T5 Fixtures (5/8in. diameter)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Generic LED (SCREW BASE)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Nothing removed...new euqipment	32.46	14.50	75.57	20.02	0.00	0.00	100.00	20.17	100.00	0.00	0.00	0.00	0.63	100.00	0.00	0.00	0.00	100.00	0.00	70.37	0.00	30.22	30.75	0.00	38.15	3.07
Other -Record	45.73	64.33	0.00	72.14	0.00	0.00	0.00	79.83	0.00	100.00	0.00	0.00	99.37	0.00	0.00	0.00	0.00	0.00	0.00	29.63	0.00	59.04	10.85	100.00	53.34	6.40
Refused	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Don't Know	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	*16*	*10*	*3*	*3*	*1*	*0*	*1*	*4*	*1*	*1*	*0*	*0*	*5*	*1*	*0*	*1*	*1*	*1*	*1*	*2*	*0*	*3*	*8*	*1*	*11*	*5*
<MSP27_16> Approximately how old was this lighting equipment that you removed?																										
Less than 5 years old	0.27	0.00	0.00	9.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	1.05	0.00	0.00	1.17
Between 5 and 10 years old	24.36	28.11	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	40.34	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	83.28	0.00	3.78	92.23
Between 10 and 15 years old or	10.56	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	15.40	0.00	0.00	13.76	0.00
More than 15 years old?	64.81	71.89	0.00	90.20	0.00	0.00	0.00	100.00	0.00	100.00	0.00	0.00	59.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	84.60	15.67	100.00	82.46	6.60
n	*8*	*5*	*1*	*2*	*1*	*0*	*0*	*1*	*0*	*1*	*0*	*0*	*3*	*0*	*0*	*1*	*1*	*0*	*0*	*1*	*0*	*2*	*4*	*1*	*5*	*3*
<MSP28_16>How would you describe the condition of this removed equipment?																										
In Poor condition	0.27	0.00	0.00	9.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	1.05	0.00	0.00	1.17
Fair condition or	96.83	96.66	100.00	90.20	100.00	0.00	0.00	100.00	0.00	100.00	0.00	0.00	59.66	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	100.00	98.95	100.00	96.22	98.83
Good condition	2.90	3.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	40.34	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	3.78	0.00
n	*8*	*5*	*1*	*2*	*1*	*0*	*0*	*1*	*0*	*1*	*0*	*0*	*3*	*0*	*0*	*1*	*1*	*0*	*0*	*1*	*0*	*2*	*4*	*1*	*5*	*3*
<MSP29_16> Approximately what percentage of this removed lighting equiment was broken or not working prior to installing the OCCUPANCY SENSOR LIGHTING CONTROLS?																										
0	75.52	72.07	100.00	90.20	0.00	0.00	0.00	100.00	0.00	100.00	0.00	0.00	61.73	0.00	0.00	100.00	0.00	0.00	0.00	100.00	0.00	100.00	15.67	0.00	96.42	6.60
5	21.46	24.76	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	83.28	0.00	0.00	92.23
10	2.75	3.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	38.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	3.58	0.00
100	0.27	0.00	0.00	9.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	1.05	0.00	0.00	1.17
n	*8*	*5*	*1*	*2*	*1*	*0*	*0*	*1*	*0*	*1*	*0*	*0*	*3*	*0*	*0*	*1*	*1*	*0*	*0*	*1*	*0*	*2*	*4*	*1*	*5*	*3*

* Values are shown as percent of respondents weighted by kWh.
* n is the number of respondents.

	ALL	PG&E(%)	SCE(%)	SDG&E(%)	PG&E Custom Program(%)	SCE Custom Program(%)	SDG&E Custom Program(%)	PG&E Deemed Program(%)	SCE Deemed Program(%)	SDG&E Deemed Program(%)	SCE Direct Install Program(%)	SDG&E Direct Install Program(%)	PG&E LGP Program(%)	SCE LGP Program(%)	PG&E L3P Program(%)	SCE L3P Program(%)	SDG&E L3P Program(%)	CFL Basic(%)	CFL Reflector(%)	High Bay(%)	HID(%)	LF Delamp(%)	Linear(%)	Occupancy Sensor(%)	Deemed(%)	All Calculated(%)
<MSP2A_17> How many ...BYPASS/DELAY TIM																										
.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
<MSP2B_17> How many ...BYPASS/DELAY TIM																										
.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
<MSP4_17> I'm going to read a statemen																										
.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
<MSP5_17>																										
Record Reason	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Refused	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Don't Know	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
<MSP17_17>																										
Too much paperwork	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Takes too long to get approval	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Needed equipment immediately (No time to	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Program had ended	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Equipment would Not qualify PROBE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rebate wasn't important eNough	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Didn't kNow program was available	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
No program available	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Refused	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Don't Know	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
<MSP19_17> Was this measure specificall																										
.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
<MSP20_17> IF you had Not participated																										
.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
<MSP23_17> In what year did you install																										
.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
And in which month (or season)																										
.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
<MSP25_17> Did you receive a rebate for																										
.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
<MSP26_17>																										
High Performance T8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T8 fluorescent fixtures (1in. diameter b	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T10 fluorescent fixtures	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T12 Fixtures (1.5in. diameter bulbs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HID (High Intensity Discharge) Fixtures-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compact Fluorescent, Screw-in Modular	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compact Fluorescent, Hardwire	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Incandescent	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

* Values are shown as percent of respondents weighted by kWh.
* n is the number of respondents.

	ALL	PG&E(%)	SCE(%)	SDG&E(%)	PG&E Custom Program(%)	SCE Custom Program(%)	SDG&E Custom Program(%)	PG&E Deemed Program(%)	SCE Deemed Program(%)	SDG&E Deemed Program(%)	SCE Direct Install Program(%)	SDG&E Direct Install Program(%)	PG&E LGP Program(%)	SCE LGP Program(%)	PG&E L3P Program(%)	SCE L3P Program(%)	SDG&E L3P Program(%)	CFL Basic(%)	CFL Reflector(%)	High Bay(%)	HID(%)	LF Delamp(%)	Linear(%)	Occupancy Sensor(%)	Deemed(%)	All Calculated(%)
Exit Signs, Compact Fluorescent	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Exit Signs, LED	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Halogen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Install Reflectors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electronic Ballast	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Magnetic Ballast	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Time Clock	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Occupancy Sensor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Bypass/Delay Timers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Photocell	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fat/Thick Tubes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Skinny/Thin Tubes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T5 Fixtures (5/8in. diameter)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Generic LED (SCREW BASE)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Nothing removed...new euqipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other -Record	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Refused	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Don't Know	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
<MSP27_17> Approximately how old was th																										
.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
<MSP28_17> How would you describe the c																										
.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
<MSP29_17> Approximately what percentag																										
.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
<MSP2A_18> How many ...PHOTOCELL LIGHTI																										
.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
<MSP2B_18> How many ...PHOTOCELL LIGHTI																										
.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
<MSP4_18> I'm going to read a statemen																										
.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
<MSP5_18>																										
Record Reason	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Refused	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Don't Know	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
<MSP17_18>																										
Too much paperwork	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Takes too long to get approval	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Needed equipment immediately (No time to	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Program had ended	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Equipment would Not qualify PROBE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rebate wasn't important eNough	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Didn't kNow program was available	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
No program available	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Refused	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Don't Know	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

* Values are shown as percent of respondents weighted by kWh.
* n is the number of respondents.

	ALL	PG&E(%)	SCE(%)	SDG&E(%)	PG&E Custom Program(%)	SCE Custom Program(%)	SDG&E Custom Program(%)	PG&E Deemed Program(%)	SCE Deemed Program(%)	SDG&E Deemed Program(%)	SCE Direct Install Program(%)	SDG&E Direct Install Program(%)	PG&E LGP Program(%)	SCE LGP Program(%)	PG&E L3P Program(%)	SCE L3P Program(%)	SDG&E L3P Program(%)	CFL Basic(%)	CFL Reflector(%)	High Bay(%)	HID(%)	LF Delamp(%)	Linear(%)	Occupancy Sensor(%)	Deemed(%)	All Calculated(%)
n	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
<MSP19_18> Was this measure specificall																										
.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
<MSP20_18> IF you had Not participated																										
.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
<MSP23_18> In what year did you install																										
.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
And in which month (or season)																										
.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
<MSP25_18> Did you receive a rebate for																										
.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
<MSP26_18>																										
High Performance T8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T8 fluorescent fixtures (1in. diameter b	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T10 fluorescent fixtures	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T12 Fixtures (1.5in. diameter bulbs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HID (High Intensity Discharge) Fixtures-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compact Fluorescent, Screw-in Modular	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compact Fluorescent, Hardwire	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Incandescent	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Exit Signs, Compact Fluorescent	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Exit Signs, LED	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Halogen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Install Reflectors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electronic Ballast	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Magnetic Ballast	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Time Clock	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Occupancy Sensor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Bypass/Delay Timers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Photocell	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fat/Thick Tubes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Skinny/Thin Tubes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T5 Fixtures (5/8in. diameter)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Generic LED (SCREW BASE)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Nothing removed...new euqipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other -Record	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Refused	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Don't Know	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
<MSP27_18> Approximately how old was th																										
.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
<MSP28_18> How would you describe the c																										
.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
<MSP29_18> Approximately what percentag																										
.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

* Values are shown as percent of respondents weighted by kWh.
* n is the number of respondents.

	ALL	PG&E(%)	SCE(%)	SDG&E(%)	PG&E Custom Program(%)	SCE Custom Program(%)	SDG&E Custom Program(%)	PG&E Deemed Program(%)	SCE Deemed Program(%)	SDG&E Deemed Program(%)	SCE Direct Install Program(%)	SDG&E Direct Install Program(%)	PG&E LGP Program(%)	SCE LGP Program(%)	PG&E L3P Program(%)	SCE L3P Program(%)	SDG&E L3P Program(%)	CFL Basic(%)	CFL Reflector(%)	High Bay(%)	HID(%)	LF Delamp(%)	Linear(%)	Occupancy Sensor(%)	Deemed(%)	All Calculated(%)
n	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
<MSP23_19> In what year did you install the FLUORESCENT FIXTURES?																										
2010	0.26	0.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.68	0.00	0.00	0.00	0.00	41.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.44
2011	82.01	81.21	64.51	100.00	0.00	0.00	100.00	90.89	0.00	0.00	0.00	0.00	4.82	0.00	0.00	100.00	0.00	58.48	0.00	95.67	0.00	64.51	0.00	69.97	89.22	49.03
2012	14.60	14.87	35.49	0.00	0.00	0.00	0.00	9.11	100.00	0.00	0.00	0.00	59.95	0.00	100.00	0.00	0.00	0.00	0.00	4.33	0.00	35.49	100.00	30.03	10.78	32.11
Don't Know	3.12	3.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	32.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	17.43
n	*12*	*9*	*2*	*1*	*0*	*0*	*1*	*3*	*1*	*0*	*0*	*0*	*5*	*0*	*1*	*1*	*0*	*2*	*0*	*2*	*1*	*2*	*2*	*3*	*8*	*4*
And in which month (or season)?																										
August	2.14	0.00	35.49	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	35.49	0.00	0.00	2.39	0.00
Summer	4.19	0.37	64.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	35.73	0.00	0.00	100.00	0.00	41.52	0.00	0.00	0.00	64.51	0.00	0.00	4.35	2.84
Fall	0.43	0.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	50.31	0.00	0.00	0.00	0.00	58.48	0.00	0.00	0.00	0.00	0.00	0.00	0.48	0.00
Don't Know	93.25	99.12	0.00	100.00	0.00	0.00	100.00	100.00	0.00	0.00	0.00	0.00	13.96	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	100.00	92.77	97.16
n	*7*	*4*	*2*	*1*	*0*	*0*	*1*	*1*	*1*	*0*	*0*	*0*	*3*	*0*	*0*	*1*	*0*	*2*	*0*	*1*	*0*	*2*	*0*	*2*	*5*	*2*
<MSP26_19>What type of lighting equipment was removed and replaced when you installed the FLUORESCENT FIXTURES?																										
High Performance T8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T8 fluorescent fixtures (1in. diameter b	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T10 fluorescent fixtures	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T12 Fixtures (1.5in. diameter bulbs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HID (High Intensity Discharge) Fixtures-	75.26	87.35	0.00	0.00	0.00	0.00	0.00	90.89	0.00	0.00	0.00	0.00	59.95	0.00	0.00	0.00	0.00	0.00	0.00	95.67	0.00	0.00	98.41	0.00	84.68	32.11
Compact Fluorescent, Screw-in Modular	0.10	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.79	0.12	0.00
Compact Fluorescent, Hardwire	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Incandescent	4.07	4.73	0.00	0.00	0.00	0.00	0.00	4.99	0.00	0.00	0.00	0.00	2.68	0.00	0.00	0.00	0.00	41.52	0.00	0.00	0.00	0.00	0.00	30.03	4.65	1.44
Generic LED (SCREW BASE)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Exit Signs, Compact Fluorescent	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Exit Signs, LED	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Halogen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Install Reflectors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electronic Ballast	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Magnetic Ballast	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Time Clock	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Occupancy Sensor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Bypass/Delay Timers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Photocell	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other	15.82	4.37	64.51	100.00	0.00	0.00	100.00	4.12	0.00	0.00	0.00	0.00	6.45	0.00	0.00	100.00	0.00	100.00	0.00	4.33	0.00	64.51	0.00	69.18	8.25	50.46
Fat/Thick Tubes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Skinny/Thin Tubes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T5 Fixtures (5/8in. diameter)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Nothing removed...new euqipment	3.22	3.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	32.55	0.00	100.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	1.59	0.00	0.11	17.43
Other -Record	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Refused	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Don't Know	1.80	0.00	35.49	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	35.49	0.00	0.00	2.19	0.00
n	*12*	*9*	*2*	*1*	*0*	*0*	*1*	*3*	*1*	*0*	*0*	*0*	*5*	*0*	*1*	*1*	*0*	*2*	*0*	*2*	*1*	*2*	*2*	*3*	*8*	*4*
<MSP27_19> Approximately how old was this lighting equipment that you removed?																										
Less than 5 years old	11.30	0.43	35.49	100.00	0.00	0.00	100.00	0.00	100.00	0.00	0.00	0.00	5.53	0.00	0.00	0.00	0.00	41.52	0.00	0.00	0.00	35.49	0.00	69.97	2.31	61.12
Between 5 and 10 years old	9.89	11.54	0.00	0.00	0.00	0.00	0.00	4.99	0.00	0.00	0.00	0.00	88.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	30.03	4.65	38.88
Between 10 and 15 years old or	75.07	87.60	0.00	0.00	0.00	0.00	0.00	95.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	88.61	0.00
More than 15 years old?	3.75	0.44	64.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.60	0.00	0.00	100.00	0.00	58.48	0.00	0.00	0.00	64.51	0.00	0.00	4.42	0.00
n	*10*	*7*	*2*	*1*	*0*	*0*	*1*	*3*	*1*	*0*	*0*	*0*	*4*	*0*	*0*	*1*	*0*	*2*	*0*	*2*	*0*	*2*	*1*	*3*	*7*	*3*
<MSP28_19> How would you describe the condition of this removed equipment?																										
In Poor condition	81.26	84.24	0.00	100.00	0.00	0.00	100.00	90.89	0.00	0.00	0.00	0.00	5.60	0.00	0.00	0.00	0.00	58.48	0.00	95.67	0.00	0.00	0.00	69.18	85.21	59.38
Fair condition or	4.21	4.91	0.00	0.00	0.00	0.00	0.00	4.99	0.00	0.00	0.00	0.00	3.97	0.00	0.00	0.00	0.00	41.52	0.00	0.00	0.00	0.00	0.00	30.03	4.65	1.74
Good condition	14.53	10.85	100.00	0.00	0.00	0.00	0.00	4.12	100.00	0.00	0.00	0.00	90.43	0.00	0.00	100.00	0.00	0.00	0.00	4.33	0.00	100.00	100.00	0.79	10.13	38.88
n	*10*	*7*	*2*	*1*	*0*	*0*	*1*	*3*	*1*	*0*	*0*	*0*	*4*	*0*	*0*	*1*	*0*	*2*	*0*	*2*	*0*	*2*	*1*	*3*	*7*	*3*
<MSP29_19> Approximately what percentage of this removed lighting equiment was broken or not working prior to installing the FLUORESCENT FIXTURES?																										
0	15.74	16.20	35.49	0.00	0.00	0.00	0.00	9.11	100.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	100.00	0.00	4.33	0.00	35.49	100.00	30.82	11.25	40.62
60	9.08	0.00	0.00	100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	69.18	0.00	59.38
100	71.81	83.80	0.00	0.00	0.00	0.00	0.00	90.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	95.67	0.00	0.00	0.00	0.00	84.77	0.00

* Values are shown as percent of respondents weighted by kWh.
* n is the number of respondents.

	ALL	PG&E(%)	SCE(%)	SDG&E(%)	PG&E Custom Program(%)	SCE Custom Program(%)	SDG&E Custom Program(%)	PG&E Deemed Program(%)	SCE Deemed Program(%)	SDG&E Deemed Program(%)	SCE Direct Install Program(%)	SDG&E Direct Install Program(%)	PG&E LGP Program(%)	SCE LGP Program(%)	PG&E L3P Program(%)	SCE L3P Program(%)	SDG&E L3P Program(%)	CFL Basic(%)	CFL Reflector(%)	High Bay(%)	HID(%)	LF Delamp(%)	Linear(%)	Occupancy Sensor(%)	Deemed(%)	All Calculated(%)
102	3.37	0.00	64.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	64.51	0.00	0.00	3.98	0.00
n	*10*	*7*	*2*	*1*	*0*	*0*	*1*	*3*	*1*	*0*	*0*	*0*	*4*	*0*	*0*	*1*	*0*	*2*	*0*	*2*	*0*	*2*	*1*	*3*	*7*	*3*
<MSP23_20> In what year did you install the Fat or Thicker FLUORESCENT FIXTURES?																										
2010	10.58	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	57.51	0.00	11.56	0.00
2012	89.04	99.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	96.37	0.00	100.00	0.00	0.00	90.69	0.00	100.00	0.00	0.00	40.82	0.00	88.36	96.37
Don't Know	0.38	0.35	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.63	0.00	0.00	0.00	100.00	9.31	0.00	0.00	0.00	0.00	1.68	0.00	0.08	3.63
n	*6*	*4*	*1*	*1*	*0*	*0*	*0*	*0*	*0*	*0*	*1*	*0*	*3*	*0*	*1*	*0*	*1*	*2*	*0*	*1*	*0*	*0*	*3*	*0*	*3*	*3*
And in which month (or season)?																										
Winter	43.65	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	41.51	0.00	0.00	100.00
Don't Know	56.35	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	58.49	0.00	100.00	0.00
n	*3*	*2*	*1*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*1*	*0*	*2*	*0*	*0*	*0*	*0*	*1*	*0*	*0*	*0*	*0*	*2*	*0*	*1*	*2*
<MSP26_20>What type of lighting equipment was removed and replaced when you installed the Fat or Thicker FLUORESCENT FIXTURES?																										
High Performance T8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T8 fluorescent fixtures (1in. diameter b	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T10 fluorescent fixtures	8.19	9.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	96.37	0.00	0.00	0.00	0.00	90.69	0.00	0.00	0.00	0.00	40.82	0.00	0.00	96.37
T12 Fixtures (1.5in. diameter bulbs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HID (High Intensity Discharge) Fixtures-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compact Fluorescent, Screw-in Modular	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compact Fluorescent, Hardwire	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Incandescent	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Generic LED (SCREW BASE)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Exit Signs, Compact Fluorescent	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Exit Signs, LED	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Halogen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Install Reflectors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electronic Ballast	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Magnetic Ballast	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Time Clock	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Occupancy Sensor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Bypass/Delay Timers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Photocell	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other	0.31	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.68	0.00	0.00	3.63
Fat/Thick Tubes	99.62	99.65	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	96.37	0.00	100.00	0.00	0.00	90.69	0.00	100.00	0.00	0.00	98.32	0.00	99.92	96.37
Skinny/Thin Tubes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T5 Fixtures (5/8in. diameter)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Nothing removed...new euqipment	0.07	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	9.31	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.00
Other -Record	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Refused	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Don't Know	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	*6*	*4*	*1*	*1*	*0*	*0*	*0*	*0*	*0*	*0*	*1*	*0*	*3*	*0*	*1*	*0*	*1*	*2*	*0*	*1*	*0*	*0*	*3*	*0*	*3*	*3*
<MSP27_20> Approximately how old was this lighting equipment that you removed?																										
Less than 5 years old	10.89	0.35	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	3.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	59.18	0.00	11.57	3.63
Between 5 and 10 years old	89.11	99.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	96.37	0.00	100.00	0.00	0.00	100.00	0.00	100.00	0.00	0.00	40.82	0.00	88.43	96.37
n	*5*	*4*	*1*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*1*	*0*	*3*	*0*	*1*	*0*	*0*	*1*	*0*	*1*	*0*	*0*	*3*	*0*	*2*	*3*
<MSP28_20>How would you describe the condition of this removed equipment?																										
In Poor condition	89.42	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	100.00	0.00	0.00	100.00	0.00	100.00	0.00	0.00	42.49	0.00	88.43	100.00
Fair condition or	10.58	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	57.51	0.00	11.57	0.00
n	*5*	*4*	*1*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*1*	*0*	*3*	*0*	*1*	*0*	*0*	*1*	*0*	*1*	*0*	*0*	*3*	*0*	*2*	*3*
<MSP29_20> Approximately what percentage of this removed lighting equiment was broken or not working prior to installing the Fat or Thicker FLUORESCENT FIXTURES?																										
20	10.58	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	57.51	0.00	11.57	0.00
100	89.42	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	100.00	0.00	0.00	100.00	0.00	100.00	0.00	0.00	42.49	0.00	88.43	100.00
n	*5*	*4*	*1*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*1*	*0*	*3*	*0*	*1*	*0*	*0*	*1*	*0*	*1*	*0*	*0*	*3*	*0*	*2*	*3*
<MSP2A_21> How many SKINNY or THIN FLUORESCENT FIXTURESs did you purchase for this facility?																										
1	2.29	26.05	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	2.29	0.00
2	82.32	0.00	90.24	0.00	0.00	0.00	0.00	0.00	90.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	82.49	0.00
4	1.08	12.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.05	0.00	1.09	0.00

* Values are shown as percent of respondents weighted by kWh.
* n is the number of respondents.

	ALL	PG&E(%)	SCE(%)	SDG&E(%)	PG&E Custom Program(%)	SCE Custom Program(%)	SDG&E Custom Program(%)	PG&E Deemed Program(%)	SCE Deemed Program(%)	SDG&E Deemed Program(%)	SCE Direct Install Program(%)	SDG&E Direct Install Program(%)	PG&E LGP Program(%)	SCE LGP Program(%)	PG&E L3P Program(%)	SCE L3P Program(%)	SDG&E L3P Program(%)	CFL Basic(%)	CFL Reflector(%)	High Bay(%)	HID(%)	LF Delamp(%)	Linear(%)	Occupancy Sensor(%)	Deemed(%)	All Calculated(%)
15	2.21	25.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	33.95	0.00	0.00	0.00	0.00	6.11	0.00	0.00	0.00	0.00	16.67	0.00	2.00	100.00
20	3.40	36.50	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	49.35	0.00	0.00	100.00	0.00	93.89	0.00	0.00	0.00	0.00	1.60	0.00	3.40	0.00
100	8.71	0.00	9.55	0.00	0.00	0.00	0.00	0.00	9.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	72.68	0.00	8.73	0.00
n	*8*	*5*	*3*	*0*	*0*	*0*	*0*	*1*	*2*	*0*	*0*	*0*	*4*	*0*	*0*	*1*	*0*	*2*	*0*	*1*	*0*	*0*	*4*	*1*	*7*	*1*
<MSP2B_21> How many SKINNY or THIN FLUORESCENT FIXTURES did you purchase for your other locations?																										
.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
<MSP4_21>On a scale from 0 to 10, where zero indicates you Strongly Disagree and 10 indicates you Strongly Agree, please rate the following statement. My experience with the 2010-2012 Program influenced my decision to install this high efficiency																										
6	2.50	28.42	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	3.21	0.00	0.00	0.00	0.00	6.11	0.00	100.00	0.00	0.00	0.00	0.00	2.29	100.00
8	3.21	36.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	49.35	0.00	0.00	0.00	0.00	93.89	0.00	0.00	0.00	0.00	0.00	0.00	3.21	0.00
10 Strongly Agree	82.51	0.00	90.45	0.00	0.00	0.00	0.00	0.00	90.43	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	1.60	100.00	82.68	0.00
Zero Strongly Disagree	11.79	35.08	9.55	0.00	0.00	0.00	0.00	0.00	9.57	0.00	0.00	0.00	47.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	98.40	0.00	11.81	0.00
n	*8*	*5*	*3*	*0*	*0*	*0*	*0*	*1*	*2*	*0*	*0*	*0*	*4*	*0*	*0*	*1*	*0*	*2*	*0*	*1*	*0*	*0*	*4*	*1*	*7*	*1*
<MSP5_21>Why do you give it this rating?																										
Record Reason	99.76	96.34	100.00	0.00	0.00	0.00	0.00	100.00	100.00	0.00	0.00	0.00	93.89	0.00	0.00	100.00	0.00	93.89	0.00	100.00	0.00	0.00	100.00	100.00	100.00	0.00
Refused	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Don't Know	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	*5*	*3*	*2*	*0*	*0*	*0*	*0*	*1*	*1*	*0*	*0*	*0*	*2*	*0*	*0*	*1*	*0*	*2*	*0*	*1*	*0*	*0*	*1*	*1*	*4*	*1*
<MSP17_21>Why did you purchase this lighting without the financial assistance available through a utility program?																										
Too much paperwork	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Takes too long to get approval	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Needed equipment immediately (No time to	0.19	0.00	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	1.60	0.00	0.19	0.00
Program had ended	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Equipment would Not qualify PROBE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rebate wasn't important eNough	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Didn't kNow program was available	8.57	97.62	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	96.79	0.00	0.00	0.00	0.00	93.89	0.00	100.00	0.00	0.00	25.72	0.00	8.59	0.00
No program available	91.23	2.38	99.79	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	3.21	0.00	0.00	0.00	0.00	6.11	0.00	0.00	0.00	0.00	72.68	100.00	91.22	100.00
Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Refused	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Don't Know	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	*8*	*5*	*3*	*0*	*0*	*0*	*0*	*1*	*2*	*0*	*0*	*0*	*4*	*0*	*0*	*1*	*0*	*2*	*0*	*1*	*0*	*0*	*4*	*1*	*7*	*1*
<MSP19_21> Was this measure specifically recommended by a Program or Utility sponsored Audit, report or program technical specialist?																										
Yes	43.78	43.78	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	6.11	0.00	0.00	0.00	0.00	6.11	0.00	100.00	0.00	0.00	0.00	0.00	41.64	100.00
No	56.22	56.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	93.89	0.00	0.00	0.00	0.00	93.89	0.00	0.00	0.00	0.00	0.00	0.00	58.36	0.00
n	*3*	*3*	*0*	*0*	*0*	*0*	*0*	*1*	*0*	*0*	*0*	*0*	*2*	*0*	*0*	*0*	*0*	*2*	*0*	*1*	*0*	*0*	*0*	*0*	*2*	*1*
<MSP20_21> IF you had not participated in the Program, how likely is it that your organization would still have implemented this measure, using a 0 to 10 scale where 0 means you Definitely Would Not have implemented this measure and 10 means you																										
1 Definitely Would Not	0.19	0.00	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	1.60	0.00	0.19	0.00
5	91.03	0.00	99.79	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	72.68	100.00	91.22	0.00
8	0.21	2.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.21	0.00	0.00	0.00	0.00	6.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00
10 Definitely Would Have	6.29	71.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	96.79	0.00	0.00	0.00	0.00	93.89	0.00	0.00	0.00	0.00	25.72	0.00	6.30	0.00
Zero Definitely Would Not	2.29	26.05	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	2.29	0.00
n	*8*	*5*	*3*	*0*	*0*	*0*	*0*	*1*	*2*	*0*	*0*	*0*	*4*	*0*	*0*	*1*	*0*	*2*	*0*	*1*	*0*	*0*	*4*	*1*	*7*	*1*
<MSP23_21> In what year did you install the SKINNY or THIN FLUORESCENT FIXTURES?																										
2010	0.19	0.00	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	1.60	0.00	0.19	0.00
2011	10.91	25.11	9.55	0.00	0.00	0.00	0.00	0.00	9.57	0.00	0.00	0.00	33.95	0.00	0.00	0.00	0.00	6.11	0.00	0.00	0.00	0.00	89.35	0.00	10.73	100.00
2012	6.58	74.89	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	66.05	0.00	0.00	0.00	0.00	93.89	0.00	100.00	0.00	0.00	9.05	0.00	6.59	0.00
2013	82.32	0.00	90.24	0.00	0.00	0.00	0.00	0.00	90.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	82.49	0.00
n	*8*	*5*	*3*	*0*	*0*	*0*	*0*	*1*	*2*	*0*	*0*	*0*	*4*	*0*	*0*	*1*	*0*	*2*	*0*	*1*	*0*	*0*	*4*	*1*	*7*	*1*
And in which month (or season)?																										
May	88.11	0.00	90.24	0.00	0.00	0.00	0.00	0.00	90.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	88.31	0.00
June	0.22	9.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.46	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00
December	9.32	0.00	9.55	0.00	0.00	0.00	0.00	0.00	9.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	79.92	0.00	9.34	0.00
Don't Know	2.34	90.54	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	90.54	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	20.08	0.00	2.35	0.00
n	*5*	*2*	*3*	*0*	*0*	*0*	*0*	*0*	*2*	*0*	*0*	*0*	*2*	*0*	*0*	*1*	*0*	*1*	*0*	*0*	*0*	*0*	*3*	*1*	*4*	*1*

* Values are shown as percent of respondents weighted by kWh.
* n is the number of respondents.

	ALL	PG&E(%)	SCE(%)	SDG&E(%)	PG&E Custom Program(%)	SCE Custom Program(%)	SDG&E Custom Program(%)	PG&E Deemed Program(%)	SCE Deemed Program(%)	SDG&E Deemed Program(%)	SCE Direct Install Program(%)	SDG&E Direct Install Program(%)	PG&E LGP Program(%)	SCE LGP Program(%)	PG&E L3P Program(%)	SCE L3P Program(%)	SDG&E L3P Program(%)	CFL Basic(%)	CFL Reflector(%)	High Bay(%)	HID(%)	LF Delamp(%)	Linear(%)	Occupancy Sensor(%)	Deemed(%)	All Calculated(%)
<MSP25_21> Did you receive a rebate for the SKINNY or THIN FLUORESCENT FIXTURES?																										
No	100.00	100.00	100.00	0.00	0.00	0.00	0.00	100.00	100.00	0.00	0.00	0.00	100.00	0.00	0.00	100.00	0.00	100.00	0.00	100.00	0.00	0.00	100.00	100.00	100.00	100.00
n	*8*	*5*	*3*	*0*	*0*	*0*	*0*	*1*	*2*	*0*	*0*	*0*	*4*	*0*	*0*	*1*	*0*	*2*	*0*	*1*	*0*	*0*	*4*	*1*	*7*	*1*
<MSP26_21>What type of lighting equipment was removed and replaced when you installed the SKINNY or THIN FLUORESCENT FIXTURES?																										
High Performance T8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T8 fluorescent fixtures (1in. diameter b	82.32	0.00	90.24	0.00	0.00	0.00	0.00	0.00	90.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	82.49	0.00
T10 fluorescent fixtures	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T12 Fixtures (1.5in. diameter bulbs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HID (High Intensity Discharge) Fixtures-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compact Fluorescent, Screw-in Modular	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compact Fluorescent, Hardwire	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Incandescent	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Exit Signs, Compact Fluorescent	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Exit Signs, LED	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Halogen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Install Reflectors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electronic Ballast	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Magnetic Ballast	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Time Clock	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Occupancy Sensor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Bypass/Delay Timers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Photocell	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other	0.19	0.00	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	1.60	0.00	0.19	0.00
Fat/Thick Tubes	5.49	62.54	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	49.35	0.00	0.00	0.00	0.00	93.89	0.00	100.00	0.00	0.00	0.00	0.00	5.50	0.00
Skinny/Thin Tubes	83.61	14.72	90.24	0.00	0.00	0.00	0.00	0.00	90.43	0.00	0.00	0.00	19.91	0.00	0.00	0.00	0.00	6.11	0.00	0.00	0.00	0.00	9.05	100.00	83.58	100.00
T5 Fixtures (5/8in. diameter)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Generic LED (SCREW BASE)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Nothing removed...new euqipment	10.70	22.73	9.55	0.00	0.00	0.00	0.00	0.00	9.57	0.00	0.00	0.00	30.74	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	89.35	0.00	10.73	0.00
Other -Record	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Refused	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Don't Know	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	*8*	*5*	*3*	*0*	*0*	*0*	*0*	*1*	*2*	*0*	*0*	*0*	*4*	*0*	*0*	*1*	*0*	*2*	*0*	*1*	*0*	*0*	*4*	*1*	*7*	*1*
<MSP27_21> Approximately how old was this lighting equipment that you removed?																										
Less than 5 years old	92.63	3.08	100.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	4.64	0.00	0.00	100.00	0.00	6.11	0.00	0.00	0.00	0.00	15.03	100.00	92.62	100.00
Between 5 and 10 years old	4.80	63.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	95.36	0.00	0.00	0.00	0.00	93.89	0.00	0.00	0.00	0.00	84.97	0.00	4.82	0.00
Between 10 and 15 years old or	2.56	33.71	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	2.57	0.00
n	*6*	*4*	*2*	*0*	*0*	*0*	*0*	*1*	*1*	*0*	*0*	*0*	*3*	*0*	*0*	*1*	*0*	*2*	*0*	*1*	*0*	*0*	*2*	*1*	*5*	*1*
<MSP28_21> How would you describe the condition of this removed equipment?																										
In Poor condition	98.57	84.02	99.77	0.00	0.00	0.00	0.00	100.00	100.00	0.00	0.00	0.00	75.89	0.00	0.00	0.00	0.00	100.00	0.00	100.00	0.00	0.00	0.00	100.00	98.57	100.00
Fair condition or	1.21	15.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	24.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	84.97	0.00	1.22	0.00
Good condition	0.21	0.00	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	15.03	0.00	0.22	0.00
n	*6*	*4*	*2*	*0*	*0*	*0*	*0*	*1*	*1*	*0*	*0*	*0*	*3*	*0*	*0*	*1*	*0*	*2*	*0*	*1*	*0*	*0*	*2*	*1*	*5*	*1*
<MSP29_21> Approximately what percentage of this removed lighting equiment was broken or not working prior to installing the SKINNY or THIN FLUORESCENT FIXTURES?																										
15	0.23	3.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.64	0.00	0.00	0.00	0.00	6.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00
20	3.59	47.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	71.25	0.00	0.00	0.00	0.00	93.89	0.00	0.00	0.00	0.00	0.00	0.00	3.60	0.00
50	1.43	15.98	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	24.11	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	1.43	0.00
100	94.75	33.71	99.77	0.00	0.00	0.00	0.00	100.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	100.00	94.97	0.00
n	*6*	*4*	*2*	*0*	*0*	*0*	*0*	*1*	*1*	*0*	*0*	*0*	*3*	*0*	*0*	*1*	*0*	*2*	*0*	*1*	*0*	*0*	*2*	*1*	*5*	*1*
<MSP2A_22>How many T5 FIXTURES did you purchase for this facility?																										
1	9.21	0.00	38.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	43.73	0.00	9.36	0.00
4	46.19	70.20	0.00	0.00	0.00	0.00	0.00	74.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	68.55	0.00	0.00	0.00	0.00	46.96	0.00
5	2.22	3.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	51.82	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.04	9.10	0.97	77.02
6	1.66	0.00	7.03	0.00	0.00	0.00	0.00	0.00	11.74	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.47	0.00	0.00	0.00	0.00	1.69	0.00
12	3.45	5.24	0.00	0.00	0.00	0.00	0.00	5.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.12	0.00	0.00	0.00	0.00	3.51	0.00
15	7.35	0.00	30.71	0.91	0.00	0.00	0.00	0.00	51.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	10.77	0.00	0.00	0.46	0.00	7.38	5.80
20	5.24	0.00	22.18	0.00	0.00	0.00	0.00	0.00	37.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.78	0.00	0.00	0.00	0.00	5.33	0.00
24	10.48	0.00	0.00	99.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	49.77	0.00	10.65	0.00
25	0.06	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.25	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.00	0.00	0.00	0.00	0.06	0.00

* Values are shown as percent of respondents weighted by kWh.
* n is the number of respondents.

	ALL	PG&E(%)	SCE(%)	SDG&E(%)	PG&E Custom Program(%)	SCE Custom Program(%)	SDG&E Custom Program(%)	PG&E Deemed Program(%)	SCE Deemed Program(%)	SDG&E Deemed Program(%)	SCE Direct Install Program(%)	SDG&E Direct Install Program(%)	PG&E LGP Program(%)	SCE LGP Program(%)	PG&E L3P Program(%)	SCE L3P Program(%)	SDG&E L3P Program(%)	CFL Basic(%)	CFL Reflector(%)	High Bay(%)	HID(%)	LF Delamp(%)	Linear(%)	Occupancy Sensor(%)	Deemed(%)	All Calculated(%)
50	0.26	0.00	1.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.51	0.00	15.89
100	9.23	14.03	0.00	0.00	0.00	0.00	0.00	14.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	88.39	9.38	0.00
300	0.02	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.86	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.29
Refused	4.63	7.04	0.00	0.00	0.00	0.00	0.00	5.65	0.00	0.00	0.00	0.00	45.06	0.00	0.00	0.00	0.00	0.00	0.00	5.24	100.00	0.00	0.00	0.00	4.71	0.00
n	*16*	*9*	*5*	*2*	*0*	*0*	*0*	*4*	*3*	*0*	*1*	*1*	*4*	*0*	*1*	*1*	*1*	*1*	*0*	*7*	*1*	*0*	*4*	*3*	*12*	*4*
<MSP2B_22> How many T5 FIXTURES did you purchase for your other locations?																										
3	4.22	6.48	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	67.98	0.00	0.00	0.00	0.00	56.03	0.00
5	1.52	2.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	53.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.67	0.00	0.00	1.65
14	1.99	0.00	28.63	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	32.02	0.00	0.00	0.00	0.00	26.40	0.00
15	0.11	0.00	0.00	0.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.41	0.00	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.12
30	3.68	1.70	37.17	0.00	1.90	52.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.83	100.00	0.00	3.98
44	56.93	87.42	0.00	0.00	98.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	62.33	0.00	0.00	61.57
65	27.82	0.00	0.00	99.59	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	99.59	0.00	0.00	0.00	0.00	0.00	30.46	0.00	0.00	30.08
2000	1.32	2.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	46.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	17.57	0.00
Don't Know	2.40	0.04	34.19	0.00	0.00	47.91	0.00	0.00	0.00	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	2.60	0.00	0.00	2.59
n	*12*	*7*	*3*	*2*	*2*	*2*	*0*	*2*	*1*	*0*	*0*	*0*	*3*	*0*	*0*	*0*	*2*	*1*	*0*	*3*	*1*	*0*	*6*	*1*	*4*	*8*
<MSP4_22> On a scale from 0 to 10, where zero indicates you Strongly Disagree and 10 indicates you Strongly Agree, please rate the following statement. My experience with the 2010-2012 Program influenced my decision to install this high efficiency																										
2	1.13	0.00	7.15	0.00	0.00	47.91	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.07	0.00	0.00	2.56
3	0.52	0.81	0.00	0.00	1.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.12	0.00	1.19
4	0.63	0.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	45.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	1.12	0.00
5	27.78	42.75	0.00	0.00	98.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	51.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	50.88	0.00	0.00	63.00
7	2.01	3.09	0.00	0.00	0.00	0.00	0.00	5.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.24	0.00	0.00	0.00	0.00	3.59	0.00
8	1.49	0.83	5.98	0.00	0.00	0.00	0.00	0.00	11.74	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	2.47	0.00	0.00	0.00	8.36	2.66	0.00
10 Strongly Agree	36.43	43.42	52.03	0.00	0.00	0.00	0.00	79.55	37.02	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	81.45	0.00	0.00	9.59	0.00	65.16	0.00
Zero Strongly Disagree	30.02	8.14	34.84	100.00	0.00	52.09	0.00	14.79	51.24	0.00	0.00	100.00	3.12	0.00	0.00	100.00	100.00	100.00	0.00	10.85	0.00	0.00	37.47	83.52	27.47	33.25
n	*22*	*12*	*7*	*3*	*2*	*2*	*0*	*5*	*3*	*0*	*1*	*1*	*4*	*0*	*1*	*1*	*2*	*1*	*0*	*8*	*1*	*0*	*8*	*4*	*13*	*9*
<MSP5_22>Why do you give it this rating?																										
Record Reason	100.00	100.00	100.00	0.00	0.00	0.00	0.00	100.00	100.00	0.00	100.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	100.00	100.00	100.00	0.00
Refused	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Don't Know	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	*8*	*5*	*3*	*0*	*0*	*0*	*0*	*4*	*2*	*0*	*1*	*0*	*0*	*0*	*1*	*0*	*0*	*0*	*0*	*6*	*0*	*0*	*1*	*1*	*8*	*0*
<MSP17_22>Why did you purchase this lighting without the financial assistance available through a utility program?																										
Too much paperwork	34.61	51.81	5.98	0.00	98.10	0.00	0.00	14.79	11.74	0.00	0.00	0.00	97.75	0.00	0.00	0.00	0.00	100.00	0.00	2.47	100.00	0.00	50.88	81.21	12.20	63.03
Takes too long to get approval	1.36	2.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	97.75	0.00	0.00	0.00	0.00	100.00	0.00	0.00	100.00	0.00	1.32	0.00	1.12	1.67
Needed equipment immediately (No time to	28.61	1.80	52.03	100.00	0.00	0.00	0.00	0.00	37.02	0.00	100.00	100.00	45.06	0.00	100.00	0.00	100.00	0.00	0.00	7.78	100.00	0.00	44.81	8.36	27.44	30.11
Program had ended	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Equipment would Not qualify PROBE	2.63	4.05	0.00	0.00	0.00	0.00	0.00	5.65	0.00	0.00	0.00	0.00	45.06	0.00	0.00	0.00	0.00	0.00	0.00	5.24	100.00	0.00	0.00	0.00	4.71	0.00
Rebate wasn't important eNough	2.10	0.05	13.13	0.00	0.00	47.91	0.00	0.00	11.74	0.00	0.00	0.00	2.25	0.00	0.00	0.00	0.00	0.00	0.00	2.55	0.00	0.00	2.07	0.00	1.75	2.56
Didn't kNow program was available	14.30	3.02	78.15	0.00	0.00	0.00	0.00	5.53	88.26	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	23.66	0.00	0.00	9.59	0.00	25.57	0.00
No program available	2.15	3.09	0.95	0.00	0.00	0.00	0.00	5.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	5.24	0.00	0.00	0.00	2.31	3.59	0.34
Other	30.16	44.30	8.71	0.00	1.90	52.09	0.00	79.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	73.79	0.00	0.00	2.25	10.43	50.55	4.31
Refused	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Don't Know	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	*22*	*12*	*7*	*3*	*2*	*2*	*0*	*5*	*3*	*0*	*1*	*1*	*4*	*0*	*1*	*1*	*2*	*1*	*0*	*8*	*1*	*0*	*8*	*4*	*13*	*9*
<MSP19_22> Was this measure specifically recommended by a Program or Utility sponsored Audit, report or program technical specialist?																										
Yes	68.25	0.00	81.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	80.34	0.00	89.27	0.00
No	31.75	100.00	18.98	100.00	100.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	100.00	0.00	19.66	100.00	10.73	100.00
n	*5*	*2*	*2*	*1*	*1*	*1*	*0*	*0*	*0*	*0*	*1*	*0*	*1*	*0*	*0*	*0*	*1*	*0*	*0*	*0*	*1*	*0*	*3*	*1*	*2*	*3*
<MSP20_22> IF you had not participated in the Program, how likely is it that your organization would still have implemented this measure, using a 0 to 10 scale where 0 means you Definitely Would Not have implemented this measure and 10 means you																										
2	26.26	40.40	0.00	0.00	0.00	0.00	0.00	74.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	68.55	0.00	0.00	0.00	0.00	46.96	0.00
3	5.23	0.00	33.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.59	0.00	9.36	0.00
5	6.68	1.11	0.00	30.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	51.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.23	0.00	10.65	1.64
6	1.96	3.02	0.00	0.00	0.00	0.00	0.00	5.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.12	0.00	0.00	0.00	0.00	3.51	0.00
7	2.01	3.09	0.00	0.00	0.00	0.00	0.00	5.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.24	0.00	0.00	0.00	0.00	3.59	0.00
8	1.13	0.00	7.15	0.00	0.00	47.91	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.07	0.00	0.00	2.56
10 Definitely Would Have	56.20	51.55	59.70	69.03	100.00	52.09	0.00	14.79	100.00	0.00	0.00	0.00	48.18	0.00	0.00	100.00	100.00	100.00	0.00	21.10	100.00	0.00	76.12	91.64	24.96	95.80
Zero Definitely Would Not	0.54	0.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.36	0.97	0.00

* Values are shown as percent of respondents weighted by kWh.
* n is the number of respondents.

	ALL	PG&E(%)	SCE(%)	SDG&E(%)	PG&E Custom Program(%)	SCE Custom Program(%)	SDG&E Custom Program(%)	PG&E Deemed Program(%)	SCE Deemed Program(%)	SDG&E Deemed Program(%)	SCE Direct Install Program(%)	SDG&E Direct Install Program(%)	PG&E LGP Program(%)	SCE LGP Program(%)	PG&E L3P Program(%)	SCE L3P Program(%)	SDG&E L3P Program(%)	CFL Basic(%)	CFL Reflector(%)	High Bay(%)	HID(%)	LF Delamp(%)	Linear(%)	Occupancy Sensor(%)	Deemed(%)	All Calculated(%)
n	*22*	*12*	*7*	*3*	*2*	*2*	*0*	*5*	*3*	*0*	*1*	*1*	*4*	*0*	*1*	*1*	*2*	*1*	*0*	*8*	*1*	*0*	*8*	*4*	*13*	*9*
<MSP23_22> In what year did you install the T5 FIXTURES?																										
2010	26.98	41.52	0.00	0.00	0.00	0.00	0.00	74.03	0.00	0.00	0.00	0.00	51.82	0.00	0.00	0.00	0.00	0.00	0.00	68.55	0.00	0.00	1.32	0.00	46.96	1.64
2011	14.36	3.03	78.15	0.28	0.00	0.00	0.00	5.53	88.26	0.00	100.00	0.00	0.86	0.00	0.00	0.00	0.41	100.00	0.00	23.66	0.00	0.00	9.69	0.00	25.57	0.15
2012	58.51	55.45	20.90	99.72	100.00	100.00	0.00	20.45	11.74	0.00	0.00	100.00	47.32	0.00	100.00	0.00	99.59	0.00	0.00	7.78	100.00	0.00	88.99	97.69	27.46	97.87
2013	0.15	0.00	0.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.31	0.00	0.34
n	*22*	*12*	*7*	*3*	*2*	*2*	*0*	*5*	*3*	*0*	*1*	*1*	*4*	*0*	*1*	*1*	*2*	*1*	*0*	*8*	*1*	*0*	*8*	*4*	*13*	*9*
And in which month (or season)?																										
January	0.13	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.91	0.00	0.00	5.80
July	7.18	0.00	23.86	0.00	0.00	0.00	0.00	0.00	41.94	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.44	0.00	0.00	0.00	0.00	7.35	0.00
November	9.94	0.00	33.03	0.00	0.00	0.00	0.00	0.00	58.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.68	0.00	0.00	0.00	0.00	10.17	0.00
December	77.64	93.19	41.92	0.00	0.00	0.00	0.00	93.05	0.00	0.00	100.00	0.00	98.36	0.00	0.00	0.00	0.00	0.00	0.00	74.34	0.00	0.00	99.09	0.00	77.65	77.02
Summer	4.72	6.77	0.00	0.00	0.00	0.00	0.00	6.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.55	0.00	0.00	0.00	0.00	4.83	0.00
Don't Know	0.39	0.04	1.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.64	0.00	0.00	100.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	17.18
n	*10*	*5*	*4*	*1*	*0*	*0*	*0*	*3*	*2*	*0*	*1*	*0*	*2*	*0*	*0*	*1*	*1*	*1*	*0*	*5*	*0*	*0*	*3*	*1*	*6*	*4*
<MSP25_22> Did you receive a rebate for the T5 FIXTURES?																										
Yes	1.65	0.81	7.15	0.00	1.90	47.91	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.07	8.12	0.00	3.75
No	98.35	99.19	92.85	100.00	98.10	52.09	0.00	100.00	100.00	0.00	100.00	100.00	100.00	0.00	100.00	100.00	100.00	100.00	0.00	100.00	100.00	0.00	97.93	91.88	100.00	96.25
n	*22*	*12*	*7*	*3*	*2*	*2*	*0*	*5*	*3*	*0*	*1*	*1*	*4*	*0*	*1*	*1*	*2*	*1*	*0*	*8*	*1*	*0*	*8*	*4*	*13*	*9*
<MSP26_22>What type of lighting equipment was removed and replaced when you installed the T5 FIXTURES?																										
High Performance T8	0.63	0.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	45.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	1.12	0.00
T8 fluorescent fixtures (1in. diameter b	5.83	8.88	0.00	0.28	1.90	0.00	0.00	14.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.41	0.00	0.00	0.00	0.00	0.00	0.10	89.33	9.38	1.31
T10 fluorescent fixtures	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T12 Fixtures (1.5in. diameter bulbs)	45.55	49.75	0.00	68.75	98.10	0.00	0.00	11.18	0.00	0.00	0.00	0.00	54.94	0.00	100.00	0.00	99.59	100.00	0.00	10.43	0.00	0.00	75.09	8.36	8.12	93.01
HID (High Intensity Discharge) Fixtures-	27.38	40.40	7.15	0.00	0.00	47.91	0.00	74.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	68.55	0.00	0.00	2.07	0.00	46.96	2.56
Compact Fluorescent, Screw-in Modular	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compact Fluorescent, Hardwire	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Incandescent	4.12	0.00	26.13	0.00	0.00	0.00	0.00	0.00	51.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.77	0.00	0.00	0.00	0.00	7.38	0.00
Exit Signs, Compact Fluorescent	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Exit Signs, LED	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Halogen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Install Reflectors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electronic Ballast	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Magnetic Ballast	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Time Clock	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Occupancy Sensor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Bypass/Delay Timers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Photocell	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other	0.15	0.00	0.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.31	0.00	0.34
Fat/Thick Tubes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Skinny/Thin Tubes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T5 Fixtures (5/8in. diameter)	5.96	0.00	0.00	30.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.91	0.00	10.65	0.00
Generic LED (SCREW BASE)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Nothing removed...new euqipment	5.15	0.00	32.63	0.00	0.00	52.09	0.00	0.00	48.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.25	0.00	0.00	2.25	0.00	7.02	2.78
Other -Record	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Refused	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Don't Know	5.23	0.00	33.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.59	0.00	9.36	0.00
n	*22*	*12*	*7*	*3*	*2*	*2*	*0*	*5*	*3*	*0*	*1*	*1*	*4*	*0*	*1*	*1*	*2*	*1*	*0*	*8*	*1*	*0*	*8*	*4*	*13*	*9*
<MSP27_22> Approximately how old was this lighting equipment that you removed?																										
Less than 5 years old	33.96	40.40	0.00	30.97	0.00	0.00	0.00	74.03	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	76.38	0.00	0.00	11.16	0.00	61.97	0.00
Between 5 and 10 years old	8.32	4.00	49.21	0.28	0.00	0.00	0.00	5.53	0.00	0.00	100.00	0.00	45.93	0.00	0.00	0.00	0.41	100.00	0.00	5.70	100.00	0.00	9.91	0.00	15.05	0.16
Between 10 and 15 years old or	56.41	53.91	49.39	68.75	98.10	100.00	0.00	20.45	100.00	0.00	0.00	0.00	51.82	0.00	0.00	0.00	99.59	0.00	0.00	17.83	0.00	0.00	78.93	81.21	21.88	98.27
More than 15 years old?	1.31	1.69	1.40	0.00	1.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.25	0.00	100.00	100.00	0.00	0.00	0.00	0.09	0.00	0.00	0.00	18.79	1.10	1.57
n	*19*	*12*	*4*	*3*	*2*	*1*	*0*	*5*	*1*	*0*	*1*	*1*	*4*	*0*	*1*	*1*	*2*	*1*	*0*	*6*	*1*	*0*	*7*	*4*	*11*	*8*
<MSP28_22> How would you describe the condition of this removed equipment?																										
In Poor condition	41.60	43.28	50.61	30.97	100.00	0.00	0.00	0.00	0.00	0.00	100.00	100.00	0.00	0.00	100.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	71.66	18.79	22.57	64.69
Fair condition or	20.17	7.28	10.61	69.03	0.00	100.00	0.00	11.18	0.00	0.00	0.00	0.00	54.94	0.00	0.00	0.00	100.00	100.00	0.00	11.63	0.00	0.00	28.34	0.00	7.69	35.31

* Values are shown as percent of respondents weighted by kWh.
* n is the number of respondents.

	ALL	PG&E(%)	SCE(%)	SDG&E(%)	PG&E Custom Program(%)	SCE Custom Program(%)	SDG&E Custom Program(%)	PG&E Deemed Program(%)	SCE Deemed Program(%)	SDG&E Deemed Program(%)	SCE Direct Install Program(%)	SDG&E Direct Install Program(%)	PG&E LGP Program(%)	SCE LGP Program(%)	PG&E L3P Program(%)	SCE L3P Program(%)	SDG&E L3P Program(%)	CFL Basic(%)	CFL Reflector(%)	High Bay(%)	HID(%)	LF Delamp(%)	Linear(%)	Occupancy Sensor(%)	Deemed(%)	All Calculated(%)
Good condition	38.22	49.44	38.78	0.00	0.00	0.00	0.00	88.82	100.00	0.00	0.00	0.00	45.06	0.00	0.00	0.00	0.00	0.00	0.00	88.37	100.00	0.00	0.00	81.21	69.75	0.00
n	*19*	*12*	*4*	*3*	*2*	*1*	*0*	*5*	*1*	*0*	*1*	*1*	*4*	*0*	*1*	*1*	*2*	*1*	*0*	*6*	*1*	*0*	*7*	*4*	*11*	*8*
<MSP29_22> Approximately what percentage of this removed lighting equiment was broken or not working prior to installing the T5 FIXTURES?																										
0	40.96	53.36	38.78	0.28	0.00	0.00	0.00	94.47	100.00	0.00	0.00	0.00	45.06	0.00	100.00	0.00	0.41	0.00	0.00	94.21	100.00	0.00	0.10	89.57	74.64	0.13
5	14.10	0.00	1.40	68.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	99.59	0.00	0.00	0.00	0.00	0.00	24.77	2.31	0.00	31.19
7	0.76	1.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	51.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.35	0.00	0.00	1.69
10	0.55	0.81	0.00	0.00	1.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.12	0.00	1.22
15	2.07	3.02	0.00	0.00	0.00	0.00	0.00	5.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.70	0.00	0.00	0.00	0.00	3.77	0.00
20	0.01	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.86	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03
25	1.19	0.00	10.61	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.11	0.00	0.00	2.63
50	28.56	41.69	0.00	0.00	98.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.25	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.00	0.00	50.69	0.00	0.06	63.11
100	11.80	0.00	49.21	30.97	0.00	0.00	0.00	0.00	0.00	0.00	100.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.96	0.00	21.53	0.00
n	*19*	*12*	*4*	*3*	*2*	*1*	*0*	*5*	*1*	*0*	*1*	*1*	*4*	*0*	*1*	*1*	*2*	*1*	*0*	*6*	*1*	*0*	*7*	*4*	*11*	*8*
<MSP2A_23> How many GENERIC SCREW BASED LED BULBS did you purchase for this facility?																										
1	0.16	1.45	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.08	0.33	0.00
2	0.71	6.32	0.00	0.00	8.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.82	0.00	0.00	1.42
6	0.05	0.11	0.00	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.47	0.00	0.00	0.00	0.11	0.76	0.00	0.00	0.00	0.00	0.01	0.00	0.09	0.00
8	0.05	0.21	0.00	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.73	0.88	0.00	0.00	0.00	0.00	0.00	4.84	0.00	0.00	6.05	0.00	0.00	0.10	0.00
10	0.19	0.21	0.00	0.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	86.27	0.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.19	0.30	0.33	0.05
20	0.37	3.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	93.95	0.00	0.00	0.74	0.00
24	44.63	0.00	77.13	0.00	0.00	0.00	0.00	0.00	98.86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	51.72	0.00	89.52	0.00
30	17.72	68.27	17.36	0.00	91.52	100.00	0.00	0.00	1.14	0.00	0.00	0.00	0.00	0.00	0.00	5.92	0.00	0.00	95.16	0.00	0.00	0.00	11.04	97.62	1.43	33.92
36	0.03	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.06	0.00
40	0.52	4.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	19.18	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	1.04	0.00
50	1.75	15.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	64.87	0.00	0.00	0.00	0.00	39.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.48
60	0.03	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.06
80	3.94	0.00	0.00	12.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.84	0.00	0.00	0.00	0.00	0.00	4.56	0.00	0.00	7.85
100	25.11	0.00	0.96	79.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.54	80.05	0.35	0.00	0.00	0.00	0.00	29.08	0.00	1.14	48.94
200	2.60	0.00	4.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	77.53	0.00	59.17	0.00	0.00	0.00	0.00	0.00	0.00	5.22	0.00
400	2.15	0.00	0.00	6.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.00	0.00	0.00	0.00	0.00	0.00	2.49	0.00	0.00	4.28
n	*25*	*9*	*7*	*9*	*2*	*1*	*0*	*1*	*2*	*1*	*0*	*2*	*6*	*1*	*0*	*3*	*6*	*4*	*2*	*1*	*0*	*2*	*13*	*3*	*15*	*10*
<MSP2B_23>How many GENERIC SCREW BASED LED BULBSdid you purchase for your other locations?																										
1	22.48	0.00	50.91	0.00	0.00	83.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	43.40	0.00	0.00	39.95
12	0.39	0.90	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.27	0.90	0.00
17	14.41	0.00	32.63	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	99.60	0.00	0.00	32.95	0.00
24	0.06	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.40	0.00	0.00	0.13	0.00
25	1.48	0.00	3.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	95.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.86	0.00	3.39	0.00
30	18.50	42.32	0.00	0.00	69.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	59.62	0.00	32.87
40	16.51	0.00	9.92	100.00	0.00	16.30	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.45	39.11	27.75	7.78
100	22.05	50.45	0.00	0.00	30.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	42.56	0.00	31.81	14.47
300	1.41	0.00	3.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.56	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	2.72	0.00	3.06	0.13
Don't Know	2.71	6.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	97.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	4.81
n	*13*	*6*	*6*	*1*	*2*	*2*	*0*	*1*	*1*	*1*	*0*	*0*	*2*	*2*	*1*	*1*	*0*	*0*	*0*	*0*	*1*	*2*	*7*	*3*	*7*	*6*
<MSP4_23>On a scale from 0 to 10, where zero indicates you Strongly Disagree and 10 indicates you Strongly Agree, please rate the following statement. My experience with the 2010-2012 Program influenced my decision to install this high efficiency																										
1 Strongly Disagree	3.18	0.00	0.00	10.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.84	0.00	0.00	0.00	0.00	0.00	4.02	0.00	0.00	6.98
3	0.04	0.06	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.33	0.00	0.00	0.00	0.11	0.76	0.00	0.00	0.00	0.00	0.01	0.00	0.07	0.00
5	68.53	29.23	81.42	68.29	0.00	83.70	0.00	0.00	87.30	0.00	0.00	0.00	13.54	0.00	100.00	0.00	80.00	0.00	0.00	100.00	0.00	0.00	86.10	0.00	75.70	59.98
7	1.41	8.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	45.78	0.00	0.00	0.00	0.00	39.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.09
8	0.63	0.00	0.93	0.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	86.27	0.00	95.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.80	0.00	1.16	0.00
9	0.02	0.00	0.00	0.08	0.00	0.00	0.00	0.00	0.00	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.04	0.00
10 Strongly Agree	6.26	21.48	4.70	0.00	34.76	0.00	0.00	100.00	1.01	0.00	0.00	0.00	9.68	0.00	0.00	77.53	0.00	59.17	95.16	0.00	0.00	5.80	4.18	1.27	5.43	7.24
Zero Strongly Disagree	19.02	35.89	12.95	20.11	65.24	16.30	0.00	0.00	11.70	99.40	0.00	13.73	1.24	4.56	0.00	22.47	7.05	0.35	4.84	0.00	0.00	94.20	4.85	98.73	17.60	20.71
Don't Know	0.91	5.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	29.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	1.99
n	*32*	*12*	*10*	*10*	*3*	*2*	*0*	*1*	*3*	*2*	*0*	*2*	*7*	*2*	*1*	*3*	*6*	*4*	*2*	*1*	*1*	*3*	*17*	*4*	*19*	*13*
<MSP5_23>Why do you give it this rating?																										
Record Reason	100.00	100.00	100.00	100.00	100.00	0.00	0.00	100.00	100.00	100.00	0.00	100.00	100.00	100.00	0.00	100.00	0.00	100.00	100.00	0.00	0.00	100.00	100.00	100.00	100.00	100.00
Refused	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Don't Know	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

* Values are shown as percent of respondents weighted by kWh.
* n is the number of respondents.

	ALL	PG&E(%)	SCE(%)	SDG&E(%)	PG&E Custom Program(%)	SCE Custom Program(%)	SDG&E Custom Program(%)	PG&E Deemed Program(%)	SCE Deemed Program(%)	SDG&E Deemed Program(%)	SCE Direct Install Program(%)	SDG&E Direct Install Program(%)	PG&E LGP Program(%)	SCE LGP Program(%)	PG&E L3P Program(%)	SCE L3P Program(%)	SDG&E L3P Program(%)	CFL Basic(%)	CFL Reflector(%)	High Bay(%)	HID(%)	LF Delamp(%)	Linear(%)	Occupancy Sensor(%)	Deemed(%)	All Calculated(%)
n	*10*	*5*	*3*	*2*	*2*	*0*	*0*	*1*	*1*	*1*	*0*	*1*	*2*	*1*	*0*	*1*	*0*	*2*	*1*	*0*	*0*	*1*	*5*	*1*	*7*	*3*
<MSP17_23>Why did you purchase this lighting without the financial assistance available through a utility program?																										
Too much paperwork	18.42	0.00	14.08	37.45	0.00	83.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	43.86	0.35	0.00	0.00	0.00	0.00	23.27	0.00	0.02	40.33
Takes too long to get approval	7.57	0.00	14.08	0.09	0.00	83.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.76	0.00	0.00	0.00	0.00	9.53	0.00	0.05	16.53
Needed equipment immediately (No time to	6.08	1.72	10.79	0.00	0.00	0.00	0.00	0.00	11.70	0.00	0.00	0.00	9.68	95.44	0.00	16.54	0.00	0.00	0.00	0.00	0.00	99.63	1.20	0.00	11.18	0.00
Program had ended	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Equipment would Not qualify PROBE	8.34	35.70	3.97	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	45.78	4.56	100.00	77.53	0.00	98.89	0.00	0.00	0.00	0.00	5.93	1.27	12.70	3.15
Rebate wasn't important eNough	13.88	35.67	14.08	0.46	65.24	83.70	0.00	0.00	0.00	0.00	0.00	86.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.70	59.51	0.24	30.12
Didn't kNow program was available	2.95	5.76	0.30	6.14	6.04	0.00	0.00	0.00	0.00	0.60	0.00	13.73	13.87	0.00	0.00	5.92	7.00	0.00	4.84	100.00	0.00	0.00	3.17	0.00	1.17	5.06
No program available	0.43	0.11	0.78	0.00	0.00	0.00	0.00	0.00	1.01	0.00	0.00	0.00	0.62	0.00	0.00	0.00	0.00	0.00	95.16	0.00	0.00	0.37	0.00	0.00	0.80	0.00
Other	58.62	15.81	74.01	55.87	28.71	16.30	0.00	0.00	87.30	99.40	0.00	0.00	0.62	0.00	0.00	77.53	49.02	59.17	0.00	0.00	0.00	0.00	66.27	39.22	77.71	35.88
Refused	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Don't Know	0.91	5.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	29.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	1.99
n	*32*	*12*	*10*	*10*	*3*	*2*	*0*	*1*	*3*	*2*	*0*	*2*	*7*	*2*	*1*	*3*	*6*	*4*	*2*	*1*	*1*	*3*	*17*	*4*	*19*	*13*
<MSP19_23> Was this measure specifically recommended by a Program or Utility sponsored Audit, report or program technical specialist?																										
No	100.00	100.00	100.00	100.00	100.00	100.00	0.00	100.00	100.00	0.00	0.00	0.00	100.00	100.00	100.00	100.00	100.00	100.00	0.00	0.00	0.00	0.00	100.00	100.00	100.00	100.00
n	*12*	*5*	*5*	*2*	*1*	*2*	*0*	*1*	*1*	*0*	*0*	*0*	*2*	*1*	*1*	*1*	*2*	*2*	*0*	*0*	*0*	*0*	*8*	*2*	*5*	*7*
<MSP20_23> IF you had not participated in the Program, how likely is it that your organization would still have implemented this measure, using a 0 to 10 scale where 0 means you Definitely Would Not have implemented this measure and 10 means you																										
5	4.62	0.00	0.97	14.10	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.69	39.04	8.45	0.05
6	1.41	8.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	45.78	0.00	0.00	0.00	0.00	39.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.09
7	4.96	28.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.68	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	5.80	5.90	0.00	9.13	0.00
8	0.58	0.17	0.78	0.46	0.00	0.00	0.00	0.00	1.01	0.00	0.00	86.27	0.95	0.00	0.00	0.00	0.00	0.00	95.16	0.00	0.00	0.00	0.18	0.18	1.03	0.04
9	3.18	0.00	0.00	10.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.84	0.00	0.00	0.00	0.00	0.00	4.02	0.00	0.00	6.98
10 Definitely Would Have	41.93	21.52	30.91	74.48	34.76	100.00	0.00	0.00	11.70	0.00	0.00	13.73	14.16	0.00	0.00	100.00	87.16	60.28	4.84	100.00	0.00	94.20	43.61	0.00	14.80	74.25
Zero Definitely Would Not	6.34	36.43	0.00	0.00	65.24	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	60.78	0.24	13.60
Don't Know	36.98	5.22	67.34	0.00	0.00	0.00	0.00	0.00	87.30	0.00	0.00	0.00	29.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	45.60	0.00	66.35	1.99
n	*32*	*12*	*10*	*10*	*3*	*2*	*0*	*1*	*3*	*2*	*0*	*2*	*7*	*2*	*1*	*3*	*6*	*4*	*2*	*1*	*1*	*3*	*17*	*4*	*19*	*13*
<MSP23_23> In what year did you install the GENERIC SCREW BASED LED BULBS?																										
2010	4.94	0.00	0.04	16.94	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.56	0.00	0.00	19.84	0.00	0.00	0.00	0.00	0.00	6.25	0.00	0.00	10.83
2011	24.44	63.37	4.77	37.40	65.24	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.62	0.00	100.00	94.08	43.81	59.17	0.00	0.00	0.00	0.00	20.20	60.96	13.52	37.44
2012	33.92	36.63	26.92	45.20	34.76	100.00	0.00	0.00	12.70	100.00	0.00	13.73	99.38	0.00	0.00	5.92	36.34	40.83	100.00	100.00	100.00	100.00	27.16	39.04	18.97	51.73
2013	36.57	0.00	68.27	0.00	0.00	0.00	0.00	0.00	87.30	0.00	0.00	0.00	0.00	95.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	46.23	0.00	67.27	0.00
Don't Know	0.13	0.00	0.00	0.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	86.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.00	0.24	0.00
n	*32*	*12*	*10*	*10*	*3*	*2*	*0*	*1*	*3*	*2*	*0*	*2*	*7*	*2*	*1*	*3*	*6*	*4*	*2*	*1*	*1*	*3*	*17*	*4*	*19*	*13*
And in which month (or season)?																										
March	3.17	0.00	5.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	82.41	0.00	99.41	0.00	0.00	0.00	0.00	0.00	0.00	4.74	0.00
May	0.04	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.11
June	0.75	0.00	1.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	95.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.87	0.00	1.12	0.00
Spring	0.20	1.15	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.08	0.30	0.00
Summer	54.34	0.00	92.15	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	62.74	0.00	81.33	0.00
Fall	1.33	3.82	1.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	17.59	0.00	0.00	0.00	100.00	0.00	0.00	0.78	0.30	1.95	0.09
Winter	16.38	95.03	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.12	97.62	10.52	28.17
Don't Know	23.79	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.59	0.00	0.00	0.00	0.00	27.45	0.00	0.03	71.64
n	*14*	*5*	*5*	*4*	*1*	*0*	*0*	*1*	*1*	*0*	*0*	*0*	*2*	*2*	*1*	*2*	*4*	*2*	*0*	*1*	*0*	*0*	*8*	*3*	*8*	*6*
<MSP25_23> Did you receive a rebate for the GENERIC SCREW BASED LED BULBS?																										
Yes	0.02	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00	0.04
No	99.98	99.89	100.00	100.00	100.00	100.00	0.00	100.00	100.00	100.00	0.00	100.00	99.38	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	99.82	100.00	99.96
n	*32*	*12*	*10*	*10*	*3*	*2*	*0*	*1*	*3*	*2*	*0*	*2*	*7*	*2*	*1*	*3*	*6*	*4*	*2*	*1*	*1*	*3*	*17*	*4*	*19*	*13*
<MSP26_23>What type of lighting equipment was removed and replaced when you installed the GENERIC SCREW BASED LED BULBS?																										
High Performance T8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T8 fluorescent fixtures (1in. diameter b	36.07	0.00	67.34	0.00	0.00	0.00	0.00	0.00	87.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	45.60	0.00	66.35	0.00
T10 fluorescent fixtures	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T12 Fixtures (1.5in. diameter bulbs)	6.17	26.88	2.79	0.00	0.00	16.30	0.00	0.00	0.00	0.00	0.00	0.00	0.33	4.56	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.80	0.00	8.60	3.27
HID (High Intensity Discharge) Fixtures-	4.67	26.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.90	0.00	8.58	0.00
Compact Fluorescent, Screw-in Modular	4.55	1.83	0.30	14.02	0.00	0.00	0.00	0.00	0.00	99.40	0.00	0.00	10.30	0.00	0.00	5.92	0.00	0.00	0.00	0.00	0.00	5.80	0.20	39.22	8.33	0.04
Compact Fluorescent, Hardwire	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

* Values are shown as percent of respondents weighted by kWh.
* n is the number of respondents.

	ALL	PG&E(%)	SCE(%)	SDG&E(%)	PG&E Custom Program(%)	SCE Custom Program(%)	SDG&E Custom Program(%)	PG&E Deemed Program(%)	SCE Deemed Program(%)	SDG&E Deemed Program(%)	SCE Direct Install Program(%)	SDG&E Direct Install Program(%)	PG&E LGP Program(%)	SCE LGP Program(%)	PG&E L3P Program(%)	SCE L3P Program(%)	SDG&E L3P Program(%)	CFL Basic(%)	CFL Reflector(%)	High Bay(%)	HID(%)	LF Delamp(%)	Linear(%)	Occupancy Sensor(%)	Deemed(%)	All Calculated(%)
Incandescent	44.96	55.44	15.05	93.84	100.00	83.70	0.00	100.00	0.00	99.40	0.00	100.00	0.00	100.00	0.00	0.00	92.89	0.35	4.84	0.00	0.00	0.00	43.64	99.82	8.95	87.85
Exit Signs, Compact Fluorescent	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Exit Signs, LED	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Halogen	1.49	8.12	0.04	0.18	0.00	0.00	0.00	0.00	0.00	0.60	0.00	0.00	45.78	4.56	0.00	0.00	0.11	40.48	0.00	0.00	0.00	0.00	0.06	0.00	0.09	3.15
Install Reflectors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electronic Ballast	0.42	2.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.54	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.77	0.00
Magnetic Ballast	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Time Clock	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Occupancy Sensor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Bypass/Delay Timers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Photocell	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other	1.74	0.00	0.00	5.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.00	0.00	0.00	0.00	0.00	0.00	2.20	0.00	0.00	3.81
Fat/Thick Tubes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Skinny/Thin Tubes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T5 Fixtures (5/8in. diameter)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Generic LED (SCREW BASE)	0.45	0.00	0.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.54	0.00	0.00	0.00	0.00	0.00	0.00	0.57	0.00	0.83	0.00
Nothing removed...new euqipment	6.18	5.33	9.80	0.00	0.00	0.00	0.00	0.00	12.70	0.00	0.00	0.00	30.05	0.00	0.00	0.00	0.00	0.00	95.16	0.00	100.00	94.20	0.00	0.00	9.69	1.99
Other -Record	38.17	0.00	71.27	0.00	0.00	0.00	0.00	0.00	87.30	0.00	0.00	0.00	0.00	0.00	0.00	77.53	0.00	59.17	0.00	0.00	0.00	0.00	45.60	0.00	70.22	0.00
Refused	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Don't Know	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	*32*	*12*	*10*	*10*	*3*	*2*	*0*	*1*	*3*	*2*	*0*	*2*	*7*	*2*	*1*	*3*	*6*	*4*	*2*	*1*	*1*	*3*	*17*	*4*	*19*	*13*
<MSP27_23> Approximately how old was this lighting equipment that you removed?																										
Less than 5 years old	17.83	31.38	1.36	37.53	34.76	0.00	0.00	100.00	0.00	0.60	0.00	0.00	80.17	95.44	0.00	5.92	43.86	40.07	0.00	0.00	0.00	100.00	18.77	1.45	2.29	34.88
Between 5 and 10 years old	65.13	0.00	95.55	51.44	0.00	83.70	0.00	0.00	100.00	99.40	0.00	86.27	0.00	0.00	0.00	94.08	43.30	59.93	0.00	0.00	0.00	0.00	69.40	39.04	87.29	40.80
Between 10 and 15 years old or	14.98	66.02	0.00	10.96	65.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	12.84	0.00	0.00	0.00	0.00	0.00	9.92	59.51	9.50	20.99
More than 15 years old?	2.05	2.60	3.09	0.00	0.00	16.30	0.00	0.00	0.00	0.00	0.00	0.00	19.83	4.56	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	1.90	0.00	0.87	3.34
Don't Know	0.02	0.00	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.73	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00
n	*28*	*10*	*8*	*10*	*3*	*2*	*0*	*1*	*1*	*2*	*0*	*2*	*5*	*2*	*1*	*3*	*6*	*4*	*1*	*1*	*0*	*1*	*17*	*4*	*16*	*12*
<MSP28_23> How would you describe the condition of this removed equipment?																										
In Poor condition	3.60	11.29	3.09	0.07	0.00	16.30	0.00	0.00	0.00	0.00	0.00	13.73	86.16	4.56	0.00	0.00	0.00	39.72	100.00	100.00	0.00	0.00	1.90	0.18	0.91	6.54
Fair condition or	24.98	47.54	16.97	25.53	28.71	83.70	0.00	100.00	0.00	99.40	0.00	86.27	13.84	95.44	100.00	5.92	12.95	0.76	0.00	0.00	0.00	100.00	23.91	40.31	20.34	30.08
Good condition	71.42	41.17	79.94	74.40	71.29	0.00	0.00	0.00	100.00	0.60	0.00	0.00	0.00	0.00	0.00	94.08	87.05	59.52	0.00	0.00	0.00	0.00	74.19	59.51	78.75	63.38
n	*28*	*10*	*8*	*10*	*3*	*2*	*0*	*1*	*1*	*2*	*0*	*2*	*5*	*2*	*1*	*3*	*6*	*4*	*1*	*1*	*0*	*1*	*17*	*4*	*16*	*12*
<MSP29_23> Approximately what percentage of this removed lighting equiment was broken or not working prior to installing the GENERIC SCREW BASED LED BULBS?																										
0	88.48	44.51	96.91	99.38	71.29	83.70	0.00	100.00	100.00	100.00	0.00	0.00	19.36	95.44	0.00	100.00	99.89	59.52	0.00	100.00	0.00	0.00	88.58	99.82	89.50	87.36
2	2.91	16.58	0.00	0.00	28.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.45	0.00	0.00	6.11
10	0.32	1.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.61	0.00
20	0.17	0.00	0.05	0.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	86.27	0.00	4.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00	0.27	0.05
30	4.97	28.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.90	0.00	9.50	0.00
50	0.04	0.06	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.47	0.00	0.00	0.00	0.11	0.76	0.00	0.00	0.00	0.00	0.01	0.00	0.08	0.00
75	1.57	0.00	3.04	0.00	0.00	16.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.86	0.00	0.00	3.28
100	1.55	8.69	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.73	66.33	0.00	0.00	0.00	0.00	39.72	100.00	0.00	0.00	0.00	0.00	0.18	0.04	3.20
n	*28*	*10*	*8*	*10*	*3*	*2*	*0*	*1*	*1*	*2*	*0*	*2*	*5*	*2*	*1*	*3*	*6*	*4*	*1*	*1*	*0*	*1*	*17*	*4*	*16*	*12*
<MSP23_77> In what year did you install the OTHER FIXTURES?																										
2010	4.33	3.37	4.28	7.79	0.00	17.62	0.00	2.76	4.24	12.63	0.00	3.78	8.32	0.46	0.00	0.24	6.18	0.00	0.00	8.02	0.00	0.00	4.02	5.76	4.36	4.27
2011	28.59	12.45	47.66	13.25	77.92	38.07	0.00	0.00	71.52	20.74	29.96	20.70	15.84	41.09	0.00	0.00	7.55	51.96	14.94	4.51	12.94	30.15	19.92	67.76	32.66	20.12
2012	55.28	62.27	45.94	65.86	22.08	42.86	0.00	69.99	24.25	44.74	70.04	27.35	37.02	31.58	100.00	92.66	86.09	47.13	76.97	85.73	52.13	38.13	63.56	19.55	47.43	71.62
4	11.00	21.73	2.12	7.18	0.00	1.44	0.00	27.25	0.00	2.07	0.00	48.18	38.12	26.87	0.00	7.10	0.18	0.91	8.09	1.73	34.93	31.72	12.31	3.75	14.47	3.76
Don't Know	0.81	0.18	0.00	5.92	0.00	0.00	0.00	0.00	0.00	19.83	0.00	0.00	0.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.19	3.19	1.08	0.23
n	*159*	*85*	*43*	*31*	*5*	*6*	*0*	*18*	*15*	*8*	*8*	*9*	*52*	*5*	*10*	*9*	*14*	*17*	*6*	*21*	*12*	*8*	*71*	*24*	*119*	*40*
And in which month (or season)?																										
January	1.12	0.00	1.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	42.28	0.00	0.00	0.00	0.00	50.35	0.00	0.00	0.00	0.00	0.00	1.41	0.00
February	0.27	0.24	0.00	2.58	0.00	0.00	0.00	0.00	0.00	5.83	0.00	0.00	0.55	0.00	0.00	0.00	1.39	1.85	0.00	0.00	0.00	0.00	0.62	0.00	0.29	0.17
March	0.79	0.02	0.00	10.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	31.77	0.05	0.00	0.00	0.00	0.00	0.00	35.13	0.00	0.00	0.00	0.02	0.00	1.00	0.00
May	0.05	0.11	0.02	0.00	0.00	0.00	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.11	0.05	0.06
June	5.27	4.38	6.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	75.29	0.00	10.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.74	1.00	4.98	6.41
July	1.96	0.00	2.43	7.79	0.00	0.00	0.00	0.00	3.85	0.00	0.00	22.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.45	3.83	2.46	0.00
August	2.22	0.00	2.19	13.46	0.00	0.59	0.00	0.00	0.00	35.65	24.71	0.00	0.01	0.00	0.00	0.00	0.35	81.58	0.00	0.00	0.00	0.00	2.48	0.10	2.75	0.18

* Values are shown as percent of respondents weighted by kWh.
* n is the number of respondents.

	ALL	PG&E(%)	SCE(%)	SDG&E(%)	PG&E Custom Program(%)	SCE Custom Program(%)	SDG&E Custom Program(%)	PG&E Deemed Program(%)	SCE Deemed Program(%)	SDG&E Deemed Program(%)	SCE Direct Install Program(%)	SDG&E Direct Install Program(%)	PG&E LGP Program(%)	SCE LGP Program(%)	PG&E L3P Program(%)	SCE L3P Program(%)	SDG&E L3P Program(%)	CFL Basic(%)	CFL Reflector(%)	High Bay(%)	HID(%)	LF Delamp(%)	Linear(%)	Occupancy Sensor(%)	Deemed(%)	All Calculated(%)
September	5.49	13.47	1.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	31.18	27.65	0.00	0.00	0.00	0.00	0.00	0.00	55.87	0.00	1.27	2.01	6.92	0.00
October	1.77	3.07	1.11	0.67	0.00	0.00	0.00	2.89	0.00	0.00	0.00	1.95	5.00	0.00	0.00	8.60	0.00	0.00	0.00	6.24	0.00	0.23	3.71	0.00	2.23	0.00
November	5.29	1.94	7.14	6.97	0.00	0.00	0.00	0.00	11.31	0.00	0.00	20.21	4.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.03	48.48	2.67	0.00	5.79	3.33
December	0.97	1.89	0.00	4.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.39	4.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.79	1.83	1.23	0.00
Spring	10.39	2.95	14.97	10.23	0.26	0.00	0.00	0.00	6.22	0.00	0.00	0.00	6.67	29.60	0.00	75.02	36.52	0.30	0.00	31.62	29.98	0.00	16.71	0.06	12.13	3.65
Summer	6.42	2.08	9.63	2.04	0.00	79.17	0.00	1.57	1.74	0.00	0.00	5.91	3.67	0.00	0.00	0.00	0.00	0.00	0.00	12.22	0.00	0.00	14.56	0.48	1.33	26.09
Fall	3.87	10.96	0.00	0.00	43.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.05	0.00	0.00	18.83
Winter	35.40	18.82	47.91	16.66	36.81	0.00	0.00	28.20	75.93	0.00	0.00	0.00	1.45	0.00	0.00	0.00	59.45	11.88	0.00	0.00	0.00	37.13	3.20	84.58	38.93	21.76
Don't Know	18.71	40.07	4.89	24.37	19.51	20.24	0.00	66.99	0.95	58.52	0.00	5.20	32.42	0.00	0.00	16.38	2.28	4.39	14.52	49.92	12.12	14.16	29.69	5.98	18.50	19.52
n	*92*	*46*	*27*	*19*	*4*	*5*	*0*	*9*	*8*	*3*	*4*	*7*	*33*	*4*	*0*	*6*	*9*	*9*	*4*	*6*	*7*	*5*	*46*	*15*	*70*	*22*
<MSP26_77>What type of lighting equipment was removed and replaced when you installed the OTHER FIXTURES?																										
High Performance T8	2.85	0.00	0.10	22.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.62	40.03	0.00	0.00	0.00	0.00	0.00	7.09	0.20	0.00	8.79
T8 fluorescent fixtures (1in. diameter b	2.32	1.15	4.04	0.00	0.00	10.46	0.00	0.00	0.00	0.00	13.79	0.00	2.22	0.00	2.86	2.31	0.00	0.00	0.00	0.00	0.00	16.64	1.05	3.46	2.62	1.71
T10 fluorescent fixtures	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T12 Fixtures (1.5in. diameter bulbs)	3.12	7.40	0.01	0.00	0.25	0.00	0.00	15.76	0.00	0.00	0.00	0.00	2.20	0.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.24	1.10	4.59	0.05
HID (High Intensity Discharge) Fixtures-	22.43	36.78	13.22	7.49	54.70	45.24	0.00	6.63	10.92	0.00	6.27	25.48	42.82	2.82	84.20	7.10	7.18	6.31	0.00	6.87	42.82	29.99	35.66	8.78	11.57	45.04
Compact Fluorescent, Screw-in Modular	0.19	0.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.91	0.00	1.02	0.00	0.00	6.21	0.00	0.00	0.00	0.00	0.25	0.00	0.28	0.00
Compact Fluorescent, Hardwire	3.19	7.58	0.00	0.00	35.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.01	6.98	0.05	9.72
Incandescent	29.19	26.42	39.42	0.91	0.25	0.34	0.00	49.13	63.51	0.00	20.35	0.00	19.93	3.28	0.00	18.67	1.60	0.00	0.00	48.77	8.79	0.00	8.69	71.91	38.06	10.72
Generic LED (SCREW BASE)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Exit Signs, Compact Fluorescent	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Exit Signs, LED	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Halogen	3.31	4.97	2.19	1.75	0.00	0.00	0.00	0.00	0.04	5.86	7.40	0.00	16.90	29.22	2.72	0.00	0.00	74.58	0.00	1.30	5.49	0.16	4.16	0.00	2.26	5.48
Install Reflectors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electronic Ballast	0.79	0.25	1.50	0.00	0.00	0.00	0.00	0.47	2.92	0.00	0.00	0.00	0.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	3.34	1.17	0.00
Magnetic Ballast	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Time Clock	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Occupancy Sensor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Bypass/Delay Timers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Photocell	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other	5.23	8.61	3.41	0.48	0.00	0.00	0.00	18.69	0.00	1.59	19.03	0.00	2.11	0.00	0.00	0.24	0.00	0.00	0.00	19.19	0.00	16.64	1.85	0.00	7.75	0.00
Fat/Thick Tubes	0.86	2.03	0.00	0.00	0.00	0.00	0.00	2.29	0.00	0.00	0.00	0.00	4.00	0.00	0.00	0.00	0.00	0.00	0.00	2.35	0.00	0.00	1.11	0.00	0.62	1.36
Skinny/Thin Tubes	2.42	0.00	5.31	0.00	0.00	0.00	0.00	0.00	10.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.69	0.00	0.00	0.00	0.00	3.58	0.00
T5 Fixtures (5/8in. diameter)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Nothing removed...new euqipment	14.89	6.96	16.85	34.63	0.00	42.86	0.00	8.74	5.34	21.45	44.75	51.77	11.20	41.09	1.29	0.00	37.52	5.87	96.66	15.19	32.47	18.69	10.19	0.00	14.36	15.98
Other -Record	17.76	17.57	16.08	24.60	45.04	39.51	0.00	16.98	6.93	71.10	2.21	22.75	20.57	26.87	0.34	41.22	0.54	6.32	3.34	8.21	10.43	25.92	27.81	11.32	18.57	16.07
Refused	0.58	1.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.61	0.00	0.00	0.85	0.00
Don't Know	4.16	1.54	5.69	7.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.00	7.58	34.70	13.13	0.72	0.00	3.62	0.00	0.00	8.87	0.00	0.96	10.82
n	*159*	*85*	*43*	*31*	*5*	*6*	*0*	*18*	*15*	*8*	*8*	*9*	*52*	*5*	*10*	*9*	*14*	*17*	*6*	*21*	*12*	*8*	*71*	*24*	*119*	*40*
<MSP27_77> Approximately how old was this lighting equipment that you removed?																										
Less than 5 years old	34.91	20.11	49.75	37.06	0.00	0.59	0.00	13.56	74.40	2.63	24.96	0.00	56.64	0.00	1.03	16.60	66.63	8.24	100.00	20.28	60.38	34.69	14.50	71.92	39.45	25.28
Between 5 and 10 years old	27.28	36.09	18.15	27.36	61.12	66.63	0.00	21.86	0.00	43.71	38.21	0.00	6.78	4.79	85.30	41.80	21.52	64.05	0.00	24.15	12.33	0.18	47.61	5.44	13.46	56.60
Between 10 and 15 years old or	14.03	19.02	10.75	5.25	35.75	18.30	0.00	29.10	3.60	0.00	0.00	52.83	7.87	0.00	3.10	36.43	0.05	0.17	0.00	38.51	0.00	0.00	11.09	9.71	15.93	10.00
More than 15 years old?	22.13	24.03	20.52	20.49	0.25	14.48	0.00	34.53	22.00	28.42	36.83	39.34	28.60	95.21	10.57	0.99	11.80	26.78	0.00	16.01	27.29	65.13	25.39	9.74	28.95	7.66
Don't Know	1.65	0.76	0.82	9.84	2.87	0.00	0.00	0.95	0.00	25.24	0.00	7.83	0.10	0.00	0.00	4.18	0.00	0.76	0.00	1.05	0.00	0.00	1.42	3.19	2.20	0.47
n	*133*	*75*	*38*	*20*	*5*	*5*	*0*	*17*	*14*	*6*	*6*	*4*	*46*	*4*	*7*	*9*	*10*	*14*	*2*	*16*	*11*	*7*	*60*	*23*	*98*	*35*
<MSP28_77> How would you describe the condition of this removed equipment?																										
In Poor condition	34.10	32.08	35.24	38.55	3.13	2.52	0.00	40.96	22.11	72.13	59.70	83.28	46.77	45.61	12.76	71.75	8.16	70.75	100.00	36.67	54.21	42.28	42.16	11.34	41.95	17.44
Fair condition or	22.25	31.94	13.71	15.36	42.17	79.17	0.00	35.39	6.97	2.63	11.34	8.90	48.34	49.60	0.34	4.79	24.98	25.54	0.00	37.19	36.45	0.19	25.43	9.87	18.37	30.48
Good condition	40.83	35.55	47.30	36.11	54.70	18.30	0.00	22.71	70.93	0.00	4.00	0.00	4.79	4.79	86.90	19.28	66.63	2.14	0.00	25.09	9.34	37.06	31.36	75.61	35.53	52.08
Don't Know	2.82	0.43	3.76	9.97	0.00	0.00	0.00	0.95	0.00	25.24	24.96	7.83	0.10	0.00	0.00	4.18	0.24	1.56	0.00	1.05	0.00	20.47	1.05	3.19	4.14	0.00
n	*133*	*75*	*38*	*20*	*5*	*5*	*0*	*17*	*14*	*6*	*6*	*4*	*46*	*4*	*7*	*9*	*10*	*14*	*2*	*16*	*11*	*7*	*60*	*23*	*98*	*35*
<MSP29_77>Approximately what percentage of this removed lighting equiment was broken or not working prior to installing the OTHER FIXTURES?																										
0	48.54	41.70	54.97	51.52	38.63	79.17	0.00	24.00	71.52	29.03	28.74	47.17	34.29	53.61	87.24	11.89	67.21	66.74	0.00	8.90	49.39	47.64	47.70	75.03	44.55	57.00
1	6.83	8.66	4.45	9.06	0.00	0.00	0.00	20.48	0.18	25.24	36.83	0.00	0.00	0.78	0.00	0.00	0.00	0.00	0.00	22.89	0.00	0.00	4.63	3.19	10.03	0.02
2	0.76	0.35	0.95	1.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.31	45.61	1.29	0.00	3.38	0.00	0.00	0.00	0.00	0.00	0.81	1.56	0.67	0.94
5	5.34	4.90	6.93	0.00	42.42	0.00	0.00	0.00	6.33	0.00	0.00	0.00	0.18	0.00	0.00	16.36	0.00	0.00	0.00	9.36	0.00	0.00	5.37	5.37	2.42	11.52
10	3.91	1.86	6.87	0.00	0.00	0.00	0.00	0.90	0.05	0.00	0.00	0.00	5.93	0.00	0.00	34.70	0.00	0.00	0.00	1.00	0.00	0.19	7.32	2.47	1.26	9.54
12	3.86	8.40	0.00	0.00	0.00	0.00	0.00	19.35	0.00	0.00	0.00	0.00	0.00	0.00	1.03	0.00	0.00	6.60	0.00	21.38	0.00	0.00	0.00	0.00	5.69	0.00
15	0.10	0.22	0.00	0.00	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.37	0.15	0.00

* Values are shown as percent of respondents weighted by kWh.
* n is the number of respondents.

	ALL	PG&E(%)	SCE(%)	SDG&E(%)	PG&E Custom Program(%)	SCE Custom Program(%)	SDG&E Custom Program(%)	PG&E Deemed Program(%)	SCE Deemed Program(%)	SDG&E Deemed Program(%)	SCE Direct Install Program(%)	SDG&E Direct Install Program(%)	PG&E LGP Program(%)	SCE LGP Program(%)	PG&E L3P Program(%)	SCE L3P Program(%)	SDG&E L3P Program(%)	CFL Basic(%)	CFL Reflector(%)	High Bay(%)	HID(%)	LF Delamp(%)	Linear(%)	Occupancy Sensor(%)	Deemed(%)	All Calculated(%)
20	4.32	6.99	0.05	11.39	18.95	0.59	0.00	0.45	0.00	0.00	0.00	0.00	18.51	0.00	0.00	0.00	21.01	0.00	0.00	0.00	0.00	0.00	10.08	0.40	0.13	13.20
25	1.66	2.83	0.81	0.00	0.00	0.00	0.00	0.00	1.39	0.00	0.00	0.00	4.78	0.00	7.68	0.00	0.00	6.70	0.00	6.39	0.00	0.00	1.04	0.00	2.45	0.00
30	0.47	0.10	0.96	0.00	0.00	1.93	0.00	0.00	1.38	0.00	0.00	0.00	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.47	0.00	0.27	0.00	0.60	0.21
33	0.02	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.04	0.00
50	7.44	6.54	7.18	13.04	0.00	0.00	0.00	0.00	0.00	36.25	0.00	0.00	26.18	0.00	0.00	36.43	0.05	0.17	0.00	0.00	44.15	0.00	8.99	4.58	10.19	1.61
60	0.13	0.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.31	0.00	0.19	0.00
80	1.01	0.00	2.10	0.73	0.00	0.00	0.00	0.00	3.60	2.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.32	0.00	0.00	0.17	0.00	1.48	0.00
100	12.83	15.44	10.21	12.43	0.00	0.00	0.00	34.31	15.56	7.46	9.48	52.83	1.38	0.00	2.76	0.00	8.34	19.02	100.00	24.77	0.00	31.70	11.43	4.42	18.22	1.38
102	2.78	1.67	4.52	0.00	0.00	18.30	0.00	0.00	0.00	0.00	24.96	0.00	6.70	0.00	0.00	0.62	0.00	0.76	0.00	0.00	0.00	20.47	1.82	2.61	1.94	4.57
n	*133*	*75*	*38*	*20*	*5*	*5*	*0*	*17*	*14*	*6*	*6*	*4*	*46*	*4*	*7*	*9*	*10*	*14*	*2*	*16*	*11*	*7*	*60*	*23*	*98*	*35*
<LI30_A> Considering all of the lighting changes we just discussed (purchases outside the programs), approximately what percentage of the facility's lighting was affected by those changes?																										
0 Percent	2.65	4.55	1.11	1.51	14.24	0.00	0.00	0.75	0.00	1.21	4.84	7.23	7.91	0.00	0.00	1.93	0.04	0.09	5.32	0.62	3.79	3.04	3.91	0.70	1.45	5.86
Between 0 and 15 Percent	64.47	68.80	63.20	52.22	83.07	45.68	3.21	54.55	61.93	73.69	62.13	45.17	75.30	30.73	83.83	87.58	52.08	46.54	79.17	68.93	71.12	40.26	68.88	63.69	63.52	67.00
Between 15 and 30 Percent	11.44	8.78	13.55	13.17	0.00	22.75	0.00	19.00	14.63	3.51	8.65	32.92	2.29	31.54	0.88	6.12	11.83	1.03	6.45	0.00	17.68	29.79	13.13	6.48	12.99	7.28
Between 30 and 45 Percent	1.89	1.91	1.85	2.02	0.00	0.00	0.00	1.47	1.96	3.84	0.53	0.00	3.38	16.27	1.47	1.68	2.22	2.05	8.41	3.20	0.00	0.01	2.29	0.00	2.28	0.86
Between 45 and 60 Percent	3.13	0.64	2.56	15.80	0.00	0.00	0.00	0.00	3.47	14.51	2.35	2.20	1.96	0.00	0.06	0.94	21.95	2.00	0.00	3.94	0.98	0.00	4.32	2.54	2.30	5.35
Between 60 and 80 Percent	2.36	0.79	3.56	3.59	0.00	0.00	45.67	0.70	0.08	0.00	19.81	5.28	1.54	0.63	0.00	0.00	0.00	3.58	0.14	0.00	0.00	12.47	0.78	3.03	2.85	1.05
Between 80 and 100 Percent	13.49	13.48	14.13	10.77	1.21	31.57	51.12	23.47	17.94	3.24	1.68	1.83	5.04	19.26	13.57	1.74	11.89	42.13	0.51	22.92	6.44	14.43	5.74	23.58	13.96	12.25
Don't Know	0.58	1.06	0.04	0.93	1.48	0.00	0.00	0.07	0.00	0.00	0.00	5.37	2.58	1.58	0.19	0.00	0.00	2.58	0.00	0.40	0.00	0.00	0.96	0.00	0.66	0.35
n	*448*	*233*	*134*	*81*	*15*	*12*	*3*	*52*	*53*	*17*	*27*	*23*	*136*	*14*	*30*	*28*	*38*	*65*	*15*	*59*	*25*	*38*	*193*	*53*	*340*	*108*
<CL1> What type of equipment is used to cool this facility?																										
No A/C	11.13	15.04	9.70	7.84	7.63	5.01	29.37	14.05	9.79	5.94	14.56	21.47	17.13	0.28	21.93	0.71	0.43	14.43	24.13	15.20	13.65	5.03	9.09	8.58	13.04	4.65
Split system-compressor is separate from	17.45	18.51	16.51	20.39	10.74	11.80	31.81	16.62	8.83	14.95	21.34	8.59	28.28	60.79	14.37	42.73	28.94	17.52	37.88	7.47	29.56	17.80	19.45	22.15	15.92	22.63
Packaged system-(one component-rooftop u	56.39	48.38	61.06	51.21	52.25	63.90	35.12	53.92	70.03	67.04	46.69	47.53	44.06	79.72	35.52	47.73	39.19	36.87	21.47	65.48	63.04	57.00	55.95	52.36	57.46	52.75
Package Terminal A/C or Heat Pump (Hotel	6.82	7.27	5.85	11.98	5.54	2.82	33.85	8.64	6.24	4.52	0.26	0.00	7.54	58.80	4.40	14.10	20.89	1.93	0.05	9.18	1.82	3.73	8.04	7.04	5.85	10.12
Evaporative coolers (swamp coolers)	5.13	8.63	4.04	0.87	5.97	2.61	0.00	11.45	1.83	0.77	1.99	0.07	7.91	66.64	4.16	9.98	1.46	4.84	4.76	7.06	0.00	1.09	5.89	5.16	4.91	5.84
Water or Air Chiller (Central plant)	13.06	18.36	9.43	20.16	58.41	17.20	30.14	2.76	5.84	2.99	1.08	12.78	18.01	16.91	24.74	50.82	39.21	7.96	2.59	0.56	5.47	8.06	24.59	20.39	5.42	38.90
Window/Wall Units	6.40	8.63	5.87	2.57	3.86	5.14	0.00	7.44	0.83	5.56	8.56	2.41	11.84	61.14	11.28	13.03	0.00	14.56	5.05	2.29	20.76	7.07	7.36	5.33	5.29	10.14
Other	0.83	0.20	0.67	4.01	0.00	0.00	0.00	0.43	0.00	0.00	0.87	5.47	0.06	0.00	0.00	5.66	8.23	3.51	0.00	0.45	0.00	0.23	1.54	0.00	0.37	2.38
Refused	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.01
Don't Know	4.53	5.06	4.68	1.76	6.41	10.49	0.00	6.64	2.00	2.52	6.81	4.81	2.31	2.01	3.89	5.14	0.01	6.86	4.96	2.51	1.95	7.15	6.04	0.89	4.31	5.28
n	*1213*	*493*	*498*	*222*	*36*	*46*	*11*	*127*	*142*	*81*	*194*	*82*	*222*	*44*	*108*	*72*	*48*	*127*	*83*	*144*	*57*	*152*	*509*	*141*	*1003*	*210*
<CL2> What is the primary fuel used by this cooling equipment?																										
Electricity	80.51	69.02	84.86	86.69	88.27	71.42	96.97	54.98	86.02	86.20	86.83	82.96	78.01	81.25	74.73	93.92	87.14	66.40	54.89	80.46	72.41	87.19	80.08	88.76	79.75	82.86
Natural Gas	8.37	9.93	8.35	3.78	2.46	20.03	0.00	17.18	6.19	1.06	7.76	4.45	4.70	7.95	5.11	4.65	6.67	1.71	37.38	9.82	1.91	4.41	8.45	4.00	7.87	9.92
Both Electricity and Gas	7.74	15.35	4.46	6.26	2.71	0.48	3.03	22.81	7.29	8.12	1.69	2.31	10.63	10.62	15.18	1.27	6.14	20.64	3.70	9.71	21.81	6.26	5.16	6.94	9.36	2.73
Other	0.01	0.04	0.00	0.00	0.00	0.00	0.00	0.08	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.02	0.01	0.01	0.00
Refused	0.02	0.07	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.28	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.03	0.01
Don't Know	3.35	5.59	2.34	3.24	6.56	8.07	0.00	4.95	0.50	4.61	3.72	10.27	6.37	0.18	4.99	0.16	0.00	11.25	4.00	0.00	3.88	2.14	6.23	0.30	2.98	4.49
n	*1006*	*383*	*436*	*187*	*33*	*42*	*7*	*102*	*125*	*68*	*159*	*66*	*169*	*42*	*79*	*68*	*46*	*101*	*72*	*110*	*40*	*135*	*431*	*117*	*820*	*186*
<R1> What kinds of refrigeration equipment, if any, is present at your facility?																										
Residential Sized Refrigerator	47.87	47.46	49.40	38.85	44.13	58.51	65.01	51.77	52.79	42.50	46.38	44.02	45.48	18.43	41.48	32.99	28.45	52.29	48.67	61.81	32.05	33.06	49.34	31.40	49.52	42.30
Residential Sized Freezer	4.78	8.86	2.94	3.78	4.53	5.76	0.00	12.08	1.71	2.34	3.61	15.12	6.72	0.85	7.52	4.34	1.18	11.52	4.02	2.88	2.32	4.98	5.39	6.47	5.22	3.31
Larger Standard Refrigerator (>30 cubic	10.79	17.80	7.11	12.51	16.59	18.24	2.14	14.42	2.89	3.04	2.94	6.44	15.42	56.61	33.69	17.64	26.58	19.08	3.96	2.11	10.57	8.44	19.22	7.14	6.53	25.18
Self Contained - Coffin/Horizontal Case	2.19	3.37	1.78	1.07	0.00	1.26	0.00	2.26	3.33	1.22	0.00	0.13	0.29	0.00	15.94	0.00	1.50	1.64	0.08	0.00	0.23	6.93	2.28	2.86	1.76	3.66
Self Contained - Vertical Case (multi sh	2.46	3.66	1.82	2.85	3.51	1.56	30.14	1.66	3.32	0.77	0.00	0.00	0.37	0.00	15.94	0.00	1.50	0.86	0.00	0.00	0.97	6.93	2.72	3.85	1.64	5.23
Single-Deck display cases - Open single-	1.27	3.40	0.33	0.63	0.00	1.26	0.00	1.60	0.00	0.00	0.54	0.00	0.59	0.00	17.56	0.25	1.64	1.13	0.00	0.25	0.00	0.00	2.54	2.27	0.41	4.19
Single-Deck display cases - Closed servi	0.66	0.70	0.61	0.91	0.00	3.78	0.00	1.60	0.10	0.00	0.26	0.46	0.00	0.00	0.00	0.25	2.19	0.00	0.00	0.00	0.00	0.00	1.03	2.73	0.39	1.59
Single-Deck display cases - Island coffi	1.02	3.03	0.12	0.45	0.14	0.95	0.00	1.60	0.00	0.00	0.00	0.00	0.00	0.00	15.94	0.00	1.18	0.00	0.00	0.00	0.00	0.00	2.13	2.23	0.27	3.54
Single-Deck display cases - Coffin/tub (	1.22	3.06	0.33	1.16	0.36	2.63	0.00	1.60	0.00	0.00	0.00	0.00	0.00	0.00	15.94	0.00	3.03	0.00	0.00	0.00	0.00	0.00	2.70	2.16	0.27	4.42
Multi-Deck (vertical) display cases - Op	2.31	1.73	2.76	1.14	0.00	1.28	0.00	2.00	4.71	0.77	0.91	0.00	0.70	0.00	4.64	0.54	2.19	2.36	0.00	0.58	7.30	7.10	0.91	4.25	2.74	0.86
Multi-Deck (vertical) display cases - Gl	3.32	3.89	3.11	2.91	3.55	4.52	0.00	1.66	4.94	1.51	0.32	0.00	0.70	1.83	16.87	0.00	6.05	2.63	0.00	0.54	7.48	7.59	3.60	3.74	2.40	6.44
Walk-Ins and Preparation Areas - Freezer	15.14	15.33	13.72	24.16	31.98	17.47	2.88	8.70	13.86	11.42	1.26	3.54	11.71	56.78	24.80	42.43	49.52	8.49	6.29	2.09	21.97	17.85	20.98	27.75	10.92	29.40
Walk-Ins and Preparation Areas - Cooler/	16.17	18.35	13.46	27.31	17.81	12.53	19.07	12.73	13.02	11.03	3.89	11.28	18.02	56.78	36.62	42.43	52.16	29.26	5.82	2.32	29.04	18.00	20.74	28.89	12.53	28.47
NoNE-No refrigeration equipment	25.91	24.74	26.30	27.17	7.31	17.28	12.16	28.67	26.55	40.79	33.31	19.10	35.59	17.03	10.99	15.01	19.05	13.07	42.36	23.06	42.43	32.96	19.54	36.63	28.23	18.06
Other	7.25	13.35	4.34	6.70	17.27	9.26	16.19	17.37	3.08	6.30	1.56	5.58	7.32	50.27	8.17	1.30	5.95	4.78	2.65	12.28	5.93	0.66	8.11	3.54	5.48	13.20
Refused	0.84	2.82	0.00	0.02	0.00	0.00	0.00	6.29	0.00	0.00	0.00	0.00	0.23	0.00	0.00	0.00	0.05	0.00	0.00	3.07	0.00	0.00	0.05	0.00	1.09	0.01
Don't Know	2.72	3.81	2.30	1.93	18.40	1.47	1.62	1.30	2.66	3.21	1.36	3.54	1.77	1.98	0.00	5.13	0.00	0.00	1.12	0.26	2.47	2.78	4.58	4.00	2.10	4.82
n	*1213*	*493*	*498*	*222*	*36*	*46*	*11*	*127*	*142*	*81*	*194*	*82*	*222*	*44*	*108*	*72*	*48*	*127*	*83*	*144*	*57*	*152*	*509*	*141*	*1003*	*210*

* Values are shown as percent of respondents weighted by kWh.
* n is the number of respondents.

	ALL	PG&E(%)	SCE(%)	SDG&E(%)	PG&E Custom Program(%)	SCE Custom Program(%)	SDG&E Custom Program(%)	PG&E Deemed Program(%)	SCE Deemed Program(%)	SDG&E Deemed Program(%)	SCE Direct Install Program(%)	SDG&E Direct Install Program(%)	PG&E LGP Program(%)	SCE LGP Program(%)	PG&E L3P Program(%)	SCE L3P Program(%)	SDG&E L3P Program(%)	CFL Basic(%)	CFL Reflector(%)	High Bay(%)	HID(%)	LF Delamp(%)	Linear(%)	Occupancy Sensor(%)	Deemed(%)	All Calculated(%)
<G1> Which of the following natural gas equipment is present at your facility?																										
Water Heater	52.46	48.80	54.17	52.98	27.67	37.33	66.13	51.53	62.09	56.62	45.53	48.52	45.30	82.00	68.91	55.47	48.84	54.70	37.98	62.38	68.53	51.32	42.26	64.07	54.21	46.54
Furnace	29.17	31.72	27.44	32.47	13.92	31.14	31.81	30.63	18.55	25.40	29.51	29.52	43.56	71.72	31.77	58.51	41.11	36.08	30.77	18.59	40.18	36.95	30.75	33.22	27.85	33.64
Boiler	23.18	31.16	17.23	37.10	64.04	36.95	35.51	28.44	11.33	30.43	3.75	4.89	15.21	75.87	34.58	58.41	57.64	13.34	4.39	9.44	52.83	17.28	30.43	41.11	15.58	48.87
Stove	21.62	18.12	21.01	37.31	5.94	18.56	0.00	10.32	19.91	35.78	13.03	16.32	21.95	72.36	47.45	48.21	54.01	31.95	24.84	11.10	47.20	13.39	26.22	29.58	18.58	31.88
Clothes Dryer	10.51	14.82	5.98	26.95	3.65	3.64	0.48	9.93	2.77	37.08	9.18	11.50	14.96	18.25	41.02	14.87	27.49	16.13	22.34	0.74	45.44	5.51	12.65	15.02	8.42	17.60
NoNE- DO NoT HAVE NATURAL GAS	27.66	24.87	28.61	30.48	20.31	20.70	32.26	22.88	23.14	30.76	46.07	44.61	31.12	12.94	24.14	14.25	24.02	26.69	56.29	24.08	22.27	32.21	25.69	27.49	29.44	21.68
Other	2.00	3.57	1.03	3.47	0.36	0.73	0.00	3.45	1.54	4.23	0.59	2.11	3.99	0.45	6.49	0.00	3.86	10.02	0.21	2.41	0.97	0.86	2.22	0.49	1.74	2.89
Refused	0.84	2.82	0.00	0.02	0.00	0.00	0.00	6.29	0.00	0.00	0.00	0.00	0.23	0.00	0.00	0.00	0.05	0.00	0.00	3.07	0.00	0.00	0.05	0.00	1.09	0.01
Don't Know	2.98	1.78	3.86	1.06	1.89	18.14	1.62	1.24	2.07	1.98	1.72	1.04	3.38	0.20	0.36	1.19	0.01	4.05	1.58	0.73	2.75	0.18	6.62	0.17	1.79	7.01
n	*1213*	*493*	*498*	*222*	*36*	*46*	*11*	*127*	*142*	*81*	*194*	*82*	*222*	*44*	*108*	*72*	*48*	*127*	*83*	*144*	*57*	*152*	*509*	*141*	*1003*	*210*
<GH1> Do you have greenhouses at your facility?																										
Yes	4.00	5.45	2.31	10.62	0.36	2.94	16.19	6.72	0.26	1.48	0.04	0.00	6.24	8.78	5.44	21.88	23.51	4.08	1.52	3.95	5.69	0.06	4.77	7.22	2.93	7.60
No	95.98	94.49	97.69	89.36	99.64	97.06	83.81	93.28	99.74	98.52	99.97	100.00	93.53	91.19	94.56	78.12	76.44	95.92	98.48	96.05	94.31	99.94	95.17	92.78	97.04	92.39
Refused	0.02	0.06	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.23	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.02	0.01
Don't Know	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	*1213*	*493*	*498*	*222*	*36*	*46*	*11*	*127*	*142*	*81*	*194*	*82*	*222*	*44*	*108*	*72*	*48*	*127*	*83*	*144*	*57*	*152*	*509*	*141*	*1003*	*210*
<GH2> How many square feet of greenhouses do you have at your facility?																										
1	45.22	32.97	31.80	85.79	0.00	0.00	0.00	5.54	0.00	100.00	100.00	0.00	56.90	0.00	87.64	44.99	94.99	26.01	0.00	19.44	0.00	0.00	85.07	9.84	34.62	59.06
2	13.94	0.98	38.33	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	55.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	74.04	23.92	0.92
3	5.34	13.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	43.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.16	0.00	0.00	12.31
5	2.60	0.00	0.58	9.98	0.00	0.00	100.00	0.00	10.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	73.99	0.00	0.00	0.00	100.00	0.00	0.00	0.36	5.52
6	0.20	0.50	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.46	0.00	0.36	0.00
8	7.31	0.00	20.70	0.00	0.00	100.00	0.00	0.00	89.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	100.00	0.00	0.00	0.00	3.05	12.87
99	25.39	52.42	8.59	4.23	0.00	0.00	0.00	93.54	0.00	0.00	0.00	0.00	0.00	100.00	12.36	0.00	5.01	0.00	0.00	80.56	0.00	0.00	2.31	16.12	37.69	9.33
n	*24*	*10*	*8*	*6*	*1*	*1*	*1*	*4*	*2*	*2*	*1*	*0*	*3*	*2*	*2*	*2*	*3*	*3*	*1*	*3*	*1*	*1*	*8*	*7*	*14*	*10*
<ST1> Do you have steamtraps at your facility?																										
Yes	4.90	3.60	3.15	21.04	16.40	10.98	1.66	1.77	1.05	21.10	0.00	2.90	0.13	53.66	2.24	0.81	31.83	0.86	1.52	0.17	17.77	1.31	9.93	2.09	1.85	15.19
No	93.10	94.36	94.95	76.44	78.13	88.98	98.34	95.83	95.17	75.09	100.00	96.53	99.24	46.31	97.76	98.48	65.71	98.82	98.48	94.83	82.23	98.47	88.96	95.90	96.00	83.28
Refused	0.02	0.06	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.23	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.02	0.01
Don't Know	1.98	1.99	1.91	2.51	5.47	0.04	0.00	2.40	3.78	3.81	0.00	0.57	0.41	0.03	0.00	0.71	2.41	0.31	0.00	5.00	0.00	0.22	1.07	2.01	2.12	1.52
n	*1213*	*493*	*498*	*222*	*36*	*46*	*11*	*127*	*142*	*81*	*194*	*82*	*222*	*44*	*108*	*72*	*48*	*127*	*83*	*144*	*57*	*152*	*509*	*141*	*1003*	*210*
<ST2> How many steamtraps are currently installed at your facility?																										
1 to 10	11.45	18.51	16.98	1.85	0.00	5.57	100.00	66.41	77.93	3.37	0.00	0.00	52.34	0.00	41.29	100.00	0.00	0.00	0.00	34.17	0.00	77.37	9.87	18.20	31.05	3.37
11 to 50	21.23	38.39	25.16	7.54	51.95	44.77	0.00	0.00	22.07	0.00	0.00	100.00	9.46	5.70	30.06	0.00	9.25	0.00	100.00	65.83	0.00	22.63	22.73	31.29	12.80	24.70
51 to 100	7.78	7.24	0.00	15.98	0.00	0.00	0.00	33.59	0.00	3.66	0.00	0.00	0.00	0.00	0.00	0.00	25.15	100.00	0.00	0.00	0.00	0.00	7.56	35.67	7.36	7.96
101 to 500	16.95	10.25	0.00	37.92	14.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	65.60	0.00	0.00	0.00	0.00	0.00	22.73	0.00	0.00	23.94
501 to 1000	3.91	0.00	9.96	0.00	0.00	23.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.25	0.00	0.00	5.52
Don't Know	38.67	25.61	47.90	36.71	33.09	26.65	0.00	0.00	0.00	92.98	0.00	0.00	38.20	94.30	28.66	0.00	0.00	0.00	0.00	0.00	100.00	0.00	31.87	14.84	48.79	34.50
n	*35*	*15*	*10*	*10*	*4*	*4*	*1*	*3*	*2*	*3*	*0*	*1*	*3*	*3*	*5*	*1*	*5*	*1*	*1*	*4*	*1*	*2*	*17*	*9*	*15*	*20*
<M1> Do you currently have any motors installed at your facility?																										
Yes	49.55	52.09	46.01	65.11	79.93	66.30	86.70	42.62	45.47	54.92	33.16	29.22	55.12	68.72	46.32	59.16	86.83	34.31	35.89	37.95	64.95	33.90	62.54	59.81	42.38	73.76
No	48.44	44.86	52.23	34.62	19.93	23.89	11.69	51.09	54.02	44.70	66.84	70.78	43.86	31.24	53.68	36.83	13.12	65.69	64.11	58.98	33.43	66.11	34.82	38.72	56.23	22.11
Refused	0.84	2.82	0.00	0.02	0.00	0.00	0.00	6.29	0.00	0.00	0.00	0.00	0.23	0.00	0.00	0.00	0.05	0.00	0.00	3.07	0.00	0.00	0.05	0.00	1.09	0.01
Don't Know	1.17	0.23	1.76	0.25	0.14	9.81	1.62	0.00	0.51	0.38	0.00	0.00	0.80	0.03	0.00	4.01	0.00	0.00	0.00	0.00	1.61	0.00	2.59	1.47	0.30	4.12
n	*1213*	*493*	*498*	*222*	*36*	*46*	*11*	*127*	*142*	*81*	*194*	*82*	*222*	*44*	*108*	*72*	*48*	*127*	*83*	*144*	*57*	*152*	*509*	*141*	*1003*	*210*
<M2> How many motors are currently installed at your facility?																										
1 to 10	35.41	27.51	39.40	37.24	2.90	11.02	65.23	39.00	34.45	34.87	89.21	76.72	37.73	4.38	17.16	20.56	28.48	77.68	74.22	47.70	11.91	45.53	24.57	39.56	47.09	12.74
11 to 50	27.85	37.37	24.81	17.23	36.23	21.32	34.77	23.10	34.29	19.44	8.05	22.85	58.14	0.65	33.83	28.73	12.01	18.86	3.75	34.32	17.35	21.54	33.39	13.94	26.14	31.17
51 to 100	9.29	5.32	11.11	11.06	0.00	5.37	0.00	12.63	18.22	7.13	0.00	0.00	0.07	8.99	5.94	11.04	17.07	2.52	4.24	6.68	28.83	4.22	6.06	23.94	10.45	7.03
101 to 500	16.01	20.79	15.89	3.94	46.72	45.41	0.00	11.50	6.48	0.00	2.74	0.00	1.22	12.77	43.07	38.37	7.74	0.94	17.79	6.16	5.78	28.06	19.10	17.68	8.44	30.71
501 to 1000	1.93	0.98	2.37	2.27	3.51	13.27	0.00	0.00	0.00	0.00	0.00	0.00	0.62	0.00	0.00	0.00	4.45	0.00	0.00	0.00	8.76	0.00	2.87	1.12	0.08	5.50
More than 1000	9.51	8.03	6.42	28.25	10.65	3.61	0.00	13.76	6.57	38.57	0.00	0.43	2.21	73.20	0.00	1.30	30.26	0.00	0.00	5.14	27.36	0.66	14.02	3.76	7.79	12.85
n	*457*	*204*	*167*	*86*	*20*	*28*	*4*	*58*	*57*	*30*	*52*	*26*	*88*	*12*	*38*	*18*	*26*	*34*	*27*	*67*	*22*	*52*	*192*	*63*	*347*	*110*
<M3> What two or three applications account for most of the motor energy used in your facility?																										

* Values are shown as percent of respondents weighted by kWh.
* n is the number of respondents.

	ALL	PG&E(%)	SCE(%)	SDG&E(%)	PG&E Custom Program(%)	SCE Custom Program(%)	SDG&E Custom Program(%)	PG&E Deemed Program(%)	SCE Deemed Program(%)	SDG&E Deemed Program(%)	SCE Direct Install Program(%)	SDG&E Direct Install Program(%)	PG&E LGP Program(%)	SCE LGP Program(%)	PG&E L3P Program(%)	SCE L3P Program(%)	SDG&E L3P Program(%)	CFL Basic(%)	CFL Reflector(%)	High Bay(%)	HID(%)	LF Delamp(%)	Linear(%)	Occupancy Sensor(%)	Deemed(%)	All Calculated(%)
Pumping	37.01	52.35	28.24	38.41	76.90	26.98	18.68	28.94	20.42	16.11	16.07	10.35	51.06	73.63	76.52	81.27	60.25	38.78	24.45	8.38	38.38	37.22	47.66	46.76	25.73	58.93
Fans/Blowers	32.08	33.70	28.58	44.51	40.05	23.24	42.29	28.36	33.22	24.71	11.92	56.51	49.33	12.83	2.97	57.50	56.11	30.59	23.15	32.71	0.76	28.57	38.34	26.01	29.66	36.77
Compressed Air	36.15	27.96	42.43	27.82	21.94	28.11	0.00	16.12	35.13	35.87	73.69	15.07	34.23	76.43	58.10	25.39	29.11	35.31	64.08	58.58	2.75	37.66	32.63	17.85	39.17	30.29
Materials handling (conveyor belts)	12.16	6.85	15.78	8.87	22.95	55.75	0.00	3.80	11.05	2.35	0.00	0.00	0.66	0.00	0.00	4.98	15.88	0.00	0.00	11.53	0.31	6.22	16.25	12.84	5.46	25.17
Production process machinery	16.61	20.08	16.34	8.70	9.60	17.18	0.00	25.87	19.63	14.48	15.07	19.36	28.47	0.67	4.34	6.35	4.94	9.28	20.94	26.88	15.00	28.03	10.85	12.99	19.51	10.96
Ventilation/HVAC	28.46	34.15	28.81	11.70	47.79	18.90	0.00	26.69	29.44	12.95	13.11	26.98	37.08	82.13	24.13	60.07	10.76	15.18	2.28	14.17	54.06	34.86	30.77	36.98	26.02	33.20
Boiler fans	2.78	0.60	4.12	2.12	1.38	3.94	0.00	0.66	5.37	0.00	1.92	0.79	0.00	12.28	0.33	0.00	4.06	0.00	0.00	7.23	0.00	0.00	2.04	2.72	2.72	2.89
Other	3.93	4.64	3.40	4.54	0.18	9.88	0.00	9.99	2.46	9.25	0.00	4.84	1.86	13.00	3.81	0.07	2.21	0.90	5.56	5.65	0.95	0.12	3.89	5.55	3.78	4.22
Refused	0.11	0.00	0.19	0.00	0.00	0.00	0.00	0.00	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00	0.00	0.00	0.00	0.16	0.00
Don't Know	1.65	0.00	0.40	11.97	0.00	2.22	0.00	0.00	0.00	36.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	27.36	0.13	0.49	0.00	2.15	0.66
n	*457*	*204*	*167*	*86*	*20*	*28*	*4*	*58*	*57*	*30*	*52*	*26*	*88*	*12*	*38*	*18*	*26*	*34*	*27*	*67*	*22*	*52*	*192*	*63*	*347*	*110*
<OT2> Besides what we have already covered, since January 2009, have you added or replaced other equipment that is expected to significantly affect overall energy consumption?																										
Yes	13.10	18.41	10.49	13.24	35.23	30.33	0.48	21.07	3.58	4.89	12.08	9.12	9.73	8.70	8.84	17.14	25.75	16.35	1.89	8.78	16.63	9.18	20.18	7.16	9.17	26.38
No	85.33	80.27	87.60	86.64	59.34	63.72	99.52	78.93	94.76	94.86	87.02	90.88	88.39	86.92	91.17	82.86	74.20	83.66	98.11	90.93	81.76	90.82	76.08	92.32	89.77	70.31
Refused	0.02	0.06	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.23	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.02	0.01
Don't Know	1.55	1.26	1.91	0.10	5.43	5.96	0.00	0.00	1.66	0.25	0.90	0.00	1.66	4.38	0.00	0.00	0.00	0.00	0.00	0.29	1.61	0.00	3.69	0.52	1.03	3.31
n	*1213*	*493*	*498*	*222*	*36*	*46*	*11*	*127*	*142*	*81*	*194*	*82*	*222*	*44*	*108*	*72*	*48*	*127*	*83*	*144*	*57*	*152*	*509*	*141*	*1003*	*210*
<OT3> Which of the following types of equipment were installed since January 2010?																										
Food Service Equipment	5.21	0.32	6.73	19.54	0.00	0.00	0.00	0.00	12.89	0.00	13.41	0.00	0.27	0.00	4.08	0.72	26.30	0.41	0.00	6.51	0.00	6.17	5.39	6.07	6.34	3.88
Water Heating Equipment	6.13	4.50	2.21	34.64	0.00	0.35	0.00	3.78	0.00	0.00	4.97	0.00	16.13	22.43	4.74	0.00	46.63	34.56	78.73	0.00	0.00	0.00	6.99	4.97	3.31	9.44
Outdoor Lighting Equipment or	11.33	1.20	19.79	12.63	0.80	52.87	0.00	1.34	0.00	0.00	0.00	0.00	2.06	22.43	0.00	3.21	17.00	0.00	0.00	0.00	2.44	0.00	19.27	4.97	0.90	23.60
Compressed Air Equipment	20.65	36.22	7.53	19.34	8.42	0.00	0.00	67.01	4.66	0.00	18.90	31.78	0.00	22.43	1.73	0.00	21.36	0.00	0.00	71.44	0.00	0.00	12.46	12.83	33.27	5.81
Other	52.11	53.67	52.69	41.82	62.63	83.46	100.00	53.19	54.08	10.71	17.88	22.55	45.23	100.00	37.09	48.43	50.56	30.38	12.34	52.18	63.32	24.92	56.21	68.71	39.08	67.42
Refrigeration Equipment	6.97	6.32	2.90	31.74	8.52	0.00	0.00	2.60	0.44	62.87	4.15	38.21	10.10	0.00	16.50	11.97	24.79	23.96	7.68	2.72	0.00	8.27	7.13	10.64	7.73	6.07
Gas Equipment	14.40	2.07	23.40	22.94	0.00	52.87	0.00	1.34	26.44	0.00	0.00	0.00	0.35	0.00	19.37	0.00	30.88	0.52	0.00	0.00	0.00	25.64	20.34	4.97	5.60	24.75
Record	33.71	30.63	39.72	15.67	28.05	69.05	0.00	32.89	33.22	38.68	15.46	7.47	26.09	0.00	34.05	34.92	12.43	14.28	1.26	42.06	34.51	22.64	37.89	1.75	26.37	42.34
Refused	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Don't Know	0.34	0.00	0.70	0.00	0.00	0.13	0.00	0.00	3.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.77	0.00	0.00	0.04	0.00	0.59	0.05
n	*169*	*77*	*65*	*27*	*10*	*11*	*2*	*17*	*14*	*7*	*18*	*9*	*32*	*6*	*18*	*16*	*9*	*23*	*4*	*18*	*9*	*15*	*80*	*20*	*120*	*49*
<OT7_1> What was the efficiency level of the Food Service Equipment?																										
Standard Efficiency	11.99	0.00	18.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	28.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	18.31	0.00
High Efficiency	2.15	80.89	1.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	100.00	0.00	0.00	0.00	6.10	0.00	0.00	1.39	0.00	3.28	0.00
Energy Star	79.16	19.11	69.42	100.00	0.00	0.00	0.00	0.00	100.00	0.00	56.11	0.00	100.00	0.00	0.00	0.00	100.00	100.00	0.00	93.90	0.00	0.00	98.61	0.00	68.16	100.00
Don't Know	6.71	0.00	10.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	10.25	0.00
n	*8*	*2*	*5*	*1*	*0*	*0*	*0*	*0*	*1*	*0*	*3*	*0*	*1*	*0*	*1*	*1*	*1*	*1*	*0*	*2*	*0*	*1*	*3*	*1*	*7*	*1*
<OT10_1> In what year did you install the Food Service Equipment?																										
2010	12.81	0.00	20.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	28.14	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	100.00	1.39	0.00	19.57	0.00
2011	1.64	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	100.00	0.00	0.00	100.00	0.00	6.10	0.00	0.00	0.00	0.00	2.50	0.00
2012	85.55	0.00	79.93	100.00	0.00	0.00	0.00	0.00	100.00	0.00	71.86	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	93.90	0.00	0.00	98.61	100.00	77.93	100.00
n	*8*	*2*	*5*	*1*	*0*	*0*	*0*	*0*	*1*	*0*	*3*	*0*	*1*	*0*	*1*	*1*	*1*	*1*	*0*	*2*	*0*	*1*	*3*	*1*	*7*	*1*
<OT11_1> And can you recall the month?																										
June	2.17	19.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	2.17	0.00
Spring	82.97	0.00	93.59	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	82.97	0.00
Summer	14.86	80.89	6.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	100.00	0.00	0.00	0.00	100.00	0.00	0.00	100.00	0.00	14.86	0.00
n	*4*	*2*	*2*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*1*	*0*	*1*	*0*	*1*	*1*	*0*	*1*	*0*	*1*	*0*	*1*	*1*	*0*	*4*	*0*
<OT18_1> Did you receive a REBATE for the Food Service Equipment?																										
Yes	44.12	80.89	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	100.00	0.00	0.00	6.10	0.00	0.00	58.30	0.00	2.84	100.00
No	55.49	0.00	100.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	100.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	93.90	0.00	0.00	41.70	0.00	96.49	0.00
Don't Know	0.39	19.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.67	0.00
n	*6*	*2*	*3*	*1*	*0*	*0*	*0*	*0*	*1*	*0*	*1*	*0*	*1*	*0*	*1*	*1*	*1*	*1*	*0*	*2*	*0*	*0*	*3*	*0*	*5*	*1*
<OT7_2> What was the efficiency level of the Water Heating Equipment?																										
Standard Efficiency	23.24	1.67	0.00	33.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	19.27	0.00	0.00	0.00	33.79	1.64	0.00	0.00	0.00	0.00	27.46	0.00	0.59	31.72
High Efficiency	50.87	0.00	56.04	56.41	0.00	0.00	0.00	0.00	0.00	0.00	44.91	0.00	0.00	100.00	0.00	0.00	56.41	0.00	0.00	0.00	0.00	0.00	60.55	0.00	28.98	59.08
Energy Star	25.89	98.33	43.96	9.80	0.00	0.00	0.00	100.00	0.00	0.00	55.09	0.00	80.73	0.00	100.00	0.00	9.80	98.36	0.00	0.00	0.00	0.00	11.99	100.00	70.43	9.20
n	*10*	*4*	*3*	*3*	*0*	*0*	*0*	*1*	*0*	*0*	*2*	*0*	*2*	*1*	*1*	*0*	*3*	*2*	*0*	*0*	*0*	*0*	*7*	*1*	*6*	*4*

* Values are shown as percent of respondents weighted by kWh.
* n is the number of respondents.

	ALL	PG&E(%)	SCE(%)	SDG&E(%)	PG&E Custom Program(%)	SCE Custom Program(%)	SDG&E Custom Program(%)	PG&E Deemed Program(%)	SCE Deemed Program(%)	SDG&E Deemed Program(%)	SCE Direct Install Program(%)	SDG&E Direct Install Program(%)	PG&E LGP Program(%)	SCE LGP Program(%)	PG&E L3P Program(%)	SCE L3P Program(%)	SDG&E L3P Program(%)	CFL Basic(%)	CFL Reflector(%)	High Bay(%)	HID(%)	LF Delamp(%)	Linear(%)	Occupancy Sensor(%)	Deemed(%)	All Calculated(%)
<OT10_2> In what year did you install the Water Heating Equipment?																										
2009	4.45	0.00	20.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.30	0.00	0.00	6.12
2010	16.38	0.00	43.96	9.80	0.00	0.00	0.00	0.00	0.00	0.00	55.09	0.00	0.00	0.00	0.00	0.00	9.80	98.36	0.00	0.00	0.00	0.00	7.97	0.00	35.55	9.20
2011	10.76	29.64	35.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	44.91	0.00	19.27	0.00	100.00	0.00	0.00	1.64	0.00	0.00	0.00	0.00	12.61	0.00	39.49	0.00
2012	67.72	63.35	0.00	90.20	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	90.20	0.00	0.00	0.00	0.00	0.00	73.31	100.00	22.47	84.68
Don't Know	0.68	7.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	80.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.81	0.00	2.49	0.00
n	*10*	*4*	*3*	*3*	*0*	*0*	*0*	*1*	*0*	*0*	*2*	*0*	*2*	*1*	*1*	*0*	*3*	*2*	*0*	*0*	*0*	*0*	*7*	*1*	*6*	*4*
<OT11_2> And can you recall the month?																										
May	24.99	0.00	35.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	44.91	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	36.31	0.00	38.62	0.00
September	30.66	0.00	43.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	55.09	0.00	0.00	0.00	0.00	0.00	0.00	98.36	0.00	0.00	0.00	0.00	0.00	0.00	47.37	0.00
Fall	8.55	94.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.43	0.00	13.22	0.00
Don't Know	35.80	5.65	20.21	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	100.00	0.00	0.00	100.00	1.64	0.00	0.00	0.00	0.00	51.26	0.00	0.79	100.00
n	*6*	*2*	*3*	*1*	*0*	*0*	*0*	*0*	*0*	*0*	*2*	*0*	*1*	*1*	*1*	*0*	*1*	*2*	*0*	*0*	*0*	*0*	*4*	*0*	*4*	*2*
<OT18_2> Did you receive a REBATE for the Water Heating Equipment																										
Yes	71.53	0.00	43.96	100.00	0.00	0.00	0.00	0.00	0.00	0.00	55.09	0.00	0.00	0.00	0.00	0.00	100.00	100.00	0.00	0.00	0.00	0.00	74.19	0.00	35.76	91.04
No	28.47	100.00	56.04	0.00	0.00	0.00	0.00	100.00	0.00	0.00	44.91	0.00	100.00	100.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	25.81	100.00	64.24	8.96
n	*8*	*3*	*3*	*2*	*0*	*0*	*0*	*1*	*0*	*0*	*2*	*0*	*1*	*1*	*1*	*0*	*2*	*1*	*0*	*0*	*0*	*0*	*6*	*1*	*5*	*3*
<OT7_3> What was the efficiency level of Outdoor Lighting Equipment ?																										
Standard Efficiency	83.43	0.00	95.92	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	85.72	0.00	0.00	87.24
High Efficiency	9.54	4.70	2.13	73.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	100.00	0.00	0.00	73.11	0.00	0.00	0.00	100.00	0.00	9.68	0.00	2.87	9.85
Energy Star	2.78	0.00	0.00	26.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	26.89	0.00	0.00	0.00	0.00	0.00	2.86	0.00	0.00	2.91
Don't Know	4.24	95.30	1.95	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	1.74	100.00	97.13	0.00
n	*7*	*2*	*3*	*2*	*0*	*1*	*0*	*1*	*0*	*0*	*0*	*0*	*1*	*1*	*0*	*1*	*2*	*0*	*0*	*0*	*1*	*0*	*5*	*1*	*3*	*4*
<OT10_3> In what year did you install the Outdoor Lighting Equipment ?																										
2010	3.55	0.00	4.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	3.65	0.00	38.85	1.94
2011	88.88	100.00	95.92	26.89	0.00	100.00	0.00	100.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	26.89	0.00	0.00	0.00	100.00	0.00	88.58	100.00	61.15	90.15
2012	7.57	0.00	0.00	73.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	73.11	0.00	0.00	0.00	0.00	0.00	7.78	0.00	0.00	7.91
n	*7*	*2*	*3*	*2*	*0*	*1*	*0*	*1*	*0*	*0*	*0*	*0*	*1*	*1*	*0*	*1*	*2*	*0*	*0*	*0*	*1*	*0*	*5*	*1*	*3*	*4*
<OT11_3> And can you recall the month?																										
March	90.26	0.00	95.92	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	92.95	0.00	0.00	94.74
December	4.59	95.30	1.95	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	1.89	100.00	97.13	0.00
Winter	5.01	0.00	2.13	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	5.16	0.00	0.00	5.26
Summer	0.14	4.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	2.87	0.00
n	*6*	*2*	*3*	*1*	*0*	*1*	*0*	*1*	*0*	*0*	*0*	*0*	*1*	*1*	*0*	*1*	*1*	*0*	*0*	*0*	*1*	*0*	*4*	*1*	*3*	*3*
<OT18_3> Did you receive a REBATE for the Outdoor Lighting Equipment ?																										
Yes	98.98	0.00	100.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	100.00
No	1.02	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	100.00	0.00

* Values are shown as percent of respondents weighted by kWh.
* n is the number of respondents.

	ALL	PG&E(%)	SCE(%)	SDG&E(%)	PG&E Custom Program(%)	SCE Custom Program(%)	SDG&E Custom Program(%)	PG&E Deemed Program(%)	SCE Deemed Program(%)	SDG&E Deemed Program(%)	SCE Direct Install Program(%)	SDG&E Direct Install Program(%)	PG&E LGP Program(%)	SCE LGP Program(%)	PG&E L3P Program(%)	SCE L3P Program(%)	SDG&E L3P Program(%)	CFL Basic(%)	CFL Reflector(%)	High Bay(%)	HID(%)	LF Delamp(%)	Linear(%)	Occupancy Sensor(%)	Deemed(%)	All Calculated(%)
n	*4*	*1*	*1*	*2*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*1*	*1*	*0*	*0*	*2*	*0*	*0*	*0*	*1*	*0*	*3*	*0*	*1*	*3*
<OT7_4> What was the efficiency level of the Compressed Air Equipment?																										
Standard Efficiency	31.52	41.62	0.00	0.00	0.00	0.00	0.00	44.48	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	48.09	0.00	0.00	0.00	0.00	35.06	0.00
High Efficiency	52.36	57.95	15.93	100.00	100.00	0.00	0.00	55.06	100.00	0.00	0.00	100.00	0.00	100.00	0.00	0.00	100.00	0.00	0.00	51.91	0.00	0.00	51.41	83.16	47.01	100.00
Don't Know	16.12	0.43	84.07	0.00	0.00	0.00	0.00	0.47	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	48.59	16.84	17.93	0.00
n	*12*	*6*	*3*	*3*	*1*	*0*	*0*	*4*	*1*	*0*	*1*	*1*	*0*	*1*	*1*	*0*	*2*	*0*	*0*	*4*	*0*	*0*	*6*	*2*	*8*	*4*
<OT10_4> In what year did you install the Compressed Air Equipment?																										
2009	6.77	6.85	0.00	28.86	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	40.96	0.00	0.00	0.00	0.00	0.00	20.82	0.00	0.00	67.03
2010	0.26	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.39	0.00	0.00	0.00	0.00	0.29	0.00
2011	22.68	0.00	100.00	71.15	0.00	0.00	0.00	0.00	100.00	0.00	100.00	100.00	0.00	100.00	0.00	0.00	59.04	0.00	0.00	2.96	0.00	0.00	58.83	83.16	21.52	32.97
2012	70.30	92.81	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	96.65	0.00	0.00	20.35	16.84	78.19	0.00
n	*12*	*6*	*3*	*3*	*1*	*0*	*0*	*4*	*1*	*0*	*1*	*1*	*0*	*1*	*1*	*0*	*2*	*0*	*0*	*4*	*0*	*0*	*6*	*2*	*8*	*4*
<OT11_4> And can you recall the month?																										
February	0.87	4.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	11.70	0.00	0.00	0.00	0.00	1.31	0.00
June	7.67	0.00	0.00	41.59	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	59.04	0.00	0.00	0.00	0.00	0.00	8.80	0.00	0.00	22.56
Fall	5.45	0.00	0.00	29.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	8.26	0.00
Summer	63.23	0.00	100.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	88.30	0.00	0.00	65.06	0.00	90.43	10.41
Don't Know	22.78	95.28	0.00	28.86	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	40.96	0.00	0.00	0.00	0.00	0.00	26.14	0.00	0.00	67.03
n	*8*	*2*	*3*	*3*	*1*	*0*	*0*	*0*	*1*	*0*	*1*	*1*	*0*	*1*	*1*	*0*	*2*	*0*	*0*	*2*	*0*	*0*	*5*	*1*	*4*	*4*
<OT18_4> Did you receive a REBATE for the Compressed Air Equipment?																										
Yes	76.22	84.93	35.12	28.86	100.00	0.00	0.00	82.91	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	40.96	0.00	0.00	94.30	0.00	0.00	46.79	0.00	75.93	77.44
No	23.78	15.07	64.88	71.15	0.00	0.00	0.00	17.09	100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	59.04	0.00	0.00	5.70	0.00	0.00	53.21	100.00	24.07	22.56
n	*8*	*3*	*2*	*3*	*1*	*0*	*0*	*2*	*1*	*0*	*0*	*1*	*0*	*1*	*0*	*0*	*2*	*0*	*0*	*2*	*0*	*0*	*5*	*1*	*4*	*4*
<OT7_5> What was the efficiency level of the HVAC Cooling Equipment?																										
Standard Efficiency	24.86	0.44	46.83	34.97	0.00	63.34	0.00	0.00	71.60	0.00	12.47	0.00	0.55	0.06	9.62	0.16	38.94	0.00	100.00	0.00	3.09	0.00	34.72	23.53	7.75	34.64
High Efficiency	26.44	19.56	36.85	4.14	0.00	22.20	0.00	27.62	28.40	100.00	36.88	7.02	30.71	99.94	55.00	95.98	0.00	95.14	0.00	11.47	96.91	83.53	18.77	35.44	35.31	21.38
Energy Star	33.36	48.21	14.45	60.33	17.24	13.27	0.00	66.90	0.00	0.00	42.06	92.98	68.27	0.00	21.26	3.86	61.06	1.99	0.00	88.53	0.00	0.00	23.33	41.03	51.27	23.13
Don't Know	15.34	31.79	1.87	0.56	82.76	1.19	100.00	5.48	0.00	0.00	8.59	0.00	0.48	0.00	14.11	0.00	0.00	2.87	0.00	0.00	0.00	16.47	23.18	0.00	5.67	20.85
n	*63*	*24*	*29*	*10*	*3*	*6*	*1*	*8*	*5*	*1*	*4*	*3*	*8*	*6*	*5*	*8*	*5*	*7*	*1*	*4*	*6*	*4*	*31*	*10*	*40*	*23*
<OT10_5> In what year did you install the HVAC Cooling Equipment?																										
2009	6.16	1.47	11.74	0.00	0.00	0.00	0.00	2.70	0.00	0.00	36.88	0.00	0.92	0.47	0.00	55.66	0.00	93.97	0.00	0.00	0.69	0.00	5.03	7.74	7.98	5.13
2010	11.69	4.98	19.52	3.72	0.00	13.27	0.00	9.54	56.12	100.00	42.06	0.00	1.11	27.60	0.00	8.02	0.00	1.17	0.00	13.16	7.70	38.84	11.36	14.11	19.91	6.99
2011	63.15	61.07	64.47	67.31	82.76	86.42	0.00	56.78	43.88	0.00	21.06	92.98	29.71	71.93	14.11	3.86	68.84	2.99	100.00	80.94	0.00	61.16	72.36	19.81	49.58	70.89
2012	17.74	29.69	4.27	28.96	17.24	0.32	100.00	25.49	0.00	0.00	0.00	7.02	68.27	0.00	85.89	32.46	31.16	1.87	0.00	5.90	91.61	0.00	9.31	58.34	19.04	16.99
Don't Know	1.27	2.79	0.00	0.00	0.00	0.00	0.00	5.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.94	0.00	3.48	0.00
n	*63*	*24*	*29*	*10*	*3*	*6*	*1*	*8*	*5*	*1*	*4*	*3*	*8*	*6*	*5*	*8*	*5*	*7*	*1*	*4*	*6*	*4*	*31*	*10*	*40*	*23*
<OT11_5> And can you recall the month?																										
February	16.53	42.05	1.15	0.00	100.00	0.00	0.00	0.00	0.00	0.00	8.59	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	23.18	0.00	1.84	24.36
May	4.17	7.19	2.62	0.00	0.00	0.00	0.00	13.83	0.00	0.00	12.47	0.00	0.00	22.43	0.00	0.00	0.00	0.00	0.00	13.99	0.00	0.00	2.04	0.00	10.49	0.80
June	24.94	2.24	43.55	0.00	0.00	64.74	0.00	0.00	0.00	0.00	0.00	0.00	32.32	0.06	71.33	1.19	0.00	2.03	0.00	0.00	0.20	16.47	33.70	15.02	2.60	36.83
July	0.61	1.60	0.00	0.00	0.00	0.00	0.00	3.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	44.69	0.00	0.00	1.74	0.00
August	0.89	0.00	0.76	6.82	0.00	0.00	0.00	0.00	11.95	0.00	0.00	88.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	10.20	2.57	0.00
September	4.48	0.00	8.09	0.00	0.00	11.59	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.55	0.00	0.00	0.00	0.00	0.00	0.00	6.28	0.00	0.50	6.60
November	17.23	41.20	2.99	0.00	0.00	0.00	0.00	79.18	0.00	0.00	0.00	0.00	0.00	71.00	0.00	0.00	0.00	0.00	0.00	80.09	0.00	0.00	2.32	0.00	44.80	2.54
Fall	4.07	0.00	7.35	0.00	0.00	10.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.52	0.00	0.00	0.00	0.00	0.00	0.00	5.70	0.00	0.64	5.89
Winter	5.76	0.09	8.93	11.43	0.00	13.31	0.00	0.00	0.00	0.00	0.00	0.00	1.77	0.00	0.00	0.00	13.13	1.19	0.00	0.00	0.00	0.00	8.03	0.00	0.10	8.78
Spring	7.57	2.11	12.24	0.00	0.00	0.00	0.00	3.91	0.00	0.00	36.88	0.00	1.51	0.00	0.00	82.42	0.00	96.78	0.00	0.00	0.00	0.00	5.65	18.57	10.19	6.18
Summer	4.01	0.09	5.85	10.74	0.00	0.00	0.00	0.00	88.05	0.00	0.00	11.74	1.72	5.12	0.00	0.00	11.30	0.00	100.00	0.00	91.53	8.81	1.04	56.21	9.49	1.09
Don't Know	9.75	3.43	6.45	71.01	0.00	0.00	0.00	0.00	0.00	100.00	42.06	0.00	62.68	1.40	28.67	8.32	75.57	0.00	0.00	5.92	8.28	30.03	11.41	0.00	15.04	6.94
n	*46*	*15*	*25*	*6*	*2*	*5*	*0*	*5*	*5*	*1*	*4*	*2*	*6*	*6*	*2*	*5*	*3*	*4*	*1*	*3*	*4*	*4*	*25*	*5*	*32*	*14*
<OT18_5> Did you receive a REBATE for the HVAC Cooling Equipment?																										
Yes	60.20	60.78	54.22	85.07	100.00	66.52	0.00	57.82	0.00	0.00	0.00	0.00	69.54	22.44	0.00	93.62	100.00	1.20	0.00	75.37	0.00	35.95	67.37	74.17	41.22	81.28
No	39.14	39.07	45.75	8.16	0.00	33.48	0.00	42.18	100.00	0.00	100.00	89.08	29.53	77.56	100.00	6.27	0.00	98.80	0.00	24.63	99.28	64.05	31.38	25.72	57.52	18.72
Don't Know	0.66	0.15	0.03	6.77	0.00	0.00	0.00	0.00	0.00	100.00	0.00	10.92	0.93	0.00	0.00	0.12	0.00	0.00	0.00	0.00	0.72	0.00	1.25	0.11	1.25	0.00
n	*43*	*16*	*20*	*7*	*1*	*4*	*0*	*7*	*2*	*1*	*2*	*3*	*6*	*5*	*2*	*7*	*3*	*5*	*0*	*4*	*3*	*3*	*21*	*7*	*29*	*14*

* Values are shown as percent of respondents weighted by kWh.
* n is the number of respondents.

	ALL	PG&E(%)	SCE(%)	SDG&E(%)	PG&E Custom Program(%)	SCE Custom Program(%)	SDG&E Custom Program(%)	PG&E Deemed Program(%)	SCE Deemed Program(%)	SDG&E Deemed Program(%)	SCE Direct Install Program(%)	SDG&E Direct Install Program(%)	PG&E LGP Program(%)	SCE LGP Program(%)	PG&E L3P Program(%)	SCE L3P Program(%)	SDG&E L3P Program(%)	CFL Basic(%)	CFL Reflector(%)	High Bay(%)	HID(%)	LF Delamp(%)	Linear(%)	Occupancy Sensor(%)	Deemed(%)	All Calculated(%)
<OT7_6> What was the efficiency level of the Refrigeration Equipment?																										
Standard Efficiency	12.18	5.65	49.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.71	0.00	10.49	99.18	0.00	0.00	0.00	10.29	0.00	84.27	2.46	0.00	18.33	2.98
High Efficiency	33.56	58.14	0.00	27.48	100.00	0.00	0.00	0.00	0.00	33.56	0.00	54.00	74.87	0.00	14.24	0.00	18.44	38.28	0.00	71.05	0.00	0.00	38.18	13.66	23.95	47.93
Energy Star	30.02	25.53	48.28	25.19	0.00	0.00	0.00	48.39	0.00	66.44	100.00	46.00	8.42	0.00	75.26	0.82	0.00	61.72	100.00	18.66	0.00	15.73	25.47	33.72	50.09	0.00
Don't Know	24.24	10.68	2.51	47.33	0.00	0.00	0.00	51.61	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	81.56	0.00	0.00	0.00	0.00	0.00	33.88	52.62	7.64	49.09
n	*33*	*17*	*7*	*9*	*2*	*0*	*0*	*3*	*1*	*5*	*4*	*2*	*6*	*0*	*6*	*2*	*2*	*5*	*1*	*5*	*0*	*3*	*14*	*5*	*28*	*5*
<OT10_6> In what year did you install the the Refrigeration Equipment?																										
2009	14.84	38.76	0.40	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00	0.00	0.00	25.43	0.95	0.14	36.84
2010	38.71	36.53	3.35	58.03	0.00	0.00	0.00	46.05	0.00	0.00	7.00	0.00	74.93	0.00	56.23	0.00	100.00	43.29	0.00	0.00	0.00	15.73	53.31	0.00	22.35	63.16
2011	23.90	7.92	74.95	13.51	0.00	0.00	0.00	0.00	0.00	46.95	53.77	0.00	8.42	0.00	33.27	99.18	0.00	11.47	100.00	32.63	0.00	84.27	11.11	32.78	39.87	0.00
2012	22.56	16.80	21.29	28.45	0.00	0.00	0.00	53.95	100.00	53.05	39.23	100.00	16.65	0.00	10.49	0.00	0.00	45.24	0.00	67.37	0.00	0.00	10.16	66.28	37.63	0.00
n	*33*	*17*	*7*	*9*	*2*	*0*	*0*	*3*	*1*	*5*	*4*	*2*	*6*	*0*	*6*	*2*	*2*	*5*	*1*	*5*	*0*	*3*	*14*	*5*	*28*	*5*
<OT11_6> And can you recall the month?																										
January	1.55	0.00	0.00	4.05	0.00	0.00	0.00	0.00	0.00	21.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.31	0.00	3.22	0.00
February	2.02	0.00	0.00	5.25	0.00	0.00	0.00	0.00	0.00	27.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.94	0.00	0.00	0.00	0.00	0.00	0.00	4.18	0.00
April	13.16	0.52	62.52	0.00	1.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	99.18	0.00	0.00	0.00	0.00	0.00	84.27	0.32	0.00	26.82	0.41
May	6.77	0.00	32.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	88.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.06	0.00	14.03	0.00
June	2.42	5.91	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	30.32	0.00	0.00	0.00	0.00	0.00	0.00	15.73	0.00	0.00	5.01	0.00
October	4.56	0.00	4.26	9.59	0.00	0.00	0.00	0.00	0.00	50.77	11.52	0.00	0.00	0.00	0.00	0.00	0.00	9.16	0.00	0.00	0.00	0.00	0.00	97.19	9.45	0.00
Fall	27.87	6.04	0.00	66.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.10	0.00	19.33	0.00	81.56	0.00	100.00	42.80	0.00	0.00	38.12	0.00	5.12	49.09
Spring	5.55	13.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.75	0.00	50.35	0.00	0.00	0.00	0.00	57.20	0.00	0.00	5.73	0.00	8.31	2.98
Don't Know	36.10	73.96	0.51	14.96	98.88	0.00	0.00	100.00	0.00	0.00	0.00	0.00	73.14	0.00	0.00	0.82	18.44	69.90	0.00	0.00	0.00	0.00	43.47	2.81	23.87	47.52
n	*21*	*11*	*5*	*5*	*2*	*0*	*0*	*1*	*0*	*3*	*3*	*0*	*3*	*0*	*5*	*2*	*2*	*3*	*1*	*3*	*0*	*2*	*10*	*2*	*16*	*5*
<OT18_6> Did you receive a REBATE for the Refrigeration Equipment?																										
Yes	41.77	62.08	0.00	30.97	100.00	0.00	0.00	0.00	0.00	19.50	0.00	0.00	10.11	0.00	69.68	0.00	100.00	17.13	100.00	36.37	0.00	0.00	57.41	0.00	16.57	100.00
No	52.52	26.53	100.00	69.03	0.00	0.00	0.00	4.83	0.00	80.50	100.00	100.00	89.89	0.00	30.32	100.00	0.00	82.87	0.00	63.63	0.00	100.00	32.77	100.00	75.26	0.00
Don't Know	5.71	11.39	0.00	0.00	0.00	0.00	0.00	95.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.82	0.00	8.18	0.00
n	*25*	*12*	*5*	*8*	*2*	*0*	*0*	*2*	*0*	*5*	*4*	*2*	*3*	*0*	*5*	*1*	*1*	*5*	*1*	*4*	*0*	*1*	*11*	*3*	*22*	*3*
<OT7_7> What was the efficiency level of the Gas Equipment?																										
Standard Efficiency	64.46	0.00	81.14	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	80.53	0.00	0.00	81.61
High Efficiency	30.76	20.62	18.87	100.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	100.00	0.00	28.11	0.00	100.00	100.00	0.00	0.00	0.00	90.17	18.15	0.00	77.25	18.39
Energy Star	2.81	46.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	71.89	0.00	0.00	0.00	0.00	0.00	0.00	9.83	1.32	0.00	13.39	0.00
Don't Know	1.97	32.66	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	9.36	0.00
n	*12*	*8*	*2*	*2*	*0*	*1*	*0*	*1*	*1*	*0*	*0*	*0*	*1*	*0*	*6*	*0*	*2*	*1*	*0*	*0*	*0*	*4*	*6*	*1*	*9*	*3*
<OT10_7> In what year did you install the Gas Equipment?																										
2009	0.85	14.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.69	0.00	0.00	0.00	0.00	0.00	0.00	4.76	0.00	0.00	4.04	0.00
2010	2.25	37.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	53.84	0.00	0.00	100.00	0.00	0.00	0.00	11.24	0.13	0.00	10.70	0.00
2011	94.07	1.49	100.00	100.00	0.00	100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	2.29	0.00	100.00	0.00	0.00	0.00	0.00	84.00	98.79	0.00	71.76	100.00
2012	2.84	47.07	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	22.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.08	100.00	13.49	0.00
n	*12*	*8*	*2*	*2*	*0*	*1*	*0*	*1*	*1*	*0*	*0*	*0*	*1*	*0*	*6*	*0*	*2*	*1*	*0*	*0*	*0*	*4*	*6*	*1*	*9*	*3*
<OT11_7> And can you recall the month?																										
January	15.43	0.00	18.87	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	84.00	0.00	0.00	82.46	0.00
June	67.27	28.40	81.14	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	29.72	0.00	0.00	0.00	0.00	0.00	0.00	5.07	81.41	0.00	4.98	81.61
October	0.09	2.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.94	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00	0.49	0.00
Fall	0.11	3.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.00	0.56	0.00
Winter	3.09	26.64	0.00	14.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	27.87	0.00	14.81	0.00	0.00	0.00	0.00	4.76	2.72	0.00	4.67	2.72
Spring	1.28	38.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	36.12	0.00	0.00	100.00	0.00	0.00	0.00	6.17	0.00	0.00	6.83	0.00
Don't Know	12.74	0.00	0.00	85.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	85.19	0.00	0.00	0.00	0.00	0.00	15.63	0.00	0.00	15.67
n	*10*	*6*	*2*	*2*	*0*	*1*	*0*	*0*	*1*	*0*	*0*	*0*	*1*	*0*	*5*	*0*	*2*	*1*	*0*	*0*	*0*	*4*	*5*	*0*	*7*	*3*
<OT18_7> Did you receive a REBATE for the Gas Equipment?																										
Yes	37.55	5.70	0.00	85.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	2.29	0.00	85.19	100.00	0.00	0.00	0.00	0.00	79.97	0.00	1.21	85.19
No	62.45	94.30	100.00	14.81	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	97.71	0.00	14.81	0.00	0.00	0.00	0.00	100.00	20.03	0.00	98.79	14.81
n	*10*	*7*	*1*	*2*	*0*	*0*	*0*	*0*	*1*	*0*	*0*	*0*	*1*	*0*	*6*	*0*	*2*	*1*	*0*	*0*	*0*	*4*	*5*	*0*	*8*	*2*

* Values are shown as percent of respondents weighted by kWh.
* n is the number of respondents.

	ALL	PG&E(%)	SCE(%)	SDG&E(%)	PG&E Custom Program(%)	SCE Custom Program(%)	SDG&E Custom Program(%)	PG&E Deemed Program(%)	SCE Deemed Program(%)	SDG&E Deemed Program(%)	SCE Direct Install Program(%)	SDG&E Direct Install Program(%)	PG&E LGP Program(%)	SCE LGP Program(%)	PG&E L3P Program(%)	SCE L3P Program(%)	SDG&E L3P Program(%)	CFL Basic(%)	CFL Reflector(%)	High Bay(%)	HID(%)	LF Delamp(%)	Linear(%)	Occupancy Sensor(%)	Deemed(%)	All Calculated(%)
<OT7_77> What was the efficiency level of the other equipment?																										
Standard Efficiency	18.33	46.37	5.06	0.68	0.00	0.00	0.00	88.93	23.29	0.00	0.00	19.23	7.31	0.00	3.61	0.00	0.00	0.80	13.36	93.49	5.90	0.00	0.00	22.23	34.88	0.47
High Efficiency	56.29	34.55	67.43	57.99	97.68	93.76	0.00	6.60	33.31	68.31	46.54	50.10	36.47	0.00	29.36	77.69	54.93	61.80	85.27	2.33	94.10	73.27	67.11	0.00	28.87	85.88
Energy Star	14.33	9.63	17.24	7.66	0.00	0.00	0.00	4.48	40.73	31.69	32.81	0.00	8.01	0.00	65.76	0.00	0.00	26.83	1.37	0.00	0.00	26.73	14.94	77.77	27.39	0.23
Don't Know	11.05	9.45	10.28	33.67	2.32	6.24	0.00	0.00	2.67	0.00	20.65	30.67	48.21	0.00	1.27	22.31	45.07	10.57	0.00	4.18	0.00	0.00	17.95	0.00	8.86	13.41
n	*63*	*30*	*25*	*8*	*5*	*6*	*1*	*4*	*8*	*2*	*7*	*3*	*14*	*0*	*7*	*4*	*2*	*9*	*3*	*10*	*3*	*5*	*31*	*2*	*41*	*22*
<OT10_77> In what year did you install of the other equipment?																										
2009	0.30	0.87	0.02	0.00	0.00	0.00	0.00	0.00	0.09	0.00	0.00	0.00	0.00	0.00	9.64	0.00	0.00	0.00	0.00	1.49	0.00	0.00	0.02	0.00	0.57	0.00
2010	12.08	14.43	9.41	32.59	0.00	6.24	0.00	0.00	30.22	0.00	0.00	0.00	78.90	0.00	0.00	0.00	45.07	53.72	0.00	0.00	5.90	25.31	10.37	0.00	7.95	16.54
2011	48.56	32.82	58.92	17.59	92.84	80.85	0.00	4.48	11.75	68.31	75.32	30.67	17.80	0.00	71.93	2.11	0.00	0.00	13.36	3.01	0.76	46.88	71.37	100.00	35.67	62.48
2012	38.05	51.89	30.05	49.82	7.16	12.91	0.00	95.52	57.94	31.69	22.05	69.33	3.30	0.00	18.44	84.63	54.93	46.28	86.64	95.50	93.34	27.82	16.40	0.00	54.99	19.77
Don't Know	1.01	0.00	1.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.63	0.00	0.00	0.00	0.00	13.26	0.00	0.00	0.00	0.00	0.00	0.00	1.84	0.00	0.82	1.22
n	*63*	*30*	*25*	*8*	*5*	*6*	*1*	*4*	*8*	*2*	*7*	*3*	*14*	*0*	*7*	*4*	*2*	*9*	*3*	*10*	*3*	*5*	*31*	*2*	*41*	*22*
<OT11_77> And can you recall the month?																										
January	3.45	13.42	0.00	0.00	2.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	79.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.69	0.00	8.29	0.54
February	1.59	1.48	0.00	32.91	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	4.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.97	1.64	0.00	4.22	0.00
March	0.37	1.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.92	0.00	0.00	0.00	0.00	0.00	0.00	0.00	88.52	0.00	0.00	0.00	0.00	0.60
June	44.04	0.00	62.39	0.00	0.00	77.93	0.00	0.00	0.00	0.00	60.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	62.18	43.45	0.00	31.91	51.36
July	0.08	0.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00	0.21	0.00
August	6.77	0.00	9.60	0.00	0.00	0.00	0.00	0.00	71.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	35.06	0.00	0.00	17.99	0.00
September	0.70	2.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.38	0.00	0.00	0.00	0.00	0.00	0.00	49.95	0.00	0.00	0.00	0.00	1.86	0.00
October	0.09	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.51	0.00	1.13	0.00	0.00	0.00	0.00	0.00	11.48	0.00	0.06	0.00	0.25	0.00
December	3.27	0.24	4.44	2.15	0.00	0.00	0.00	0.00	0.00	0.00	15.73	100.00	0.00	0.00	1.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.44	0.00	8.69	0.00
Fall	5.40	0.71	7.40	0.00	0.00	12.70	0.00	0.00	0.00	0.00	0.00	0.00	1.94	0.00	0.00	0.00	0.00	5.52	0.00	0.00	0.00	0.00	7.08	0.00	0.00	8.67
Spring	10.86	42.19	0.00	0.00	86.61	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.11	77.77	3.20	15.49
Summer	14.23	29.49	9.40	0.00	0.00	9.36	0.00	0.00	27.93	0.00	0.00	0.00	77.74	0.00	6.01	100.00	0.00	94.48	100.00	16.87	0.00	0.79	14.13	0.00	8.54	17.66
Don't Know	9.13	7.64	6.78	64.94	10.40	0.00	0.00	0.00	0.23	0.00	23.92	0.00	3.64	0.00	11.81	0.00	100.00	0.00	0.00	33.17	0.00	0.00	11.30	22.23	14.85	5.68
n	*35*	*20*	*12*	*3*	*3*	*4*	*0*	*1*	*4*	*1*	*3*	*1*	*11*	*0*	*5*	*1*	*1*	*2*	*1*	*3*	*2*	*4*	*21*	*2*	*22*	*13*
<OT18_77> Did you receive a REBATE for the other equipment?																										
Yes	22.09	57.09	9.88	72.16	85.17	11.80	0.00	0.00	0.00	31.69	16.30	0.00	74.12	0.00	6.12	0.00	100.00	72.67	0.00	32.55	0.00	0.00	28.90	0.00	9.05	31.29
No	71.77	36.86	83.62	27.84	4.95	87.71	0.00	100.00	100.00	68.31	83.70	100.00	19.68	0.00	93.88	2.71	0.00	22.42	100.00	67.45	100.00	100.00	61.85	100.00	90.95	58.23
Don't Know	6.14	6.04	6.50	0.00	9.88	0.49	0.00	0.00	0.00	0.00	0.00	0.00	6.20	0.00	0.00	97.29	0.00	4.91	0.00	0.00	0.00	0.00	9.26	0.00	0.00	10.47
n	*42*	*21*	*16*	*5*	*4*	*5*	*1*	*2*	*4*	*2*	*5*	*1*	*10*	*0*	*5*	*2*	*1*	*7*	*2*	*3*	*2*	*5*	*22*	*1*	*26*	*16*
<LOG_REC> Are you interested in participating in this project??																										
Yes	35.60	34.83	35.67	37.70	49.77	15.22	86.30	26.07	31.92	35.21	50.23	35.08	38.85	16.27	38.53	43.54	33.02	38.57	41.80	22.10	10.31	46.12	40.60	44.20	37.74	28.37
No	61.71	61.71	63.00	52.98	41.83	81.84	13.70	70.95	67.66	57.58	48.12	64.79	57.85	83.73	61.40	52.70	50.06	57.57	57.04	76.97	72.76	53.88	55.15	55.50	60.50	65.82
Refused	0.21	0.24	0.22	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.89	0.00	0.00	0.01	0.05	0.00	1.16	0.20	0.00	0.00	0.28	0.00	0.27	0.01
Don't Know	2.48	3.22	1.10	9.31	8.40	2.94	0.00	2.98	0.42	7.21	0.89	0.13	2.41	0.00	0.06	3.75	16.88	3.86	0.00	0.73	16.93	0.00	3.97	0.31	1.49	5.80
n	*1213*	*493*	*498*	*222*	*36*	*46*	*11*	*127*	*142*	*81*	*194*	*82*	*222*	*44*	*108*	*72*	*48*	*127*	*83*	*144*	*57*	*152*	*509*	*141*	*1003*	*210*

* Values are shown as percent of respondents weighted by kWh.
* n is the number of respondents.

Appendix E

Lighting Logger Field Installation Procedures

This appendix contains the procedures for installing lighting loggers in commercial establishments for the Nonresidential Downstream Lighting Impact Evaluation of the 2010-2012 Investor-Owned Utilities' (IOU) energy efficiency programs. It presents an overview of the objectives and describes the equipment and materials used for the study, initialization and programming of the data loggers, the procedures to be used for installing and extracting the loggers, and the procedures for panel metering and circuit spot measurements.

Please note that this appendix contains materials taken directly from the procedure and guideline documents provided to the onsite surveyors, and therefore are written in a future tense on what the surveyors should do on-site.

Sections of this appendix are as follows.

- E.1 Technologies Monitored
- E.2 Equipment and Installation Materials
- E.3 Data Logger Initialization and Programming Procedures
- E.4 Logger Installation Guidelines (Non-Panel Metering)
- E.5 Special Logger Installation Situations
- E.6 Logger Extraction Procedures
- E.7 Panel Metering Guidelines

E.1 Technologies Monitored

Lighting loggers will be used to obtain annual equivalent full load hour estimates and load shapes for seven high-impact measures (HIM) lighting technologies: Indoor – CFL Basic, CFL Reflectors, Occupancy Sensors, HIDs, High Bay Fluorescents, Linear Fluorescents, and Linear Fluorescent Delamping. The following are brief descriptions of each technology monitored:

- **Indoor CFL – Basic (CFL).** These are either screw-in CFLs or pin-based fixtures. For these measures, the counts and measure descriptions are available from the IOU tracking database.

- **Indoor CFL – Reflector (CFLr).** These are either screw-in CFLs or pin-based fixtures where the CFL shape is that of a reflector, flood, or PAR. For these measures, the counts and measure descriptions are available from the IOU tracking database.
- **Indoor Controls – Occupancy Sensor (OCC).** These are any type of occupancy sensor that controls indoor lighting. These will typically be mounted on indoor walls, ceilings, or integrated into the lighting fixture.
- **Indoor HID (HID).** These are high intensity discharge lamps with the most common being metal halide and ceramic metal halide.
- **Indoor High Bay Fluorescent (HBF).** These are typically four to six lamp T8 or T5HO fixtures used in a high bay (fixtures greater than 12 ft. in height) space. They typically replace HID lighting or HO T12s.
- **Indoor Linear Fluorescents (LF).** These are non-high bay linear fluorescent fixtures, typically converted and/or delamped from T12s, but other baseline technologies (less efficient T8s, incandescent, mercury vapor, etc.) are possible.
- **Indoor Linear Fluorescent Delamping (LFD).** Typically these are done in conjunction with a linear fluorescent retrofit where the fixture configuration installed has fewer lamps per fixture than the fixture that was replaced.

E.2 Equipment and Installation Materials

This section contains a description of the lighting loggers used for this study, and the materials needed to install them.

E.2.1 Lighting Data Loggers

Dent Instruments (DENT) and/or Onset Computer Corporation (HOBO) data loggers will be used for this study. The three data logger models that will be used are:

- DENT LIGHTING*logger (LL or LC).* This is the project default, and will be used for all HIM lighting technologies whenever possible. These loggers are installed on or in the vicinity of lighting fixtures and follow the installation guidelines set forth in Section E.4 below.
- DENT CT*logger (CT).* The CT (current tranducer) logger will be used for HIM lighting technologies in plug-in or high bay applications where fixtures are not accessible and do not have integrated occupancy sensors. When used in high bay applications the logger will be installed in the electric panel and follows installation guidelines set forth in Section E.7 below.

- Onset HOBO U12-006 (*HOBO*). This is a four channel logger that when used in combination with Onset split-core current transducers (CTV/A/B/C) records current levels flowing through a circuit at pre-defined time intervals. This logger and current transducer combination will be used for high bay applications where fixtures are controlled by integrated occupancy sensors. These loggers are also installed in electric panels and follow the installation guidelines in Section E.7 below.

Each data logger is described briefly below.

DENT LIGHTING*logger*™ (TOUL-3G)**.** This is a time-of-use (TOU) logger that monitors on/off events and is the default data logger installed on the majority of measures seen throughout the project. The data logger is shown in Figure E-1. Both the photocell sensor and adjustment screw are located on the front of the logger, as is the LCD indicator panel which shows total on-time in hours, percent of time on, and a light-on indicator. These loggers are equipped with magnets that can be used to attach to the lighting fixture.

Figure E-1: Dent Instruments Lighting Logger

DENT CT*logger*™ (TOUCT-3G)**.** This data logger is shown in Figure E-2. The CT logger is also a time-of-use type logger, but monitors the current through an electrical circuit via a clamp-on current transducer (CT). The CT logger will be used to monitor plug-in wall-mounted and table fixtures, such as those commonly found in hotels and motels, as well as be installed in electrical panels to monitor inaccessible high bay fixtures controlled by a switch or circuit breaker. As with the DENT lighting logger, the adjustment screw and LCD indicator panel are located on the front of the logger. For plug-in fixtures, a split-wire extension cord will need to be used with the CT logger. As shown in Figure E-3, one of the wires from the extension cord is

wound around the prongs of the CT logger, and the CT is zip tied to ensure that it remains clamped around the wire. Because the minimum current sensitivity of the logger (0.25 amps) was below that for a single lamp (12W CFL. 120V = 0.1 amps), typically at least three twists were required to ensure that the logger would register. Surveyors were instructed to use as many twists as needed to register fixture operation at its minimum operation state, for example, for a two lamp fixture with independent switching the minimum would be one lamp. For high bay fixtures, the CT will be installed on the lighting circuit in the electric panel as shown in Figure E-4.

Figure E-2: Dent CT Logger

Figure E-3: Dent CT Logger and Split-Wire Extension Cord

Figure E-4: Dent CT Logger on Circuit in Electric Panel

Onset HOBO U12-006 with CVT-A/B (HOBO**).** These are continuous type metering loggers rather than event loggers, and can record the magnitude of current at a pre-defined time interval when used in conjunction with the HOBO split-core current transducers (CTV-A/B). For high bay lighting that is controlled by integrated occupancy sensors and are not physically accessible, Itron will use the HOBO logger with CTV-B (50 amp) and CTV-A (20 amp) split-core CTs to log the lighting circuits. The HOBO allows for up to four split-core CTs, however, due to limited logger memory, Itron will only use two of the four channels as to extend the data logging period. This data logger setup is shown in Figure E-5.

Figure E-5: HOBO Logger and Split-core CTV-B

A summary of the data logger specifications is presented in Table E-1.

Table E-1: Data Logger Characteristics Summary

Logger Type	Sensitivity Range	Sensitivity Adjustment* – = less sensitive + = more sensitive	Event Checking Rate	Data Storage Capacity	Battery Life
Dent LL	2 to 450 lumens/m^2	CC = – , CW = +	1 sec	8000 on/off events	5 Year
Dent CT	0.25 to 16 amps	CC = – , CW = +	1 sec	8000 on/off events	5 Year
HOBO	+-4.5% of Full Scale	NA	5 min	43,000 measurements	1Year

* CW = Clockwise, CC = Counter-clockwise

E.2.2 Logger Installation Tools and Materials

Materials needed specifically for lighting logger installation include the following.

- Multiple copies of the CPUC Letter of Introduction and business cards. These should be left behind at <u>every site</u> so that if something happens with the loggers, the site contact will know who to contact.
- Extra copies of blank logger installation and verification forms.
- Assortment of loggers (based on measures to be logged).
- Large gallon-size zip-lock plastic bags (for storing retrieved loggers or broken CFL clean-up).
- Razor blade or sharp pocket knife (for slitting painted-over fixtures to allow access to lamps and ballasts).
- Plastic zip ties, variety pack various lengths (4”, 8”, 14”).
- 3M double-sided tape – 1” squares (3M-4026) and glass scraper (for removal).
- Hook and loop (i.e., Velcro™) tape.
- Stick-on, round Avery labels (color coding dots) for marking the location of installed loggers (something bright and easy to see, i.e., red, yellow, orange). Note that dots do not have to be used for smaller sites where the lamps are uncovered and loggers are clearly visible, <u>and</u> every fixture and logger location can be shown on the site sketch.
- Poster putty (removable/reusable). The best way to install a logger with putty is to put two dime to nickel sized pieces in contact with the logger and the surface.
- DENT Flexible fiber-optic attachment, various lengths.
- Split-wire extension cords for the DENT CT loggers.
- Flexible water discharge hose (used to hide and wrap installed CT loggers).

- Permanent ink fine point pen (for marking CFL lamps for retention study).
- Electrical tape and wire nuts.
- Small scissors or wire cutters (use to snip zip ties for logger extraction).
- 6 foot telescoping ladder to access lighting fixtures.
- For panel metering:
  - Insulated tool set for removal of panel covers
  - Personal Protective Equipment (PPE) following NFPA 70E standards
  - Digital multimeter with current transducer for circuit power measurements

E.3 Data Logger Initialization and Programming Procedures

Prior to their use in the field, data loggers need to be initialized and/or programmed. A summary of these procedures for DENT and HOBO loggers is provided in this section, but the *data logger user's guides should be reviewed for additional details*.

E.3.1 DENT Data Logger Initialization Procedures

The following steps, applicable to both the LL and CT loggers, should be taken when programming the DENT data loggers:

1. Be sure your computer clock is set to the correct time before beginning.
2. Make sure the software installed on your machine is Smartware 2011.
3. Communications cable needed is a Dent Smartlogger USB Com Cable.
4. After opening the software and plugging in a logger, choose the following:
   A. Logger>Logger Clock>Synchronize time to match PC.
   B. Logger>Clear Logger Memory.

E.3.2 HOBO Data Logger Initialization Procedures

The following steps should be taken when programming the HOBO data loggers:

1. Be sure your computer clock is set to the correct time before beginning.
2. Make sure the software installed on your machine is HOBOwarePro.
3. Use a micro USB cable to connect data logger to computer.
4. After opening the software and plugging in a logger choose the following:
   A. Device>Launch

5. In the pop-up click "Blink Device Light" to see if the red light on the logger blinks, then select "OK".
6. Verify the logger serial number and make sure the logger has sufficient battery life.
7. Enable channels 1 and 2 and change the sensor type to AC Current (50 or 20 Amps).
8. Disable channels 3 and 4.
9. Set the sampling interval to 5 minutes.
10. Set the starting method to "Button Start" and select "Launch" to complete the setup.

E.4 Logger Installation Guidelines

This section covers installation of the loggers, how to select the fixtures and proper logging method, and how to install and adjust the loggers while following proper safety protocol.

E.4.1 Pre-Visit Preparation

Before the site visit, the information provided on the populated onsite survey form should be *thoroughly reviewed* and the surveyor should estimate the number and type of loggers needed and installation methods to be used. The measure summary, phone survey questions, and site information sections of the survey form should all be reviewed. Issues to consider are discussed below.

- **Business Type.** Is it a large or small business? Is it likely to have high bay ceilings? Are the business hours regular/consistent, or mostly by appointment? If mostly by appointment, instead of making a cold-call (the default approach) the surveyor should call to schedule an appointment. If a school, then an appointment and possibly registration will be required if you plan on going during school hours. The DEER activity areas for this business type should also be reviewed.
- **Technology Types and Configurations.** What are the types of measures installed onsite? Are any of the measures installed in high bay applications and if so, are they accessible by lift or ladder? If there are high bay lights you may need to bring Dent CT and HOBO loggers. Are the CFLs likely to be downlights/cans? If so, then an optical cable might need to be used, so make sure that you bring a few and know how to use and install them.
- **Measure Summary Table.** This table contains a summary of the rebated measures that you will be logging and verifying, so review the Measure Summary table and make sure that you understand what the measures are. This should include understanding what the pre-retrofit baseline technology assumed by the IOUs was, since you will be trying to obtain that information as well.

- **Estimate the Number and Type of Loggers Needed and Bring Extras.** To avoid revisiting a site to install additional loggers, be prepared by bringing a variety of loggers and installation materials, and also be ready to improvise with what you have if needed. But always remember rule #1 (safety first)!

As always, if there are any questions or anticipated problems, then the surveyor should consult with one of the field survey leads for direction *before actually visiting the site*.

E.4.2 Logger Placement and Logger Type

The first step in deciding which fixtures to log is to assess the site and define schedule groups[1] for the rebated lighting fixtures. Once schedule groups have been defined, loggers should be placed in all areas that have a different time or control schedule. Several considerations factor into how and where loggers should be placed. The following guidelines will be used to determine the type, number, and location of loggers to be installed.

1. **Safety for Surveyors and Occupants Is #1!** If loggers cannot be installed safely, do not attempt to install them. It is better to lose this site and do another one than to risk injury installing and/or retrieving the loggers. This applies to the safety of the occupants as well. Never install a logger where it could injure someone if it falls especially if it is installed with putty, or alternately, make sure that a logger is secure if you are installing it above a space that is usually occupied (like a fixture above someone's desk).
2. **Defining Schedule Groups**. For this study, a schedule group can be considered as the Activity Area plus Hourly Equipment Operation Schedule plus the Control Type for the fixtures or circuits represented by the logger. When deciding on schedule groups, keep in mind that the final, composite logger data results should produce a complete picture of how the lighting measure/technology operates at that site. As such, lights that are on all the time, as well as those that are suspected to be mostly off should also be logged.
3. **Log ALL lighting HIMs found onsite, unless otherwise noted**. For this study, certain basic CFL and linear fluorescent measures do not need to be logged, and instead self-report lighting schedules will be used and adjusted using results from the 2006-08 lighting logger study. The survey forms will indicate which measures do not need to be logged.
4. **Type of Loggers**. The types of loggers installed onsite depend on the rebated technologies, how they are controlled, and if they are physically accessible. Dent lighting loggers are used in most applications and are installed on physically accessible fixtures. Dent CT loggers are used for plug-in fixtures and inaccessible high bay fixtures controlled

[1] For this study a "Schedule Group" consists of the Activity Area + Hourly Equipment Operation Schedule + Control Type that are to be represented by the logger.

by a switch or circuit breaker. HOBO loggers are used for inaccessible high bay fixtures controlled by integrated occupancy sensors as they measure current levels, capturing when each individually controlled fixture on a circuit is on or off. When logging inaccessible high bay fixtures, both the Dent CT and HOBO loggers are installed in electrical panels. This type of logging is referred to as "Panel Metering" has its own set of procedures and safety protocols contained in Section E.7 below.

5. **Minimum of # of Loggers per Site**. Never install only one logger at a site, unless the only measure at the site is a single lamp fixture. Even the smallest sites should have at least two loggers installed, one primary logger and one backup logger, if there is only a single circuit/switch at the site.
6. **Target # of Loggers per Site**. An overall average of 10 loggers per site is the target. For individual sites - such as hotels/motels or sites with multiple private offices - that means that more than 10 can be used if needed to characterize the diversity of lighting operation at the site. For Large Custom sites, the max number of loggers to install is 30. For most small commercial sites, it is expected that four to six loggers is all that will be needed, but the surveyor has the latitude to use a much larger number.
7. **Placement within Fixture: Avoid "insensitive" logger situations.** Be sure to place the logger so that the photocell eye "sees" only the lamp, and a part of the lamp that is brightest. This means checking the angle of installation as well as the position along the lamp. A symptom of incorrect placement is the logger appearing to be insensitive, that is, needing to be adjusted to maximum sensitivity to register. Situations to be avoided are:
   - **Avoid darkened tube ends.** Position the logger in the middle of the fixture and away from the tube ends, which will darken with age. This will also avoid the situation of trying to adjust a logger when the tube ends have already started to darken.
   - **Avoid highly angled mounting surfaces.** The logger should be installed such that the light sensor is aimed as directly at the light source as possible to maximize sensitivity and avoid ambient lighting effects. In practice, this means to avoid mounting the logger on an angled surface that will causes the sensor to view more of the fixture and surroundings than the lamp. The aperture of most light sensors is very small, so if it is not pointed directly at the light source the sensitivity will be need to be increased, which also makes the logger more susceptible to ambient lighting sources. If the logger has to be turned up to maximum sensitivity to register, then it is installed at too large an angle to the light source and should be re-adjusted with poster putty or moved to a different mounting surface.

8. **Back-up Loggers.** A "back-up" logger[2] is a logger placed on the same switched circuit but in a different fixture. Back-up loggers should not be placed side-by-side in the exact same physical location as the primary logger. If they are placed in the same spot due to special circumstances (like inaccessible fixtures and limited options for placing loggers on horizontal or vertical surfaces) then this situation should be fully explained in comments. Additional notes include:
   - **Back-up required for Significant Loads/Number of Measures.** Schedule groups that have larger than 10 fixtures must have a backup logger installed on the groups representing the largest kW loads. The idea is that if something happens to the primary logger that these large loads will always be represented in the final analysis.
   - **Bi-level A/B Switched Fixtures.** These are fixtures where the lamps in that fixture are on two different switches, and can be used to create two different lighting levels (hence bi-level). A logger installed on the "A" side should <u>not</u> be recorded as a back-up (secondary logger) for the "B" side. In addition, the "A" and "B" lamp loggers should be installed in *different fixtures* to avoid any lighting spillover. If this cannot be done, then the loggers should be installed so the logger eye is right on the lamp.
9. **Single room or area served by multiple switches/circuits.** At least one fixture on every switch should receive a logger. If the lighting in this area is a significant fraction of the total rebated quantity for the site, then a back-up logger should also be installed in at least one of the circuits. The surveyor should also ask if switches are typically operated separately or all together and should note this in comments, but should not rely on this information to limit the installation of loggers on all switches/circuits, except where an inordinate number of loggers (>20) would be required otherwise.
   - **Describe Location.** The room number, office tenant name, etc. should be recorded on the logger installation comments. This information will be used during logger data QC to compare/contrast the operation of switches/fixtures within the same area.
10. **Minimum # of Similar Areas to Log.** Examples include private offices, classrooms, and lodging guest rooms. If a large number of similar activity areas are found that have varying time schedules (such as individual private offices) then ~20% should receive loggers.
   - **Target # of Guest Rooms for Lodging Sites.** Surveyors should attempt to log at least five (5) guest rooms throughout the hotel/motel and representing as many different room configurations as possible. It is understood that access to guest rooms

[2] Note that for the analysis, if data from both loggers is good it will be averaged together rather than just using one logger.

may be limited by the management staff. However, *at least two guest rooms must be monitored*, otherwise a replacement site will need to be selected.

11. **Difficult Locations: Downlight/Cans, Sealed, Inaccessible Fixtures.** Loggers do not have to be placed in the fixture. If the area is relatively free from other light sources (sunlight, task lighting, etc.) and a suitable location outside the fixture can be found, then the logger can be placed and adjusted properly for this location. Specific issues/examples are described below:
    - **CFL Cans/Downlights.** The easiest way to attach loggers to CFL cans/downlights is to use several plastic cable zip ties and tie them directly to the base of the lamp itself. If loggers cannot be placed inside of the cans, poster putty, double-sided tape, Velcro™ (hook and loop) tape, or plastic cable zip ties can be used to attach them outside the fixture. Unfortunately, CFL cans are usually aluminum, but sometimes poster putty or double-sided tape will work. Try stepping back and looking at the area/room as a whole and look for a spot with minimal ambient light pollution. Work through the possibilities to choose the best situation for logging. Sometimes there are other flat surfaces where a logger can be placed, or even metal nearby (such as HVAC diffuser plates) so the loggers magnets can be used. For cans that have slits in the top and are installed in a false ceiling, consider placing the logger in the ceiling on top of the can and over the slit. A proxy fixture – as described below – might also be used. If no other options are available, the DENT Flexible fiber-optic attachment may be used. Each circumstance is unique and might require a bit of thought and creativity, but you can usually find some way to install the logger properly.
    - **High-Bay fixtures.** If panel metering cannot be conducted the Dent lighting loggers can be placed on a horizontal surface (book case, shelf, etc.) away from windows and other ambient light sources and adjusted accordingly. Lots of testing is needed to confirm the logger is only capturing rebated lighting lumens and no other light sources.
    - **Using a Proxy Fixture/Circuit.** Generally, only <u>rebated</u> fixtures and lamps should be logged. However, if rebated fixtures or lamps are inaccessible but a suitable non-rebated fixture "proxy" is available, then loggers can be installed on that fixture/circuit. However, this approach should only be used as a last resort, and must be *thoroughly explained in comments, photographs, and diagrams if needed*.
12. **Place Loggers where they will not be disturbed**. An attempt should always be made to place loggers where they are not easily noticed or accessed by occupants. This prevents moving, removal, or resetting by site personnel once the logger has been placed.
    - **Consider covering the reset button.** If the loggers are visible and can be easily accessed by a customer or guest, consider covering the reset button with a piece of tape of round sticker to remove the temptation of pressing the reset button.

13. **Do not install loggers in excessively hot environments.** The data loggers are only rated for 140 F, and some downlights and covered fixtures may get hot. DENT equates this to a distance of eight inches from a 100 watt incandescent bulb in free-moving air. In this situation, install the logger outside of the fixture and use a DENT with the fiber optic extension.
14. **Do not install loggers where there is a high probability of theft.** For sites such as a rundown motel with highly transient guests, or a restaurant where the installed logger would be accessible to the customers, if the loggers cannot be installed out of site and/or you think they will likely be stolen no matter where they are installed, then do not install loggers. Just be sure to document your reason for not installing loggers in site comments. Enough loggers are lost at reputable sites (sometimes as high as 20% at lodging sites), so that it is better to not install loggers where theft is highly expected. Whenever possible, you should call one of the field-survey leads to confirm this approach.
15. **Two Different Rebated Measures on the Same Switch**. The survey form is set up so a logger can be used to represent more than one measure. A reference box is included next to the logger field on the measures' Activity Area Assignment Table (AAAT) and can be checked any time a logger ID is repeated on another measure's AAAT.

Please note that *whenever there is any doubt about the correct approach to be used for a site*, Itron staff should be *immediately* consulted for guidance.

E.4.3 Dent Logger Adjustment and Installation Procedures (Non-Panel)

There are general as well as specific adjustment procedures required for the Dent loggers and they are addressed in this section.

DENT LL Logger Adjustment and Installation Procedures

Once the fixture locations have been decided, the following procedures should be used to properly set the logger to accurately measure lighting operation:

1. Press and hold the reset button (approximately two seconds) on the front of the logger until the word "rESEt" appears on the display, then immediately release the button.

NOTE: Be sure to release the reset button as soon as "rESEt" appears. Holding the reset button for more than that - approximately five seconds - will cause "CLEAR" to appear on the LCD. This function resets the internal date to **01/01/2001** and the time to **12:00 am**. If this happens while on site, you **should *not* use this logger** and you will need to resynchronize the logger's date and time before it can be used.

2. The logger should be placed at or as close as possible to the location chosen.
3. **Adjust the Sensitivity.** The sensitivity adjustment screw should be all the way toward the negative (left). Slowly adjust the sensitivity screw toward the positive (right) until the sunlight - symbol appears on the display. Note that there will be a couple second delay before the symbol appears on the display, so turn the sensitivity screw slowly and gradually to allow for this delay. When the symbol first appears, this means that the logger is now sensing the light from the measured fixture. **Once this threshold has been reached, the sensitivity screw needs to be adjusted another ~10 degrees clockwise.** NOTE: Be careful not to allow yourself to create a shadow between the measured light source and the sensor on the logger while doing this.
4. Once the sensitivity has been adjusted, place the logger in the location chosen and verify that the remains on in the display.
5. **Testing.** Now turn OFF the fixture/s being measured and verify that the symbol has disappeared from the display. This means the logger is no longer sensing light and will accurately measure the lighting source ON/OFF operation. If the light cannot be turned off, an easy way to test it is to face the photocell downward away from the light. Facing downward exposes the photocell to the amount of light it will see when the fixture is off.
6. Test one time further by turning ON the fixture/s and verifying that the lighting symbol appears again. If these are fixtures that are observed and/or reported to be always off, then see Section E.5.1 .

Final Actions

7. Place a colored Avery™ dot near the logger to aid in locating the logger for removal.
8. Record the date of install and a detailed location for the logger on the survey form and site sketch.
9. Complete the verification survey form.

DENT CT Logger Adjustment and Installation Procedures

See "Hotel/Motel (and Other Lodging) Guest Rooms" in Section E.5.2 below.

E.5 Special Logger Installation Situations

There are some situations that require additional efforts, including the following.

- Fixtures/lamps that are always off.
- Hotel/motel guest rooms (and other lodging).
- High-ceiling and high-bay T5/T8 lighting.
- Using the fiber-optic cable for recessed cans.

E.5.1 Fixtures/Lamps That Are Always or Mostly Off

For some small businesses, the lights in some areas may be off more often than they are on. This can occur in areas that are rarely used, or in areas that receive adequate ambient lighting from windows, skylights, or adjacent areas. Since the logger data for these areas would look more like a logger that malfunctioned, special steps are taken during installation to ensure that we can tell that this is valid data:

- **Describe this unusual situation in comments!** Because there is essentially no energy being used and hence no savings being produced by these fixtures, this situation should be thoroughly described in comments and a unique schedule defined. The comment must include the *reason* the lights are typically turned off (e.g., ambient light from windows/skylights is enough, staff work mostly in another room that does not have rebated measures, etc.). An estimate of the on time (hours per day, week, or month, whatever the site contact tells you) should be incorporated into the schedule and recorded in comments.
- **Test Period to validate logger operation.** Once installed, the logger should be run through a "test period" of operation; the light must be turned on and left on for at least one minute or more. If possible, you should leave the light on the whole time that you are installing loggers in other areas, which will give an even better test period/confirmation. *This process will be repeated when the logger is extracted* if the lights are off at the time of the site visit. The idea is that, even if these lights are never turned on during the monitoring period, the test period data – which can be reviewed as part of the logger data QC process - will confirm that the logger was correctly installed and operational.

As always, if there are multiple switches/circuits in a room, both need to be monitored and both should be tested.

E.5.2 Hotel/Motel (and Other Lodging) Guest Rooms

The problems that a surveyor faces with installation of loggers at a lodging site are numerous and include:

- Getting access to the guest rooms, which is typically where rebated CFLs are installed.
- Guest room CFL fixtures are typically plug-in wall, desk, and floor lamps for which CT loggers are better suited (rather than LL loggers).
- Sub-sampling to estimate for large numbers of rebated fixtures/lamps.
- Tracking burnt out CFLs or # rebated units that failed and replaced with in-kind technology. Since records are not kept by the maintenance staff it is usually impossible to estimate a schedule for these lights.
- Theft of the CT loggers, which requires additional efforts to hide and secure them.

NOTE: Do not install loggers at a site – especially a smaller one – if you think there is a high probability that all or most of the loggers will be stolen. Just be sure to document your reason for not installing loggers in the "lost" site disposition. Enough loggers are lost at reputable sites (typically about 20%), so that it is better to not install loggers where theft is highly expected.

This procedure attempts to address these conditions. The following approach should be followed while performing the verifications and logger installation at lodging facilities:

- **Schedule the site visit.** Unlike most small commercial sites which can be visited without scheduling, for a larger hotel it is better to schedule an appointment with the site contact. Furthermore, if the CFLs are installed in the guest rooms, then you should ask them to make available five rooms and, if possible, a variety of rooms. These would include different physical configurations, and those on different floors that are occupied frequently and not as much. You can also try to schedule your visit between typical check-in/check-out times. In case of a smaller motel site, scheduling may not be necessary, though it is always a good idea to ensure some guest rooms are accessible.
- **Use the LL Loggers whenever possible, be creative!** The LL loggers should be used wherever possible, as they are less expensive and can be used in more applications than the CT loggers. Two examples showing creative use of tie-wraps are shown in Figure E-6 and Figure E-7 below. However, if needed, a CT logger can be utilized for plug-in fixtures.

Figure E-6: LL Logger Installation in a Downlight w/ Zip ties

Figure E-7: LL Logger Installation in a Table Lamp w/ Zip Ties

- **Obtain a site plan and attach to the survey form.** Most lodging sites will have a map of the site that shows the site layout including all buildings and common areas (office/lobby, pool, gym, etc.). A copy of the site plan should be obtained and used to indicate which buildings were physically visited and what rooms the loggers were installed in.

- **Add building identifiers if needed.** If not already identified, label each building on the site plan with a letter or number (Bldg A, Bldg 1, etc.), which can be referenced on the sketches, comments, and lighting logger installation forms.
- **Sketch the typical room layout.** Provide a sketch of a typical room configuration showing placement of the lighting fixtures, or do a quick sketch of each room configuration that is logged, if there are significant differences. Show the bathroom as a separate area, if lighting measures are installed there.

- **Logging Common Areas.** The common areas in a hotel/motel (lobby, hallways, breakfast area, offices, etc.) can typically be logged with the default DENT LL loggers. However, if needed, a CT logger can be utilized for plug-in fixtures.
- **Logging Guest Rooms.** Most of the rebated CFLs for a lodging site will be located in the guest rooms. Up to five guest rooms located on different floors and of different physical configurations should be logged. However, access to the guest rooms is often limited by the site contact. If loggers cannot be installed in at least two guest rooms, then the site should not be logged and it should be recorded as a "lost" site.
- **Approach to Logger Installation in Guest Rooms.** Most of the CFLs in guest rooms will be installed in plug-in wall and table lamps. For these lamps, a CT logger is usually the best choice. However, as the CT loggers and associated split-wire extension cords are much more visible than the DENT LL loggers, it is important to take a few precautions during installation to avoid theft or disturbance of these units. Guidelines for installing loggers in guest rooms are as follows:
  - **Install loggers on all measures.** Install logger on <u>all</u> of the rebated measures in the guest room. Use the CT loggers for plug-in fixtures and LL loggers for hardwired fixtures and/or wherever they can be used.
  - **Use as many loggers as needed.** The average loggers assigned per site is 10, but it is OK – and in fact expected for lodging sites – that more than 10 loggers will be used. But do <u>not</u> install loggers in more than 5 guest rooms.
  - **Hide the CT loggers.** The CT loggers should be installed in such a way that they are out of sight, tucked away behind a desk, bed, table, or a television set.
  - **Anchor/Secure the CT loggers.** The CT loggers should be anchored with a zip tie to furniture or other fixed object whenever possible, as shown in Figure E-8. Again, this will help to eliminate theft of the loggers.
  - **Inform maintenance staff.** The surveyor should ask the site contact to inform the maintenance staff (head of housekeeping) about the loggers, so that they know not to disturb or unplug the logger. The surveyor should also leave his business card with the site contact so that they can call us in case the loggers are unplugged or end up in lost and found.

- **Guest room bathroom fixtures.** The guest room bathrooms will usually have T8s or CFLs which can be logged with the LL loggers. Extra care must be taken to keep the logger out of sight so that the management does not get complaints from the guests. Create a separate Activity Area for the guest bathrooms.

Figure E-8: CT Logger Zip tied to a Bed Frame

CT Logger Installation Procedure. The CT logger detects current flowing or not flowing through the wire and records this as ON/OFF transition data. A brief description of how a CT logger should be installed to monitor a plug-in fixture is given below.

1) Put a split-wire extension cord between the wall outlet and the plug-in fixture containing the rebated measures.
2) **Adjust and test the sensitivity.** Turn the CT logger sensitivity switch all the way clockwise so it is at its highest level of sensitivity. This will ensure that the logger can detect low watt CFLs. For fixtures that have only one low-watt CFL bulb, wrap the wire around the CT clamp at least three times (as shown in Figure 7) to get the logger to register[3]. *Turn the lamp on and make sure the indicator icon is shown on the panel.* If it is not, keep wrapping until it registers as on. Also, if there are multiple lamps in the fixture that can be operated independently, *test the logger* to make sure that it registers with only one lamp on.
3) **Tie-wrap the CT jaws closed.** Once the logger is registering correctly, zip tie the CT closed as shown Figure E-9, make the assembly as unobtrusive as possible, and anchor the whole assembly as previously described, to avoid theft or accidental removal.

[3] Minimum sensitivity is 0.25 amps, which corresponds to about 27W @ 110V.

4) **Wrap in flexible discharge hose.** The CT logger, split-extension cord, and lighting fixture cord should be enclosed in a sleeve of flexible discharge hose. This will clean up the installation and make it less likely that the logger will be removed by cleaning staff. A photo of discharge hose is shown in Figure E-10.

Figure E-9: CT Logger and Split-Wire Extension Cord

Figure E-10: Flat Water Discharge Hose

E.5.3 Inaccessible High-Ceiling and High Bay Fixtures

The DENT LL loggers should be used to log these fixtures whenever possible or whenever it makes the most sense by using whatever local equipment is made available to the surveyor (i.e., ladders or lifts) to reach the fixtures. However, in some cases, high-ceiling and high bay fixtures will be inaccessible. If panel metering cannot be conducted and if a good proxy for the inaccessible fixtures is available (i.e., a system that operates the same as the high bay system), then that approach can be used as long as it is noted as a proxy in comments. You should always ask if a lift or other method is available for accessing the fixtures. However, as always, consider

your safety; do not do anything that you feel is unsafe, such as standing on a pallet lifted by a forklift, or carrying a 30 ft. ladder through an active production line.

E.5.4 DENT Fiber Optic Attachment for Recessed Cans

A fiber optic attachment, shown in Figure E-11, is available for use with the DENT LL loggers. Minimum length is 1 foot, and longer lengths are available. The fiber optic attachment can be used for situations where the lighting loggers cannot be placed inside of the lighting fixture for physical reasons, or because the logger could overheat (for instance inside a CFL downlight). For example, for a site with recessed cans and a suspended ceiling, the logger can be placed behind one of the ceiling panels and the fiber optic attachment snaked through an opening in the can or the panel. Another use for the fiber optic attachment would be to "aim" the photocell at a high bay fixture and screen out ambient light.

One note of caution: The fiber optic attachment should not be bent at right angles to avoid cracking the housing! Bends should be gradual and curving, as shown in the figure.

Figure E-11: DENT LL Logger with Fiber Optic Attachment

E.6 Logger Extraction Procedures

Loggers are schedule to remain in the field for 2 to 6 months with a maximum of one year. Ideally the surveyor who did the original installation will also do the extraction. The type of lighting systems and loggers installed must be reviewed before visiting the site. Take a camera along to photograph problems found when the loggers are extracted or photos missed upon installation. Use a **colored pen (blue or red)** to record any extraction notes and comments so that they stand out from the text on the copied survey forms that are used for extraction and do not use a pencil! Wire cutters will be needed in loggers are installed with plastic zip ties. For magnets that separate from the loggers, a pair of pliers may be needed to remove magnets from the lighting fixtures.

The process should be as follows:

1. **Obtain a copy of the survey form.** *Prior to the site visit*, obtain a copy of the complete survey form and write "*Extraction*" across the top of the form. The copy can be made from the surveyor's original hardcopy or the scanned copy of the survey form that is saved on the network drive. It's typically easiest to print out the entire form. Do not use the original survey form for the extraction work! Additional instructions are:
   - On the cover sheet: Check the installation date and make sure the loggers have been in at least 2 months. Also note the surveyor's initials and have their cell phone number handy in case you need to call them while on site.
   - Review the cover sheet, comments, logger installation sheet, and site tracking spreadsheet for notes regarding extraction (logger #'s that were missed, ballast numbers missed, retention marking needed, etc.) and especially note any additional information that needs to be obtained when re-visited.
   - Make sure the Lighting Logger Installation form is present and filled out. Note the quantity and of each type of logger installed and use this as a check when you leave the site. For some site, this page may also contain notes on actions that need to be taken when the loggers are extracted. For example, sometimes the logger numbers were not recorded correctly.
   - Review the lighting measure sheets for the type of fixtures the loggers were installed on. Review the sketch to see where the loggers were placed. Check the ceiling height recorded on the lighting measure sheets to determine if a lift or high ladder
2. **Prep a logger storage bag.** Prepare a zip-lock or paper bag for storage of the loggers after retrieval. Write the SiteID, date, and surveyor's initials on both sides of a card or piece of paper and place in the bag (paper bag can also write on the outside of the bag). Please use the full SiteID, that is, use PGE_663621371 not just 663621371.

3. **Site visit: Record extraction date and initials.** Record the date of the site visit and surveyor's initials in the "**Extraction Date"** and "**Extraction Initials**" field. Hard scheduling the logger pick-up for a specific day is highly recommended.
   - ***Multiple Extractions/Alternate Extraction Dates.*** Multiple extractions are often required *for lodging sites when some guest rooms cannot be accessed*. In these situations, the "alternate extraction date" for these loggers should be recorded at the bottom of the column for that logger (see revised/latest logger installation form).
4. **Observe the logger <u>before</u> removing it; Is it still in position and functional?** Observe the logger and make sure it is still *functioning correctly*. If the lights are off, turn them on briefly to see if the "lights on" indicator responds (sun symbol). If the lights are on when you arrive, make sure the appropriate indicator is shown, then turn the lights off to make sure the off indicator responds accordingly.
   - ***Low-Use Test for loggers where lights are off and show <=5% On time.*** If the lights in a logged fixture are off when you arrive and the LED display indicates a percent on time of 5% or less, then a test is needed to show that the logger is working and was adjusted correctly. Before removing these loggers from the fixture, turn the lights on and leave them on for at least a minute, or if possible, turn on the lights and leave them on, and extract these loggers last. This will provide a small test period that can be reviewed during the logger QC process. Extraction comment for the test should be something like "Light off, test done, logger OK" or "light on, logger OK, no test needed".
   - ***Photograph any unique situations.*** If the loggers are damaged or found in a unique condition that should be avoided in future installations, take a photo so that it can be shared with other field staff and/or included in the field procedures. Figure E-12 is an example of a logger installed in a closed fixture and overheated or melted, or hanging by a single magnet, or fallen down within a closed fixture. Turn in those photos with the loggers.

Figure E-12: Melted Lighting Logger

5. **"Logger intact?" and "Extraction Comments".** If loggers have been moved or fallen or have obviously been tampered with, then circle "N" in the "**Logger Intact?**" field of the survey form, and describe the situation in the "**Extraction Comments**" block. If the logger appears to be functioning correctly and is as originally placed, then circle "Y" for "**Logger Intact**". Loggers that cannot be found are recorded as "L" for Lost.

Example extraction comment for an intact, low % on-time logger: Could be something like *"4.5% On Lights Off, Test Done, Logger OK"* which translates to the lights were off when the space was entered, the lights were flipped on and left on to perform the low-use test, and the logger sensitivity was checked to make sure that the sun symbol showed when the light was turned on and disappeared when the light was turned off (or the sensor was covered by your finger).

Other instructions and issues for this section of the survey form include:

- ***Light is Off.*** If the light is off when you enter the space where the logger is installed, then you should note that in the extraction comments (or in general comments and reference the logger ID).
- ***Logger Sensitivity Check.*** Again, this should be done before you remove the logger from the fixture, and it is especially important for loggers with low % on-times, and this applies for both LL and CT loggers. If the lights are on, then the sun symbol should be displayed and it should disappear when the lights are turned off or the sensor is covered. This would get a "logger OK" comment in the extraction comments field. If the lights are off, then turn the lights on and see if the sun symbol is displayed. If the sun symbol is not displayed, then either the logger sensitivity was not set correctly, or there is some other issue with the logger. Check the current sensitivity adjustment (and the logger can probably be removed from the lighting fixture for this test. Is it turned all the way to the minimum setting or is the sensitivity adjustment stripped out (turns and doesn't hit a stop)? If the logger is turned to the minimum setting, note this in the extraction comments because the data cannot be used (there will probably not be any data to use). If the logger was instead turned up to maximum sensitivity and pointed to a light source and still not registering, then it should be noted as a "BAD logger/insensitive" in extractions comments, and explained in general comments as well.
- ***Record the % On Time on the display.*** In the extraction comments block, record the percent on time displayed on the logger. If 0 % on time is displayed, perform the test described previously for lights that are off. If 0% is displayed and the lights are on, note this discrepancy in the extraction comments as well (the logger sensitivity was probably not correctly set).

- ***Lost/Missing and Pending loggers need an explanation!*** In some cases it may not be possible to locate all of the loggers, especially in lodging guest rooms where they can easily be removed by hotel guests or cleaning staff. Sometimes loggers can fall out of open fixtures where they are picked up by staff. In any case, you should ask the site contact about any loggers that appear to be missing before recording them as lost. If the problem is that they cannot be located then call the field surveyor who did the installation to see if he can provide additional information. If they cannot be located, then *please record a note in the General Comments form to explain what you did to try to locate the lost loggers*.
- ***Flickering or burnt-out lamps.*** If the linear fluorescent lamp being monitored by the logger is flickering or burnt-out, then that should be noted in the extraction comments.

6. **Remove loggers.** Remove each logger and adjust the sensitivity to its least sensitive setting (all the way to the "-" sign), as confirmed by the sun indicator. Place in the marked zip-lock bag so that loggers don't get separated. *This is especially important if you are picking up loggers from multiple sites in a single day*. The loggers should always be bagged and not just left loose. **Do <u>NOT</u> push the reset button!** This will erase all of the recorded data. Use pliers to remove any magnets that separate from the logger and remain attached to the lighting fixture.
7. **Before leaving the site, check quantities (="**No loggers left behind"). Do a quick quantity by type count and make sure that you have all of the loggers that were installed. These totals by logger type will be needed for the daily site status report that is emailed to Itron. Lost loggers should also be noted in the daily status report.
8. **Tag updated sections of the survey form.** Use post-its and highlighters to indicate the portions of the survey form that have been updated. Updates will typically be limited to the logger installation form, the general comments page, the spot watt measurement form, and possibly the photo page, but may affect other pages as well.
9. **Return loggers and survey forms to Itron.** Extracted loggers and updated survey forms will be returned to Itron for downloading.
10. **Download the logger data.** Logger downloads will be conducted by trained admin staff, not the onsite surveyors. The admin staff will download and briefly review the .log and .csv files and save in the site's subdirectory on the network using the correct file naming convention Section E.6.1 . Record the "logger time" and "computer time" in the logger extraction comment block or in the respective data fields (two versions of the form). Review the other comments written in the extraction notes that might explain issues observed with the logger data. Update the tracking sheet (or send a status report) to show that the loggers were extracted and how many were extracted.

- ***Check Extraction Date.*** An extraction date is critical! If the extraction date is blank then follow up with the field person who removed the loggers immediately to obtain a date.
- ***Extraction on multiple dates.*** If for any reason the loggers at a site are extracted on different dates, then the earliest date should be recorded on the logger installation form as the extraction date, and the later extraction date should be recorded in the Alternate Extraction Date under that logger, as well as noting in General Comments why multiple extractions were required.
- ***Record Logger vs. Clock time and note differences.*** If the logger time and clock time are more than 15 minutes different, the logger should be tagged as "BAD". To check the logger time follow the following steps:
  - Open SMARTware 2011 and plug logger into computer
  - Choose Logger > Display Logger Status

  This will open up a dialog box showing the current time of the logger.
  - **Daylight Savings Time (DST).** DST will be very evident; there will be a roughly 1 hour difference (maybe a few minutes off) between the logger time and computer time, and the installation/extraction period will span a DST event.
  - **False DST.** This situation occurs when the surveyor installed loggers after the March DST event that were not resynchronized after DST. When this happened, it was usually only one or two loggers at a site, so it is very easy to detect in that the majority of the other loggers are OK (logger time = computer time) and the installation date is after - and typically close to the DST event.
  - **Time-Drift Issue.** Some of these loggers will be very noticeably shifted, and not by an hour. This problem is illustrated in the SMARTware graph below.

Figure E-13: Illustration of Logger Time-Drift Issue

Figure E-14: Logger Time vs. Computer Time

- ***Year Set to 2001.*** The date should also be checked. If the Logger Date year is 2001 then write "2001" in the Extraction Comments block. The logger is likely OK, but was not either not synchronized before installation ((Last Reset year is 2001 but month/date other than 1/1) or was cleared at installation (Last Reset = 1/1/2001).
  - **Logger was "Clear"ed instead of reset on site**. The "Logger Reset" date will be 1/1/2001 and the "Data Ends" date will also be 2001. To be used for the analysis, this data will have to be re-sequenced/time-corrected.
  - **Logger was synchronized but not reset upon installation**. The "Logger Reset" date will be different than the installation date (typically will be 1/1/2001 or another 2001 date), but the "Data Ends" date/year will be consistent with the installation/extraction period (2012, 2013, or 2014).
- ***Loggers with no data, 0%.*** A logger that shows 0% run-time is not necessarily a BAD logger, since there are many sites where the lighting systems in some areas are not used. To test the logger, turn it all the way back to maximum sensitivity and hold it near a lighting fixture. If the indicator does not light within 2 to 3 feet of a lighting fixture, then it should be marked as BAD.
- ***Loggers that lost their magnets and fell-off.*** Re-attach and make sure <u>both</u> magnets are secure and check for other data anomalies. If it seems OK, then it can be returned to inventory.
- ***Loggers exposed to too much heat.*** Loggers that on extraction are found to have been overheated (melted or permanent black LED screen) or reset to 2001should be marked as BAD and placed in the BAD LOGGERS box. If the LED screen is black

but slowly returns to normal (in a couple of hours) the logger is still good and reusable.

11. **Scan the survey form.** Admin staff will scan the completed Lighting Logger Installation form and save the PDF on the network drive and place the hardcopy in the file folder.
12. **Logger Check-In (return to inventory for re-use or BAD).** Once the data has been successfully downloaded and QCed, the loggers can be checked in and returned to inventory or reset and readied for installation at another site.
    - ***Good Loggers.*** These should be returned to inventory and checked into the tracking spreadsheet. In the tracking spreadsheet, record the date that the logger is checked back in and under the "Person Assigned" column change from surveyors initials to "OFFICE".
    - ***BAD Loggers.*** A logger will be labeled "Bad" for several reasons. It may have a time-drift issue, may have crushed/melted, or had battery failure. These are also checked into the spreadsheet, but labeled "BAD" with a description of why. The loggers that have a time-drift issue will be returned to DENT. The battery failures will be set aside to have the battery replaced, and the rest will be placed in the "bad logger" box.

E.6.1 Logger Data File Naming Conventions

The Itron viewLoggers tool will be used to review and disposition all logger data. This tool reads the logger data from the *.csv files, so the naming and format must be consistent. Naming conventions for the logger data files are as follows:

- Files must be saved in a subdirectory named for the SiteID.
- Save both the proprietary raw logger data file (*.log,), and the processed transition data file as a *.csv file.
- Both the proprietary and the processed transition data files should have the LoggerID - logger type (LL, LC, or CT) and the serial # - encoded into file name at the beginning of the file[4]. The format must be: <Serial Number>_<SiteID>.log <Serial Number>_<SiteID>.csv. An example is given below:
    - SiteID: PGE_2584148005
    - LoggerID/Serial Number: LL0807007901
    - Final raw data file name => LL0807007901_ PGE_2584148005.log
    - Final transition data file name => LL0807007901_ PGE_2584148005.csv

[4] Additional characters may be added to the file name if needed by the surveyor, but the LoggerID must always appear first in the file name.

In creating the name, field staff should assure the following rules:

- LL, CT, and LC are capital letters
- There are no spaces in the file name
- There are no extraneous suffixes (e.g., _1, _2, …)

- In addition, the LoggerID number must be present in the *first line* of the *.csv file itself, as shown in the examples below.

Figure E-15: DENT LL logger[5] => LL0805097701_PGE2584148005.csv

```
Serial Number: LL08050977,,,
Description: DENT SMART LOGGER,,,
Connected Load: -1.00 KW,,,
Logger Reset: 08/26/08 12:02:02,,,
On-Time Since Reset: 145.6 hrs,,,
8/26/2008,12:02:02 PM,Was ON,1
8/26/2008,12:02:03 PM,Turned OFF,0
8/26/2008,12:02:05 PM,Turned ON,1
8/26/2008,12:05:42 PM,Turned OFF,0
8/27/2008,6:25:41 AM,Turned ON,1
```

Figure E-16: DENT CT logger => CT0708001401_PGE2584148005.csv

```
Serial Number: CT07080014,,,
Description: 659980_Unit5,,,
Connected Load: -1.00 KW,,,
Logger Reset: 09/09/08 14:14:01,,,
On-Time Since Reset: 378.0 hrs,,,
9/9/2008,2:14:01 PM,Was ON,1
9/9/2008,2:15:16 PM,Turned OFF,0
9/12/2008,3:39:27 PM,Turned ON,1
9/13/2008,12:11:26 AM,Turned OFF,0
9/13/2008,6:03:11 PM,Turned ON,1
```

- NOTE: The viewLoggers tool does not use the file names, but instead relies on the text in the first line of the csv file to determine what type of logger it is, and then reads the LoggerID accordingly from the file. Examples:
  - For DENT LL and CT TOU Loggers: If first line starts with *Serial Number*…. then it is a DENT LL or CT logger. The first two characters denote the logger type (LL or CT) and the next eight numbers are a unique number. This serial number is <u>hard-wired</u> into the logger, and the default *.log file saved by SmartWare is named as S/N01.log (as shown in the examples above).

[5] The file name for DENT CT and LL loggers is actually the logger type (CT or LL), the serial number, and then an "01" is tacked on to the end when the data is downloaded from the SmartWare software.

E.7 Panel Metering Guidelines

E.7.1 Objective

To safely, accurately, and efficiently monitor and measure lighting usage within electrical panels for commercial high bay applications.

E.7.2 Overview

High bay lighting (considered as more than 12 feet in height for this document) presents its own challenges for monitoring lighting usage. For these applications, monitoring within the electrical panel, compared to the fixture level, provides a solution to these challenges and can be faster, safer, and allow for more accurate data acquisition. Panel metering addresses the following challenges associated with evaluating high bay lighting:

1. Fixtures may not be physically accessible for the installation of DENT time of use (TOU) loggers within the fixture due to their increased fixture height. In this case, the only option for monitoring lighting usage is in the electrical panel
2. If fixtures are accessible, extra time is needed onsite for the use of ladders and lifts to access the fixtures, also increasing the risk for injury
3. Time onsite is further increased when fixtures are controlled with integrated occupancy sensors, as each logger installed in a fixture only represents that one fixture

The onsite surveyor will determine the best logging approach for each high bay site, taking into account safety, fixture accessibility, time, and accuracy of data.

The remainder of this document focuses on the equipment, procedures, and forms used to assess and perform panel metering in high bay applications.

E.7.3 Equipment

Three categories of equipment are needed for the metering of commercial electric panels: Safety, Measurement, and Metering equipment. Each of these is described in detail below:

Safety Equipment

Safety is the number one priority onsite and to safely meter in commercial electrical panels you must have the appropriate safety equipment. Itron currently follows the 2009 NFPA 70E standards for safety and each onsite surveyor conducing panel metering has attended and

completed training on the 2009 NFPA 70E standards. Each surveyor has also gone through onsite training and has been deemed a qualified person by senior engineering staff.

Below is an itemized list of the safety equipment required for these metering efforts:

NOTE: Fire Resistant (FR), Hazard Category (HC), and equipment ratings vary with application and the 2009 NFPA 70E standards should be used to determine equipment needs and safety ratings.

1. Insulated mat
2. Insulated shoes
3. Fire resistant pants
4. Fire resistant jacket
5. Protective glasses
6. Balaclava (sock hood)
7. Ear plugs
8. Face shield
9. Insulated gloves
10. Insulated hand tools

Measurement Equipment

1. Digital multimeter with current transducer to measure watts, power factor, voltage, and amperage

Figure E-17: Digital Multimeter with Current Transducer

Metering Equipment

Itron uses DentCT and HOBO data loggers (discussed in Section E.2.1 above) as the two metering options for electric panel metering. Each option is specific to different lighting configurations seen onsite. These configurations and their associated metering methods are discussed later below.

E.7.4 Procedures

Perform Pre-visit Calling Site Assessment

While the CATI center will make the initial contact with customers, it is the responsibility of the field technician to arrange the site visit and gather all pre-site visit information before going onsite. The questions in Figure E-18 are to be asked when scheduling a site visit to pre-assess the rebated technologies, options for logging and any site requirements the host may have.

Figure E-18: Panel Pre-Visit Site Contact Questions

	Pre-visit Site Contact Questions
1	**What is the approximate height of the rebated lighting (ft)?**
2	**In what areas are the rebated high bay fixtures or lights installed *(describe all that apply)***
3	**Are there any skylights in these areas *(circle one)*?** Yes No
4	**Are the high bay fixtures accessible and if so, how*?*** Yes No ☐ Ladders ☐ Lifts ☐ Other
5	**How are the rebated high bay fixtures/lights controlled *(select all that apply)*?** ☐ Manual Switch ☐ Breaker ☐ Int. Occ. Sensor ☐ Occ. Sensor ☐ Photocell ☐ EMS ☐ Always on 24/7
6	**Are there any protocols we need to follow onsite as we may be accessing and installing loggers within the fixtures or electrical panels? *(circle one)?*** Yes No **If Yes, describe all that apply?**
7	**Will we be able to turn high bay lights ON and OFF to verify the connected circuits *(circle one)?*** Yes

Using the answers to the pre-site visit questions the surveyor will visit the site aware of accessibility, onsite requirements, and logging strategies. The technician will also estimate the type of loggers (DENT CT and/or HOBO), number of loggers, and number of HOBO CTs needed to capture the rebated lighting usage.

Complete Onsite Verification of Measures

The first order of action onsite is to complete the onsite verification of all measures and forms. **NOTE:** If rebated low bay measures also exist onsite, perform the necessary installation of

DENT loggers for the low bay fixtures before attempting high bay panel logging. Only after the site verification is complete (site sketch, activity areas, schedules, etc.) shall the surveyor move to the logging of rebated high bay fixtures.

Locate High Bay Lighting and Investigate the Best Logging Method

The following high bay logging screening questions in Figure E-19 should be asked onsite to investigate the best method for monitoring the high bay lighting. As a default, first screen for monitoring within the electrical panel and if this option is not available, screen for monitoring at the fixture with DENT TOU loggers. If HOBO, DENT CT and DENT LL logging are not feasible, the high bay lighting will only be verified and no metering will be performed.

Figure E-19: Screening for Panel Monitoring

Screening for Panel Monitoring:		
1. Are the electrical panels accessible, and will the customer allow you to get into them? *(circle one)*		Yes No
2. Are the electrical panels clean and safe to work with? *(circle one)*		Yes No
If Q1 or Q2 = NO:	You cannot conduct any metering at the panel. Do not move on to Q3.	
3. Is either true: A) the lighting is 277V; or B) you can trace all wiring from the Point-of-Control to the breaker Circuit? *(circle one)*		Yes No
4. Will the customer allow you to switch lights ON and OFF throughout the business for several minutes at a time? *(circle one)*		Yes No
5. Through the combination of amp measurements AND site contact confidence, can you identify and relate the number of rebated fixtures associated with each lighting circuit? *(circle one)*		Yes No
If Q3, Q4, or Q5 = YES:	You may conduct metering at the panel.	

Screening for Fixture Monitoring:		
1. Are the high bay lamps accessible by ladder or lift? *(circle one)*		Yes No
If Q1 = NO:	You cannot conduct any metering at the fixture. Do not move on to Q2.	
2. Will the customer allow you to switch lights on and off throughout the business for several minutes at a time? *(circle one)*		Yes No
If Q2 = YES:	You may conduct metering at the fixture, depending on the level of confidence in the accuracy of assumptions.	

Identify and Test Each Lighting Circuit and Confirm Number of Fixtures per Circuit

The overall intent of testing the lighting ON and OFF is to determine the number of fixtures controlled by each circuit. As we are installing loggers on a circuit, we need to know the number of fixtures that circuit controls and this information will be recorded on the general site sketch with clear distinctions of which fixtures are associated with each breaker. Each high bay lighting circuit must be tested ON and OFF at the circuit breaker, not at the walls switches, as there may

be a discontinuity between the fixtures controlled by the circuit breaker and those controlled by the associated wall switch. Logging should only be performed on a circuit that can be turned ON and OFF at the breaker/contactor level.

Determine the Circuit Configuration Codes (CCC) and Logging Method

After testing each lighting circuit and confirming the number of fixtures controlled by each circuit, we need to qualify and record the configuration type of the circuits, as different configurations require different logging approaches. The areas in which the rebated lights exist along with the numerous ways they can be controlled are all factors that must be considered as each combination of scenarios may yield a different logging approach. The Circuit Configuration Code Tables (CCC), seen in Figure E-20 and Figure E-21 below, outline the different circuit configuration types and associates each type with the appropriate logging method to be used. The first table below is used for lighting fixtures that are physically controlled by the customer at the wall switch level. The second table is for lighting controlled by the customer at the breaker/contractor, and both provide scenarios for integrated occupancy sensors.

Figure E-20: Circuit Configuration Code Tables (CCC)

Circuit Configuration Codes (CCC): Wall Switch Controlled

Circuit Configuration Code (CCC)	CT Logger Type: DCT or HOBO	Wall Switch Configuration	Possible Circuit Configurations AA = Activity Area
S1	DCT		Rebated lights in ONE AA
S2	DCT		Rebated lights in ONE AA — AND/OR — Rebated lights in SAME AA — AND/OR — Rebated lights in ANOTHER AA — AND/OR — Non-Rebated Lights — AND/OR — Parasitic Loads
S3	HOBO		Rebated lights in ONE AA Rebated lights in SAME AA
SX1	X		Rebated lights in ONE AA Rebated lights in SAME AA Rebated lights in ANOTHER AA X Non-Rebated Lights X Parasitic Loads X * If any of the (X)'s are on this circuit configuration we **CANNOT LOG** the breaker
S4	HOBO		Rebated lights in ONE AA w/ Int. Occ. Sensors
SX2	X		Rebated lights in ONE AA w/ Int. Occ. Sensors Rebated lights in ANOTHER AA w/ Int. Occ. Sensors X Rebated or Non-Rebated lights in one or more AA's X Parasitic Loads X * If any of the (x)'s are on this circuit configuration we CANNOT LOG the breaker

Figure E-21: Circuit Configuration Code Tables (CCC)

Circuit Configuration Codes (CCC): Breaker/Contactor Controlled

Circuit Config. Code (CCC)	Breaker or Contactor Controlled	CT Logger Type: DCT or HOBO	Possible Circuit Configurations AA = Activity Area
B1		DCT	Rebated lights in ONE AA
B2		DCT	Rebated lights in ONE AA — AND/OR — Rebated lights in ANOTHER AA — AND/OR — Non-Rebated Lights — AND/OR — Parasitic Loads (*) * If **contactors** are used or if the circuit voltage is **277**, parasitic loads will not exist on the circuit as it is strictly a lighting circuit
B3		HOBO	Rebated lights in ONE AA w/ Int. Occ. Sensors
BX		X	Rebated lights in ONE AA w/ Int. Occ. Sensors — Rebated lights in ANOTHER AA w/ Int. Occ. Sensors X — **Rebated** or **Non-Rebated** lights in ONE or MORE AA's X — Parasitic Loads X * If any of the **(X)'s** are on this circuit configuration we **CANNOT LOG** the breaker
B4	A, B, C, A	DCT	B1 — AND/OR — B1 * **ONLY AS A LAST RESORT**, if DENT LL is not an option, shall a CT log two or more circuits at once. **This can only be done if the contact is confident that both breakers/contactors are always turned ON/OFF at the *SAME* time *AND* if all circuits are on the same phase, *ELSE*, DO NOT LOG.**

Legend:

DCT = DENT CT Logger (Time Of Use) | HOBO = HOBO Logger w/ CT's (Amp Level) | X = No CT logger can be installed on the breaker

Complete: Panel Meter – Circuit Spot Measurement Table (CSMT)

After identifying the Circuit Configuration Codes and determining the logging method to use, the surveyor will then fill out the ***Panel Meter – Circuit Spot Measurement Table (CSMT)***. This table is for reference only and acts as the first stepping stone to completing the final form that will be data entered, the ***Final Spot Measurement and Logging Form*** seen in Figure E-25 below. The ***CSMT*** tracks each spot measurement and allows for the cross checking of each circuit, comparing the expected nominal values to measured values, and determining if the data received from each logger is representative of the fixtures stated. The ***CSMT*** is seen in Figure E-22 below.

Figure E-22: Panel Meter – Circuit Spot Measurement Table (CSMT)

Panel Meter - Circuit Spot Measurement Table:

Note 1: Fill this table out, then fill out the ***Consolidated Logging Circuit Table*** below.

Circuit Label #	Phase	# Fixtures Controlled *(DD)*	# Lamps per Fixture *(EE)*	Watts per Lamp (FF)	# Lamps Burnt Out (GG)	*(DD*EE*FF) -(FF*GG)* Calc. Circuit Watts *(HH)*	Measured Circuit Watts (MW) *(II)*	PF *(JJ)*	Measured Volts *(KK)*	Measured Amps *(LL)*	Measured Parasistic Watts *(MM)*	Comments

The main items to compare are columns "*II*" and "*JJ*" as this will confirm if the number of fixtures we think the circuit represents is actually representative, as well as if our assumptions on lamp wattage is correct. For example, if we tested a circuit ON and OFF and think it controls 5 fixtures, with 6 lamps per fixture, at 32 watts per fixture, we would expect to measure on the circuit (at full output), 5*6*32 = 960 watts, plus or minus ten percent due to ballast factor. If we actually measured around 750 watts, we know our counts were wrong, other parasitic loads exist on the circuit, or our estimated lamp wattage was incorrect. In this case we might think that our estimated lamp wattage was incorrect as if the lamp wattage was 25 watts, our calculated nominal circuit watts (*II*) would be 750, matching our measured value of 750 watts (*JJ*). After filling out this table, trends usually appear between the calculated and measured values across the circuits, one being that the measured wattage is usually 5-10% higher than the calculated (mostly due to ballast factor). Lastly columns "DD – MM" will be associated to columns "D-M" in the ***Panel Meter – Consolidated Logging Circuit Table (CLCT)*** discussed further below.

How To Conduct Spot Measurements

1. Make sure the lighting is on for at least 10 minutes before taking a reading. For Metal Halide and other arc type lamps the internal arc must be on steady before starting the count to 10 minutes.
2. Set meter switch to power setting.
3. Clamp meter around the conductor or conductors to be measured. More than one conductor can be measured as long as all are the same AC phase electrically.
4. Attach the black or reference lead to neutral. If neutral is not safely accessible use ground instead, but neutral is preferred for greater accuracy.
5. Attach the red or hot lead to the exposed conductor, such as on the breaker screw.
6. Read the kW or Watts and the power factor and record on the survey form. The meter is self-ranging. Power factor is always between 0.5 and 1.

7. If the reading varies allow it to stabilize within 10% of a nominal reading then take an average.
8. If the reading is negative either flip the current clamp or the meter leads. The meter is accurate for either direction so an absolute value can be taken here.
9. Place the slider to the "V-A Auto" setting and record the amperage of the circuit.
10. In the "V-A Auto" setting, press the "Select" button twice and record the voltage from the conductor to neutral or ground.

Figure E-23: Spot Measurements

Common system voltages from a conductor to neutral:

- 105 to 130 volts is usually seen in smaller commercial and office buildings from conductor to neutral or ground. Voltage phase to phase is around 202 to 210 if a 3 phase panel.
- 220 volts to ground is not used often. It's usually in smaller commercial and office buildings.
- 267 to 280 volts is often used in larger office buildings and industrial facilities. Voltage phase to phase is around 470 to 490 Volts.

Complete: Panel Meter – Consolidated Logging Circuit Table (CLCT)

The ***Panel Meter - Consolidated Logging Circuit Table (CLCT)***, seen in Figure E-24 below, is also for reference only and is the second stepping stone to completing the ***Final Spot Measurement and Logging Form*** seen in Figure E-25 below. The ***CLCT*** is used to assign loggers and channels to circuits. This table is the consolidated version of the ***CSMT***, as multiple

items in the ***CSMT*** can be rolled together and assigned to a single current transducer. As previously mentioned, columns "DD – MM" from the ***CSMT*** will be combined, when appropriate, and entered into columns "D-M" of the ***CLCT***. Typically no more than two line items in the ***CSMT*** will be consolidated into one item on the ***CSMT*** as each circuit is usually controlled by a 20 amp breaker, and the CTV-B current transducers are rated at 50 amps**.**

Figure E-24: Consolidated Logging Circuit Table

Panel Meter – Consolidated Logging Circuit Table:

	From table above			*DCT or HOBO*		*(HOBO)*	*From applicalbe fields in table above*					*From applicalbe fields in table above*				
Item #	**Circuit Label#(s)**		**Phase**	**Logger Type**	**Logger ID**	**CT Channel #**	**Total Fixtures Controlled**	**# Lamps per Fixture**	**Watts per Lamp**	**# Lamps Burnt Out**	**Sum Circuit Watts**	**Sum Meas. Watts**	**Avg. *PF***	**Avg. Meas. Volts**	**Sum *Meas. Amp***	**Sum Parasitic Watts**
(A)	*(B)*		*(C)*	*(X)*	*(Y)*	*(Z)*	*(D)*	*(E)*	*(F)*	*(G)*	*(H)*	*(I)*	*(J)*	*(K)*	*(L)*	*(M)*

Complete: Panel Meter – Final Spot Measurement and Logging Form

This is the final panel metering form to be data entered, and summaries all of the rebated measures and the lighting loggers associated to each measure and configuration. Many fields on this form are directly copied from the ***CLCT***, and each row on the ***CLCT*** will be shown as a column on the ***Panel Meter – Final Spot Measurement and Logging Form.*** Fields "*A, B, C, X, Y, Z, D, E, F, G, H, I, J, K, L,* and M" will be copied from the ***CLCT*** and inserted on to this final form. The ***Panel Meter – Final Spot Measurement and Logging Form*** is shown in Figure E-25 below.

Figure E-25: Panel Meter – Final Spot Measurement and Logging Form

Panel Meter – Final Spot Measurement and Logging

Breaker Circuit and Point of Control (POC) Assessment				
Panel Meter Item #:	*(A)*			
Associated Measure Code(s)				
IOU Unit Basis				
Panel number/identifier (if applicable)				
Circuit Label Number(s):	*(B)*			
Phase of Circuit(s):	*(C)*	A B C	A B C	A B C
Breaker(s) Rated Amps				
Control Type Code (CTC)				
# Wall switches connected to this Circuit				
Circuit Configuration Code (CCC)				
Schedule #				
Area ID #: *(if > 1 AA, enter from left to right)*				
Fixture Verification and Nominal Watt Calculation				
Circuit(s) tested (On/Off)?		Y N	Y N	Y N
# of Rebated **Units** on Circuit(s)				
# of Rebated Fixtures controlled by Circuit(s):	*(D)*			
# of Rebated Lamps per Fixture:	*(E)*			
Rated Lamp Wattage:	*(F)*			
# of Lamps Burned-out or Non-Operable:	*(G)*			
Total Nominal Rebated Circuit(s) Watts: ***(D*E*F)-(F*G)***	*(H)*			
Spot Measurements				
Max Measured Wattage: (with all fixtures on Circuit ON):	*(I)*	G N	G N	G N
Power Factor: *(if 2 circuits on 1 CT, average the PF)*:	*(J)*			
Measured Circuit(s) Voltage: (to Ground or Neutral):	*(K)*			
Max Measured Amperage: (with all fixtures 'ON'):	*(L)*			
% Meas. vs. Calc. Watts: ***(I/H*100)***; Is this between 90-110%?		% Y N	% Y N	% Y N
Non-Rebated or Parsitic Loads				
Do Non-Rebated or Parasitic Loads exist on this Circuit?		Y N DK	Y N DK	Y N DK
Is the parasitic load Constant or Variable?		C V NA	C V NA	C V NA
Parasitic Wattage: (only if a contant parasitic load):	*(M)*			
Logger Information				
Logger Type: *(DCT = DENT CT, H=HOBO)*	*(X)*	DCT H	DCT H	DCT H
Primary Logger S/N:	*(Y)*			
Logger Channel #	*(Z)*			
Reference Logger:		☐	☐	☐
Reference Channel:		☐	☐	☐
CT Amp size				
Logger Installation Comments				

Install Loggers and Current Transducers

Safety around electrical panels is CRITICAL! Please refer to and follow all safety procedures when working in or around electrical panels (Section A.7 Onsite Safety).

Once the ***Panel Meter – Final Spot Measurement and Logging Form*** is filled out, the loggers are ready to be installed as we now know which loggers and channels are going to be logging which circuits, and have measured values associated with each of those circuits logged. The DENT CT loggers and/or the CTV-B CTs associated with the HOBO loggers are placed on individual circuits at the contactor or breaker.

HOBO Logger and CTV-B Installation

The I-bar of the CTV's can be hinged open in order to install the CTV around an individual wire or multiple wires if on the same phase. Be sure that the current you are measuring will never exceed the maximum range of the CTV, this would corrupt the data on all channels. Below are the steps for installing the CTVs and HOBO logger:

1. Rotate the CTV I-bar open
2. Place the wire or wires from the branch circuit(s) in the CTV window
3. Snap the I-bar closed
4. Slide circuits toward the center of the CTV for most accurate readings
5. Insert the CTV lead into the HOBO logger channel assigned

A light (LED) on the side of the HOBO logger confirms logger operation. The light should blink once every 4 or 8 seconds. If the logger was launched the LED will flash every four seconds. If the LED flashes every eight seconds the logger is not launched. Double check that each logger LED blinks every four seconds before closing up the electrical panel. If the light is not blinking, or it is blinking in a different pattern, re-launch the logger to ensure proper operation.

DENT CT Logger Installation

The CT of the logger is pressed open in order to wrap around an individual wire or multiple wires if on the same phase. Be sure that the current you are measuring will never exceed the maximum range of the CT, this would corrupt the data on all channels.

1. Press the CT clamp open
2. Place the CT clamp around the wire or wires from the branch circuit(s)
3. Close the CT clamp and slide circuits toward the center for most accurate readings
4. Calibrate the sensitivity of the logger by turning the circuit ON and OFF, making sure that the logger only registers that the fixtures are on a minimum amount of current is seen

Extracting Panel Loggers

Before visiting a site to extract loggers, the type of lighting system and loggers installed must be reviewed. Ideally the surveyor who did the original installation will also do the retrieval but this may not always be the case. The process should be as follows:

1. *Prior to retrieval site visit*, obtain a copy of the Lighting Logger Installation form that was completed when the loggers were installed. The copy can be made from the surveyor's original hardcopy or downloaded from the online tool. In addition, prepare a zip-lock bag for storage of the loggers after retrieval. Write the SiteID, date, and surveyor's initials on both sides of a card or piece of paper and place in the bag.

2. On each logger form, record the date and time that the logger was removed.

3. Observe the logger and make sure it is still *functioning correctly*. For DENT CT loggers, if the lights are off, turn them on briefly to see if the "lights on" indicator responds (sun symbol or green LED on TOU loggers). For Amp level loggers (HOBO U12-006), note if the red logging "ON" LED is blinking. If not, note as the logging has stopped.

4. Remove each logger. For DENT CT loggers, adjust the sensitivity to its minimum (least sensitive) setting (all the way to the "-" sign). Place in the marked zip-lock bag, so that loggers do not get separated. This is especially important if you are picking up loggers from multiple sites in a single day.

5. Record the logger disposition and repeat this process for all loggers at the site.

6. Record any information that was missed during the logger installation site visit.

Onsite Safety

Safety is the number one priority onsite and all safety precautions should be followed. Below is a list of safety precautions to check while onsite.

- ☐ What are this facility's potential safety hazards (equipment, water, etc.)? _____
- ☐ Who do I contact in case of an accident or injury? _____
- ☐ Where is the working panel power disconnect? _____
- ☐ Where are the entrances and exits closest to the working panel? _____
- ☐ Are there obstructions or doors that may interfere with access safety in the panel? _____
- ☐ Are there any forms of backup power or SCADA associated with the working panel? ___
- ☐ Rate the quality of the working panel (dust, corrosion, wiring) [1-5 high quality] _____
- ☐ Brush the back of your hand across panel before opening it for shock detection.

- ☐ Open panel door away from you to avoid arc flash to the body and head.
- ☐ Wear appropriately rated insulated gloves.
- ☐ Wear appropriate safety goggles or face shield.
- ☐ Test for loose wires that may come free when working in the panel.
- ☐ Measure voltage of panel to assess the shock hazard. Volts:_____

High bay lighting is often in industrial environments that present special hazards. Keep that in mind! Know what the special precautions are!

- **Forklift trucks**. High bay lighting often tends to be located in factories and warehouses. Forklifts have right of way. Always look both ways before entering an aisle.

- **Trip hazards**. When doing lighting surveys the in high bay situations the surveyor is often looking up and not where they are going. Always look ahead some distance before walking while looking up to pre-observe if any trip hazards exist. Only walk the distance and path you have looked ahead too. When going down a new path take a second to refresh your view.

- **Safety apparel**. Electrical safety apparel may be required by the site and may include hard hats, steel toe shoes, goggles, long sleeve shirts, or flame retardant clothing. Electrical safety wear should meet or exceed 2009 NFPA 70E requirements.

Appendix F

Lighting Logger Data Validation Process

F.1 Overview

As part of the CPUC Nonresidential Downstream Lighting Impact Evaluation, over 4,000 lighting loggers were installed and processed. To ensure the quality of the data logged for this project, each logger was reviewed by qualified staff to ensure the loggers were recording information accurately. Three different types of loggers were installed throughout this evaluation process. DENT Lighting loggers (Dent LL), which represent the vast majority of loggers installed, record lighting ON/OFF transitional data using a built in photocell and are typically installed interior to the lighting fixtures. DENT Current loggers (Dent CT) also record lighting ON/OFF transitional data but unlike the Dent LL, records usage based on the presence of current flowing through a circuit. These loggers are typically installed within electric panels to monitor high bay lighting controlled by switches or circuit breakers, but can also be used to monitor plug in fixtures. The third logger type installed is HOBO loggers. Hobo loggers are also installed in electric panels, record continuous (not transitional) data, and are configured to measure the level of current flowing through a lighting circuit in five minute intervals. This logger is also used to monitor high bay lighting however it is used specifically for fixtures with integrated occupancy sensors as amperage levels on a circuit change in relation to each fixture's operation. This appendix describes the systems used to review and QC the Dent and HOBO loggers (4000+) so that each logger received a hands-on look at what it recorded in the field.

As both Dent loggers (LL and CT) record transitional data, a system named viewLoggers was used to evaluate each logger's data. Section F.4 below presents an overview of the viewLoggers system, showing the various components and how they were brought together to allow each evaluator, while reviewing the site, to have easy access to all the pertinent information necessary to make an informed decision about the validity of the data logged.

The HOBO logger data was reviewed in much the same way as the DENT loggers, however as it does not record transitional data, the viewLoggers system was not used. Instead a process referred to as HOBO QC was used and is further discussed in Section F.5 .

F.2 Checking the Quality of the Logger Data

Why is it necessary to check the quality of the logger data? Each of the three types of loggers used in the study come with their own set of limitations and can be prone to problems if proper measures aren't taken to ensure their data quality. The Dent LL loggers have the highest variation for data quality, followed by the HOBO, then the Dent CT. Since the Dent LL loggers use a photo sensor to record changes in lighting levels, many factors need to be considered to ensure that it is only picking up the lumens from the lamp or lamps intended. Things like the placement of the logger, sensitivity of the photocell, and environmental conditions are critical to understand. Any outside lighting source can adversely affect the information recorded. In addition, setting the sensitivity of the photocell is an art, not a science. With the HOBO loggers, spot measurements with a digital multimeter are needed to confirm the correct circuit is being logged as well as to identify any parasitic loads on the circuit that could provide false lighting data. The Dent CT has the least room for error as setting the sensitivity of the current transducer is simple, unlike the Dent LL where you have also have to adjust for ambient light. These and many other issues are evaluated during the process of reviewing the data recorded by the loggers.

Before the review process begins, there are several steps taken to account for the multitude of issues that can arise on-site as part of using these types of lighting logger equipment. Onsite procedures, surveyor training, and the survey form itself were all designed to minimize logger data error and maximize each logger' quality. Some examples of steps taken to ensure good logger data are installing two loggers on the same circuit but in different fixtures. This ensures that if one logger fails the other logger will capture the correct lighting usage of that circuit. The surveyors are also trained to install and calibrate loggers to ensure that the logger accurately captures the changes in the state of the lighting, rather than changes in the ambient lighting due to other light sources or the amount of daylight entering the room.

The persons evaluating the data are trained to recognize these problems and other types of errors in an effort to ensure the data logged represents the actual usage of the lighting. Once an initial evaluation is performed, the evaluator dispositions the logger with written comments and indicators as to the quality of the data. It is this function that viewLoggers and HOBO QC facilitates. The viewLoggers tool is used to view graphically and numerically the data represented by the logger. ViewLoggers also makes available the raw data, survey form, and photos taken at each site. For HOBO QC, the logger data is also viewed graphically with contextual logger and site information available to correctly assess each logger. Finally, on-site and phone survey data are also made available to help facilitate the process of determining whether or not the data that were recorded met expectations for the type of area in which the lighting was installed.

F.3 The Process

Behind every lighting logger is an entire sample design/ phone survey/on-site survey process that must be managed and performed. The steps in this process include the following:

- Sample design was created using information collected from the IOUs about the programs in which they were involved.
- Phone surveys were performed to collect preliminary information about the lighting purchased and/or installed at the site.
- Sites were recruited to allow the surveyors to perform the installations.
- A survey was performed on-site to collect information about the actual state of the lighting found and about site characteristics as well.
- Loggers were installed, for an average of 7 months, in order to collect lighting usage data.
- The logger data were downloaded for evaluation and analysis.

The phone survey data is retrieved using a CATI system and hence automatically entered into a machine readable form. The on-site survey data are collected using paper forms and must be data entered. A different system was developed to facilitate the data entry process using Microsoft Access as the data store. The logger data were downloaded into files stored on a file system, then cataloged and stored with their respective site data, along with photos and survey forms to make a complete package of original data to support the analysis process. Only then was it possible to load the data into viewLoggers and HOBO QC and start reviewing the actual data logged. As mentioned before, the tools bring together all the information mentioned above so the evaluator has, at their fingertips, everything needed to understand the site, area, and lighting equipment being logged. The next sections go into detail about how viewLoggers and HOBO QC present these data for review. Figure F-1 below shows examples of a Dent LL and installation, Figure F-2 shows a Dent CT and installation, and Figure F-3 shows a HOBO logger and installation.

Figure F-1: Photos of Dent LL and Installation

Figure F-2: Photos of Dent CT and Installation

Figure F-3: Photos of HOBO Logger Installation

F.4 viewLoggers

viewLoggers is a program that makes easy access to the logger data files for review and quality control (QC). The software is written using Microsoft's Visual Studio and C#.NET. Some third party tools were also utilized for graphics and the user interface.

In this section we discuss various attributes of the software and show how the tool made the quality control process accessible enough as to allow the review of over 4,000 loggers in such a short period of time.

F.4.1 The Control Window

The Control Window is shown in Figure F-4. This is the opening window and controls all the processes available in the software. A database of files supplies the list of loggers for evaluation. The Control Window allows the evaluator access to all the loggers available for QC at a given site. By selecting a site identifier in the upper right-hand corner, all loggers for which there are data files on the drive are selectable in the grid seen on the dialog.

Figure F-4: viewLoggers Control Dialog

SiteID	EvalPhase	UnitID	MeterType	DateModified	LastReadDate	RecordCount	DateTimeEntered	UserID	CSVFileName
SCE_3000496831	PH04	LL08050534	2	10/7/2009 8:27 ...	10/7/2009 9:26 ...	180	11/9/2009 4:49 PM	SCE	P:\CPUC\P10
SCE_3000496831	PH04	LL08060049	2	10/7/2009 8:46 ...	10/7/2009 9:47 ...	16	11/9/2009 4:49 PM	SCE	P:\CPUC\P10
SCE_3000496831	PH04	LL08090061	2	10/7/2009 8:14 ...	10/7/2009 9:13 ...	20	11/9/2009 4:49 PM	SCE	P:\CPUC\P10
SCE_3000496831	PH04	LL08090308	2	10/7/2009 8:15 ...	10/7/2009 9:14 ...	108	11/9/2009 4:49 PM	SCE	P:\CPUC\P10
SCE_3000496831	PH04	LL08090662	2	10/7/2009 8:46 ...	10/7/2009 9:45 ...	48	11/9/2009 4:49 PM	SCE	P:\CPUC\P10
SCE_3000496831	PH04	LL08100113	2	10/7/2009 8:24 ...	10/7/2009 9:24 ...	54	11/9/2009 4:49 PM	SCE	P:\CPUC\P10
SCE_3000496831	PH04	LL08100354	2	10/7/2009 8:26 ...	10/7/2009 9:25 ...	164	11/9/2009 4:49 PM	SCE	P:\CPUC\P10
SCE_3000496831	PH04	LL08100481	2	10/7/2009 8:23 ...	10/7/2009 9:18 ...	594	11/9/2009 4:49 PM	SCE	P:\CPUC\P10
SCE_3000496831	PH04	LL08100680	2	10/7/2009 8:26 ...	10/7/2009 9:27 ...	124	11/9/2009 4:49 PM	SCE	P:\CPUC\P10
SCE_3000496831	PH04	LL09030324	2	10/7/2009 8:17 ...	10/7/2009 9:17 ...	138	11/9/2009 4:49 PM	SCE	P:\CPUC\P10

The evaluator selects each logger one-by-one and reviews the data by viewing the user selectable resources made available by the software. By clicking the checkboxes in the bottom right corner of the dialog, the user can view the resources to aid in the evaluation process. The checkboxes allow the evaluator to open the following items:

- The on-site survey form as an Adobe PDF file.
- The photos taken at the site by the surveyor.
- The raw transition data collected by the logger.
- A weekly chart showing the percent of lighting on per minute by week.
  - Included with this chart are numeric views to the transition data and the number of seconds ON per minute.
- The same weekly chart with an additional view of the data using a Gantt format of the same data.

Each of the above items will be discussed in the following sections. Also available from this dialog is the ability to view the hourly rollup of these data for the entire period of installation, as well as other bells and whistles for batch processing and viewing the available list of loggers in different ways.

F.4.2 QC Analysis Dialog

This dialog is the heart of the logger evaluation process. As seen in Figure F-5 below, this dialog shows all of the pertinent information about the site and information about the area in which the logger was installed. Knowing this information can be very useful when trying to understand the patterns recorded by the logger. The upper part of the screen is populated with data from the on-site survey and shows the following information:

- Site and logger identifiers,
- Backup logger identifier (if installed),
- Business type,
- Total square feet,
- Activity area where logger was installed,
- The schedule number associated with the logger,
- Type of control on the circuit being logged,
- What type of lighting was being logged,
- Status of the logger at time of removal,
- Pertinent dates associated with the installation and removal of the logger, and
- Comments recorded at the time of extraction.

Figure F-5: QC Analysis Dialog

In the bottom third of the dialog are the evaluation controls used to disposition the logger data. It is here that the logger data are marked as usable or not and why. Controls are made available to indicate if the data are considered good or not, what quality issues cause concern or disqualification of the data, whether or not the clock on the logger needed mechanical adjustment, and an indication of the type of operation observed by the evaluator in the data. All these inputs are used during analysis to include or remove logger data where problems are observed.

At the bottom of the dialog are the controls to indicate who evaluated the data and when. The "QCed By" control may contain multiple initials indicating that a logger has undergone further review before a final decision was made about the quality of the data logged. Once the disposition of the data is performed, the quality of the data is indicated by using the controls and/or written comments. With the comments written and the flags set, the Save button is

pressed and the data are stored to the database. If the logger is marked as good then the hourly data are calculated and stored to the database as well. If the logger is not marked as good then the disposition and comments are saved but the hourly data are not calculated or stored.

F.4.3 Raw Logger Data File Dialog

In Figure F-6, the contents of the raw logger file is made available to the evaluator. The ability to view these data is invaluable in the process of QCing the logger data. It is here that the actual ON/OFF transitions may be viewed. All the graphical views in the world are no match to seeing the raw data.

The dialog has two parts. The first shows the exact contents of the comma delimited file when the data are stored. Looking at these data can reveal many issues encountered by the logger during the period of installation. The second is a histogram of the number of transitions per day recorded by the logger. The histogram can be very useful for seeing gaps in the data caused by logger failure or for seeing periods of flickering cause by the effects of outside lighting sources on the logger. The two red lines in the histogram indicate the dates of installation and removal. When the hourly data are calculated, only the data between these two dates are stored to the database. It is presumed that the data recorded on or before the date of installation and on or after the date of removal are subject to external effects and not representative of the actual lighting usage at the site.

Figure F-6: Raw Logger Data File Dialog

F.4.4 View Survey Dialog

The View Survey dialog, shown in Figure F-7, makes available the scanned survey form in Adobe PDF format. This gives the evaluator access to all information collected during the on-site survey. Having this information readily available can prove to be invaluable while evaluating the accuracy of the logger data.

Figure F-7: View Survey Dialog

F.4.5 View Photos Dialog

The View Photos dialog makes available all the photos taken at the site. While Figure F-8 only shows one of the multitudes of pictures taken at the site, the dialog acts much like a browser when opened to full screen—the evaluator can scroll through all the pictures to see where the loggers were placed and under what conditions. When trying to evaluate why a logger experienced frequent transitions, being able to view the area in which the logger was installed is very useful. The pictures can also be expanded to full screen for a closer view, if needed. It should also be mentioned that pictures, like the one in this figure, were very useful when looking at model numbers of CFLs to get wattage, lumens, color rendition, etc. for the lighting analysis.

Figure F-8: View Photos Dialog

F.4.6 Graphically Reviewing the Data

A graph is worth a thousand words with it comes to reviewing logger data. Whilst the tools made available by the logger manufacturers can be quite useful for this purpose, it was decided that a new tool would be even more useful if it brought together all the above mentioned information with a graphical representation of the actual logger data. The dialog, shown in Figure F-9, shows much the same data available in other software. The chart on top shows the *percent on per minute* for an entire week's period of time. This view may be scrolled using the buttons and calendar control in the upper left-hand corner. If the buttons are used the evaluator can scroll through the data week by week to see the change in the data over time. If a particular day stands out, say in the raw data, the user can use the dropdown to select that day and view a week of data starting on the day in question. In this version of the software, a view of a single day is not available.

In the bottom of the dialog two grids are presented. The bottom left grid shows the transitions recorded by the logger after adjustments have been made by the software. There are four types of adjustments that can be made to the transition data. They are as follows:

- Time correction due to logger reset,
- Time correction due to malfunctioning logger clock,
- Time correction due to Daylight Saving Time, and
- Conversion from analog to transition.

Discussion of these corrections will follow later in section J.5.1. The evaluator can use the grid with the Raw Data View to view the adjustments in the data and, if errors are observed, report these errors to the programming staff for correction. Here, the evaluator can make sure the right procedure was used to save a logger that might otherwise have been discarded.

The bottom right-hand grid shows the actual minute-by-minute data as it was calculated from the transition data. The grid shows the number of seconds the light was on in each minute of the logger's life. No data are excluded from this view. This allows a complete review of all data recorded by the logger. It shows what happened to the logger from the point it was initialized by the surveyor through to the point it was plugged into the computer and downloaded into the file read by viewLoggers. As mentioned above, only the data between the installation and removal dates are used in the analysis, but being able to view the periods outside this time can be invaluable to uncovering problems with the way the logger recorded the transitions.

Figure F-9: Weekly Bar Chart

PK_ID	SiteID	UnitID	ReadTime	LightSensor
	SCE_3...	LL08100354	2009-08-05 15:14:38	0
	SCE_3...	LL08100354	2009-08-05 15:14:52	1
	SCE_3...	LL08100354	2009-08-05 15:14:54	0
	SCE_3...	LL08100354	2009-08-05 15:15:23	1
	SCE_3...	LL08100354	2009-08-05 15:15:38	0
	SCE_3...	LL08100354	2009-08-05 15:15:40	1
	SCE_3...	LL08100354	2009-08-05 15:15:44	0
	SCE_3...	LL08100354	2009-08-05 15:15:46	1
	SCE_3...	LL08100354	2009-08-05 15:15:50	0
	SCE_3...	LL08100354	2009-08-05 15:15:54	1

ReadTime	LightSensor
2009-08-05 15:14	2
2009-08-05 15:15	27
2009-08-05 15:16	4
2009-08-05 15:17	0
2009-08-05 15:18	0
2009-08-05 15:19	0
2009-08-05 15:20	35
2009-08-05 15:21	48
2009-08-05 15:22	54
2009-08-05 15:23	58
2009-08-05 15:24	60

F.4.7 Data Comparison Charts

The charts shown in Figure F-10 are another tool available in viewLoggers for the purposes of reviewing the logger data. While the top chart is identical to the chart in Figure F-9, the Gantt chart in the bottom of this dialog shows these data in a different and interesting way. The interesting point to this chart is that it accentuates the issue of flickering in the data. In the weekly chart, the problem of flickering caused by external influences is washed out because there is so much data compacted in such a small space (i.e., the weekly chart is a bar chart where every bar represents one minute of data for a week).

The Gantt representation of the data shows all actual starts and stops or transitions in the data. It does this by breaking the line for each transition. Note the break in the line on August 19 at around 21:40. Looking at the bar chart above, this transition is not visible but it can be seen in the Gantt representation of the data. In this case, there certainly is no problem with the data and the logger would not be adversely affected by this transition. In the case where there are multiple transitions like this, they are easily identified by the evaluator, which would give reason to inspect the data and comments further to determine if the transitions are legitimate or a cause for alarm. The Gantt chart and the histogram on the Raw Data View have proven to be quite useful as an effective and efficient way to uncover problems with the logger data.

Figure F-10: Data Comparison Charts

F.4.8 Hourly Data Chart

Finally, the Hourly Data View shows the data as it will be used in the analysis. Figure F-11 shows the data represented by this dialog. As the period for the loggers in the study did not exceed six months, it was decided to show the entire data in this chart. In future revisions to the software, this may be enhanced. As it is now, the evaluator can view graphically the percent ON per hour of the period between the installation date and the removal data. Being able to review the data in this format allows for another way of seeing gaps in data collection as well as how regular or irregular the data are on an hourly basis. Seeing this may cause further review of the data or give the reviewer the necessary confidence that the data are representative of the type of building and area where the data were collected.

Figure F-11: Hourly Data View Dialog

F.4.9 Dent Data Issues

As mentioned in section J.4.6, there were a few issues with the data that were caused by outside forces. That is to say, they were not issues with the lighting being logged but with the logger itself. In some cases, the logger data and even the loggers needed to be discarded. Case in point: when a logger was placed too close to a heat source, the logger would melt beyond recognition. This happened in cases where the logger was installed on a CFL but the CFL was replaced during the survey period (by the business owner) with an incandescent bulb. The heat generated from the incandescent bulb was too great for the logger.

Other issues included in the list in section J.4.6 are with the clock or with the way the data are recorded by the logger. This section will go through each issue and discuss the corrections needed to save or convert the data for use in the analysis.

F.4.10 Dent Time Issues

There were three basic time issues that needed to be addressed. This section will offer a description of these issues and explain how they are corrected by viewLoggers.

Time Correction Due to Logger Reset

This correction was implemented whenever a logger was reset to factory defaults by mistake. Each logger is plugged into the computer and set to the clock before being taken out to the site. During the installation process, the loggers are tested and adjusted to capture the changes in lighting state from the lamp being logged. Once the adjustments are made, the installer presses the reset button to clear out the extraneous transitions and then places the logger where it belongs to record lighting usage. If the reset button is pressed for too long the logger resets to factory default.

When this problem was discovered, the evaluation team developed a method to adjust the time/date stamps recorded in the logger file using the time of the computer and the time of the logger at the moment the data were downloaded to the computer. It was found that by using this information, an adjustment could be calculated and applied to each transition to bring the time/date stamps to the present time. With no exceptions, this method was successful in making data available for analysis that would otherwise have been lost.

Time Correction Due to Malfunctioning Logger Clocks

This problem was somewhat more problematic. Early on, the team became aware that some loggers had problems with their clocks. The clocks seemed to be cycling either slower or faster than the standard 60 cycles per second. The effect of this was for the logger clocks to either slow down or speed up over time. This seemed like an insurmountable problem until it was discovered that the clocks were changing at predictable rate that was linear in nature. With this knowledge, it was simple to program a correction using the time/date stamps of the logger and the computer at the moment the data were downloaded. The difference in these times was distributed proportionally over time based on the amount of time that had passed since installation. After making this correction, the recorded times were observed to be remarkably accurate. It should be noted that this correction was only applied if the difference between the computer time and the logger time was more than 15 minutes and less than 20 hours. Any difference more than 20 hours was considered not salvageable.

Daylight Saving Time

The loggers used for this analysis do not have the ability to correct for Daylight Saving Time (DST). Because of this, it is necessary to adjust the time/date stamps when time changes occur to set the logger's clock back to clock time. To help facilitate these adjustments, a calendar was created indicating when time changes occurred. Code was then written to recognize the time to which the logger was synced and then adjust the data when a DST boundary was crossed. This adjustment is automatic in viewLoggers.

A secondary issue arose for the loggers that were initialized before DST started but installed after DST was in effect. These loggers were identified and code was written to correct this problem by advancing the clock one hour for all time/date stamps in the transition file. This is controlled by the checkbox on the QC dialog called "Advance Time 1 Hour".

F.5 HOBO Logger Data Validation

HOBO QC is not a program like viewLoggers, it is a term used to describe the process and tools developed that allow each logger to be reviewed in reference of the contextual data surrounding a logger while allowing for the tracking of their final dispositions. This section discusses the details of the HOBO QC tools, the thought process behind validating a logger, and the tracking of their dispositions. To better understand the HOBO QC process it is recommended that the Panel Metering section of Appendix E be reviewed first to become familiar with the HOBO data loggers and the on-site data used to cross-reference the HOBO data.

F.5.1 HOBO_QC_Tracking Workbook

The HOBO QC Tracking Workbook is an excel workbook that populates and tracks all of the HOBO loggers that have been downloaded and are ready for QC. A team of engineers trained in the validation of HOBO data use the workbook to make logger QC assignments, provide final dispositions for loggers, include logger comments, and document all action items needed to process a logger. The workbook has three sections and described below are all the variables present under those sections in the workbook.

Unique Logger Records

1. **Evaluation Phase**, **SiteID**, and **Logger ID** – These are the three variables used to uniquely identify a logger and they are pre-populated to the workbook as HOBO loggers become ready for QC.

Logger and Action Item Status

These fields depict the overall status for each logger in the QC process.

1. **QC Assignment** – This field is updated with an engineer's initials and designates the engineer assigned to a logger.
2. **QC Complete?** – (Yes/No) field that provides a final status for each logger
3. **Form Action Item Complete?** – (Yes/No/NA) field that provides a final status for any action items relating to survey form adjustments that need to be made based on the logger data. For example, a form may show a logger was measuring 8 fixtures while the logger data shows it is measuring 10. The form and database must be updated to represent 10 fixtures logged.
4. **SAS Action Item Complete?** – (Yes/No/NA) field that provides a final status for any action items relating to code fixes that need to be made to a logger's data. For example, if a circuit is found to have a constant parasitic load of two amps, SAS code needs to be written for the logger to subtract out two amps from each observation.

Final Logger Dispositions and Comments

1. **Start Date –** QCer enters the date for which the logger began logging. This date is compared to the date the on-site was completed to make sure they match.
2. **Adjusted Start Date –** This is the date depicting when we want to start using the logger data if a logger for some reason began logging prior to its installation on site.
3. **Adjusted Start Date Comments –** Comments describing the rationale for the adjusted start date.
4. **End Date –** QCer enters the date the logger stopped logging.
5. **Adjusted End Date –** This is the data depicting when we want to cut the data off if the logger continued logging after being extracted from a site.
6. **Adjusted End Date Comments –** Comments describing the rationale for the adjusted start date.
7. **Parasitic Loads?** – (Yes/No) field for whether the logger was recording any parasitic loads (any load not related to the rebated lighting). Ideally there are no parasitic loads on a circuit but it can happen, even after being properly tested prior to the logger installation.
8. **Parasitic Load Type –** (Constant/Variable/NA) field that describes the type of parasitic load on the logger. If the parasitic load is <u>constant</u> then the parasitic data can be easily removed from the data. If the parasitic load is <u>variable</u> the parasitic data cannot be easily removed and may require specific SAS code adjustments or be designated as unusable.

9. **Constant Parasitic Amperage –** This is filled out with a numeric value if the parasitic load is constant. This value is subtracted from the data to eliminate the parasitic load.
10. **Denominator Amps for Analysis –** This is a very important numeric value set by the QCer. The QC process was designed to help extract this value from the data. The value represents the maximum amperage for the circuit to be used in the analysis to generate the %ON time for a logger. As the logger records amperage levels, those levels need to be compared to the maximum amperage draw for the rebated lights on the circuit to get a %ON time.
11. **Max Amps Source –** This field is used to describe where the maximum amperage value the QCer chose came from. As a logger could be measuring 10 lighting fixtures with integrated occupancy sensors, it's possible that throughout the entire logging period all 10 lights were never on at once. As such, the maximum amperage value to compare the amp levels against to obtain a %ON value does not exist in the data. The source types that can be designated are described below:
    a. **98% Max –** Is the max amperage recorded by the logger in the 98th percentile. This value is generated from code and is used to account for small spikes at circuit start up that may not accurately represent a circuit's steady state maximum amperage draw.
    b. **Max Logger –** This is the maximum amperage that the logger ever recorded.
    c. **Max Measured Amps –** This is the maximum amperage value measured onsite with a multimeter when all fixtures on a circuit were believed to be on.
    d. **Max Measured Calculated Amps –** This is the maximum amperage value obtain from measuring maximum circuit wattage, voltage, and power factor with a multimeter and back calculating the amperage
    e. **Rated Calculated Amps –** This is the maximum amperage expected on a circuit from calculating the nominal input circuit watts from the lighting configurations and divining by the measured circuit voltage and power factor to obtain amps.
    f. **QCer Value –** This is a numerical value the QCer sets using the contextual information gleaned from items a. through e. above. The a. through e. values may not be the exact values we want to use, however they each allow cross-referencing to determining the best value to generate an accurate %ON time for the fixtures being logged.
12. **Rationale for Max Value –** This is a text field where the QCer provides the justification for why they set the maximum amp value they did.
13. **Data Quality –** This is another key field that described whether all the data for a logger is "Good" or "Bad". If the disposition is "Good" then the logger data can be used for analysis, if "Bad" it cannot.

14. **Spot Measure Comments** – This field describes accuracy of the spot measurements and their consistency with the data.
15. **General Comments** – This field allows the QCer to describe in more detail any discrepancies or issues related to the logger that may have been touched upon earlier in the QC workbook.
16. **Action Items for Form Change** – This field describes any changes that need to be updated on the survey form from QCing the logger's data.
17. **Action Items for SAS** – This field describes in detail the adjustments that need to be made to a logger using SAS code.
18. **Final QCer** – Contains the initials for the person who gave the final dispositions for the logger.
19. **Date Final QC** – Date the loggers' QC was complete.

F.6 Hobo QC PDFs

As with Dent logger QC, the ability to view the logger data in graphical form is essential to assessing the quality of a logger. For HOBO QC each logger's raw data was graphed to PDFs using SAS code. Each logger PDF is stored in it respective site folder where the final survey form, site photos, and raw data live, making it easy to access all site information at one time. Each PDF shows day by day lighting usage and the format allows you to scroll through each day of data (76 days maximum for HOBO loggers). Pre-populated on each PDF is contextual information about the site and logger that allow a QCer to perform key checks to ensure the data is as expected. The contextual data populated to the form is listed below and an example of a HOBO QC PDF is shown in Figure F-12.

- Schedule item
- Location
- Control type
- Control time delay
- Fixture configuration
- Number of fixtures controlled
- Measured amperage per fixture
- Parasitic loads
- Removal comments
- Install / Last read date
- Days installed

Figure F-12: Example HOBO PDF

SITE ID : SCE_NRF_927_0000288077
UNIT ID : 10189463_2
EVALPHASE : PH02
SCHEDULE # : 1

LOCATION : PRODUCTION
CONTROL TYPE : MSI
CONTROL TIME DELAY : 5 minutes
FIXTURE CONFIG : 6 Lamp 32 Watts
NUMBER OF FIXTURES CONTROLLED : 3
MEASURED AMPERAGE PER FIXTURE : 1.45
PARASITIC LOADS : N
REMOVAL COMMENTS :
INSTALL / LAST READ DATE : 14NOV12 to 28JAN13
DAYS LOGGED : 76 days

Also shown in the graph are five colored horizontal reference lines. These reference lines represent different circuit measurements taken onsite as well as values extracted directly form the data. The reference lines are used to asses the quality of the data. A description of each reference line is provided below.

1. **Max Measured Amps (Red)** – This is a direct amp measurement made with a digital mulitmeter on this logger's lighting circuit and made when the surveyor believed all of the lights on the circuit were on. This value is important because if done correctly, the maximum amperage seen in the data should top out around this point. This value cannot be used alone to assess the data quality as the lighting fixtures have integrated occupancy sensors and not all of the lights on the circuit may be on at one time during the montorign period.
2. **Measured Calcualted Amps (Purple)** – This measurement is a cross-reference to the max measured amps above. Here the surveyor will measure the circuit wattage, voltage, and power factor. From these three measurements the amperage is calcualted (Watts/Votage*Powerfactor). If no fixtures have turned off between taking the max measured amps and measured calculated amps, the amp values should be roughly the same.
3. **Rated Calculated Amps (Green)** – This is a rough calculation conducted to make sure the other measurements taken are in the right ballpark. This calculation takes into account the number of fixtures on a circuit, the number of lamps per fixture, and the lamp wattage. The number of fixtures*lamps per fixture*lamp wattage/circuit voltage*powerfactor give you a benchmark for your other measurements. For example, if you have 10 fixtures on a circuit, 4 lamps per fixture, with 32 watt lamps, you would expect the amperage measured on the circuit (when all the lights are on) to be around 10.4 amps (if the voltage is 120 and powerfactor is 0.98). If the amperage measurements are not around this range, you are likely measureing the wrong circuit.
4. **Max Amperage** – This is extracted from the logger data and is the maximum value seen in the data throughout the logging period. This is also used as a reference and should be in the same range as the other referecne measure lines above.
5. **98% Max** – This is also extracted from the logger data and is the maximum amperage value seen in the data at the 98th percentile. This value is useful because it helps factor out any startup amperage spike the circuit may see, which would a false maximum steady state amperage draw.

The reference values seen in Figure F-12, are right around the same amperage range, and the maximum amperage seen in the logger data profile peaks slightly below these values. Taking a closer look shows that the data represent 3 fixtures on the circuit and there is a clear three step pattern in the data, showing when each of the three fixtures turned on and off. As described in

the HOBO QC Workbook, one of our main goals is to extract a maximum amperage value to compare the data agains to calculate %ON time. In this example it is clear that when three fixtures are on, the maximum amperage is right around 4.15 amps (on averge). As such, 4.15 amps is set as the max value for the logger and is the denominator the data is compared against for generating %ON times.

F.6.1 HOBO Data Issues

The testing, crosschecking, and installation of HOBO loggers are a tedious and multifaceted process. Given the variability of electric panel wiring in relation to lighting fixtures, as well as the operation of the integrated occupancy sensors that control the lights logged by HOBO loggers, two types of data errors are likely to occur. The first error occurs when the fixture count and expected amperage measured on a circuit do not match. This happens because one may not be able to turn lighting circuits on and off at a site, and if one can, the fixtures on that circuit may turn off before measurements can be made at the electric panel. This results in an inaccurate measurement and inaccurate expected amperage to later compare with the logger data. The form is set up to flag these instances and require re-tests, but sometimes all options have been expended and the surveyor will have to use what they were able to get. The second data issue is parasitic loads. When testing and measuring the lighting circuits to be logged, the surveyors perform test to look for parasitic loads (non-rebated lighting loads on the circuit). During the day all tests for this may pass, but it is possible that there are still loads on the circuit that were not on at the time. As such, some loggers show parasitic loads that have to be evaluated and adjusted on a logger by logger basis. For each of these issues, Itron has built in survey form and onsite procedure cross checks that allow these to be detected and rectified in most cases.

F.6.2 HOBO Time Issues

For the HOBO loggers the only time issue that needed to be addressed was Daylight Saving Time (DST). When a logger's installation period includes a DST event, it is necessary to adjust the time/date stamps when time changes occur to set the logger's clock back to clock time. To help facilitate these adjustments, a calendar was created indicating when time changes occurred. Code was then written to recognize the time to which the logger was synced and then adjust the data when a DST boundary was crossed.

F.7 Conclusion

After using viewLoggers to evaluate thousands of loggers and HOBO QC for hundreds, obvious potential improvements have been identified for the next revision of the QC processes. For both viewLogger and HOBO QC, allowing the user to zoom in on the data could be invaluable. For viewLoggers, looking at one day's usage may show issues that could have only been identified in

the raw data. Also, having viewLoggers generate load shapes from the logged data and reported operating schedules could save time during analysis. For HOBO QC, having weekly profiles available would help identify circuit trends that previously took a lot of daily data scrolling. Other issues have arisen that will also need to be addressed, but the logger QC processes worked admirably well given the short development time and planning that went into its design.

Reviewing and assigning dispositions to over 4,000 loggers would not have been possible without well trained and dedicated evaluators and tools that could be used to review the data efficiently and effectively. viewLoggers was developed to be that tool for the Dent loggers and HOBO QC for the HOBO loggers. With their ability to bring together all pertinent information in one place for evaluation, both were key elements in maintaining the integrity and high level of data quality for this CPUC Non-Residential Downstream Lighting Impact Evaluation.

Appendix G

Gross Impact Analysis

G.1 Overview of Approach

One of the primary objectives of this evaluation is to develop gross ex-post kW and kWh savings estimated for seven non-residential downstream lighting high impact measures (HIMs):

- Indoor CFL – Basic
- Indoor CFL - Reflectors
- Indoor Controls - Occupancy Sensor
- Indoor HID
- Indoor High Bay Fluorescent
- Indoor Linear Fluorescent
- Indoor Linear Fluorescent Delamping

For this evaluation a gross realization rate (GRR) approach was utilized, where site-specific gross ex-post impacts were estimated for a sample of participants. These site-specific gross ex-post impacts were then compared to the ex-ante impact from the tracking data to develop a ratio of ex-post to ex-ante gross savings, which is the GRR, or the percentage of ex-ante savings realized in the ex-post evaluation. As will be discussed in more detail, a set of GRRs were developed for specific participant segments, which could then be applied to the entire population of participants to create a population estimate of ex-post gross savings.

This appendix discusses in detail the approach that was used to develop site-specific ex-post gross kW and kWh savings values, and the corresponding segment-specific gross realization rates that could be applied back to the population of participants.

The general approach that was used to estimate site-specific ex-post gross savings values was based on developing hourly impacts to create an impact load profile. From this profile, impacts could be aggregated to develop an annual ex-post gross kWh savings value, or averaged over a set of specific hours to develop an ex-post gross kW savings value. The general algorithm applied to estimate energy savings for a specific hour is:

$$\text{Impact_Hour_i} = \text{Measure_Qty} \times \begin{bmatrix} (\text{Baseline_Wattage} \times \text{Percent_On_Pre_Hour_i}) \\ -(\text{Post_Wattage} \times \text{Percent_On_Post_Hour_i}) \end{bmatrix}$$

Where,

Measure_Qty = the quantity of measures found to be installed and operable based on an on-site visit.

Baseline_Wattage = the wattage associated with the measures that were replaced or with measures corresponding to the industry standard practice for the type of retrofit. As discussed in detail below, some measures employed a dual baseline over the life of the measure, while others were based solely on industry standard practice.

Post_Wattage = the wattage associated with the measures that were installed.

Percent_On_Pre = the percentage of time the baseline equipment is on during a specific hour i, which is obtained from adjusted self-reported operating hours gathered on site.

Percent_On_Post = the percentage of time the installed equipment is on during a specific hour i, which is obtained from either logger data usage or adjusted self-reported operating hours gathered on site. The Percent_On_Pre and Percent_On_Post are assumed to be equal for all measures, except occupancy sensors.

This algorithm varied depending on the measure installed, as well as the circumstances of the installation (e.g., if the installation was early replacement or a replacement on burnout). In Section G.4, measure and situation-specific (early replacement or replacement on burnout) equations are provided, as well as a description for how each parameter is being evaluated.

One final parameter that is utilized to estimate annual energy and demand impacts is the HVAC interactive effects. The Database for Energy Efficient Resources (DEER) provides a set of factors that were used to incorporate the kWh and kW HVAC interactive effects associated with the installed measures. The kWh factors are multiplied by the annual kWh impact for a given participant, and the kW factors are multiplied by the kW demand impact. Different factors are applied to a given measure and participant based on if the measure was a CFL or not, the participant's IOU, the climate zone where the participant is located, the building type of the participant, and if the participant's facility is new or existing.

As mentioned, for many measures evaluated under this study, impacts are estimated differently for customers that replaced their equipment on burnout or as a result of a natural replacement, as opposed to those that were influenced by the program to make an early replacement. For customers that perform a replacement on burnout (ROB) or are natural replacement (NR), the

baseline equipment for estimating impacts for the effective life of the project (EUL) is considered to be industry standard practice. This is because the customer would have installed equipment in the absence of the program, therefore the existing equipment does not provide the appropriate baseline for estimating impacts.

However, when a measure is considered an early replacement (ER), the lifecycle savings will be examined over two distinct time periods. The first time period is associated with the replaced equipment's remaining useful life (RUL), which is the period over which the accelerated program adoption was considered to have been made. During the RUL time period, the baseline equipment for estimating impacts is the equipment that was replaced. However, for the post-RUL period through the measures' EUL, the baseline equipment for estimating impacts again will be considered to be industry standard practice, because at the end of the RUL the customer would have had to replace their equipment. This approach is also referred to as the dual baseline methodology, as there are two different baselines that are applied to customers who are considered to be ER.

The dual baseline approach will be applied to all measures except for basic CFLs, CFLs with reflectors and occupancy sensors. Because CFLs typically replace incandescent lamps which have a very small EUL, it is assumed that they are always ROB. Occupancy sensors installed under the program are typically installed as part of a lighting retrofit. When estimating savings for a lighting retrofit along with occupancy sensors, the impact associated with the occupancy sensors is considered to be the incremental measure whose savings is based on the installed equipment. Therefore, the wattage affected by the occupancy sensor is the post-retrofit wattage for the occupancy sensor's full EUL and no dual baseline would apply.

The determination of which installations require a dual baseline and the development of RUL and various baseline wattages is discussed in more detail below.

The remainder of this appendix will discuss the following:

- The data sources that were utilized to estimate each of the individual parameters that comprise the impact load shapes.
- The data collection plan, both the sample design and resulting data used in the evaluation.
- The approach for estimating each individual impact parameter, including the installation rate, the various wattage values, the pre and post operating hours and the RUL.
- The development of the resulting gross realization rates, which can be applied to the population of participants.

G.2 Data Sources

A number data sources were utilized to support the development of each impact parameter in order to develop site-specific estimates of gross ex-post kW and kWh savings values for this study, which include the following:

G.2.1 On-Site Data Collection

On-site visits collected data to support a number of parameters used in the impact algorithm. Verification data was collected to support installation rates as well as storage rates. Equipment manufacturer and model numbers were collected in order to perform lookups that would provide information on the wattage of equipment to support the estimate of pre- and post-retrofit wattages. Furthermore, for some on-sites, spot watt measurements were taken to estimate post-installation wattage. Self-report data was also gathered on the wattage of pre-existing equipment when actual equipment replaced was not on site, to help support the estimate of pre-retrofit wattages. Finally, self-report data was gathered on lighting equipment usage schedules to aid in the development of pre- and post-retrofit load shapes. The use of this data to develop installation rates is discussed in Section G.5, the development of operating schedules using self-report data is discussed in Section G.6, and the development of wattage values is discussed in Section G.7.

G.2.2 Time of Use Lighting Loggers

As part of the on-site visit, a sample of installed lighting equipment was monitored to gather time-of-use data to support the development of operating hours. Lighting loggers using optical sensors were the predominant type used for this study. When lighting was not accessible for optical sensors, logging was done at the electrical panel where the circuit amperage was collected over time. The development of lighting usage load shapes using logger data is discussed in detail in Section G.6.

G.2.3 Phone Survey

A phone survey was conducted to recruit customers for the on-site visit, as well as collect data useful for various components of the evaluation. One key use of the phone survey data was to identify if customer installations were early replacement (ER) or replacement on burnout (ROB), which is discussed in detail in Section G.8.

G.2.4 2006-08 Logger

Logger data from the 2006-08 CPUC Small Commercial Contract Group evaluation were utilized to adjust customer self-reported operating schedules for CFL and linear fluorescent measures. The use of this data to adjust the self-reported operating schedules is discussed in detail in Section G.6.

G.2.5 Commercial Market Share Tracking Study Data

The Commercial Market Share Tracking study provided information on lighting equipment installations that occurred outside of the CPUC programs. This information was utilized to develop estimates of industry standard practices for lighting retrofits, which is discussed in detail in Section G.7.

G.3 Data Collection

G.3.1 Sample Design

On-Site Sample Design

As mentioned above, the on-site visits collected data to support a number of the impact parameters including the installation rates, pre and post wattages and pre and post operating hours. The on-site sample was designed to develop statistically significant results at the measure level for one or more combinations of IOU and Gross Program Types as discussed in Section 2 of the report. The Research Plan for this evaluation discusses the sample design in greater detail, but the resulting design focused on developing gross ex-post savings results by HIM, IOU and program type. Sample sizes were developed to achieve rough levels of statistical precision which ranged from 90/15 (defined as estimating annual operating hours such that the 90% confidence interval was within 15% of the mean) to 90/40. Sample sizes needing to meet the relative precision targets were based on estimates of coefficients of variation obtained from the 2006-08 Small Commercial Contract Evaluation.

The sample design was developed early on in the evaluation cycle when only 2010 participation data was available. Therefore, there was some uncertainty in the levels of participation that would occur, and if there would even be enough participants to support the desired sample size. The sample design was revisited on a quarterly basis as new tracking data became available and sample sizes were adjusted accordingly. This also involved adding new segments as new programs were introduced (such as SDG&E's direct installation program).

Table G-1 through Table G-7 below present the on-site sample size for each HIM, along with the targeted range of relative precision for estimating annual operating hours. As shown below, not every combination of HIM and Gross Program Group are targeted for evaluation, only those contributing a significant amount of savings. Altogether, 48 combinations of HIM and Gross Program Group are being sampled.

Table G-1: CFL Basic On-site Sample Design by Gross Program Group

HIM = CFL Basic	Unique Sites	Total Savings		Savings as a % of Non-res Downstream Lighting		Sample Design	
Gross Program Group	**N**	**GWh**	**MW**	**kWh**	**kW**	**n**	**90% CI**
PG&E Deemed	9	0.1	0.0	0.0%	0.0%	-	
PG&E Custom	3	0.1	0.0	0.0%	0.0%	-	
PG&E 3P	789	9.6	1.3	0.4%	0.3%	15	90/30-40
PG&E LGP/DI	7,018	38.3	6.3	1.8%	1.3%	35	90/15-20
SCE DI	25,969	26.1	5.2	1.2%	1.1%	35	90/15-20
SCE Deemed	69	1.1	0.2	0.1%	0.0%	-	
SCE Custom	-	-	-	0.0%	0.0%	-	
SCE 3P	541	2.0	0.4	0.1%	0.1%	-	
SCE LGP	109	0.4	0.1	0.0%	0.0%	-	
SDGE DI	2,347	2.8	0.6	0.1%	0.1%	15	90/30-40
SDGE Deemed	118	1.3	0.2	0.1%	0.0%	15	90/30-40
SDGE Custom	2	0.1	0.0	0.0%	0.0%	-	
SDGE 3P/LGP	1,057	1.8	0.3	0.1%	0.1%	15	90/30-40
Statewide	**38,031**	**83.6**	**14.6**	**3.8%**	**3.1%**	**130**	**90/15**

Table G-2: CFL Reflector On-site Sample Design by Gross Program Group

HIM = CFL Reflector	Unique Sites	Total Savings		Savings as a % of Non-res Downstream Lighting		Sample Design	
Gross Program Group	**N**	**GWh**	**MW**	**kWh**	**kW**	**n**	**90% CI**
PG&E Deemed	178	5.7	1.1	0.3%	0.2%	15	90/30-40
PG&E Custom	-	-	-	0.0%	0.0%	-	
PG&E 3P	13	0.3	0.0	0.0%	0.0%	-	
PG&E LGP/DI	1,068	4.4	0.9	0.2%	0.2%	15	90/30-40
SCE DI	10,744	23.9	4.8	1.1%	1.0%	35	90/15-20
SCE Deemed	445	5.7	1.1	0.3%	0.2%	15	90/30-40
SCE Custom	-	-	-	0.0%	0.0%	-	
SCE 3P	16	0.0	0.0	0.0%	0.0%	-	
SCE LGP	116	0.7	0.1	0.0%	0.0%	-	
SDGE DI	847	1.7	0.4	0.1%	0.1%	15	90/30-40
SDGE Deemed	107	1.9	0.4	0.1%	0.1%	15	90/30-40
SDGE Custom	-	-	-	0.0%	0.0%	-	
SDGE 3P/LGP	-	-	-	0.0%	0.0%	-	
Statewide	**13,534**	**44.3**	**8.8**	**2.0%**	**1.9%**	**110**	**90/15**

Table G-3: High Bay Fluorescent On-site Sample Design by Gross Program Group

HIM = High Bay Fluorescent	**Unique Sites**	**Total Savings**		**Savings as a % of Non-res Downstream Lighting**		**Sample Design**	
Gross Program Group	**N**	**GWh**	**MW**	**kWh**	**kW**	**n**	**90% CI**
PG&E Deemed	2,333	137.8	32.1	6.3%	6.8%	30	90/15-20
PG&E Custom	-	-	-	0.0%	0.0%	-	
PG&E 3P	243	8.8	1.8	0.4%	0.4%	15	90/30-40
PG&E LGP/DI	1,066	20.4	5.1	0.9%	1.1%	20	90/20-30
SCE DI	1,737	13.4	3.3	0.6%	0.7%	20	90/20-30
SCE Deemed	4,635	247.6	58.0	11.3%	12.3%	30	90/15-20
SCE Custom	-	-	-	0.0%	0.0%	-	
SCE 3P	46	2.7	0.6	0.1%	0.1%	-	
SCE LGP	43	1.4	0.3	0.1%	0.1%	-	
SDGE DI	-	-	-	0.0%	0.0%	-	
SDGE Deemed	466	15.3	3.8	0.7%	0.8%	20	90/20-30
SDGE Custom	-	-	-	0.0%	0.0%	-	
SDGE 3P/LGP	-	-	-	0.0%	0.0%	-	
Statewide	**10,569**	**447.4**	**105.1**	**20.5%**	**22.3%**	**135**	**90/10**

Table G-4: HID On-site Sample Design by Gross Program Group

HIM = HID	Unique Sites	Total Savings		Savings as a % of Non-res Downstream Lighting		Sample Design	
Gross Program Group	**N**	**GWh**	**MW**	**kWh**	**kW**	**n**	**90% CI**
PG&E Deemed	72	2.9	0.7	0.1%	0.2%	15	90/30-40
PG&E Custom	18	3.9	0.6	0.2%	0.1%	-	
PG&E 3P	378	1.3	0.2	0.1%	0.0%	-	
PG&E LGP/DI	841	34.2	4.5	1.6%	1.0%	35	90/15-20
SCE DI	-	-	-	0.0%	0.0%	-	
SCE Deemed	86	5.3	1.1	0.2%	0.2%	15	90/30-40
SCE Custom	25	4.1	0.5	0.2%	0.1%	-	
SCE 3P	24	1.0	0.1	0.0%	0.0%	-	
SCE LGP	10	0.3	0.0	0.0%	0.0%	-	
SDGE DI	6	0.1	0.0	0.0%	0.0%	-	
SDGE Deemed	97	2.4	0.6	0.1%	0.1%	15	90/30-40
SDGE Custom	2	1.6	0.3	0.1%	0.1%	-	
SDGE 3P/LGP	1	0.1	0.0	0.0%	0.0%	-	
Statewide	**1,560**	**57.1**	**8.7**	**2.6%**	**1.8%**	**80**	**90/15**

Table G-5: Delamping On-site Sample Design by Gross Program Group

HIM = Linear Delamping	Unique Sites	Total Savings		Savings as a % of Non-res Downstream Lighting		Sample Design	
Gross Program Group	**N**	**GWh**	**MW**	**kWh**	**kW**	**n**	**90% CI**
PG&E Deemed	1,421	20.9	5.0	1.0%	1.1%	20	90/20-30
PG&E Custom	-	-	-	0.0%	0.0%	-	
PG&E 3P	949	11.8	1.6	0.5%	0.3%	15	90/30-40
PG&E LGP/DI	4,761	41.1	10.4	1.9%	2.2%	20	90/20-30
SCE DI	16,202	73.5	18.0	3.4%	3.8%	30	90/15-20
SCE Deemed	3,475	64.3	16.9	2.9%	3.6%	30	90/15-20
SCE Custom	5	0.2	0.0	0.0%	0.0%	-	
SCE 3P	1,112	37.2	4.1	1.7%	0.9%	20	90/20-30
SCE LGP	350	2.1	0.5	0.1%	0.1%	-	
SDGE DI	315	1.0	0.2	0.0%	0.1%	-	
SDGE Deemed	790	8.4	1.9	0.4%	0.4%	20	90/20-30
SDGE Custom	-	-	-	0.0%	0.0%	-	
SDGE 3P/LGP	-	-	-	0.0%	0.0%	-	
Statewide	**29,380**	**260.4**	**58.8**	**11.9%**	**12.5%**	**155**	**90/10**

Table G-6: Linear Fluorescent On-site Sample Design by Gross Program Group

HIM = Linear Fluorescent	Unique Sites	Total Savings		Savings as a % of Non-res Downstream Lighting		Sample Design	
Gross Program Group	**N**	**GWh**	**MW**	**kWh**	**kW**	**n**	**90% CI**
PG&E Deemed	3,195	41.7	9.8	1.9%	2.1%	20	90/20-30
PG&E Custom	586	41.8	8.4	1.9%	1.8%	20	90/20-30
PG&E 3P	1,665	23.1	3.1	1.1%	0.7%	20	90/20-30
PG&E LGP/DI	10,817	201.1	45.6	9.2%	9.7%	30	90/15-20
SCE DI	46,721	127.0	30.6	5.8%	6.5%	30	90/15-20
SCE Deemed	6,386	50.9	12.2	2.3%	2.6%	20	90/20-30
SCE Custom	669	64.8	11.4	3.0%	2.4%	20	90/20-30
SCE 3P	1,389	36.3	5.5	1.7%	1.2%	20	90/20-30
SCE LGP	720	17.4	4.0	0.8%	0.8%	20	90/20-30
SDGE DI	5,108	25.9	6.3	1.2%	1.3%	20	90/20-30
SDGE Deemed	1,949	25.2	5.6	1.2%	1.2%	20	90/20-30
SDGE Custom	41	2.5	0.4	0.1%	0.1%	20	90/20-30
SDGE 3P/LGP	253	43.0	7.2	2.0%	1.5%	20	90/20-30
Statewide	**79,499**	**700.6**	**150.1**	**32.1%**	**31.8%**	**280**	**90/10**

Table G-7: Occupancy Sensor On-Site Sample Design by Gross Program Group

HIM = Occupancy Sensor	Unique Sites	Total Savings		Savings as a % of Non-res Downstream Lighting		Sample Design	
Gross Program Group	**N**	**GWh**	**MW**	**kWh**	**kW**	**n**	**90% CI**
PG&E Deemed	2,746	50.7	11.0	2.3%	2.3%	25	90/20-30
PG&E Custom	121	5.9	0.6	0.3%	0.1%	-	
PG&E 3P	390	4.3	0.7	0.2%	0.1%	15	90/30-40
PG&E LGP/DI	2,037	4.1	0.7	0.2%	0.1%	15	90/30-40
SCE DI	30,015	15.6	11.9	0.7%	2.5%	25	90/20-30
SCE Deemed	5,460	103.3	49.0	4.7%	10.4%	35	90/15-20
SCE Custom	127	9.5	1.2	0.4%	0.2%	-	
SCE 3P	736	8.6	5.3	0.4%	1.1%	-	
SCE LGP	403	2.7	1.0	0.1%	0.2%	-	
SDGE DI	1,071	0.3	0.1	0.0%	0.0%	-	
SDGE Deemed	905	9.6	2.0	0.4%	0.4%	25	90/20-30
SDGE Custom	-	-	-	0.0%	0.0%	-	
SDGE 3P/LGP	-	-	-	0.0%	0.0%	-	
Statewide	**44,011**	**214.6**	**83.3**	**9.8%**	**17.7%**	**140**	**90/15**

Table G-8 below summarizes the resulting sample design. Sample sizes are shown by HIM, IOU and Gross Program Type.

Table G-8: Summary of On-Site Sample Design by HIM and Gross Program Group

Gross Program Group	CFL Basic	CFL Reflector	Linear	Delamp	High Bay	Occ Sensors	HIDs	Total
PG&E Deemed	-	15	20	20	30	25	15	125
PG&E Custom	-	-	20	-	-	-	-	20
PG&E 3P	15	-	20	15	15	15	-	80
PG&E LGP/DI	35	15	30	20	20	15	35	170
PG&E TOTAL	**50**	**30**	**90**	**55**	**65**	**55**	**50**	**395**
SCE DI	35	35	30	30	20	25	-	175
SCE Deemed	-	15	20	30	30	35	15	145
SCE Custom	-	-	20	-	-	-	-	20
SCE 3P	-	-	20	20	-	-	-	40
SCE LGP	-	-	20	-	-	-	-	20
SCE Total	**35**	**50**	**110**	**80**	**50**	**60**	**15**	**400**
SDGE DI	15	15	20	-	-	-	-	50
SDGE Deemed	15	15	20	20	20	25	15	130
SDGE Custom	-	-	20	-	-	-	-	20
SDGE 3P/LGP	15	-	20	-	-	-	-	35
SDG&E Total	**45**	**30**	**80**	**20**	**20**	**25**	**15**	**235**
Statewide	**130**	**110**	**280**	**155**	**135**	**140**	**80**	**1,030**

One further objective of the sample design was that the above sample sizes would include 60 participants that were identified as large calculated projects. These customers were defined as participants that installed calculated lighting measures that were at least 250,000 kWh in size. As will be shown later, we were unable to sample 60 large calculated sites as their population was very limited. This was also true of other segments, as discussed later.

Section G.3.3 below discusses the data collection content for the on-sites, but to summarize, the on-sites attempted to collect verification data, pre- and post-wattage data, and pre and post self-report operating schedules. Lighting loggers were also installed in a majority of the sites. The 2006-08 Small Commercial evaluation developed a set of adjustment factors that can be used to adjust self-reported usage schedules to more accurately reflect actual usage, and develop use shapes. Therefore, this evaluation relied on those adjustment factors to develop pre- and post-retrofit use shapes whenever possible, rather than install new lighting logger samples. Linear fluorescent, delamping and basic CFL measures were the primary focus of the 2006-08 lighting

logger study. Therefore, we only installed loggers for these measures within market segments that were not reliably estimated in 2006-08. All CFLs with reflectors, high bay fluorescent lighting, HIDs, and measures controlled by occupancy sensors were monitored. Furthermore, the 2006-08 Small Commercial Lighting Logger sample focused more on medium and small customers. As a result, larger basic CFL, linear fluorescent and delamping projects were not well represented in the 2006-08 sample and were therefore monitored as part of this study. A threshold for project size of 100,000 kWh of ex-ante savings was used, such that any customers with installations above that size were monitored (less than 5% of the 2006-08 projects in the logger sample were above this size).

Sample Design for RUL

The RUL analysis was based on self-report data from the participant phone survey, which was used to develop the net-to-gross ratios. The sample design for the phone survey is discussed in Appendix H.

G.3.2 Achieved Primary Data Collection

On-Site Survey Data Collection Summary

Table G-9 through Table G-12 below summarize the resulting on-site data collection activity conducted for this evaluation. Table G-9 summarizes the number of sites visited for the evaluation. However, many sites that were visited resulted in the auditor not being able to perform the on-site audit. Reasons for this include uncooperative site contacts, non-responsive contacts, corporate policies Itron legal could not follow, and business privacy and security. Therefore, Table G-10 summarizes the number of sites that were considered “lost” as data was not collected for the evaluation. Table G-11 summarizes the number of sites for which data was collected that supported the development of installation rates, wattage estimates, and operating schedules. Totals are shown for both unique sites and the total number of site-HIM combinations that were visited. On average, more than two HIMs per site were evaluated. As mentioned above, not all sites included the installation of lighting loggers. Table G-12 summarizes the number of sites for which lighting loggers were installed for the use of developing operating profiles. Over 80% of all HIMs that were evaluated on site were monitored. Sample sizes are shown by HIM, IOU and Gross Program Type.

Table G-9: Number of On-sites Conducted by HIM and Gross Program Group

Gross Program Group	CFL Basic	CFL Reflector	Linear	Delamp	High Bay	Occ Sensors	HIDs	Total	Unique
PG&E Deemed	1	15	46	25	46	43	5	**181**	**100**
PG&E Custom	1	1	22	5	-	5	1	**35**	**24**
PG&E 3P	27	1	40	26	26	17	-	**137**	**63**
PG&E LGP/DI	76	35	105	64	33	40	11	**364**	**139**
PG&E Total	**105**	**52**	**210**	**120**	**104**	**104**	**17**	**712**	**316**
SCE DI	71	40	105	27	19	79	-	**341**	**119**
SCE Deemed	-	17	58	42	48	57	7	**229**	**116**
SCE Custom	-	-	23	3	-	3	2	**31**	**25**
SCE 3P	18	-	41	15	-	15	-	**89**	**45**
SCE LGP	2	5	25	9	2	8	-	**51**	**27**
SCE Total	**91**	**62**	**248**	**95**	**69**	**162**	**9**	**736**	**323**
SDGE DI	33	23	58	2	-	10	-	**126**	**59**
SDGE Deemed	11	9	56	25	23	37	4	**165**	**80**
SDGE Custom	2	1	2	1	-	-	1	**7**	**5**
SDGE 3P/LGP	14	-	22	1	2	2	-	**41**	**35**
SDG&E Total	**60**	**33**	**136**	**29**	**25**	**49**	**5**	**337**	**170**
SW DI	104	63	163	29	19	89	-	**467**	**178**
SW Deemed	12	41	160	92	117	137	16	**575**	**296**
SW Custom	3	2	47	9	-	8	4	**73**	**54**
SW 3P	59	1	103	42	28	34	-	**267**	**143**
SW LGP	78	40	130	73	35	48	11	**415**	**166**
Statewide Total	**256**	**147**	**594**	**244**	**198**	**315**	**31**	**1,785**	**809**

Table G-10: Number of Lost Site Visits by HIM and Gross Program Group

Gross Program Group	CFL Basic	CFL Reflector	Linear	Delamp	High Bay	Occ Sensors	HIDs	Total	Unique
PG&E Deemed	-	3	2	-	4	4	1	**14**	**8**
PG&E Custom	-	-	4	-	-	-	-	**4**	**4**
PG&E 3P	2	-	2	1	2	1	-	**8**	**5**
PG&E LGP/DI	14	3	13	3	2	7	8	**50**	**23**
PG&E Total	**16**	**6**	**20**	**4**	**8**	**12**	**9**	**75**	**39**
SCE DI	2	1	3	1	-	3	-	**10**	**4**
SCE Deemed	-	1	1	-	5	4	1	**12**	**6**
SCE Custom	-	-	7	-	-	2	-	**9**	**7**
SCE 3P	1	-	1	1	-	-	-	**3**	**1**
SCE LGP	-	-	1	-	-	-	-	**1**	**1**
SCE Total	**3**	**2**	**13**	**2**	**5**	**9**	**1**	**35**	**18**
SDGE DI	1	-	5	-	-	1	-	**7**	**5**
SDGE Deemed	1	-	2	2	-	4	1	**10**	**7**
SDGE Custom								**0**	**0**
SDGE 3P/LGP	4	-	12	-	-	-	-	**16**	**16**
SDG&E Total	**6**	**-**	**18**	**2**	**-**	**5**	**1**	**32**	**25**
SW DI	3	1	8	1	-	4	-	**17**	**9**
SW Deemed	1	4	5	2	9	12	3	**36**	**21**
SW Custom	-	-	11	-	-	2	-	**13**	**11**
SW 3P	7	-	15	2	2	1	-	**27**	**22**
SW LGP	14	3	14	3	2	7	8	**51**	**24**
Statewide Total	**25**	**8**	**51**	**8**	**13**	**26**	**11**	**142**	**82**

Table G-11: Number of On-sites Used in the Evaluation by HIM and Gross Program Group

Gross Program Group	CFL Basic	CFL Reflector	Linear	Delamp	High Bay	Occ Sensors	HIDs	Total	Unique
PG&E Deemed	1	12	44	25	42	39	4	**167**	**92**
PG&E Custom	1	1	18	5	-	5	1	**31**	**20**
PG&E 3P	25	1	38	25	24	16	-	**129**	**58**
PG&E LGP/DI	62	32	92	61	31	33	3	**314**	**116**
PG&E TOTAL	**89**	**46**	**190**	**116**	**96**	**92**	**8**	**637**	**277**
SCE DI	69	39	102	26	19	76	-	**331**	**115**
SCE Deemed	-	16	57	42	43	53	6	**217**	**110**
SCE Custom	-	-	16	3	-	1	2	**22**	**18**
SCE 3P	17	-	40	14	-	15	-	**86**	**44**
SCE LGP	2	5	24	9	2	8	-	**50**	**26**
SCE Total	**88**	**60**	**235**	**93**	**64**	**153**	**8**	**701**	**305**
SDGE DI	32	23	53	2	-	9	-	**119**	**54**
SDGE Deemed	10	9	54	23	23	33	3	**155**	**73**
SDGE Custom	2	1	2	1	-	-	1	**7**	**5**
SDGE 3P/LGP	10	-	10	1	2	2	-	**25**	**19**
SDG&E Total	**54**	**33**	**118**	**27**	**25**	**44**	**4**	**305**	**145**
SW DI	101	62	155	28	19	85	-	**450**	**169**
SW Deemed	11	37	155	90	108	125	13	**539**	**275**
SW Custom	3	2	36	9	-	6	4	**60**	**43**
SW 3P	52	1	88	40	26	33	-	**240**	**121**
SW LGP	64	37	116	70	33	41	3	**364**	**142**
Statewide Total	**231**	**139**	**543**	**236**	**185**	**289**	**20**	**1,643**	**727**

Table G-12: Number of On-sites with Lighting Loggers Installed by HIM and Gross Program Group

Gross Program Group	CFL Basic	CFL Reflector	Linear	Delamp	High Bay	Occ Sensors	HIDs	Total	Unique
PG&E Deemed	-	11	35	20	41	38	3	**148**	**80**
PG&E Custom	1	1	15	5	-	5	1	**28**	**17**
PG&E 3P	20	1	34	22	24	16	-	**117**	**52**
PG&E LGP/DI	51	27	74	50	30	33	5	**270**	**99**
PG&E TOTAL	**72**	**40**	**157**	**97**	**94**	**91**	**9**	**560**	**240**
SCE DI	55	34	79	18	18	66	-	**270**	**86**
SCE Deemed	-	14	41	29	40	49	6	**179**	**91**
SCE Custom	-	-	13	3	-	1	2	**19**	**15**
SCE 3P	17	-	36	14	-	13	-	**80**	**39**
SCE LGP	1	5	18	6	2	7	-	**39**	**20**
SCE Total	**73**	**53**	**184**	**69**	**60**	**136**	**8**	**583**	**245**
SDGE DI	12	14	27	1	-	8	-	**62**	**27**
SDGE Deemed	7	6	36	15	22	31	3	**120**	**54**
SDGE Custom	1	1	2	1	-	-	1	**6**	**4**
SDGE 3P/LGP	6	-	10	1	2	1	-	**20**	**15**
SDG&E Total	**26**	**21**	**74**	**18**	**24**	**40**	**4**	**207**	**94**
SW DI	67	48	106	19	18	74	-	**332**	**113**
SW Deemed	7	31	112	64	103	118	12	**447**	**225**
SW Custom	2	2	30	9	-	6	4	**53**	**36**
SW 3P	43	1	80	37	26	30	-	**217**	**106**
SW LGP	52	32	92	56	32	40	5	**309**	**119**
Statewide Total	**171**	**114**	**415**	**184**	**178**	**267**	**21**	**1,350**	**579**

Overall, 1,643 site-level HIMs were evaluated, compared to the target of 1,030. The large majority of target sample sizes at the HIM and Gross Program Group level were exceeded. For the sample sizes that were not met, it was due to having insufficient sample size to meet the targets. These tended to be in one of the CFL or HID HIMs or among participants in the Custom program.

Table G-13 through Table G-16 below summarize the number of on-site surveys completed for each IOU by HIM, Gross Program Group, and Claim Basis, in which sites are classified as those that have measures that are deemed, small/medium calculated, or large calculated (where large calculated sites have project level savings of 250,000 kWh or more). As mentioned above, the target was to conduct 60 on-sites among these large calculated sites. A total of 35 large calculated sites had data used in the evaluation, resulting in a total of 74 site level HIMs being evaluated, 71 of which were monitored.

Table G-13: On-Site Sample Sizes by HIM, Gross Program Group and Claim Basis for PG&E

IOU	Claim Basis	CFL Basic	CFL Reflector	Linear	Delamp	High Bay	Occ Sensors	HIDs	Total	Unique
PG&E										
PG&E Custom	Sm/Med Calculated	1	1	14	3		1	1	**21**	**14**
	Large Calculated			4	2		4		**10**	**6**
	Total Custom	**1**	**1**	**18**	**5**		**5**	**1**	**31**	**20**
PG&E Deemed	Deemed	1	12	44	25	42	39	4	**167**	**92**
	Total Deemed	**1**	**12**	**44**	**25**	**42**	**39**	**4**	**167**	**92**
PG&E 3rd Party	Deemed	24		36	24	24	15		**123**	**55**
	Sm/Med Calculated								**-**	
	Large Calculated	1	1	2	1		1		**6**	**3**
	Total 3rd Party	**25**	**1**	**38**	**25**	**24**	**16**		**129**	**58**
PG&E Local Govt Partner	Deemed	53	24	75	51	28	25		**256**	**98**
	Sm/Med Calculated	9	4	11	7	1	4	2	**38**	**15**
	Large Calculated	4	4	7	4	2	4	1	**26**	**8**
	Total LGP/DI	**62**	**32**	**92**	**61**	**31**	**33**	**3**	**314**	**116**
PG&E Total	**Deemed**	**78**	**36**	**154**	**100**	**93**	**79**	**4**	**544**	**242**
	Sm/Med Calculated	**10**	**5**	**25**	**10**	**1**	**5**	**3**	**59**	**29**
	Large Calculated	**5**	**5**	**13**	**7**	**2**	**9**	**1**	**42**	**17**
PG&E Total		**89**	**46**	**190**	**116**	**96**	**92**	**8**	**637**	**277**

Table G-14: On-Site Sample Sizes by HIM, Gross Program Group and Claim Basis for SCE

IOU	Claim Basis	CFL Basic	CFL Reflector	Linear	Delamp	High Bay	Occ Sensors	HIDs	Total	Unique
SCE										
SCE Custom	Sm/Med Calculated			11	2				**13**	**11**
	Large Calculated			5	1		1	2	**9**	**7**
	Total Custom			**16**	**3**		**1**	**2**	**22**	**18**
SCE DI	Deemed	69	39	102	26	19	76		**331**	**115**
	Total DI	**69**	**39**	**102**	**26**	**19**	**76**		**331**	**115**
SCE Deemed	Deemed		16	57	42	43	53	6	**217**	**110**
	Total Deemed		**16**	**57**	**42**	**43**	**53**	**6**	**217**	**110**
SCE 3rd Party	Deemed	17		38	12		13		**80**	**41**
	Sm/Med Calculated								**-**	
	Large Calculated			2	2		2		**6**	**3**
	Total 3rd Party	**17**		**40**	**14**		**15**		**86**	**44**
SCE Local Govt Partner	Deemed	2	5	22	8	2	6		**45**	**23**
	Sm/Med Calculated								**-**	
	Large Calculated			2	1		2		**5**	**3**
	Total LGP	**2**	**5**	**24**	**9**	**2**	**8**		**50**	**26**
SCE Total	**Deemed**	**88**	**60**	**217**	**88**	**64**	**148**	**6**	**671**	**285**
	Sm/Med Calculated			**11**	**2**				**13**	**11**
	Large Calculated			**9**	**4**		**5**	**2**	**20**	**13**
SCE Total		**88**	**60**	**235**	**93**	**64**	**153**	**8**	**701**	**305**

Table G-15: On-Site Sample Sizes by HIM, Gross Program Group and Claim Basis for SDG&E

IOU	Claim Basis	CFL Basic	CFL Reflector	Linear	Delamp	High Bay	Occ Sensors	HIDs	Total	Unique
SDG&E										
SDG&E Custom	Sm/Med Calculated	2			1				**3**	**3**
	Large Calculated		1	2				1	**4**	**2**
	Total Custom	**2**	**1**	**2**	**1**			**1**	**7**	**5**
SDG&E DI	Deemed	32	23	53	2		9		**119**	**54**
	Total DI	**32**	**23**	**53**	**2**		**9**		**119**	**54**
SDG&E Deemed	Deemed	10	9	54	23	23	33	3	**155**	**73**
	Total Deemed	**10**	**9**	**54**	**23**	**23**	**33**	**3**	**155**	**73**
SDG&E LGP/ 3rd Party	Deemed	9							**9**	**9**
	Sm/Med Calculated			7			1		**8**	**7**
	Large Calculated	1		3	1	2	1		**8**	**3**
	Total 3rd Party	**10**		**10**	**1**	**2**	**2**		**25**	**19**
SDG&E Total	**Deemed**	**51**	**32**	**107**	**25**	**23**	**42**	**3**	**283**	**133**
	Sm/Med Calculated	**2**		**7**	**1**		**1**		**11**	**10**
	Large Calculated	**1**	**1**	**5**	**1**	**2**	**1**	**1**	**12**	**5**
SDG&E Total		**54**	**33**	**118**	**27**	**25**	**44**	**4**	**305**	**145**

Table G-16: On-Site Sample Sizes by HIM, Gross Program Group and Claim Basis – Statewide

IOU	Claim Basis	CFL Basic	CFL Reflector	Linear	Delamp	High Bay	Occ Sensors	HIDs	Total	Unique
Statewide										
Statewide Custom	Sm/Med Calculated	3	1	25	6		1	1	**37**	**28**
	Large Calculated		1	11	3		5	3	**23**	**15**
	Total Custom	**3**	**2**	**36**	**9**		**6**	**4**	**60**	**43**
Statewide DI	Deemed	101	62	155	28	19	85		**450**	**169**
	Total DI	**101**	**62**	**155**	**28**	**19**	**85**		**450**	**169**
Statewide Deemed	Deemed	11	37	155	90	108	125	13	**539**	**275**
	Total Deemed	**11**	**37**	**155**	**90**	**108**	**125**	**13**	**539**	**275**
Statewide 3rd Party	Deemed	50		74	36	24	28		**212**	**105**
	Sm/Med Calculated			7			1		**8**	**7**
	Large Calculated	2	1	7	4	2	4		**20**	**9**
	Total	**52**	**1**	**88**	**40**	**26**	**33**		**240**	**121**
Statewide Local Govt Partner	Deemed	55	29	97	59	30	31		**301**	**121**
	Sm/Med Calculated	9	4	11	7	1	4	2	**38**	**15**
	Large Calculated	4	4	9	5	2	6	1	**31**	**11**
	Total	**64**	**37**	**116**	**70**	**33**	**41**	**3**	**364**	**142**
Statewide Total	**Deemed**	**217**	**128**	**478**	**213**	**180**	**269**	**13**	**1,498**	**660**
	Sm/Med Calculated	**12**	**5**	**43**	**13**	**1**	**6**	**3**	**83**	**50**
	Large Calculated	**6**	**6**	**27**	**12**	**4**	**15**	**4**	**74**	**35**
Statewide Total		**231**	**139**	**543**	**236**	**185**	**289**	**20**	**1,643**	**727**

For the sample of sites where lighting loggers were installed, the auditors attempted to log every activity area where the measures of interest were installed. Activity areas are defined as areas at the premise that have different operating schedules. However, site contacts restricted access to some areas at a few of the sites that were visited. Within each activity area, the lamps and fixtures that were logged were selected at random. Time-of-use lighting loggers were installed at the premise for up to twelve months to gather data, and seven months on average. On average, eight loggers per site were installed. Installation of logging equipment was also not always possible due to a variety of other reasons. Engineers were limited in their efforts to install monitoring equipment at sites where fixtures were too high and could not be reached, or were not accessible for any other reason, or where there was no place on a fixture to install a logger, or where there was too much ambient light to be able to logger efficiently. For some sites, when

fixtures were not accessible or when it was not efficient or accurate to use TOU data logging (e.g. high bay fixtures controlled by integrated occupancy sensors), electric panel logging was performed. This method involved the installation of loggers in electric panels to capture circuit amp levels in five minute interval. For sites where monitoring was not feasible, data was still collected to support the verification analysis, and self-report data was obtained on the operating schedules.

Table G-17 summarizes the number of lighting loggers installed for the use of developing operating profiles. Lighting logger counts are shown by HIM, IOU and Gross Program Type. Note that occupancy sensors are not actually monitored, it is the equipment associated with the occupancy sensor that is monitored. Generally, the occupancy sensors are controlling rebated measures. Therefore, most of the 1,096 loggers listed in the table for occupancy sensors are also being counted towards the HIM being controlled. In total, 4,650 loggers were installed that represented 5,655 HIMs.

Table G-17: Number of Lighting Loggers Installed by HIM and Gross Program Group

Gross Program Group	CFL Basic	CFL Reflector	Linear	Delamp	High Bay	Occ Sensors	HIDs	Total
PG&E Deemed	1	29	243	49	150	224	11	**707**
PG&E Custom	1	-	126	10	-	26	-	**163**
PG&E 3P	49	6	205	57	86	75	-	**487**
PG&E LGP/DI	121	44	504	150	77	91	6	**997**
PG&E Total	**172**	**79**	**1,078**	**266**	**313**	**416**	**17**	**2,354**
SCE DI	81	55	379	73	41	157	-	**786**
SCE Deemed	-	63	326	73	187	275	29	**953**
SCE Custom	-	-	104	-	-	10	4	**118**
SCE 3P	37	-	309	45	-	69	-	**460**
SCE LGP	1	10	124	10	7	21	-	**173**
SCE Total	**119**	**128**	**1,242**	**201**	**235**	**532**	**33**	**2,490**
SDGE DI	19	28	131	-	-	10	-	**188**
SDGE Deemed	16	18	272	10	70	136	6	**528**
SDGE Custom	1	2	6	1	-	-	4	**14**
SDGE 3P/LGP	6	-	64	-	7	2	-	**81**
SDG&E Total	**42**	**48**	**473**	**11**	**77**	**148**	**10**	**811**
Statewide	**333**	**255**	**2,793**	**478**	**625**	**1,096**	**60**	**5,655**

Phone/RUL Survey Data Collection Summary

As discussed, the RUL analysis was based on self-report data from the participant phone survey, which was used to develop the net-to-gross ratios. The sample design for the phone survey is discussed in Appendix H.

G.3.3 On-Site Data Collection Content

Generally, the data collected at each site included both visual observations and measurements. At each site, the field auditors observed the following:

- ***Site Information.*** This data included basic information about the business and the building itself. The field auditors recorded business type, total floor area, conditioned floor area, floor area by space use type, business hours, and also verified the cooling system type and heating fuel type reported by the phone survey. The conditioning state (unconditioned, heated, cooled, etc.) of each space use area was also noted.
- ***Customer Reported Equipment Operating Schedule.*** In addition to business hours, the field auditors asked the customers about equipment operation schedules for each specific lighting circuit with rebated fixtures. These schedules were recorded as the percent "on" time in each hour of every week day. Seasonal schedule variations were also recorded. Customers that installed occupancy sensors were also asked about their operating schedules prior to the retrofit to support the development of pre-retrofit load shapes.
- ***Lighting Fixture-Lamp Data.*** Detailed information was collected for every rebated fixture and lamp. The primary collection method was visual verification, however the field auditors also asked for any documentation on site for the rebated lighting. The information recorded included lamp manufacturer and model number, lamp quantity, lamp length and diameter (if linear fluorescent), and ballast manufacturer and model number. It also included contextual data not directly affecting fixture power such as lighting application, mounting type, reflector, floor-to-fixture height, and control type. To gather baseline fixture-lamp information the auditor used four approaches for each measure on site. In each case the auditor tried to gather the same information as described above. The first was to locate fixtures that were not retrofitted but in the same area or type of area and matched the baseline fixture description. The second approach was to look for spare baseline lamps and ballasts in storage and maintenance areas. The third was to review any documentation regarding the previously installed lamps and fixtures. The forth approach was to gather the contacts' or maintenance staffs' best recollection of the baseline fixture-lamp information. If baseline information was not found for a measure the fields were left blank on the form to allow backfilling from high level analysis. It is also important to note that for many calculated measures, baseline wattage information is documented in the application.
- ***Lighting Inventory.*** The final component of the field observations was the lighting inventory. This task required the field auditors to identify the rebated/targeted equipment that corresponded to each lighting schedule gathered, or in the case of when loggers were installed, the inventory corresponding to the installed lighting loggers. As many loggers were used as needed to represent the different activity areas and schedules. The

information contained in the lighting inventory provided the "load" portion of determining the 8,760 load shape for the circuit. When combined with all of the other lighting circuits at the site, the load could be aggregated at both the site and space-type level.

- ***Time-of-Use Data Logging.*** This critical measurement involved leaving data loggers in place over some period to capture the typical usage of each defined lighting circuit. The field auditors attempted to install at least one data logger on every circuit feeding fixtures affected by the retrofit; often, a "backup" logger was also installed in case the primary logger failed. The information provided by the logger data provides the "shape" portion of determining the 8,760 load shape for this circuit. When combined with all of the other lighting circuits at the site, the shape can be aggregated at both the site and space-type level. Two types of TOU loggers were used for this study, a lumens logger with a photocell and a current logger with a built in current transducer. Detailed information about the loggers and installation procedures are contained in Appendix E.
- ***Electric Panel Data Logging.*** When fixtures were not accessible or when it was not efficient or accurate to use TOU data logging (e.g. high bay fixtures controlled by integrated occupancy sensors), electric panel logging was performed. This method involved the installation of loggers in electric panels to capture circuit amp levels in five minute interval. When combined with the circuit spot measurements, the data provided actual kW consumption and circuit load shapes. Detailed information about the panel metering loggers, tools, installation, and safety procedures are contained in Appendix E.
- ***Spot Measurements.*** When loggers were installed in electrical panels, spot measurements were performed on each rebated lighting circuit to measure the circuits full load wattage, amperage, voltage, and power factor. The spot measurements served three purposes. The first was to confirm the number of rebated fixtures believed to be on the circuit from a visual verification. The second was to determine the type of logger to install given the measurements taken. The third was to provide a real time measurement of circuit and fixture input wattage, amperage, voltage, and power factor to use as desired for analysis. Detailed procedures and equipment information for the spot measurements are contained in Appendix E.

G.3.4 Logger Data Validation

Logger data quality control was accomplished by using the HOBO logger data validation process and *viewLoggers* interface, an interactive program/tool developed by Itron that brought together contextual survey information and logger data information in a single interface, which enabled review and quality control disposition. Features of the interface include:

- ***Contextual Survey Data.*** These data include business type, activity area (space use) type, scanned survey form, and photos also available.

- ***Logger Data.*** This data is displayed in several formats: original raw transition data, two graphical displays a week at a time and over the entire installation period.
- ***Repair of Data with Issues.*** viewLoggers also includes code for correcting data that can be corrected, such as loggers that span a daylight savings time (DST) event and logger data with time-drift issues.
- ***Data Review Dispositions and Comments.*** These categories include general operation (always off, random, consistent, always on), etc.

Note that the data for every logger was manually reviewed and dispositions indicated by an analyst. Further discussion of this process can be found in Appendix F, Lighting Logger Data Validation Process.

There were a total of 3,504 loggers used in the analysis for this study. The loggers were installed over the period between January 2012 and January 2014. The loggers were installed at each site for an extended period in most cases. More than 75% of the loggers recorded lighting usage for more than 20 weeks. The bulk of the remaining loggers had at least six to eight weeks of monitored data. On average, loggers had 7 months of data. Figure G-1 provides the distribution of logger installation periods by months installed. These data do not include the HOBO loggers that were installed, which will be discussed in further detail below.

Figure G-1: Distribution of Loggers Installation Periods by Month

296 of the loggers used for analysis were HOBO loggers. Unlike the DENT and CT loggers, these loggers recorded 75 days of data from the time of installation. Care was taken to confirm that the logger had been installed throughout that 10 week cycle, and if it had not, the last read date was adjusted to reflect if the logger had been extracted early. A more in depth summary of the HOBO QC process can be found in Appendix F.

While the surveyors were on site removing the loggers, they also recorded extraction comments about the condition of the loggers and other extraction information needed for the quality control and analysis of the logger data. The data were downloaded from the loggers as soon as possible and the extraction information was entered into the survey database. Logger and computer date-times were recorded on the extraction form to help with correcting loggers with time-drift and DST issues.

With these data available, viewLoggers was used as the primary tool for the quality control process. As more and more loggers were processed, viewLoggers was modified to handle new issues and the interface improved, and more analysts were used to review the logger data. At the height of the data collection effort, a team of 4 to 6 analysts were reviewing and dispositioning logger data using viewLoggers.

Data Issues

As part of the validation process, the loggers were evaluated for known issues that could compromise the results. These included the following checks:

- Reviewing the data to see if a minimum number of weeks of data was recorded.
- Looking for large gaps in the data which might indicate that the logger was temporarily moved or that the battery failed or the logger fell from its position in the fixture.
- Scrutinizing the loggers for "flickering" and "sensitivity" issues.
- Evaluating the time/date stamps in the raw data files for time drift and inadvertent logger reset.
- Reviewing logger "pairs" (primary loggers with a back-up) to determine if the loggers were truly back-ups to each other. If the loggers were observed as not being on the same circuit then they were split in the database and the quantities of bulbs were distributed to each logger based on the information available on the form.

As the quality control process progressed a list of items became obvious to look for in the data. This section describes some of these items and gives a brief explanation of what this implies to the usability of the data. Further discussion of these issues can be found in Appendix F where the process of using viewLoggers is described.

- ***"False DST".*** A small number of loggers were synchronized before the change in Daylight Saving Time but installation after DST went into effect. This meant that all times recorded by the logger were an hour behind actual clock time for the entire installation period. This error was corrected, for the loggers identified as having this problem, automatically in viewLoggers.
- ***Time Drift.*** Some loggers experienced internal clock time drift issues, some minutes but others hours or days. This was observed during the Pilot Test period of the study the procedures were adjusted to catch logger data with this issue. As mentioned in Appendix F, viewLoggers was designed to catch this issue and make adjustments.
- ***Logger Reset.*** A feature of both of the Dent loggers used for this study is that when the reset button is held down for at least five seconds, the logger is completely cleared of data and internal clock set to 1/1/2001. During the first phase of the effort, this was not well known and some surveyors were heavy-handed with the reset button[1]. In addition, if a logger was cleared and then installed without ever being synchronized to the current

[1] This resulted in Dent creating a "firmware" change that removes the CLEAR feature from the logger.

time, the recorded data would be completely out of synch with real time. Fortunately in both cases, it was easy to use the actually installation date to correct this data.

The combination of the quality control process and issues with missing/lost loggers resulted in 3,504 of the 4,650 loggers being retained for analysis[2]. The three most prevalent issues accounting for the loss of logger data were:

- ***Lost, Missing, Stolen Loggers.*** The problem of theft was primarily encountered in lodging sites where the loggers were placed in guest rooms and could be easily removed by guests or cleaning staff; these loggers were never recovered. In total, there were over 170 loggers for which data was not able to be downloaded. Theft was the primarily issue in this category.
- ***Damaged Loggers.*** In several instances, the fixtures in which the loggers were installed were exposed to too much heat and the loggers were melted or otherwise damaged. Many of these instances were cases where, at some time during the monitoring period a CFL burned out and was replaced with a much hotter burning incandescent bulb, which melted the logger. Out of all the logger installations approximately 0.3% experienced damage of this type.

Figure G-2: Example of a Heat-Damaged Logger

- ***Failed/Faulty Loggers with Insufficient Data.*** Loggers that did not collect sufficient data may have been the result of faulty batteries, loggers falling off and/or not being replaced correctly, and/or other mechanical issues. Loggers were expected to record a minimum of three weeks of data with a target of at least eight weeks. If the logger recorded significantly fewer days than this, the entire logger data was discarded.

[2] As mentioned earlier, many of the installed loggers provided data for more than one measure. For example, if a logger was placed on a linear fluorescent fixture that was also controlled by a rebated occupancy sensor, that logger would support the analysis of both measures. Similarly, if two types of fixtures were operated by the same switch and only one logger was installed, that logger would be used to evaluate both types of fixtures. A total of 4,650 loggers were installed representing 5,655 HIMs. The 3,504 loggers used represented 4,275 HIMs

Insufficient data or no data having been recorded by the logger was the most significant reason why a logger was removed from the analysis.

Unusable Logger Data

As a result of the validation process, logger data were dispositioned as either good or unusable. The loggers dispositioned as unusable were marked as such due to the data issues previously described plus the additional issues described in this section. The dispositions described here are the ones available in viewLoggers (see Appendix F).

Table G-18 presents a summary of the reasons for exclusion and the number of loggers with each disposition. It should be noted that a single logger may be tagged with one or more of the dispositions listed below. The counts in the table represent all the conditions marked on a single logger and hence cannot be added-up to get a total count of loggers failed. Also note that, backup loggers were identified and, if shown to represent exactly the same usage as their primary counterpart, were also not included in the analysis to prevent double counting the number of bulbs in the study.

Table G-18: Reasons for Excluding Loggers from Analysis

Reason for Removal	Number of Loggers Marked with the Issue
Flickering	29
Sensitivity	82
Logger fell	39

The viewLogger dispositions are described in detail below:

- **Flickering.** This issue is identified as multiple transitions per second and/or minute for an extended period of time. Flickering can be caused from other light sources such as ambient daylighting. Flickering can also be caused by the sensitivity being set too close to the transition threshold. A failing bulb could also show up as flickering, however, if that could be determined it would not be a reason for disqualification of the logger data.
- **Sensitivity Issues.** Logger sensitivity settings are a manual process done by trial and error at the site. Loggers where the sensitivity is incorrectly set can produce different symptoms (i.e., Flickering, Always On, Always off). When conditions do not indicate the true state of the light being logged, then this flag is set and the logger is marked as bad. Extraction comments and the raw data can be very useful in troubleshooting this type of problem.

- **Logger Fell.** Issues with the magnets and other fastening devices cause problems with the loggers not staying where placed. As theses issue were discovered steps were taken to minimize the problem, but some loggers had to be disqualified before the issue was resolved.
- **Battery (Logger) Failed.** Battery failure was one of many reasons why a logger was disqualified. This is the only reason made available to the evaluator because it is the only one that can produce some results for validation. Heat damage was the other major failure observed with the loggers. The reason this is not an option for the validation process is that the data from a heat damaged logger is not downloadable.
- **Time Drift.** The issue of time drift is an interesting one. It seems the internal clocks in loggers with this problem do not cycle at the same rate as a normal clock. Many of the loggers like this were fixed with code, but some were so far off that it was felt that the fix would not be reliable. A few were marked as bad for this reason. This condition was auto corrected by the software when specific conditions were observed in the data. The evaluator could override this correction if deemed necessary, but in no instance was this done. If the correction did not work correctly the logger data was marked as unusable.
- **Other.** Some of the issues marked as other included:
  - Logger not recording data for periods of time not related to lamp or fixture failure.
  - Date of installation not consistent with other loggers at the site.
  - Data could not be downloaded from the logger.
  - Loggers were moved by people at the site
- **Lamp Failed.** This categorization is generally not used because the failure of a lamp does not constitute bad logger data. It constitutes the lack of use of a rebated lamp. This is generally what is being analyzed.
- **For Reset.** This condition was auto corrected by the viewLoggers when specific conditions were observed in the data. If viewLoggers detected that there was a problem with the logger being reset to factory defaults then this flag would be set. While it was possible for the analyst to override this correction, it was never set. If the correction was ineffective then the data was marked as unusable. It should be noted that this is not a condition for disqualification in and of itself. Unless the correction routine itself was ineffective, other issues must be specified to disqualify a logger needing the reset correction.

As a part of the logger validation process, roughly 15% of the loggers were marked as unusable. With the resources that were made available to the analysts, this process ran smoothly and efficiently. As the process progressed, lessons learned were applied to loggers previously processed, which ensured that the same criteria were applied to all loggers available for the analysis.

G.3.5 Logger Data Used in Analysis

Table G-19 presents the number of sites and number of loggers that were used in the analysis for each HIM by IOU and Gross Program Group. A total of 4,275 HIMs had logger data that was used in the analysis. As mentioned earlier, many of the installed loggers provided data for more than one measure. These 4,275 HIMs with logger data corresponded to 3,504 unique loggers.

Table G-19: Loggers Installed and Used in Analysis by HIM, IOU and Gross Program Group

HIM	Gross Program Group	PG&E		SCE		SDG&E		Total	
		Sites	Loggers	Sites	Loggers	Sites	Loggers	Sites	Loggers
CFL Basic									
	Custom	-	-	-	-	1	1	**1**	**1**
	Deemed	-	-	-	-	3	6	**3**	**6**
	DI	-	-	33	54	8	10	**41**	**64**
	3P	12	37	9	21	2	2	**23**	**60**
	LGP	30	81	1	1	-	-	**31**	**82**
Total CFL Basic		**42**	**118**	**43**	**76**	**14**	**19**	**99**	**213**
CFL Reflector									
	Custom	-	-	-	-	-	-	**-**	**-**
	Deemed	6	17	8	42	5	11	**19**	**70**
	DI	-	-	18	28	7	14	**25**	**42**
	3P	1	6	-	-	-	-	**1**	**6**
	LGP	17	28	2	2	-	-	**19**	**30**
Total CFL Reflector		**24**	**51**	**28**	**72**	**12**	**25**	**64**	**148**
High Bay									
	Custom	-	-	-	-	-	-	**-**	**-**
	Deemed	32	111	33	143	17	54	**82**	**308**
	DI	-	-	11	28	-	-	**11**	**28**
	3P	21	73	-	-	-	-	**21**	**73**
	LGP	22	53	1	6	-	-	**23**	**59**
Total High Bay		**75**	**237**	**45**	**177**	**17**	**54**	**137**	**468**
HID									
	Custom	-	-	2	4	-	-	**2**	**4**
	Deemed	4	10	4	13	3	5	**11**	**28**
	DI	-	-	-	-	-	-	**-**	**-**
	3P	-	-	-	-	-	-	**-**	**-**
	LGP	3	6	-	-	-	-	**3**	**6**
Total HID		**7**	**16**	**6**	**17**	**3**	**5**	**16**	**38**

Table G-19 (Cont'd): Loggers Installed and Used in Analysis by HIM, IOU and Gross Program Group

HIM	Gross Program Group	PG&E		SCE		SDG&E		Total	
		Sites	Loggers	Sites	Loggers	Sites	Loggers	Sites	Loggers
Linear Delamp									
	Custom	1	6	-	-	1	1	**2**	**7**
	Deemed	10	32	12	56	4	10	**26**	**98**
	DI	-	-	16	60	-	-	**16**	**60**
	3P	12	47	8	36	-	-	**20**	**83**
	LGP	24	113	4	7	-	-	**28**	**120**
Total Linear Delamp		**47**	**198**	**40**	**159**	**5**	**11**	**92**	**368**
Linear									
	Custom	14	97	13	91	-	-	**27**	**188**
	Deemed	31	181	37	272	31	219	**99**	**672**
	DI	-	-	68	288	23	97	**91**	**385**
	3P	32	147	32	231	7	52	**71**	**430**
	LGP	64	402	16	98	-	-	**80**	**500**
Total Linear		**141**	**827**	**166**	**980**	**61**	**368**	**368**	**2,175**
Occ Sensor									
	Custom	5	22	1	10	-	-	**6**	**32**
	Deemed	37	180	44	217	24	98	**105**	**495**
	DI	-	-	53	110	6	8	**59**	**118**
	3P	15	67	12	56	1	2	**28**	**125**
	LGP	25	71	6	17	-	-	**31**	**88**
Total Occ Sensor		**82**	**340**	**116**	**410**	**31**	**108**	**229**	**858**
Total									
	Custom	**15**	**125**	**15**	**105**	**2**	**2**	**32**	**232**
	Deemed	**75**	**531**	**84**	**743**	**49**	**403**	**208**	**1,677**
	DI	**-**	**-**	**86**	**568**	**23**	**129**	**109**	**697**
	3P	**49**	**384**	**35**	**344**	**9**	**56**	**93**	**784**
	LGP	**90**	**754**	**18**	**131**	**-**	**-**	**108**	**885**
Total		**224**	**1,794**	**234**	**1,891**	**81**	**590**	**539**	**4,275**

Table G-20 presents the number of sites and number of loggers that were used in the analysis for each HIM by building type. Although the analysis was not conducted at the building type level, average annual operating hours will be presented at the statewide building type level by HIM.

Table G-20: Loggers Installed and Used in Analysis by HIM and Building Type

HIM Building Type	CFL Basic	CFL Reflector	Linear	Delamp	High Bay	Occ Sensors	HIDs	Total
Assembly								
# Sites	18	9	42	9	7	25	-	**59**
# Loggers	62	27	315	34	15	108	-	**561**
Education								
# Sites	15	-	45	13	-	20	-	**53**
# Loggers	36	-	349	57	-	113	-	**555**
Health/Medical - Clinic								
# Sites	10	10	21	-	-	12	-	**27**
# Loggers	15	18	100	-	-	43	-	**176**
Office								
# Sites	8	7	31	10	-	20	-	**47**
# Loggers	12	16	234	64	-	72	-	**398**
Other								
# Sites	13	10	34	12	19	19	4	**96**
# Loggers	33	35	167	39	82	72	11	**439**
Other Industrial								
# Sites	14	8	64	19	47	53	-	**104**
# Loggers	18	15	408	58	178	200	-	**877**
Restaurant								
# Sites	4	5	10	-	-	-	-	**16**
# Loggers	7	9	37	-	-	-	-	**53**
Retail								
# Sites	17	15	82	19	34	48	12	**122**
# Loggers	30	28	378	64	95	140	27	**762**
Warehouse								
# Sites	-	-	37	10	30	31	-	**56**
# Loggers	-	-	186	52	98	110	-	**446**
Total								
# Sites	**99**	**64**	**366**	**92**	**137**	**228**	**16**	**580**
# Loggers	**213**	**148**	**2,174**	**368**	**468**	**858**	**38**	**4,267**

G.3.6 On-site Data Used to Support Pre- and Post-Retrofit Wattage Estimates

As part of the lighting inventory, detailed information was collected for every rebated fixture and lamp configuration found on site. The information recorded included lamp manufacturer and model number, lamp quantity, lamp length and diameter (if linear fluorescent), and ballast manufacturer and model number. This information could be used to "look up" the

manufacturer's rated wattage for that fixture. The results of these lookups were used to develop post-retrofit wattage values for all measures found on site. For many of the high bay fluorescent installations, panel metering was performed as discussed above, and spot watt measurements were conducted. These spot watt measurements provided another source of information for post-retrofit wattages.

To develop pre-retrofit wattage values, a combination of approaches was utilized. If any of the equipment that was replaced was still on site, then similar information was gathered such that a lookup could be performed. If there was equipment still in place that had not been retrofitted that was reported to be the same as that replaced, then similar information was gathered on that equipment, and used to estimate pre-retrofit wattage. If no existing equipment was found on site, then customer self-report information was used to estimate wattages.

Table G-21 through Table G-26 present the number of sites visited and the number of lamps or fixtures where either pre- or post-retrofit wattage information was gathered. Results are presented for each HIM by Gross Program Group. Counts are provided separately for spot watt measurements compared to all other observations where wattage was gathered as discussed above.

Table G-21: Number of Wattage Observations Performed by Gross Program Group for CFL Basic

Gross Program Group	Sites	Pre-Retrofit Wattage Observations	Post-Retrofit Wattage Observations
PG&E Deemed	1	-	-
PG&E Custom	1	-	3
PG&E 3P	25	52	63
PG&E LGP/DI	62	90	122
PG&E Total	**89**	**142**	**188**
SCE DI	69	51	70
SCE Deemed			
SCE Custom			
SCE 3P	17	21	20
SCE LGP	2	2	2
SCE Total	**88**	**74**	**92**
SDGE DI	32	7	33
SDGE Deemed	10	7	8
SDGE Custom	2	1	2
SDGE 3P/LGP	10	8	12
SDG&E Total	**54**	**23**	**55**
SW DI	101	58	103
SW Deemed	11	7	8
SW Custom	3	1	5
SW 3P	52	81	95
SW LGP	64	92	124
Statewide	**231**	**239**	**335**

Table G-22: Number of Wattage Observations Performed by Gross Program Group for CFL Reflectors

Gross Program Group	Sites	Pre-Retrofit Wattage Observations	Post-Retrofit Wattage Observations
PG&E Deemed	12	6	9
PG&E Custom	1	-	1
PG&E 3P	1	13	13
PG&E LGP/DI	32	34	46
PG&E Total	**46**	**53**	**69**
SCE DI	39	25	39
SCE Deemed	16	12	14
SCE Custom			
SCE 3P			
SCE LGP	5	5	6
SCE Total	**60**	**42**	**59**
SDGE DI	23	4	22
SDGE Deemed	9	4	9
SDGE Custom	1	-	1
SDGE 3P/LGP			
SDG&E Total	**33**	**8**	**32**
SW DI	62	29	61
SW Deemed	37	22	32
SW Custom	2	-	2
SW 3P	1	13	13
SW LGP	37	39	52
Statewide	**139**	**103**	**160**

Table G-23: Number of Wattage Observations Performed by Gross Program Group for Delamping and Occupancy Sensor

Gross Program Group	Delamping		Occupancy Sensor	
	Sites	Pre-Retrofit Wattage Observations	Sites	Post-Retrofit Wattage Observations
PG&E Deemed	25	12	39	30
PG&E Custom	5	18	5	7
PG&E 3P	25	18	16	11
PG&E LGP/DI	61	59	33	54
PG&E Total	**116**	**107**	**92**	**102**
SCE DI	26	17	76	76
SCE Deemed	42	31	53	47
SCE Custom	3	6	1	-
SCE 3P	14	9	15	14
SCE LGP	9	8	8	9
SCE Total	**93**	**71**	**153**	**146**
SDGE DI	2	-	9	9
SDGE Deemed	23	7	33	28
SDGE Custom	1	1		
SDGE 3P/LGP	1	1	2	2
SDG&E Total	**27**	**9**	**44**	**39**
SW DI	28	17	85	85
SW Deemed	90	50	125	105
SW Custom	9	25	6	7
SW 3P	40	28	33	27
SW LGP	70	67	41	63
Statewide	**236**	**187**	**289**	**287**

Table G-24: Number of Spot Watt Measurements and Wattage Observations Performed by Gross Program Group for High Bay Lighting

Gross Program Group	Sites	Pre-Retrofit Wattage Observations	Post-Retrofit Wattage Observations	Post-Retrofit Spot Watt Measurements	Total Post Wattage Obs
PG&E Deemed	42	30	9	17	26
PG&E Custom					
PG&E 3P	24	21	3	14	17
PG&E LGP/DI	31	27	9	8	17
PG&E Total	**96**	**78**	**21**	**39**	**60**
SCE DI	19	11	2	-	2
SCE Deemed	43	44	17	24	41
SCE Custom					
SCE 3P					
SCE LGP	2	-	1	-	1
SCE Total	**64**	**55**	**20**	**24**	**44**
SDGE DI					
SDGE Deemed	23	14	-	10	10
SDGE Custom					
SDGE 3P/LGP	2	1	-	-	-
SDG&E Total	**25**	**15**	**-**	**10**	**10**
SW DI	19	11	2	-	2
SW Deemed	108	88	26	51	77
SW Custom					
SW 3P	26	22	3	14	17
SW LGP	33	27	10	8	18
Statewide	**185**	**148**	**41**	**73**	**114**

Table G-25: Number of Wattage Observations Performed by Gross Program Group for HID

Gross Program Group	Sites	Pre-Retrofit Wattage Observations	Post-Retrofit Wattage Observations
PG&E Deemed	4	2	4
PG&E Custom	1	-	1
PG&E 3P			
PG&E LGP/DI	3	3	3
PG&E Total	**8**	**5**	**8**
SCE DI			
SCE Deemed	6	6	6
SCE Custom	2	1	2
SCE 3P			
SCE LGP			
SCE Total	**8**	**7**	**8**
SDGE DI			
SDGE Deemed	3	2	2
SDGE Custom	1	-	1
SDGE 3P/LGP			
SDG&E Total	**4**	**2**	**3**
SW DI			
SW Deemed	13	10	12
SW Custom	4	1	4
SW 3P			
SW LGP	3	3	3
Statewide	**20**	**14**	**19**

Table G-26: Number of Spot Watt Measurements and Wattage Observations Performed by Gross Program Group for Linear Fluorescents

Gross Program Group	Sites	Pre-Retrofit Wattage Observations	Post-Retrofit Wattage Observations	Post-Retrofit Spot Watt Measurements	Total Post Wattage Obs
PG&E Deemed	44	34	43	5	48
PG&E Custom	18	42	42	3	45
PG&E 3P	38	29	40	1	41
PG&E LGP/DI	92	207	211	2	213
PG&E Total	**190**	**312**	**336**	**11**	**347**
SCE DI	102	101	144	1	145
SCE Deemed	57	64	78	-	78
SCE Custom	16	24	16	2	18
SCE 3P	40	56	62	-	62
SCE LGP	24	32	35	-	35
SCE Total	**235**	**277**	**335**	**3**	**338**
SDGE DI	53	18	81	1	82
SDGE Deemed	54	21	31	2	33
SDGE Custom	2	2	-	1	1
SDGE 3P/LGP	10	18	14	-	14
SDG&E Total	**118**	**59**	**126**	**4**	**130**
SW DI	155	119	225	2	227
SW Deemed	155	119	152	7	159
SW Custom	36	68	58	6	64
SW 3P	88	103	116	1	117
SW LGP	116	239	246	2	248
Statewide	**543**	**648**	**797**	**18**	**815**

Table G-27 through Table G-32 present the number of sites visited and the number of lamps or fixtures where either pre- or post-retrofit wattage information was gathered for each HIM by measure configuration or group.

Table G-27: Linear Fluorescent Manufacturer Look-Ups for Pre- and Post-Wattage Estimates by IOU and Configuration

IOU	Configuration	Pre-Retrofit Look-ups	Post-Retrofit Look-ups	Spot Watt Measure-ment	Total Post-Retrofit Obs
PGE	2FT-1L-T8 replacing 2FT-1L-T12	1	1	0	1
PGE	2FT-2L-T8 replacing 2FT-2L-T12	1	2	0	2
PGE	2FT-2L-T8 replacing 2FT-2L-T8	1	2	0	2
PGE	2FT-2L-T8 replacing 4FT-2L-T12	1	1	0	1
PGE	3FT-1L-T8 replacing 3FT-1L-T12	1	1	0	1
PGE	3FT-3L-T8 replacing 3FT-2L-T12	1	1	0	1
PGE	4FT-1L-T8 replacing 4FT-1L-T12	6	7	0	7
PGE	4FT-1L-T8 replacing 4FT-1L-T8	2	2	0	2
PGE	4FT-1L-T8 replacing 4FT-2L-T12	3	3	0	3
PGE	4FT-1L-T8 replacing 8FT-2L-T8	1	1	0	1
PGE	4FT-2L-T8 replacing <= 100W	0	1	0	1
PGE	4FT-2L-T8 replacing 101-175W	0	1	0	1
PGE	4FT-2L-T8 replacing 176-399W	1	1	0	1
PGE	4FT-2L-T8 replacing 400-600W	2	2	0	2
PGE	4FT-2L-T8 replacing 2FT-2L-T12	2	2	0	2
PGE	4FT-2L-T8 replacing 4FT-1L-T12	3	3	0	3
PGE	4FT-2L-T8 replacing 4FT-2L-T12	132	150	4	154
PGE	4FT-2L-T8 replacing 4FT-2L-T8	26	27	1	28
PGE	4FT-2L-T8 replacing 4FT-3L-T12	5	5	0	5
PGE	4FT-2L-T8 replacing 4FT-3L-T8	2	2	0	2
PGE	4FT-2L-T8 replacing 4FT-4L-T12	9	9	0	9
PGE	4FT-2L-T8 replacing 4FT-4L-T8	3	3	0	3
PGE	4FT-2L-T8 replacing 6FT-1L-T12	1	1	0	1
PGE	4FT-2L-T8 replacing 8FT-1L-T12	6	4	2	6
PGE	4FT-2L-T8 replacing 8FT-2L-T12	29	29	0	29
PGE	4FT-3L-T5 replacing 400-600W	1	0	1	1
PGE	4FT-3L-T8 replacing 176-399W	1	0	0	0
PGE	4FT-3L-T8 replacing 4FT-2L-T12	3	3	0	3
PGE	4FT-3L-T8 replacing 4FT-3L-T12	7	7	0	7
PGE	4FT-3L-T8 replacing 4FT-3L-T8	2	2	0	2
PGE	4FT-3L-T8 replacing 4FT-6L-T12	1	1	0	1
PGE	4FT-3L-T8 replacing 8FT-2L-T12	2	2	0	2
PGE	4FT-3L-T8 replacing 8FT-2L-T8	1	1	0	1
PGE	4FT-4L-T5 replacing 400-600W	3	0	1	1
PGE	4FT-4L-T8 replacing 400-600W	3	0	1	1

Table G-27 (Cont'd): Linear Fluorescent Manufacturer Look-Ups for Pre- and Post-Wattage Estimates by IOU and Configuration

IOU	Configuration	Pre-Retrofit Look-ups	Post-Retrofit Look-ups	Spot Watt Measure-ment	Total Post-Retrofit Obs
PGE	4FT-4L-T8 replacing 4FT-2L-T8	1	1	0	1
PGE	4FT-4L-T8 replacing 4FT-4L-T12	23	30	0	30
PGE	4FT-4L-T8 replacing 4FT-4L-T8	4	4	0	4
PGE	4FT-4L-T8 replacing 8FT-2L-T12	8	8	0	8
PGE	4FT-4L-T8 replacing 8FT-4L-T12	1	1	0	1
PGE	4FT-6L-T8 replacing 176-399W	2	0	1	1
PGE	4FT-6L-T8 replacing 400-600W	1	0	0	0
PGE	4FT-8L-T5 replacing 400-600W	1	0	0	0
PGE	8FT-1L-T8 replacing 8FT-1L-T12	1	2	0	2
PGE	8FT-1L-T8 replacing 8FT-2L-T12	0	1	0	1
PGE	8FT-2L-T8 replacing 8FT-2L-T12	6	10	0	10
SCE	2FT-1L-T8 replacing 2FT-1L-T12	1	2	0	2
SCE	2FT-1L-T8 replacing 2FT-1L-T8	1	1	0	1
SCE	2FT-2L-T8 replacing 2FT-2L-T12	4	6	0	6
SCE	2FT-2L-T8 replacing 2FT-2L-T8	4	4	0	4
SCE	2FT-2L-T8 replacing 2FT-4L-T12	0	1	0	1
SCE	2FT-2L-T8 replacing 4FT-1L-T8	1	1	0	1
SCE	2FT-2L-T8 replacing 4FT-2L-T8	2	2	0	2
SCE	2FT-4L-T8 replacing 2FT-4L-T12	1	1	0	1
SCE	3FT-1L-T8 replacing 3FT-1L-T12	1	2	0	2
SCE	3FT-1L-T8 replacing 3FT-2L-T12	1	1	0	1
SCE	3FT-2L-T8 replacing 3FT-2L-T12	0	2	0	2
SCE	4FT-1L-T5 replacing 4FT-2L-T8	1	1	0	1
SCE	4FT-1L-T8 replacing 4FT-1L-T12	11	13	0	13
SCE	4FT-1L-T8 replacing 4FT-1L-T8	3	3	0	3
SCE	4FT-1L-T8 replacing 4FT-2L-T12	3	3	0	3
SCE	4FT-1L-T8 replacing 4FT-2L-T8	1	1	0	1
SCE	4FT-1L-T8 replacing 4FT-4L-T8	1	1	0	1
SCE	4FT-2L-T5 replacing 4FT-4L-T12	1	1	0	1
SCE	4FT-2L-T8 replacing 101-175W	1	1	0	1
SCE	4FT-2L-T8 replacing 2FT-2L-T12	1	1	0	1
SCE	4FT-2L-T8 replacing 4FT-1L-T12	1	2	0	2
SCE	4FT-2L-T8 replacing 4FT-2L-T12	97	120	0	120
SCE	4FT-2L-T8 replacing 4FT-2L-T8	29	31	0	31
SCE	4FT-2L-T8 replacing 4FT-3L-T12	3	3	0	3

Table G-27 (Cont'd): Linear Fluorescent Manufacturer Look-Ups for Pre- and Post-Wattage Estimates by IOU and Configuration

IOU	Configuration	Pre-Retrofit Look-ups	Post-Retrofit Look-ups	Spot Watt Measure-ment	Total Post-Retrofit Obs
SCE	4FT-2L-T8 replacing 4FT-3L-T8	3	3	0	3
SCE	4FT-2L-T8 replacing 4FT-4L-T12	10	15	0	15
SCE	4FT-2L-T8 replacing 4FT-4L-T8	3	3	0	3
SCE	4FT-2L-T8 replacing 8FT-2L-T12	2	2	0	2
SCE	4FT-3L-T8 replacing 4FT-3L-T12	7	10	0	10
SCE	4FT-3L-T8 replacing 4FT-3L-T8	5	5	0	5
SCE	4FT-3L-T8 replacing 4FT-4L-T12	1	1	0	1
SCE	4FT-3L-T8 replacing 4FT-4L-T8	0	1	0	1
SCE	4FT-4L-T5 replacing 400-600W	4	0	1	1
SCE	4FT-4L-T8 replacing <= 100W	1	0	0	0
SCE	4FT-4L-T8 replacing 400-600W	1	0	0	0
SCE	4FT-4L-T8 replacing 4FT-2L-T12	2	2	0	2
SCE	4FT-4L-T8 replacing 4FT-2L-T8	1	1	0	1
SCE	4FT-4L-T8 replacing 4FT-4L-T12	29	44	0	44
SCE	4FT-4L-T8 replacing 4FT-4L-T8	12	12	1	13
SCE	4FT-4L-T8 replacing 8FT-2L-T12	5	5	0	5
SCE	4FT-6L-T5 replacing 400-600W	1	0	0	0
SCE	4FT-6L-T8 replacing 400-600W	1	0	0	0
SCE	4FT-8L-T5 replacing > 600W	1	0	1	1
SCE	8FT-1L-T8 replacing 4FT-1L-T12	0	1	0	1
SCE	8FT-1L-T8 replacing 8FT-1L-T12	4	5	0	5
SCE	8FT-1L-T8 replacing 8FT-2L-T12	1	1	0	1
SCE	8FT-2L-T8 replacing 4FT-4L-T12	0	1	0	1
SCE	8FT-2L-T8 replacing 8FT-2L-T12	12	16	0	16
SCE	8FT-2L-T8 replacing 8FT-2L-T8	1	1	0	1
SCE	8FT-2L-T8 replacing 8FT-4L-T12	1	1	0	1
SDGE	2FT-1L-T8 replacing 2FT-1L-T12	1	1	0	1
SDGE	2FT-2L-T8 replacing 2FT-2L-T12	1	1	0	1
SDGE	2FT-2L-T8 replacing 2FT-2L-T8	1	1	0	1
SDGE	2FT-4L-T8 replacing 2FT-4L-T8	0	1	0	1
SDGE	3FT-2L-T8 replacing 3FT-2L-T12	1	1	0	1
SDGE	4FT-1L-T8 replacing 4FT-1L-T12	2	5	0	5
SDGE	4FT-1L-T8 replacing 4FT-1L-T8	0	1	0	1
SDGE	4FT-1L-T8 replacing 4FT-2L-T8	1	1	0	1
SDGE	4FT-1L-T8 replacing 4FT-3L-T12	0	1	0	1

Table G-27 (Cont'd): Linear Fluorescent Manufacturer Look-Ups for Pre- and Post-Wattage Estimates by IOU and Configuration

IOU	Configuration	Pre-Retrofit Look-ups	Post-Retrofit Look-ups	Spot Watt Measure-ment	Total Post-Retrofit Obs
SDGE	4FT-1L-T8 replacing 8FT-2L-T12	0	1	0	1
SDGE	4FT-2L-T5 replacing > 600W	1	1	0	1
SDGE	4FT-2L-T8 replacing 4FT-2L-T12	16	36	0	36
SDGE	4FT-2L-T8 replacing 4FT-2L-T8	11	14	0	14
SDGE	4FT-2L-T8 replacing 4FT-4L-T12	1	2	0	2
SDGE	4FT-2L-T8 replacing 6FT-2L-T12	1	1	0	1
SDGE	4FT-2L-T8 replacing 8FT-1L-T12	0	0	1	1
SDGE	4FT-2L-T8 replacing 8FT-2L-T12	0	1	0	1
SDGE	4FT-3L-T8 replacing 101-175W	1	1	0	1
SDGE	4FT-3L-T8 replacing 176-399W	1	0	0	0
SDGE	4FT-3L-T8 replacing 400-600W	1	0	1	1
SDGE	4FT-3L-T8 replacing 4FT-3L-T12	1	3	0	3
SDGE	4FT-3L-T8 replacing 4FT-3L-T8	2	3	0	3
SDGE	4FT-4L-T5 replacing 400-600W	1	0	1	1
SDGE	4FT-4L-T5 replacing > 600W	1	0	0	0
SDGE	4FT-4L-T8 replacing 176-399W	2	0	0	0
SDGE	4FT-4L-T8 replacing 4FT-2L-T12	1	1	0	1
SDGE	4FT-4L-T8 replacing 4FT-4L-T12	5	8	0	8
SDGE	4FT-4L-T8 replacing 4FT-4L-T8	1	3	0	3
SDGE	4FT-4L-T8 replacing 6FT-2L-T12	1	1	0	1
SDGE	4FT-4L-T8 replacing 8FT-2L-T12	1	3	0	3
SDGE	4FT-5L-T5 replacing > 600W	1	0	0	0
SDGE	8FT-2L-T8 replacing 8FT-1L-T12	0	1	0	1
SDGE	8FT-2L-T8 replacing 8FT-2L-T12	1	4	0	4

Table G-28: Delamping Manufacturer Look-Ups for Pre- and Post-Wattage Estimates by IOU and Configuration

IOU	Configuration	Pre-Retrofit Look-ups
PGE	(1) 4FT-T12 removed	1
PGE	(1) 4FT-T8 removed	16
PGE	(1) 8FT-T12 removed	3
PGE	(2) 4FT-T12 removed	17
PGE	(2) 4FT-T8 removed	4
PGE	(2) 8FT-T12 removed	1
PGE	(3) 4FT-T8 removed	1
PGE	2FT-2L-T8 replacing 2FT-3L-T12	1
PGE	4FT-1L-T8 replacing 4FT-2L-T12	7
PGE	4FT-2L-T12 replacing 4FT-2L-T12	0
PGE	4FT-2L-T12 replacing 8FT-1L-T12	1
PGE	4FT-2L-T12 replacing 8FT-2L-T12	4
PGE	4FT-2L-T8 replacing 4FT-2L-T12	1
PGE	4FT-2L-T8 replacing 4FT-3L-T12	10
PGE	4FT-2L-T8 replacing 4FT-4L-T12	36
PGE	4FT-2L-T8 replacing 8FT-1L-T12	1
PGE	4FT-2L-T8 replacing 8FT-2L-T12	1
PGE	4FT-2L-T8 replacing 8FT-4L-T12	1
PGE	4FT-4L-T12 replacing 8FT-3L-T12	1
PGE	8FT-2L-T8 replacing 8FT-2L-T12	0
SCE	(1) 4FT-T12 removed	2
SCE	(1) 4FT-T8 removed	8
SCE	(1) 8FT-T12 removed	3
SCE	(2) 4FT-T12 removed	18
SCE	(2) 4FT-T8 removed	14
SCE	2FT-2L-T8 replacing 2FT-3L-T12	0
SCE	4FT-2L-T12 replacing 8FT-2L-T12	5
SCE	4FT-2L-T8 replacing 4FT-2L-T12	1
SCE	4FT-2L-T8 replacing 4FT-3L-T12	4
SCE	4FT-2L-T8 replacing 4FT-4L-T12	13
SCE	4FT-4L-T8 replacing 4FT-4L-T12	1
SCE	4FT-4L-T8 replacing 8FT-2L-T12	0
SCE	4FT-4L-T8 replacing 8FT-3L-T12	1
SCE	8FT-1L-T8 replacing 8FT-2L-T12	1
SDGE	(1) 4FT-T12 removed	1
SDGE	(1) 4FT-T8 removed	2
SDGE	(2) 4FT-T12 removed	4
SDGE	(2) 4FT-T8 removed	2
SDGE	4FT-2L-T12 replacing 8FT-2L-T12	0

Table G-29: High Bay Manufacturer Look-Ups for Pre- and Post-Wattage Estimates by IOU and Configuration

IOU	Configuration	Pre-Retrofit Look-ups	Post-Retrofit Look-ups	Spot Watt Measure-ment	Total Post-Retrofit Obs
PGE	4FT-2L-T5 replacing < 400W	0	1	0	1
PGE	4FT-2L-T5 replacing 400-600W	2	0	0	0
PGE	4FT-4L-T5 replacing < 400W	37	9	21	30
PGE	4FT-4L-T5 replacing 400-600W	13	3	8	11
PGE	4FT-4L-T5 replacing 8FT-2L-T12	0	1	0	1
PGE	4FT-4L-T8 replacing < 400W	3	3	0	3
PGE	4FT-4L-T8 replacing 400-600W	6	4	0	4
PGE	4FT-4L-T8 replacing 4FT-4L-T12	0	0	1	1
PGE	4FT-6L-T5 replacing < 400W	2	0	2	2
PGE	4FT-6L-T8 replacing < 400W	8	0	6	6
PGE	4FT-6L-T8 replacing 400-600W	7	0	1	1
SCE	4FT-2L-T5 replacing < 400W	1	0	1	1
SCE	4FT-2L-T8 replacing < 400W	1	1	0	1
SCE	4FT-2L-T8 replacing 4FT-2L-T12	5	6	0	6
SCE	4FT-2L-T8 replacing 4FT-4L-T12	0	0	1	1
SCE	4FT-2L-T8 replacing 8FT-2L-T12	2	2	0	2
SCE	4FT-2L-T8 replacing 8FT-4L-T12	1	1	0	1
SCE	4FT-4L-T5 replacing 400-600W	20	5	14	19
SCE	4FT-4L-T8 replacing < 400W	1	1	1	2
SCE	4FT-4L-T8 replacing 400-600W	4	3	1	4
SCE	4FT-4L-T8 replacing 4FT-4L-T12	1	1	0	1
SCE	4FT-6L-T5 replacing 400-600W	4	0	1	1
SCE	4FT-6L-T8 replacing 400-600W	15	0	5	5
SDGE	4FT-4L-T5 replacing 400-600W	6	0	5	5
SDGE	4FT-4L-T8 replacing 400-600W	2	0	0	0
SDGE	4FT-6L-T5 replacing 400-600W	1	0	0	0
SDGE	4FT-6L-T8 replacing 400-600W	6	0	4	4
SDGE	4FT-6L-T8 replacing 4FT-6L-T12	0	0	1	1

Table G-30: CFL Basic & Reflector Manufacturer Look-Ups for Pre- and Post-Wattage Estimates by IOU and Measure Category

IOU	Measure Category	CFL Basic		CFL Reflectors	
		Pre-Retrofit Look-ups	Post-Retrofit Look-ups	Pre-Retrofit Look-ups	Post-Retrofit Look-ups
PGE	5-13W CFL replacing < 26W	4	4		
PGE	5-13W CFL replacing 26-40W	14	14		
PGE	5-13W CFL replacing 41-60W	30	30	3	3
PGE	5-13W CFL replacing 61-90W	2	2	1	1
PGE	5-13W CFL replacing 91-125W	3	3		
PGE	14-24W CFL replacing < 26W	1	1		
PGE	14-24W CFL replacing 26-40W	4	4	1	1
PGE	14-24W CFL replacing 41-60W	35	34	8	8
PGE	14-24W CFL replacing 61-90W	15	15	29	29
PGE	14-24W CFL replacing 91-125W	8	8	8	8
PGE	14-24W CFL replacing 126-200W	3	3	2	2
PGE	14-24W CFL replacing 201-300W	3	3	0	1
PGE	14-24W CFL replacing > 300W	1	1		
PGE	25-30W CFL replacing 61-90W	1	1		
PGE	25-30W CFL replacing 91-125W	10	10		
PGE	25-30W CFL replacing 126-200W	3	3		
PGE	> 30W CFL replacing 126-200W	4	4		
PGE	> 30W CFL replacing 201-300W	1	1	1	1
SCE	5-13W CFL replacing 26-40W	2	2	1	1
SCE	5-13W CFL replacing 41-60W	34	33	3	3
SCE	5-13W CFL replacing 61-90W	1	1	2	2
SCE	14-24W CFL replacing < 26W			1	1
SCE	14-24W CFL replacing 26-40W	2	2		
SCE	14-24W CFL replacing 41-60W	9	9	16	16
SCE	14-24W CFL replacing 61-90W	12	10	6	6
SCE	14-24W CFL replacing 91-125W	4	3	1	1
SCE	25-30W CFL replacing 26-40W			1	1
SCE	25-30W CFL replacing 41-60W	8	8	5	5
SCE	25-30W CFL replacing 61-90W	1	1	3	3
SCE	25-30W CFL replacing 91-125W	1	1	3	3
SDGE	14-24W CFL replacing < 26W			1	1
SDGE	14-24W CFL replacing 26-40W	1	1	2	1
SDGE	14-24W CFL replacing 41-60W	8	7	1	1
SDGE	14-24W CFL replacing 61-90W	10	9	3	2
SDGE	14-24W CFL replacing 91-125W	4	4	1	0
SDGE	25-30W CFL replacing 126-200W	0	1		

Table G-31: HID Manufacturer Look-Ups for Pre- and Post-Wattage Estimates by IOU and Measure Category

IOU	Measure Category	Pre-Retrofit Look-ups	Post-Retrofit Look-ups
PGE	20-40W Ceramic Metal Halide replacing < 100W	2	2
PGE	20-40W Ceramic Metal Halide replacing 100-244W	1	1
PGE	70-175W Standard Metal Halide replacing 100-244W	1	1
PGE	250-320W Pulse-Start Metal Halide replacing 245-399	1	1
SCE	20-40W Ceramic Metal Halide replacing < 100W	4	4
SCE	20-40W Ceramic Metal Halide replacing 100-244W	1	1
SCE	250-320W Pulse-Start Metal Halide replacing 400-600W	1	1
SDGE	20-40W Ceramic Metal Halide replacing < 100W	2	1

Table G-32: Occupancy Sensors Manufacturer Look-Ups for Pre- and Post-Wattage Estimates by IOU and Measure

IOU	Measure Name	Post-Retrofit Look-ups	Spot Watt Measurement	Total Post-Retrofit Obs
PGE	Integrated Occupancy Sensor	22	28	50
PGE	Non-Integrated Occupancy Sensor	79	0	79
SCE	Integrated Occupancy Sensor	30	15	45
SCE	Non-Integrated Occupancy Sensor	114	0	114
SDGE	Integrated Occupancy Sensor	14	10	24
SDGE	Non-Integrated Occupancy Sensor	25	0	25

G.3.7 2006-08 Logger Data Used in Analysis

As mentioned, the 2006-08 logger data are being used along with the 2010-12 logger data to develop factors that can be used to adjust the self-reported operating hour schedules. This analysis is only performed for basic CFLs and linear fluorescent measures. The adjustments are made at the market segment and activity area level. Table G-33 and Table G-34 present the number of sites and number of loggers that were used in this analysis for basic CFLs and linear fluorescents by market segment and activity area. Shown are the number of sites and loggers used from the 2006-08 study, the 2010-12 study, and totals. Only market segment-activity area combinations for which at least 8 sites were monitored are used in the analysis to ensure reliability in the adjustment factors.

Table G-33: 2006-08 and 2010-12 Logger Data Used for Adjustment Factors by Market Segment and Activity Area for Linear Fluorescents

Market Segment Activity Area	2006-08 SmCom		WO029		Total	
	Sites	Loggers	Sites	Loggers	Sites	Loggers
Agriculture						
OtherMisc	1	12	7	33	8	45
Total Agriculture	**1**	**12**	**7**	**33**	**8**	**45**
Assembly						
Assembly	4	9	5	7	9	16
Classroom	12	40	19	52	31	92
Dining	6	14	8	12	14	26
HallwayLobby	12	18	21	42	33	60
Kitchen/Break Room	10	16	22	30	32	46
Office	14	39	31	59	45	98
OtherMisc	8	20	24	50	32	70
Recreation	6	16	14	37	20	53
Restrooms	6	9	18	30	24	39
Storage	6	8	19	35	25	43
Total Assembly	**24**	**189**	**47**	**354**	**71**	**543**
Education						
Classroom	10	40	42	189	52	229
HallwayLobby	5	9	20	29	25	38
Kitchen/Break Room	3	5	21	30	24	35
Office	6	16	28	55	34	71
OtherMisc	6	16	18	44	24	60
Restrooms	2	3	22	40	24	43
Storage	-	-	11	17	11	17
Total Education	**12**	**89**	**48**	**404**	**60**	**493**
Government						
Office	5	12	3	3	8	15
OtherMisc	7	29	5	33	12	62
Total Grocery	**7**	**41**	**5**	**36**	**12**	**77**
Grocery						
OtherMisc	6	18	3	5	9	23
RetailSales	10	34	4	5	14	39
Total Grocery	**10**	**52**	**4**	**10**	**14**	**62**

Table G-33 (Cont'd): 2006-08 and 2010-12 Logger Data Used for Adjustment Factors by Market Segment and Activity Area for Linear Fluorescents

Market Segment	2006-08 SmCom		WO029		Total	
Activity Area	Sites	Loggers	Sites	Loggers	Sites	Loggers
Health/Medical - Clinic						
Comm/IndWork	10	19	5	6	15	25
HallwayLobby	27	68	14	24	41	92
Kitchen/Breakroom	12	15	7	10	19	25
Office	25	79	18	52	43	131
OtherMisc	10	38	7	16	17	54
Patient Rooms	9	24	1	1	10	25
Restrooms	8	11	7	10	15	21
Storage	10	14	8	9	18	23
Total Health/Medical - Clinic	**32**	**268**	**22**	**128**	**54**	**396**
Lodging						
OtherMisc	8	27	5	39	13	66
Total Lodging	**8**	**27**	**5**	**39**	**13**	**66**
Office – Large						
Conference Room	5	8	10	16	15	24
HallwayLobby	9	29	11	30	20	59
Kitchen/Break Room	4	5	11	19	15	24
Office	12	60	14	61	26	121
OtherMisc	5	19	13	45	18	64
Storage	5	15	9	14	14	29
Total Office - Large	**14**	**136**	**16**	**185**	**30**	**321**
Office - Small						
Comm/Ind Work	14	40	4	7	18	47
Conference Room	19	23	3	3	22	26
Copy Room	8	9	3	3	11	12
HallwayLobby	41	65	10	19	51	84
Kitchen/Break Room	30	36	8	8	38	44
Office	79	256	13	35	92	291
OtherMisc	11	19	2	6	13	25
Restrooms	9	11	3	3	12	14
Storage	27	32	6	11	33	43
Total Office - Small	**86**	**491**	**18**	**95**	**104**	**586**
Other						
HallwayLobby	8	12	6	13	14	25
Office	13	31	5	10	18	41
OtherMisc	23	71	17	44	40	115
Total Other	**24**	**114**	**18**	**67**	**42**	**181**

Table G-33 (Cont'd): 2006-08 and 2010-12 Logger Data Used for Adjustment Factors by Market Segment and Activity Area for Linear Fluorescents

Market Segment Activity Area	2006-08 SmCom		WO029		Total	
	Sites	Loggers	Sites	Loggers	Sites	Loggers
Other Industrial						
Comm/Ind Work	31	77	48	148	79	225
Conference Room	3	3	12	14	15	17
HallwayLobby	9	14	30	44	39	58
Kitchen/Break Room	6	7	22	36	28	43
Office	19	44	47	144	66	188
OtherMisc	6	9	20	46	26	55
Restrooms	3	3	21	34	24	37
Storage	12	25	31	78	43	103
Total Other Industrial	**40**	**182**	**78**	**544**	**118**	**726**
Restaurant						
Dining	12	19	7	8	19	27
Kitchen/Breakroom	13	16	8	12	21	28
Office	6	6	3	3	9	9
OtherMisc	3	4	4	5	7	9
Storage	5	5	6	10	11	15
Total Restaurant	**18**	**50**	**11**	**38**	**29**	**88**
Retail – Large						
Comm/Ind Work	4	13	8	14	12	27
HallwayLobby	4	8	7	15	11	23
Kitchen/Break Room	4	5	9	11	13	16
Office	11	29	15	59	26	88
OtherMisc	4	5	8	21	12	26
Restrooms	3	3	8	14	11	17
RetailSales	11	35	18	42	29	77
Storage	11	18	15	55	26	73
Total Retail - Large	**17**	**116**	**29**	**231**	**46**	**347**
Retail - Small						
Auto Repair Workshop	31	66	13	39	44	105
Comm/Ind Work	31	53	6	21	37	74
HallwayLobby	27	42	12	15	39	57
Kitchen/Break Room	20	22	13	13	33	35
Office	56	104	28	45	84	149
OtherMisc	14	16	8	12	22	28
Restrooms	12	16	7	8	19	24
RetailSales	93	241	27	73	120	314
Storage	51	83	22	36	73	119
Total Retail - Small	**144**	**643**	**63**	**262**	**207**	**905**

Table G-33 (Cont'd): 2006-08 and 2010-12 Logger Data Used for Adjustment Factors by Market Segment and Activity Area for Linear Fluorescents

Market Segment Activity Area	2006-08 SmCom		WO029		Total	
	Sites	Loggers	Sites	Loggers	Sites	Loggers
Warehouse						
Comm/Ind Work	7	24	7	23	14	47
Conference Room	5	8	7	9	12	17
HallwayLobby	7	12	13	22	20	34
Kitchen/Break Room	7	9	11	15	18	24
Office	19	74	25	62	44	136
OtherMisc	8	14	12	23	20	37
Restrooms	6	6	12	14	18	20
Storage	22	62	33	85	55	147
Total Warehouse	**37**	**209**	**46**	**253**	**83**	**462**
Total	**474**	**2,619**	**417**	**2,679**	**891**	**5,298**

Table G-34: 2006-08 and 2010-12 Logger Data Used for Adjustment Factors by Market Segment and Activity Area for CFLs

Market Segment Activity Area	2006-08 SmCom		WO029		Total	
	Sites	Loggers	Sites	Loggers	Sites	Loggers
Agriculture						
OtherMisc	9	16	2	7	11	23
Total Agriculture	**9**	**16**	**2**	**7**	**11**	**23**
Assembly						
Assembly	26	58	7	14	33	72
Dining	13	20	1	1	14	21
HallwayLobby	53	103	15	29	68	132
Kitchen/Break Room	12	15	3	3	15	18
Office	23	40	4	5	27	45
OtherMisc	25	46	8	14	33	60
Recreation	13	32	1	2	14	34
Restrooms	43	65	11	14	54	79
Storage	31	41	7	12	38	53
Total Assembly	**94**	**420**	**26**	**94**	**120**	**514**
Education						
OtherMisc	10	22	9	20	19	42
Restrooms	5	7	12	22	17	29
Total Education	**11**	**29**	**17**	**42**	**28**	**71**
Grocery						
OtherMisc	7	11	2	4	9	15
Total Grocery	**7**	**11**	**2**	**4**	**9**	**15**
Health/Medical - Clinic		-	-	-	-	-
HallwayLobby	37	70	8	11	45	81
Kitchen/Breakroom	6	6	2	3	8	9
Office	22	38	6	9	28	47
OtherMisc	21	57	6	8	27	65
Restrooms	24	37	8	9	32	46
Storage	-	-	-	-	-	-
Total Health/Medical - Clinic	**56**	**208**	**20**	**40**	**76**	**248**
Lodging						
Comm/IndWork	12	14	1	1	13	15
Dining	10	12	-	-	10	12
GuestRooms	89	537	6	72	95	609
HallwayLobby	49	94	9	17	58	111
Kitchen/Break Room	11	13	1	2	12	15
Office	11	12	3	4	14	16
OtherMisc	12	22	2	4	14	26
Restrooms	33	63	7	11	40	74
Storage	11	13	3	5	14	18
Total Lodging	**102**	**780**	**10**	**116**	**112**	**896**

Table G-34 (Cont'd): 2006-08 and 2010-12 Logger Data Used for Adjustment Factors by Market Segment and Activity Area for CFLs

Market Segment Activity Area	2006-08 SmCom		WO029		Total	
	Sites	Loggers	Sites	Loggers	Sites	Loggers
Office – Large						
HallwayLobby	18	35	3	8	21	43
OtherMisc	10	24	2	4	12	28
Restrooms	11	25	-	-	11	25
Total Office - Large	**25**	**84**	**3**	**12**	**28**	**96**
Office - Small						
HallwayLobby	34	54	4	5	38	59
Kitchen/Breakroom	10	10	1	1	11	11
Office	26	41	5	10	31	51
OtherMisc	12	18	1	1	13	19
Restrooms	62	79	8	9	70	88
Storage	18	21	1	1	19	22
Total Office - Small	**103**	**223**	**16**	**27**	**119**	**250**
Other						
OtherMisc	22	83	3	3	25	86
Restrooms	16	19	1	1	17	20
Total Other	**28**	**102**	**4**	**4**	**32**	**106**
Other Industrial						
HallwayLobby	8	10	6	12	14	22
Office	7	13	4	4	11	17
OtherMisc	9	13	5	6	14	19
Restrooms	18	27	11	13	29	40
Total Other Industrial	**29**	**63**	**2**	**35**	**31**	**98**
Outdoor						
Outdoor	17	22	-	-	17	22
Total Outdoor	**17**	**22**	**-**	**-**	**17**	**22**
Restaurant						
Dining	64	129	8	16	72	145
HallwayLobby	36	48	1	1	37	49
Kitchen/Breakroom	26	29	1	1	27	30
Office	14	16	-	-	14	16
OtherMisc	8	12	1	3	9	15
Restrooms	51	76	2	2	53	78
Storage	42	66	1	1	43	67
Total Restaurant	**107**	**376**	**11**	**24**	**118**	**400**

Table 34 (Cont'd): 2006-08 and 2010-12 Logger Data Used for Adjustment Factors by Market Segment and Activity Area for CFLs

Market Segment Activity Area	2006-08 SmCom		WO029		Total	
	Sites	Loggers	Sites	Loggers	Sites	Loggers
Retail – Large						
OtherMisc	9	20	4	4	13	24
Restrooms	9	13	1	3	10	16
RetailSales	15	34	3	8	18	42
Total Retail - Large	**27**	**67**	**7**	**15**	**34**	**82**
Retail - Small						
Comm/IndWork	12	20	3	7	15	27
HallwayLobby	17	24	5	5	22	29
Office	23	28	2	2	25	30
OtherMisc	14	16	3	4	17	20
Restrooms	92	117	17	22	109	139
RetailSales	49	81	11	17	60	98
Storage	25	31	4	4	29	35
Total Retail - Small	**158**	**317**	**32**	**61**	**190**	**378**
Warehouse						
OtherMisc	6	19	5	19	11	38
Restrooms	8	12	7	15	15	27
Total Warehouse	**13**	**31**	**11**	**34**	**24**	**65**
Total	**786**	**2,749**	**163**	**515**	**949**	**3,264**

G.3.8 Operating Schedule Data Used in Analysis

Two sources of data were discussed above that provide data to support the development of 8,760 operating schedules for pre- and post-retrofit lighting usage: lighting logger data and adjusted self-report data. Table G-35 presents the number of sites and the unique number of operating schedules that were developed from these two data sources and available for use in the gross impact analysis. Site and schedule counts are provided for each HIM by IOU and Gross Program Group. It is important to note that even though these sample sizes rely on a combination of loggers and adjusted self-report data, some of these combined sample sizes will be less than the lighting logger counts provided above. This is because multiple loggers are sometimes installed within a given schedule group. Those loggers are aggregated, as discussed below in the operating analysis section, to create a single load shape for that unique schedule group. Therefore, the sample sizes presented below can be less than the logger sample sizes listed above due to aggregation.

Table G-35: Combined Operating Schedules Used for Post-Retrofit Analysis by HIM, IOU and Gross Program Group

HIM	Gross Program Group	PG&E		SCE		SDG&E		Total	
		Sites	Unique Schedules	Sites	Unique Schedules	Sites	Unique Schedules	Sites	Unique Schedules
CFL Basic									
Custom		1	3	-	-	2	2	**3**	**5**
Deemed		-	-	-	-	8	18	**8**	**18**
DI		-	-	64	91	29	47	**93**	**138**
3P		23	55	16	31	6	8	**45**	**94**
LGP		55	142	2	2	-	-	**57**	**144**
Total CFL Basic		**79**	**200**	**82**	**124**	**45**	**75**	**206**	**399**
CFL Reflector									
Custom		1	1	-	-	1	1	**2**	**2**
Deemed		10	22	15	35	9	14	**34**	**71**
DI		-	-	36	50	20	32	**56**	**82**
3P		1	4	-	-	-	-	**1**	**4**
LGP		30	51	5	12	-	-	**35**	**63**
Total CFL		**42**	**78**	**56**	**97**	**30**	**47**	**128**	**222**
High Bay									
Custom		-	-	-	-	-	-	**-**	**-**
Deemed		40	54	42	68	23	34	**105**	**156**
DI		-	-	19	21	-	-	**19**	**21**
3P		24	29	-	-	1	2	**25**	**31**
LGP		31	41	1	1	-	-	**32**	**42**
Total High Bay		**95**	**124**	**62**	**90**	**24**	**36**	**181**	**250**
HID									
Custom		1	1	2	2	1	2	**4**	**5**
Deemed		4	4	6	7	3	4	**13**	**15**
DI		-	-	-	-	-	-	**-**	**-**
3P		-	-	-	-	-	-	**-**	**-**
LGP		3	3	-	-	-	-	**3**	**3**
Total HID		**8**	**8**	**8**	**9**	**4**	**6**	**20**	**23**

Table G-35 (Cont'd): Combined Operating Schedules Used for Post-Retrofit Analysis by HIM, IOU and Gross Program Group

HIM	Gross Program Group	PG&E		SCE		SDG&E		Total	
		Sites	Unique Schedules	Sites	Unique Schedules	Sites	Unique Schedules	Sites	Unique Schedules
Linear Delamp									
Custom		5	23	3	15	1	1	**9**	**39**
Deemed		23	64	39	175	23	75	**85**	**314**
DI		-	-	26	69	2	3	**28**	**72**
3P		25	73	14	51	1	1	**40**	**125**
LGP		57	189	9	16	-	-	**66**	**205**
Total Linear		**110**	**349**	**91**	**326**	**27**	**80**	**228**	**755**
Linear									
Custom		18	66	16	64	2	6	**36**	**136**
Deemed		41	162	56	265	52	243	**149**	**670**
DI		-	-	101	335	53	220	**154**	**555**
3P		37	111	38	165	9	34	**84**	**310**
LGP		91	362	24	100	-	-	**115**	**462**
Total Linear		**187**	**701**	**235**	**929**	**116**	**503**	**538**	**2,133**
Occ Sensor									
Custom		5	12	1	2	-	-	**6**	**14**
Deemed		39	94	52	121	33	67	**124**	**282**
DI		-	-	71	101	9	10	**80**	**111**
3P		16	27	14	42	2	6	**32**	**75**
LGP		31	63	8	22	-	-	**39**	**85**
Total Occ Sensor		**91**	**196**	**146**	**288**	**44**	**83**	**281**	**567**
Total									
Custom		**20**	**106**	**18**	**90**	**7**	**16**	**45**	**212**
Deemed		**90**	**400**	**109**	**671**	**73**	**455**	**272**	**1,526**
DI		**-**	**-**	**115**	**667**	**54**	**312**	**169**	**979**
3P		**58**	**300**	**43**	**290**	**16**	**52**	**117**	**642**
LGP		**117**	**858**	**26**	**168**	**-**	**-**	**143**	**1,026**
Total		**277**	**1,664**	**306**	**1,886**	**146**	**835**	**729**	**4,385**

Table G-36 presents the number of sites and number of unique schedules that were used in the analysis for each HIM by building type. Although the analysis was not conducted at the building type level, average annual operating hours will be presented at the statewide building type level

by HIM. Note that because a few customers participated in multiple programs, the above table will show a slightly higher number of unique schedule groups because these are listed by program group.

Table G-36: Combined Operating Schedules by HIM and Building Type

HIM Building Type	CFL Basic	CFL Reflector	Linear	Delamp	High Bay	Occ Sensors	HIDs	Unique
Assembly								
# Sites	27	17	49	27	10	27	-	**67**
# Unique Schedules	81	37	254	95	13	83	-	**563**
Education								
# Sites	22	-	49	22	8	24	-	**61**
# Unique Schedules	45	-	224	77	8	76	-	**430**
Health/Medical - Clinic								
# Sites	14	16	24	-	-	17	-	**32**
# Unique Schedules	37	24	113	-	-	42	-	**216**
Office								
# Sites	20	17	68	34	8	23	-	**82**
# Unique Schedules	28	36	335	155	14	52	-	**620**
Other								
# Sites	16	25	46	22	6	28	7	**105**
# Unique Schedules	38	42	162	67	11	71	8	**399**
Other Industrial								
# Sites	20	10	74	38	56	56	-	**113**
# Unique Schedules	35	19	295	127	84	88	-	**648**
Restaurant								
# Sites	14	8	12	-	-	-	-	**20**
# Unique Schedules	24	13	37	-	-	-	-	**74**
Retail								
# Sites	64	35	165	61	50	65	13	**212**
# Unique Schedules	101	51	523	148	65	100	15	**1,003**
Warehouse								
# Sites	9	-	47	24	42	40	-	**69**
# Unique Schedules	10	-	183	86	54	55	-	**388**
Total								
# Sites	**206**	**128**	**534**	**228**	**180**	**280**	**20**	**761**
# Unique Schedules	**399**	**222**	**2,126**	**755**	**249**	**567**	**23**	**4,341**

G.3.9 Commercial Market Share Tracking Data Used in Analysis

As mentioned, the CMST study provided information on lighting equipment installations that occurred outside of the CPUC programs. This information was utilized to develop estimates of industry standard practices for linear fluorescent lighting retrofits, including high output and non-high output applications. Industry standard practice wattages are used differently for the ROB projects and the Post-RUL period. As mentioned in more detail in Section G.4, the 700 series T8s are not included in the average wattage calculations for the Post-RUL period, as these fixtures are not expected to be available in the future, which would correspond to the Post-RUL period. T12 fixtures are excluded from both periods as these fixtures were not determined to be industry standard practice due to their extremely low incidence of adoption since 2010. Table G-37 and Table G-38 present the number of unique observations that were utilized from the CMST to develop industry standard practices for linear fluorescent fixtures by fixture configuration, for both high output and non-high output applications. Separate tables are provided that include and exclude 700 series T8s, since the Post-RUL period calculations exclude these values.

Table G-37: Number of Unique Observations of Industry Standard Practice Wattages by Linear Fixture Configuration and Application from the CMST (excluding T12s and 700 T8s)

Configuration	Non-High Output		High Output	
	# of Unique Lookups	# of Sites	# of Unique Lookups	# of Sites
1 Lamp - 2-Ft Fixture	3	3	-	-
2 Lamp - 2-Ft Fixture	14	13	-	-
1 Lamp - 3-Ft Fixture	1	1	-	-
2 Lamp - 3-Ft Fixture	1	1	-	-
1 Lamp - 4-Ft Fixture	38	36	3	3
2 Lamp - 4-Ft Fixture	170	155	31	30
3 Lamp - 4-Ft Fixture	56	53	6	6
4 Lamp - 4-Ft Fixture	87	82	45	44
6 Lamp - 4-Ft Fixture	7	6	17	17
1 Lamp - 8-Ft Fixture	5	5	1	1
2 Lamp - 8-Ft Fixture	15	15	4	4

Table G-38: Number of Unique Observations of Industry Standard Practice Wattages by Linear Fixture Configuration and Application from the CMST (excluding T12s)

Configuration	Non High Bay		High Bay	
	# of Unique Lookups	# of Sites	# of Unique Lookups	# of Sites
1 Lamp - 2-Ft Fixture	3	3	-	-
2 Lamp - 2-Ft Fixture	18	17	-	-
1 Lamp - 3-Ft Fixture	2	2	-	-
2 Lamp - 3-Ft Fixture	5	5	-	-
1 Lamp - 4-Ft Fixture	48	44	3	3
2 Lamp - 4-Ft Fixture	244	205	31	30
3 Lamp - 4-Ft Fixture	91	87	6	6
4 Lamp - 4-Ft Fixture	122	114	45	44
6 Lamp - 4-Ft Fixture	8	7	17	17
1 Lamp - 8-Ft Fixture	5	5	1	1
2 Lamp - 8-Ft Fixture	17	17	4	4

G.4 Gross Impact Methodology by HIM

As discussed above, the general approach that was used to estimate site-specific ex-post gross savings values was based on developing hourly impacts to create an impact load profile. From this profile, impacts could be aggregated to develop an annual ex-post gross kWh savings value, or averaged over a set of specific hours to develop an ex-post gross kW savings value. The general algorithm applied to estimate energy savings for a specific hour is:

$$\text{Impact_Hour_i} = \text{Measure_Qty} \times \begin{bmatrix} (\text{Baseline_Wattage} \times \text{Percent_On_Pre_Hour_i}) \\ -(\text{Post_Wattage} \times \text{Percent_On_Post_Hour_i}) \end{bmatrix}$$

Where,

Measure_Qty = the quantity of measures found to be installed and operable based on an on-site visit.

Baseline_Wattage = the wattage associated with the measures that were replaced or with measures corresponding to the industry standard practice for the type of retrofit. As discussed in detail below, some measures employed a dual baseline over the life of the measure, while others were based solely on industry standard practice.

Post_Wattage = the wattage associated with the measures that were installed.

Percent_On_Pre = is the percentage of time the baseline equipment is on during a specific hour i, which is obtained from adjusted self-reported operating hours gathered on site.

Percent_On_Post = is the percentage of time the installed equipment is on during a specific hour i, which is obtained from either logger data usage or adjusted self-reported operating hours gathered on site. The Percent_On_Pre and Percent_On_Post are assumed to be equal for all measures, except occupancy sensors.

One final parameter that is utilized to estimate annual energy and demand impacts is the HVAC interactive effects. The Database for Energy Efficient Resources (DEER) provides a set of factors that were used to incorporate the kWh and kW HVAC interactive effects associated with the installed measures. The kWh factors are multiplied by the annual kWh impact for a given participant, and the kW factors are multiplied by the kW demand impact. Different factors are applied to a given measure and participant based on if the measure was a CFL or not, the participant's IOU, the climate zone where the participant is located, the building type of the participant, and if the participant's facility is new or existing.

Below, the specific algorithms used for each HIM are presented. Although there is a lot of redundancy in the equations and/or parameters, there are small differences that occur, either in the equation, from the source of data used to estimate a given parameter, or how industry standard practice is applied. The sections that follow this discussion will present the details on how each of the parameters in each equation is measured.

CFL Basic and Reflectors

No dual baseline is assumed for CFLs, therefore, all CFL installations are assumed to be replacement on burnout. The baseline wattage for all CFL estimates is assumed to be the pre-retrofit wattage. Finally, pre- and post-retrofit hours of use are assumed to be the same. The impact for customer i, hour j is:

$$Impact_{i,j} = Meas_Qty_i \times Percent_On_Post_{i,j} \times (Pre_Wattage_i - Post_Wattage_i)$$

$Meas_Qty_i$ - is the quantity of equipment found to be in place and operable on site.

$Percent_On_Post_{i,j}$ - is the percentage of time the equipment is on for customer j during hour i, obtained from either logger data usage or adjusted self-reported operating hours gathered on site.[3]

[3] As mentioned above, for some basic CFL and linear fluorescent measures, rather than installing lighting loggers, detailed self-report lighting schedules were used to develop hours of operation, and were adjusted by 2006-08 and 2010-12 lighting logger results as discussed in more detail later in the appendix.

$Pre_Wattage_i$ - is the wattage associated with the replaced measure for customer j, which is obtained from either documentation on the customer application, wattage of removed equipment left on site, wattage or similar measures still installed on site, or a customer self-report gathered on site.

$Post_Wattage_i$ - is the wattage associated with the installed measure for customer j, which is obtained from examining the installed equipment on site.

<u>Linear Fluorescents</u>

A dual baseline is assumed for linear fluorescents that are found to be early replacement. For all participants, pre- and post-retrofit hours of use are assumed to be the same.

For participants determined to be replacement on burnout (ROB), the impact for customer i, hour j is:

<u>Impact for ROB:</u>

$ROB\ Impact_{i,j} = Meas_Qty_i \times Percent_On_Post_{i,j} \times (Standard_Practice_Wattage_i - Post_Wattage_i)$

$Meas_Qty_i$ - is the quantity of equipment found to be in place and operable on site.

$Percent_On_Post_{i,j}$ - is the percentage of the time the equipment is on for customer j during hour i, obtained from either logger data usage or adjusted self-reported operating hours gathered on site.

$Standard_Practice_Wattage_i$ - is the average wattage among nonparticipant installations (including participants that installed linear fluorescents outside of a program, without and rebate or incentive) that occurred between 2010-12 for the same measure configuration installed by customer j, obtained from the CMST database. T12 fixtures are excluded from this average[4].

$Post_Wattage_i$ - is the wattage associated with the installed measure for customer j, which is obtained from gathering make and model information on the installed equipment on site, and performing a look-up.

<u>Impact for ER:</u>

For participants determined to be early replacement (ER), the impact for customer i, hour j during the RUL period is:

[4] T12s were excluded due to their phase out in 2012 and the fact that the CMST found only 1% of customers installing T12s during 2009-12. We considered excluding 700 series T8's from this baseline calculation due to their impending phase out; however, it was found that nearly a third of nonparticipants in the CMST were still installing these fixtures during the 2010-12 period.

RUL Period $Impact_{i,j}$ = $Meas_Qty_i$ x $Percent_On_Post_{i,j}$ x ($Pre_Wattage_i$ - $Post_Wattage_i$)

During the post-RUL period, the impact is:

Post-RUL Period $Impact_{i,j}$ = $Meas_Qty_i$ x $Percent_On_Post_{i,j}$ x ($Standard_Practice_Wattage_i$ - $Post_Wattage_i$)

> $Meas_Qty_i$ - is the quantity of equipment found to be in place and operable on site.
>
> $Percent_On_Post_{i,j}$ - is the percentage of the time the equipment is on for customer j during hour i, obtained from either logger data usage or adjusted self-reported operating hours gathered on site.
>
> $Pre_Wattage_i$ - is the wattage associated with the replaced measure for customer j, which is obtained from either documentation on the customer application, wattage of removed equipment left on site, wattage or similar measures still installed on site, or a customer self-report gathered on site.
>
> $Standard_Practice_Wattage_i$ - is the average wattage among nonparticipant installations (including participants that installed linear fluorescents outside of a program, without and rebate or incentive) that occurred between 2010-12 for the same measure configuration installed by customer j, obtained from the CMST database, excluding all T12 and 700 series T8 fixtures. These are excluded because they will have been phased out by the time the post-RUL period begins.
>
> $Post_Wattage_i$ - is the wattage associated with the installed measure for customer j, which is obtained from gathering make and model information on the installed equipment on site, and performing a look-up.

HIDs

A dual baseline is assumed for HID measures that are found to be early replacement. For all participants, pre- and post-retrofit hours of use are assumed to be the same.

For participants determined to be replacement on burnout (ROB), the impact for customer i, hour j is:

Impact for ROB:

ROB $Impact_{i,j}$ = $Meas_Qty_i$ x $Percent_On_Post_{i,j}$ x ($Pre_Wattage_i$ - $Post_Wattage_i$)

$Meas_Qty_i$ - is the quantity of equipment found to be in place and operable on site.

> $Percent_On_Post_{i,j}$ - is the percentage of time the equipment is on for customer j during hour i, obtained from logger data usage.

$Pre_Wattage_i$ - is the wattage associated with the replaced measure for customer j, which is obtained from either documentation on the customer application, wattage of removed equipment left on site, wattage or similar measures still installed on site, or a customer self-report gathered on site. Note that standard practice is not used as there is no well documented standard practice for HIDs during the 2010-12 period.

$Post_Wattage_i$ - is the wattage associated with the installed measure for customer j, which is obtained from examining the installed equipment on site.

Impact for ER:

For participants determined to be early replacement (ER), the impact for customer i, hour j during the RUL period is:

$$\text{RUL Period Impact}_{i,j} = Meas_Qty_i \times Percent_On_Post_{i,j} \times (Pre_Wattage_i - Post_Wattage_i)$$

During the post-RUL period, the impact is:

$$\text{Post-RUL Period Impact}_{i,j} = Meas_Qty_i \times Percent_On_Post_{i,j} \times (Standard_Practice_Wattage_i - Post_Wattage_i)$$

$Meas_Qty_i$ - is the quantity of equipment found to be in place and operable on site.

$Percent_On_Post_{i,j}$ - is the percentage of the time the equipment is on for customer j during hour i, obtained from logger data usage.

$Pre_Wattage_i$ - is the wattage associated with the replaced measure for customer j, which is obtained from either documentation on the customer application, wattage of removed equipment left on site, wattage or similar measures still installed on site, or a customer self-report gathered on site.

$Standard_Practice_Wattage_i$ - is considered to be a pulse-start metal halide, which is considered to be standard practice beginning in 2013.

$Post_Wattage_i$ - is the wattage associated with the installed measure for customer j, which is obtained from examining the installed equipment on site.

High Bay Fluorescents replacing Linear Fluorescents

High bay fluorescents are examined separately for those replacing linear fluorescents versus HIDs. A dual baseline is assumed for these measures that are found to be early replacement. For all participants, pre- and post-retrofit hours of use are assumed to be the same.

For participants determined to be replacement on burnout (ROB), the impact for customer i, hour j is:

Impact for ROB:

ROB $Impact_{i,j}$ = $Meas_Qty_i$ x $Percent_On_Post_{i,j}$ x ($Standard_Practice_Wattage_i$ - $Post_Wattage_i$)

$Meas_Qty_i$ - is the quantity of equipment found to be in place and operable on site.

$Percent_On_Post_{i,j}$ - is the percentage of time the equipment is on for customer j during hour i, obtained from logger data usage.

$Standard_Practice_Wattage_i$ - is the average wattage among nonparticipant installations (including participants that installed linear fluorescents outside of a program, without and rebate or incentive) that occurred between 2010-12 for the same measure configuration installed customer j, obtained from the CMST database using only high bay installations, excluding T12 fixtures.

$Post_Wattage_i$ - is the wattage associated with the installed measure for customer j, which is obtained from gathering make and model information on the installed equipment on site, and performing a look-up. For some participants spot watt measurements were also taken and were used over make and model to develop post wattage values.

Impact for ER:

For participants determined to be early replacement (ER), the impact for customer i, hour j during the RUL period is:

RUL Period $Impact_{i,j}$ = $Meas_Qty_i$ x $Percent_On_Post_{i,j}$ x ($Pre_Wattage_i$ - $Post_Wattage_i$)

During the post-RUL period, the impact is:

Post-RUL Period $Impact_{i,j}$ = $Meas_Qty_i$ x $Percent_On_Post_{i,j}$ x ($Standard_Practice_Wattage_i$ - $Post_Wattage_i$)

$Meas_Qty_i$ - is the quantity of equipment found to be in place and operable on site.

$Percent_On_Post_{i,j}$ - is the percentage of the time the equipment is on for customer j during hour i, obtained from logger data usage.

$Pre_Wattage_i$ - is the wattage associated with the replaced measure for customer j, which is obtained from either documentation on the customer application, wattage of removed equipment left on site, wattage or similar measures still installed on site, or a customer self-report gathered on site.

$Standard_Practice_Wattage_i$ - is the average wattage among nonparticipant installations (including participants that installed linear fluorescents outside of a program, without and rebate or incentive) that occurred between 2010-12 for the same measure configuration installed by customer j, obtained from the CMST database, for high bay installations and

excluding all T12 and 700 series T8 fixtures . These are excluded because they will have been phased out by the time the post-RUL period begins.

$Post_Wattage_i$ - is the wattage associated with the installed measure for customer j, which is obtained from gathering make and model information on the installed equipment on site, and performing a look-up.

<u>High Bay Fluorescents replacing HIDs</u>

A dual baseline is assumed for high bay fluorescent measures replacing HIDs that are found to be early replacement. For all participants, pre- and post-retrofit hours of use are assumed to be the same.

For participants determined to be replacement on burnout (ROB), the impact for customer i, hour j is:

<u>Impact for ROB:</u>

$$\text{ROB Impact}_{i,j} = Meas_Qty_i \times Percent_On_Post_{i,j} \times (Pre_Wattage_i - Post_Wattage_i)$$

$Meas_Qty_i$ - is the quantity of equipment found to be in place and operable on site.

$Percent_On_Post_{i,j}$ - is the percentage of time the equipment is on for customer j during hour i, obtained from logger data usage.

$Pre_Wattage_i$ - is the wattage associated with the replaced measure for customer j, which is obtained from either documentation on the customer application, wattage of removed equipment left on site, wattage or similar measures still installed on site, or a customer self-report gathered on site. Note that standard practice is not used as there is no well documented standard practice for HIDs during the 2010-12 period.

$Post_Wattage_i$ - is the wattage associated with the installed measure for customer j, which is obtained from gathering make and model information on the installed equipment on site, and performing a look-up. For some participants spot watt measurements were also taken and were used over make and model to develop post wattage values.

<u>Impact for ER:</u>

For participants determined to be early replacement (ER), the impact for customer i, hour j during the RUL period is:

$$\text{RUL Period Impact}_{i,j} = Meas_Qty_i \times Percent_On_Post_{i,j} \times (Pre_Wattage_i - Post_Wattage_i)$$

During the post-RUL period, the impact is:

Post-RUL Period $Impact_{i,j}$ = $Meas_Qty_i$ x $Percent_On_Post_{i,j}$ x ($Standard_Practice_Wattage_i$ - $Post_Wattage_i$)

$Meas_Qty_i$ - is the quantity of equipment found to be in place and operable on site.

$Percent_On_Post_{i,j}$ - is the percentage of the time the equipment is on for customer j during hour i, obtained from logger data usage.

$Pre_Wattage_i$ - is the wattage associated with the replaced measure for customer j, which is obtained from either documentation on the customer application, wattage of removed equipment left on site, wattage or similar measures still installed on site, or a customer self-report gathered on site.

$Standard_Practice_Wattage_i$ - is considered to be a pulse-start metal halide, which is considered to be standard practice beginning in 2013.

$Post_Wattage_i$ - is the wattage associated with the installed measure for customer j, which is obtained from gathering make and model information on the installed equipment on site, and performing a look-up.

Delamping

A dual baseline is assumed for linear fluorescent delamping that are found to be early replacement. For all participants, pre- and post-retrofit hours of use are assumed to be the same.

For participants determined to be replacement on burnout (ROB), the impact for customer i, hour j is:

Impact for ROB:

ROB $Impact_{i,j}$ = $Meas_Qty_i$ x $Percent_On_Post_{i,j}$ x $Standard_Practice_Wattage_i$

$Meas_Qty_i$ - is the quantity of equipment found to be in place and operable on site.

$Percent_On_Post_{i,j}$ - is the percentage of the time the equipment is on for customer j during hour i, obtained from either logger data usage or adjusted self-reported operating hours gathered on site.

$Standard_Practice_Wattage_i$ - is the average lamp wattage among nonparticipant installations (including participants that installed linear fluorescents outside of a program, without and rebate or incentive) that occurred between 2010-12 for the same measure configuration delamped by customer j, obtained from the CMST database, excluding T12 lamps.

Impact for ER:

For participants determined to be early replacement (ER), the impact for customer i, hour j during the RUL period is:

RUL Period $Impact_{i,j}$ = $Meas_Qty_i$ x $Percent_On_Post_{i,j}$ x $Pre_Wattage_i$

During the post-RUL period, the impact is:

Post-RUL Period $Impact_{i,j}$ = $Meas_Qty_i$ x $Percent_On_Post_{i,j}$ x $Standard_Practice_Wattage_i$

$Meas_Qty_i$ - is the quantity of equipment found to be in place and operable on site.

$Percent_On_Post_{i,j}$ - is the percentage of the time the equipment is on for customer j during hour i, obtained from either logger data usage or adjusted self-reported operating hours gathered on site.

$Pre_Wattage_i$ - is the wattage associated with the removed lamp for customer j, which is obtained from either documentation on the customer application, wattage of removed equipment left on site, wattage or similar measures still installed on site, or a customer self-report gathered on site.

$Standard_Practice_Wattage_i$ - is the average lamp wattage among nonparticipant installations (including participants that installed linear fluorescents outside of a program, without and rebate or incentive) that occurred between 2010-12 for the same measure configuration delamped by customer j, obtained from the CMST database, excluding all T12 and 700 series T8 lamps. These are excluded because they will have been phased out by the time the post-RUL period begins.

Occupancy Sensors

When occupancy sensors are installed in conjunction with other measures, their savings can be affected if the accompanying measure has a standard practice that would trigger Title 24. For example, if a mercury vapor HID was replaced by a pulse start MH (per Title 20 requirements), and at least 50% of the existing mercury vapor HIDs were replaced, then Title 24 would require a lighting control system to be installed, which would, at a minimum, require an automatic shutoff device. To trigger Title 24, at least 50% of the lighting had to have been replaced.

For cases when Title 24 is not triggered, the impact for customer i, hour j is:

$Impact_{i,j}$ = $Meas_Qty_i$ x ($Percent_On_Pre_{i,j}$ - $Percent_On_Post_{i,j}$) x $Installed_Wattage_i$

$Meas_Qty_i$ - is the quantity of equipment found to be in place and operable on site.

$Percent_On_Post_{i,j}$ - is the percentage of the time the equipment being controlled is on for customer j during hour i, obtained from logger data usage.

$Percent_On_Pre_{i,j}$ - is the percentage of the time the equipment being controlled is on for customer j during hour i, obtained from adjusted self-reported operating hours gathered on site.

$Installed_Wattage_i$ - is the wattage associated with the equipment being controlled for customer j, which is obtained from either documentation on the customer application, wattage of removed equipment left on site, wattage or similar measures still installed on site, or a customer self-report gathered on site.

When occupancy sensors controlling equipment that replaced mercury vapor HID (either an HID retrofit or a high bay linear fluorescent retrofit replacing HIDs), for cases that are early replacement the post-RUL impact would differ from the above equation because the retrofit would have likely triggered Title 24. This is because the standard practice for the post-RUL period is a pulse-start metal halide, and typically the retrofit of a mercury vapor to metal halide will trigger Title 24 if 50% or more of the lighting equipment is being replaced. In this instance, Title 24 would require some type of control device to be put in place. One component of this requirement is an automatic turnoff device. The post-RUL impact for customer i, hour j is:

$$\text{Post-RUL Impact}_{i,j} = Meas_Qty_i \times (Percent_On_Baseline_{i,j} - Percent_On_Post_{i,j}) \times Installed_Wattage_i$$

$Meas_Qty_i$ - is the quantity of equipment found to be in place and operable on site.

$Percent_On_Post_{i,j}$ - is the percentage of the time the equipment being controlled is on for customer j during hour i, obtained from logger data usage.

$Percent_On_Baseline_{i,j}$ - is the percentage of the time the equipment being controlled is on for customer j during hour i, which is based on self-reported operating hours gathered on site, but adjusted to simulate an automatic shut-off during closed business hours.

$Installed_Wattage_i$ - is the wattage associated with the equipment being controlled for customer j, which is obtained from either documentation on the customer application, wattage of removed equipment left on site, wattage or similar measures still installed on site, or a customer self-report gathered on site.

In order to develop the baseline operating hour profile, the adjustments to the self-reported operating schedules will be made in the following way. During closed business hours, the lighting system is assumed to have an automatic shutoff, so we would expect the lighting to be off, unless someone was to over-ride the control system. Similarly, the post-period operating schedules during closed business hours would also be off due to the occupancy sensor, unless someone was present. Therefore, we assume that the baseline and post-period operating hours are the same during business hours. During open business hours, the baseline operating schedule will rely on the self-reported schedule modified by using the lighting self-report adjustment factors.

Occupancy Sensors Replacing Existing Control Systems

As mentioned, to obtain pre-retrofit operating hours, using adjusted self-report operating schedules. The adjustment factors used in this process were developed using logger data collected on lighting equipment that had no lighting controls in place. In the case when a customer is replacing an existing control system with new occupancy sensors, we cannot apply the adjustment factors to the self-report hours of use for the pre-retrofit period because a lighting control system was in place during the pre-period. Therefore, the adjustment factors would not be applicable.

These customers also provided a self-report schedule for their post-period usage, and lighting logger data was used to calculate actual post-period usage. For these customers that replaced an existing control system with new occupancy sensors, we will use the relationship between the logger data and the self-report schedule for the post-period usage to adjust the self-report schedule for the pre-period usage. For example, if we found that the self-report schedule for the post-period usage was overstated by 10% relative to the logger data, then we would reduce the self-report schedule for the pre-period usage by 10%.

Measures Installed in Conjunction with Occupancy Sensors

Whenever measures are installed in conjunction with an occupancy sensor, the non-control measures are assumed to have an impact that corresponds to the same operating conditions as the previous equipment (therefore the pre-retrofit operating hours instead of the post-retrofit operating hours). The occupancy sensor has an impact that corresponds to the reduction in usage for the installed equipment. The formulas above for non-control measures, all assume the pre- and post-installation hours of use are the same, and that the post-installation hours of use can be used to estimate impacts. But this is not true when controls are installed. Therefore, the post-hours of use cannot be used as discussed above. Instead, it is assumed that the pre- and post-installation hours of use are the same, and that the pre-installation hours of use can be used to estimated impacts. Therefore, all the formulas above for estimating impacts for non-control measures should use $Percent_On_Pre_{i,j}$ instead of $Percent_On_Post_{i,j}$ where:

$Percent_On_Pre_{i,j}$ - is the percentage of the time prior to the measure installation that the replaced equipment was on for customer j during hour i, obtained from adjusted self-reported operating hours gathered on site.

G.5 Installation Rate Analysis

Although the installation rate is not directly used in the impact algorithm, it is implicit in the gross realization rate. If the measure quantity found on site is less than the amount claimed in the tracking data, then the gross realization rate will be reduced accordingly. The installation

rate is defined as the percentage of equipment found to be installed and operable. The installation rate is estimated for each site based on data gathered during the on-site visit. As part of these on-site visits, an objective of the auditor was to attempt to identify all equipment installed, along with a disposition of that equipment.

The key measure count that is identified on site is the number of measures that are currently installed and in working condition (operable). The installation rate is calculated directly from this measurement:

$$\text{Installation Rate} = \frac{\text{Quantity of measures installed and operable from on-site visit}}{\text{Quantity of measures reported installed in tracking system}}$$

In addition to identifying the amount of equipment that was installed and operable, the auditor also identified the amount of equipment that was:

- Failed and in place – The number of measures that are currently installed, but were not in working condition (failed).
- Failed and replaced – The number of measures that had been installed, but then had failed and were replaced with a different technology.
- Removed and not replaced - The number of measures that had been installed, but had been removed (either due to failure or other reasons), but were not replaced, such that the lamp socket is empty.
- Sent to another location - The number of measures that were not found on site, but were reported to have been sent to another location. It is not clear if those measures were installed at that other location, or if that other location was still in an IOU service territory.
- In storage – The number of measures that were found in storage, and have not yet been installed.

Although the installation rate is defined as the percent found to be in place and operable, an analysis was also conducted to determine the percent of rebated measures that were actually received by a participant (received rate). This would include those in place and operable, burned out or replaced, placed in storage, or placed at another facility.

Table G-39 through Table G-45 present the installation rates (defined as installed and operable), received rates (percent of rebated measures determined to have actually been received by the participants), storage rates, failure/removal rates, and percentage of equipment at another location, for each HIM by gross program group. Also shown are the sample sizes and resulting relative precision measured at the 90% confidence interval.

Table G-39: Disposition of Lighting Verification by Gross Program Group for CFL Basic

Gross Program Group	Sites	Installation Rate	Relative Precision	Received Rate	Storage Rate	Other Location	Failure/ Removal Rate
PG&E Deemed	1	0%		0%	0.0%	0.0%	0.0%
PG&E Custom	1	100%		100%	0.0%	0.0%	0.0%
PG&E 3P	25	75%	8%	84%	5.8%	1.8%	0.9%
PG&E LGP/DI	62	86%	4%	88%	0.5%	0.0%	0.7%
PG&E Total	**89**	**85%**	**3%**	**87%**	**1.3%**	**0.3%**	**0.7%**
SCE DI	69	63%	12%	74%	0.9%	1.1%	9.0%
SCE Deemed							
SCE Custom							
SCE 3P	17	83%	9%	84%	1.2%	0.0%	0.0%
SCE LGP	2	100%	0%	100%	0.0%	0.0%	0.0%
SCE Total	**88**	**65%**	**9%**	**75%**	**0.9%**	**1.0%**	**8.2%**
SDGE DI	32	94%	4%	96%	1.4%	0.0%	0.5%
SDGE Deemed	10	94%	8%	96%	1.3%	1.3%	0.0%
SDGE Custom	2	100%	0%	100%	0.0%	0.0%	0.0%
SDGE 3P/LGP	10	26%	75%	29%	5.3%	0.0%	0.0%
SDG&E Total	**54**	**80%**	**8%**	**82%**	**1.7%**	**0.1%**	**0.1%**
SW DI	101	66%	9%	76%	1.0%	1.0%	8.2%
SW Deemed	11	87%	14%	89%	1.2%	1.2%	0.0%
SW Custom	3	100%	0%	100%	0.0%	0.0%	0.0%
SW 3P	52	64%	9%	70%	4.9%	1.0%	0.5%
SW LGP	64	87%	4%	88%	0.5%	0.0%	0.7%
Statewide	**231**	**77%**	**3%**	**82%**	**1.3%**	**0.5%**	**3.3%**

Table G-40: Disposition of Lighting Verification by Gross Program Group for CFL Reflectors

Gross Program Group	Sites	Installation Rate	Relative Precision	Received Rate	Storage Rate	Other Location	Failure/ Removal Rate
PG&E Deemed	12	88%	10%	91%	0.3%	2.6%	0.2%
PG&E Custom	1	100%		100%	0.0%	0.0%	0.0%
PG&E 3P	1	95%		99%	3.8%	0.0%	0.0%
PG&E LGP/DI	32	78%	8%	82%	3.5%	0.0%	0.0%
PG&E Total	**46**	**84%**	**5%**	**87%**	**2.3%**	**0.9%**	**0.1%**
SCE DI	39	88%	6%	96%	0.4%	0.6%	6.9%
SCE Deemed	16	95%	7%	98%	0.1%	1.9%	0.0%
SCE Custom							
SCE 3P							
SCE LGP	5	100%	0%	100%	0.0%	0.0%	0.0%
SCE Total	**60**	**89%**	**4%**	**97%**	**0.4%**	**0.7%**	**6.0%**
SDGE DI	23	90%	7%	93%	2.4%	0.3%	0.0%
SDGE Deemed	9	87%	9%	89%	1.1%	0.8%	0.4%
SDGE Custom	1	100%		100%	0.0%	0.0%	0.0%
SDGE 3P/LGP							
SDG&E Total	**33**	**92%**	**4%**	**93%**	**1.2%**	**0.4%**	**0.2%**
SW DI	62	89%	5%	96%	0.5%	0.6%	6.5%
SW Deemed	37	90%	5%	93%	0.4%	2.1%	0.2%
SW Custom	2	100%	0%	100%	0.0%	0.0%	0.0%
SW 3P	1	95%		99%	3.8%	0.0%	0.0%
SW LGP	37	80%	7%	83%	3.2%	0.0%	0.0%
Statewide	**139**	**88%**	**3%**	**93%**	**1.1%**	**0.7%**	**3.5%**

Table G-41: Disposition of Lighting Verification by Gross Program Group for Linear Fluorescents

Gross Program Group	Sites	Installation Rate	Relative Precision	Received Rate	Storage Rate	Other Location	Failure/ Removal Rate
PG&E Deemed	44	94%	2%	94%	0.0%	0.0%	0.0%
PG&E Custom	18	94%	3%	94%	0.0%	0.0%	0.0%
PG&E 3P	38	91%	3%	91%	0.2%	0.2%	0.0%
PG&E LGP/DI	92	93%	2%	94%	0.2%	0.0%	1.0%
PG&E Total	**190**	**93%**	**1%**	**94%**	**0.1%**	**0.0%**	**0.7%**
SCE DI	102	98%	1%	98%	0.2%	0.2%	0.2%
SCE Deemed	57	69%	5%	70%	0.1%	0.2%	0.1%
SCE Custom	16	89%	5%	89%	0.0%	0.0%	0.0%
SCE 3P	40	95%	2%	95%	0.0%	0.0%	0.0%
SCE LGP	24	97%	2%	97%	0.2%	0.0%	0.0%
SCE Total	**235**	**91%**	**1%**	**92%**	**0.1%**	**0.1%**	**0.1%**
SDGE DI	53	93%	2%	94%	0.1%	0.0%	0.1%
SDGE Deemed	54	94%	1%	95%	0.2%	0.4%	0.2%
SDGE Custom	2	100%	0%	100%	0.0%	0.0%	0.0%
SDGE 3P/LGP	10	74%	9%	76%	0.7%	0.0%	0.6%
SDG&E Total	**118**	**86%**	**2%**	**87%**	**0.4%**	**0.1%**	**0.3%**
SW DI	155	97%	1%	98%	0.2%	0.2%	0.2%
SW Deemed	155	85%	2%	85%	0.1%	0.2%	0.1%
SW Custom	36	92%	3%	92%	0.0%	0.0%	0.0%
SW 3P	88	86%	2%	86%	0.3%	0.0%	0.3%
SW LGP	116	93%	1%	94%	0.2%	0.0%	0.9%
Statewide	**543**	**91%**	**1%**	**92%**	**0.2%**	**0.1%**	**0.4%**

Table G-42: Disposition of Lighting Verification by Gross Program Group for Delamping

Gross Program Group	Sites	Installation Rate	Relative Precision	Received Rate	Other Location	Failure/ Removal Rate
PG&E Deemed	25	64%	13%	64%	0.0%	0.0%
PG&E Custom	5	77%	18%	77%	0.0%	0.0%
PG&E 3P	25	83%	7%	84%	0.1%	0.0%
PG&E LGP/DI	61	89%	4%	90%	0.1%	0.0%
PG&E Total	**116**	**83%**	**3%**	**83%**	**0.1%**	**0.0%**
SCE DI	26	94%	6%	94%	0.0%	0.0%
SCE Deemed	42	90%	3%	91%	0.0%	0.0%
SCE Custom	3	100%	0%	100%	0.0%	0.0%
SCE 3P	14	95%	3%	100%	0.0%	0.0%
SCE LGP	9	99%	1%	99%	0.0%	0.0%
SCE Total	**93**	**93%**	**2%**	**94%**	**0.0%**	**0.0%**
SDGE DI	2	5%	2,718%	5%	0.0%	0.0%
SDGE Deemed	23	86%	6%	86%	0.0%	0.0%
SDGE Custom	1	100%		100%	0.0%	0.0%
SDGE 3P/LGP	1	100%		100%	0.0%	0.0%
SDG&E Total	**27**	**84%**	**7%**	**84%**	**0.0%**	**0.0%**
SW DI	28	91%	6%	91%	0.0%	0.0%
SW Deemed	90	84%	3%	84%	0.0%	0.0%
SW Custom	9	93%	6%	93%	0.0%	0.0%
SW 3P	40	91%	3%	94%	0.0%	0.0%
SW LGP	70	90%	3%	90%	0.1%	0.0%
Statewide	**236**	**88%**	**2%**	**89%**	**0.0%**	**0.0%**

Table G-43: Disposition of Lighting Verification by Gross Program Group for High Bay

Gross Program Group	Sites	Installation Rate	Relative Precision	Received Rate	Storage Rate	Other Location	Failure/ Removal Rate
PG&E Deemed	42	94%	4%	94%	0.1%	0.0%	0.4%
PG&E Custom							
PG&E 3P	24	96%	3%	99%	0.0%	0.0%	2.6%
PG&E LGP/DI	31	98%	2%	98%	0.4%	0.4%	0.0%
PG&E Total	**96**	**95%**	**2%**	**96%**	**0.2%**	**0.1%**	**0.4%**
SCE DI	19	100%	0%	100%	0.0%	0.0%	0.0%
SCE Deemed	43	99%	1%	99%	0.3%	0.0%	0.1%
SCE Custom							
SCE 3P							
SCE LGP	2	75%	149%	75%	0.0%	0.0%	0.0%
SCE Total	**64**	**99%**	**1%**	**99%**	**0.3%**	**0.0%**	**0.1%**
SDGE DI							
SDGE Deemed	23	100%	0%	100%	0.1%	0.0%	0.0%
SDGE Custom							
SDGE 3P/LGP	2	5%	1,929%	5%	0.0%	0.0%	0.0%
SDG&E Total	**25**	**91%**	**6%**	**91%**	**0.0%**	**0.0%**	**0.0%**
SW DI	19	100%	0%	100%	0.0%	0.0%	0.0%
SW Deemed	108	97%	1%	98%	0.2%	0.0%	0.2%
SW Custom							
SW 3P	26	82%	10%	84%	0.0%	0.0%	2.2%
SW LGP	33	97%	3%	98%	0.4%	0.4%	0.0%
Statewide	**185**	**97%**	**1%**	**97%**	**0.2%**	**0.1%**	**0.2%**

Table G-44: Disposition of Lighting Verification by Gross Program Group for Occupancy Sensors

Gross Program Group	Sites	Installation Rate	Relative Precision	Received Rate	Storage Rate	Other Location	Failure/ Removal Rate
PG&E Deemed	39	95%	1%	97%	0.5%	0.5%	0.8%
PG&E Custom	5	86%	16%	86%	0.0%	0.0%	0.0%
PG&E 3P	16	99%	2%	100%	0.1%	0.0%	1.2%
PG&E LGP/DI	33	84%	8%	84%	0.0%	0.0%	0.0%
PG&E Total	**92**	**94%**	**2%**	**95%**	**0.4%**	**0.4%**	**0.7%**
SCE DI	76	94%	4%	98%	1.9%	0.0%	2.3%
SCE Deemed	53	89%	4%	96%	0.0%	0.0%	6.5%
SCE Custom	1	100%		100%	0.0%	0.0%	0.0%
SCE 3P	15	69%	20%	69%	0.0%	0.0%	0.0%
SCE LGP	8	97%	5%	100%	0.0%	3.3%	0.0%
SCE Total	**153**	**89%**	**3%**	**95%**	**0.2%**	**0.1%**	**5.4%**
SDGE DI	9	100%	0%	100%	0.0%	0.0%	0.0%
SDGE Deemed	33	93%	2%	95%	1.2%	0.2%	0.1%
SDGE Custom							
SDGE 3P/LGP	2	97%	10%	97%	0.0%	0.0%	0.0%
SDG&E Total	**44**	**95%**	**2%**	**96%**	**0.9%**	**0.1%**	**0.1%**
SW DI	85	94%	4%	98%	1.8%	0.0%	2.2%
SW Deemed	125	91%	2%	96%	0.2%	0.2%	4.5%
SW Custom	6	92%	10%	92%	0.0%	0.0%	0.0%
SW 3P	33	86%	7%	86%	0.0%	0.0%	0.4%
SW LGP	41	89%	6%	91%	0.0%	1.4%	0.0%
Statewide	**289**	**91%**	**2%**	**95%**	**0.3%**	**0.2%**	**3.6%**

Table G-45: Disposition of Lighting Verification by Gross Program Group for HID

Gross Program Group	Sites	Installation Rate	Relative Precision	Received Rate	Storage Rate	Other Location	Failure/ Removal Rate
PG&E Deemed	4	98%	3%	100%	0.0%	2.2%	0.0%
PG&E Custom	1	100%		100%	0.0%	0.0%	0.0%
PG&E 3P							
PG&E LGP/DI	3	100%	0%	100%	0.0%	0.0%	0.0%
PG&E Total	**8**	**99%**	**1%**	**100%**	**0.0%**	**1.0%**	**0.0%**
SCE DI							
SCE Deemed	6	98%	1%	98%	0.0%	0.0%	0.0%
SCE Custom	2	100%	0%	100%	0.0%	0.0%	0.0%
SCE 3P							
SCE LGP							
SCE Total	**8**	**99%**	**1%**	**99%**	**0.0%**	**0.0%**	**0.0%**
SDGE DI							
SDGE Deemed	3	100%	0%	100%	0.0%	0.0%	0.0%
SDGE Custom	1	100%		100%	0.0%	0.0%	0.0%
SDGE 3P/LGP							
SDG&E Total	**4**	**100%**	**0%**	**100%**	**0.0%**	**0.0%**	**0.0%**
SW DI							
SW Deemed	13	99%	1%	99%	0.0%	0.7%	0.0%
SW Custom	4	100%	0%	100%	0.0%	0.0%	0.0%
SW 3P							
SW LGP	3	100%	0%	100%	0.0%	0.0%	0.0%
Statewide	**20**	**99%**	**1%**	**100%**	**0.0%**	**0.4%**	**0.0%**

For the most part, installation rates are similar across program groups within a measure. There are a handful of relatively high or low values, which are usually the result of small sample sizes that have one participant where the installation rate was very low and drove the overall result. The HIM-Gross Program Group segments with relatively low installation rates are:

CFL_Basic – SDGE 3P/LGP: This segment has only a 26% installation rate. Although there are 10 participant sites, this result is driven by one site who accounts for 57% of the weight and had a zero installation rate.

CFL Basic – SCE DI: Although the 63% installation rate is not extremely low, it is low relative to the other segments. This result is based on a sample size of 69 sites and is being driven by 3 sites that accounted for approximately one quarter of the weight for this segment. The on-site auditors found no CFLs at two of these sites, and only one CFL at the third.

Linear Fluorescents – SCE Deemed: Although the 69% installation rate is not extremely low, it is low relative to the other segments. This result is based on a sample size of 57 sites (114 site-measures) and is being driven by 1 site that accounted for 15% of the weight for this segment. The on-site auditor found that the building that contained the rebated measures was demolished in 2012 before the on-site was performed, so the install rate was set to zero.

Linear Fluorescents – SDGE 3P/LGP: Again, this 74% rate is not extremely low, but it is low relative to the other segments. This result is based on a sample size of 10 and is being driven by 3 sites that account for approximately 50% of the weight for this segment. These sites had relatively low (non-zero) installation rates.

High Bay – SDGE 3P/LGP: This segment had an install rate of 5%, but was comprised of only two sites, one which had a zero installation rate and comprised 96% of the segment weight. The zero installation rate was due to the participant removing all of the lamps because they were too dim.

Delamping – PGE Deemed: Again, this 64% rate is not extremely low, but it is low relative to the other segments. This segment consists of 25 participants, and is being driven by one participant who claimed 160 fixtures delamped but none were found onsite.

Delamping – PGE Custom: This segment had a 77% install rate, but had only 5 participants Again this is being driven by one site where who had 9 measures claiming 1060 delamped units with 0 delamped fixtures found for these measures.

Delamping – SDGE Direct Install: This segment had only a 5% installation rate, but consisted of only 2 participants, one of which represents 90% of the segment's weight and had a zero installation rate.

Relative precisions at the statewide HIM level are in the 90/5 range or better. Even at the HIM-IOU level, all estimates have relative precisions at the 90/10 level or better. Finally, for the key HIM-Gross Program Group segments that were targeted for the sample design and ended up with at least 15 observations, the relative precisions are all at the 90/10 level or better, except for two out of the 39 segments (one at 90/13 and one at 90/20).

Table G-46 through Table G-49 present the installation rates for each IOU by HIM, Gross Program Group, and Claim Basis, in which sites are classified as those that have measures that are deemed, small/medium calculated, or large calculated (where large calculated sites have project level savings of 250,000 kWh or more). To help identify results that are supported by small sample sizes, results that correspond to sample sizes of six or less have been italicized.

In general, the small/medium calculated applications result in the highest installation rates, and the large calculated applications have the lowest rates. This is typically the case both across IOU as well as across HIM.

Table G-46: Lighting Verification by Gross Program Group and Claim Basis for PG&E

IOU	Claim Basis	CFL Basic	CFL Reflector	Linear	Delamp	High Bay	Occ Sensors	HIDs
PG&E								
PG&E Custom	Sm/Med Calculated	*100%*	*100%*	96%	*100%*		*100%*	*100%*
	Large Calculated			*92%*	*53%*		*79%*	
	All Calculated	*100%*	*100%*	94%	*77%*		*86%*	*100%*
	Total Custom	***100%***	***100%***	**94%**	***77%***		***86%***	***100%***
PG&E Deemed	Deemed	*0%*	88%	94%	64%	94%	95%	*98%*
	Total Deemed	*0%*	**88%**	**94%**	**64%**	**94%**	**95%**	***98%***
PG&E 3rd Party	Deemed	75%		85%	83%	96%	96%	
	Sm/Med Calculated							
	Large Calculated	*86%*	*95%*	*100%*	*100%*		*100%*	
	All Calculated	*86%*	*95%*	*100%*	*100%*		*100%*	
	Total 3rd Party	**75%**	***95%***	**91%**	**83%**	**96%**	**99%**	
PG&E Local Govt Partner/DI	Deemed	87%	78%	93%	89%	98%	89%	
	Sm/Med Calculated	87%	*100%*	96%	95%	*100%*	*97%*	*100%*
	Large Calculated	*64%*	*34%*	88%	*82%*	*76%*	*68%*	*100%*
	All Calculated	84%	79%	93%	91%	*94%*	80%	*100%*
	Total LGP/DI	**86%**	**78%**	**93%**	**89%**	**98%**	**84%**	***100%***
PG&E Total	**Deemed**	**84%**	**83%**	**93%**	**82%**	**95%**	**95%**	***98%***
	Sm/Med Calculated	**89%**	***100%***	**96%**	**96%**	***100%***	***99%***	***100%***
	Large Calculated	***71%***	***63%***	**91%**	**70%**	***76%***	**87%**	***100%***
	All Calculated	**87%**	**85%**	**94%**	**87%**	***94%***	**90%**	***100%***
PG&E Total		**85%**	**84%**	**93%**	**83%**	**95%**	**94%**	**99%**

* Italics indicate segment level results that are supported by small samples sizes of six or less.

Table G-47: Lighting Verification by Gross Program Group and Claim Basis for SCE

IOU	Claim Basis	CFL Basic	CFL Reflector	Linear	Delamp	High Bay	Occ Sensors	HIDs
SCE								
SCE Custom	Sm/Med Calculated			86%	*100%*			
	Large Calculated			*92%*	*100%*		*100%*	*100%*
	All Calculated			89%	*100%*		*100%*	*100%*
	Total Custom			**89%**	***100%***		***100%***	***100%***
SCE DI	Deemed	63%	88%	98%	94%	100%	94%	
	Total DI	**63%**	**88%**	**98%**	**94%**	**100%**	**94%**	
SCE Deemed	Deemed		95%	69%	90%	99%	89%	*98%*
	Total Deemed		**95%**	**69%**	**90%**	**99%**	**89%**	***98%***
SCE 3rd Party	Deemed	83%		93%	94%		97%	
	Sm/Med Calculated							
	Large Calculated			*100%*	*100%*		*39%*	
	All Calculated			*100%*	*100%*		*39%*	
	Total 3rd Party	**83%**		**95%**	**95%**		**69%**	
SCE Local Govt Partner	Deemed	*100%*	*100%*	96%	99%	*75%*	*91%*	
	Sm/Med Calculated							
	Large Calculated			*97%*	*100%*		*100%*	
	All Calculated			*97%*	*100%*		*100%*	
	Total LGP/DI	***100%***	***100%***	**97%**	**99%**	***75%***	**97%**	
SCE Total	**Deemed**	**65%**	**89%**	**91%**	**92%**	**99%**	**90%**	***98%***
	Sm/Med Calculated			**86%**	***100%***			
	Large Calculated			**95%**	***100%***		***76%***	***100%***
	All Calculated			**92%**	***100%***		***76%***	***100%***
SCE Total		**65%**	**89%**	**91%**	**93%**	**99%**	**89%**	**99%**

* Italics indicate segment level results that are supported by small samples sizes of six or less.

Table G-48: Lighting Verification by Gross Program Group and Claim Basis for SDG&E

IOU	Claim Basis	CFL Basic	CFL Reflector	Linear	Delamp	High Bay	Occ Sensors	HIDs
SDG&E								
SDG&E Custom	Sm/Med Calculated	*100%*			*100%*			
	Large Calculated		*100%*	*100%*				*100%*
	All Calculated	*100%*	*100%*	*100%*	*100%*			*100%*
	Total Custom	***100%***	***100%***	***100%***	***100%***			***100%***
SDG&E DI	Deemed	94%	90%	93%	*5%*		100%	
	Total DI	**94%**	**90%**	**93%**	***5%***		**100%**	
SDG&E Deemed	Deemed	94%	87%	94%	86%	100%	93%	*100%*
	Total Deemed	**94%**	**87%**	**94%**	**86%**	**100%**	**93%**	***100%***
SDG&E LGP/3rd Party	Deemed	44%						
	Sm/Med Calculated			78%			*100%*	
	Large Calculated	*0%*		*73%*	*100%*	*5%*	*92%*	
	All Calculated	*0%*		74%	*100%*	*5%*	*97%*	
	Total 3rd Party	**26%**		**74%**	***100%***	***5%***	***97%***	
SDG&E Total	**Deemed**	**79%**	**88%**	**94%**	**80%**	**100%**	**94%**	***100%***
	Sm/Med Calculated	***100%***		**78%**	***100%***		***100%***	
	Large Calculated	***0%***	***100%***	***75%***	***100%***	***5%***	***92%***	***100%***
	All Calculated	***81%***	***100%***	**76%**	***100%***	***5%***	***97%***	***100%***
SDG&E Total		**80%**	**92%**	**86%**	**84%**	**91%**	**95%**	***100%***

* Italics indicate segment level results that are supported by small samples sizes of six or less.

Table G-49: Lighting Verification by Gross Program Group and Claim Basis for Statewide

IOU	Claim Basis	CFL Basic	CFL Reflector	Linear	Delamp	High Bay	Occ Sensors	HIDs
Statewide								
Statewide Custom	Sm/Med Calculated	*100%*	*100%*	90%	*100%*		*100%*	*100%*
	Large Calculated		*100%*	93%	*88%*		*90%*	*100%*
	All Calculated	*100%*	*100%*	92%	93%		*92%*	*100%*
	Total Custom	***100%***	***100%***	**92%**	**93%**		***92%***	***100%***
Statewide DI	Deemed	66%	89%	97%	91%	100%	94%	
	Total DI	**66%**	**89%**	**97%**	**91%**	**100%**	**94%**	
Statewide Deemed	Deemed	87%	90%	85%	84%	97%	91%	99%
	Total Deemed	**87%**	**90%**	**85%**	**84%**	**97%**	**91%**	**99%**
Statewide 3rd Party	Deemed	71%		91%	90%	96%	97%	
	Sm/Med Calculated			78%			*100%*	
	Large Calculated	*22%*	*95%*	83%	*100%*	*5%*	*74%*	
	All Calculated	*22%*	*95%*	82%	*100%*	*5%*	*80%*	
	Total 3rd Party	**64%**	***95%***	**86%**	**91%**	**82%**	**86%**	
Statewide Local Gov't Partner	Deemed	87%	80%	93%	89%	98%	89%	
	Sm/Med Calculated	87%	*100%*	96%	95%	*100%*	*97%*	*100%*
	Large Calculated	*64%*	*34%*	92%	*83%*	*76%*	*87%*	*100%*
	All Calculated	84%	79%	94%	91%	*94%*	90%	*100%*
	Total LGP	**87%**	**80%**	**93%**	**90%**	**97%**	**89%**	***100%***
Statewide Total	**Deemed**	**75%**	**88%**	**92%**	**87%**	**97%**	**92%**	**99%**
	Sm/Med Calculated	**93%**	***100%***	**91%**	**97%**	***100%***	***100%***	***100%***
	Large Calculated	***38%***	***78%***	**89%**	**89%**	***37%***	**82%**	***100%***
	All Calculated	**84%**	**88%**	**90%**	**93%**	***73%***	**86%**	**100%**
Statewide Total		**77%**	**88%**	**91%**	**88%**	**97%**	**91%**	**99%**

* Italics indicate segment level results that are supported by small samples sizes of six or less.

G.6 Operating Hour Analysis Methodology

One of the primary inputs into the gross savings calculations are the 8760 load shapes, or percent on, for lighting equipment. There were multiple methodologies employed to develop these percent on load shapes, which are discussed in this section. More specifically, this section will discuss the development of the following:

- Post-Retrofit 8760 load shapes based on logger data
- Self-Report Adjustment Factors using 2006-08 and 2010-12 logger and self-report data for basic CFLs and Linear Fluorescents
- Post-Retrofit 8760 load shapes based on self-report data and the self-report adjustment factors
- Post-Retrofit 8760 load shapes based on combining the logger based profiles with the adjusted self-report profiles
- Pre-Retrofit 8760 load shapes based on self-report data and the self-report adjustment factors
- Title 24 Baseline 8760 load shapes based on self-report data and the self-report adjustment factors

Although the gross savings analysis is done on a site level basis, average segment level operating hour results are also presented in this section by various levels of segmentation, such as HIM, IOU, Gross Program Group and building type.

G.6.1 Development of 8760 Post-Retrofit Percent-On Load Shapes using Logger Data

The objective of this analysis was to develop 8760 hourly load shapes of the percentage of the hour that the lights are on (percent on) for the post-retrofit equipment. The goal is to develop load shapes for each site, for each specific measure monitored at the activity area (or space type) level. Here, we are defining a measure to be a specific type or configuration of equipment. For example, if a customer installed both 3-lamp and 2-lamp 4-foot linear fluorescent fixtures, both equipment types would be monitored, and different load shapes would be developed for each measure. Furthermore, if a given measure (such as the 3 lamp 4 foot linear fluorescent fixture mentioned above) is installed in multiple activity areas, then multiple load shapes would be developed for that measure for each activity area. In later steps of the analysis, these site-measure-activity area-specific load shapes would be merged onto measure quantity and wattage data that corresponded to that specific measure in that specific activity area for that site. That would then allow us to develop estimates of ex-post savings for that site-measure-activity area combination. Ultimately, all the individual estimates of savings at this fine level of segmentation could be aggregated up to develop a site-specific estimate of savings.

Because loggers were not installed for a full year (approximately seven months on average), the logger data needed to be extrapolated out to a full year of 8760 hours. The 2006-08 Small Commercial lighting logger study investigated the effects of changes in daylighting over the course of the year, and normal changes in business hours that some businesses experience over the course of the year. The study indicated that there was no discernable difference in usage over time that would be related to the effects of changes in daylighting. Therefore, our 8760

extrapolation did not directly take into consideration the effects of changes in daylight levels over the year.

Customers did provide their current business hours, and reported if these hours changed over the course of the year. If a customer reported a change in business hours for a portion of the year, the 8760 profile was adjusted accordingly. Using the monitored data, eight average daily profiles were developed for each day of the week, and separately for holidays, for each logger. For each profile, the midpoint of the open period and the midpoint for the closed period were determined. If a business reported being open more hours during another unmonitored time during the year, the profiles were shifted by expanding the profile around the open midpoint, and collapsing the profile around the closed midpoint. The opposite was true if the business reported being closed more hours, so that the profiles were shifted by expanding the profile around the closed midpoint, and collapsing the profile around the open midpoint. The shifting around the midpoints was chosen for two reasons. First, the load shapes tend to be most consistent for the hours around these two points (generally the peak and the trough of the load shape). Second, if a customer reported a shift in the business hours (same number of open hours, but at a different time) this approach would have the effect of simply just shifting the entire profile. Roughly 10% of customers reported having seasonal schedules. The vast majority of these customers self-reported that they were closed throughout those periods (educational facilities) or, given the length of time that loggers were installed, many sites were monitored for a significant period of time throughout that seasonal change. Less than 1% of the 8760 profiles needed to be adjusted to account for seasonal business hour changes. [5]

Figure G-3 provides an example of a business that was open from 9 a.m. to 5 p.m. during the monitored period, and how the load shape would change if the business hours changed from 10 a.m. to 4 p.m., or 8 a.m. to 6 p.m. Essentially the midpoint at 1 p.m. is being stretched out, or the hours around 1 p.m. are being collapsed; and the converse is true around the closed midpoint at 1 a.m.

[5] It is also important to note that this was the same methodology used for the 2006-08 Small Commercial Contract Group Direct Impact Evaluation

Figure G-3: Example of Load Shape Shift due to Business Hour Changes

The final step after extrapolating each individual logger to an 8760 load profile, is to aggregate each logger up to a site-activity area level by measure. This aggregation only occurs when there is more than one logger at a site in a similar space type. To aggregate the loggers, a weight is associated with each logger that is equal to the number of fixtures/lamps to which the logger corresponds. The result is an 8760 post-retrofit percent-on load shapes, developed at the site, measure, activity area level.

G.6.2 Development of 8760 Post-Retrofit Percent-On Load Shapes using Adjusted Self-Report Schedules

As mentioned previously, lighting loggers were installed in a majority, but not all of the sites. As part of the 2006-08 Small Commercial evaluation, a set of adjustment factors were developed that can be used to adjust self-reported usage schedules to more accurately reflect actual usage, and develop use shapes. The methodology for developing and applying these self-report adjustment factors is described in the IEPEC conference paper "Is the Customer Always Right? A Cost-Effective Method for Estimating Lighting Usage in Commercial Buildings", provided in Appendix I.

This evaluation utilized this same approach, but incorporated both the 2006-08 and any relevant 2010-12 logger collected for this study, to develop adjustment factors to apply to self-reported post-retrofit use shapes for sites that did not have loggers installed. Linear fluorescent, delamping and basic CFL measures were the primary focus of the 2006-08 lighting logger study. Therefore, for these measures, we typically did not install lighting loggers, but instead collected detailed self-report schedules that could be adjusted using the approach documented in Appendix I. Because the 2006-08 Small Commercial Lighting Logger sample focused more on medium and small customers; larger basic CFL, linear fluorescent and delamping projects were not well represented in the 2006-08 sample and were therefore monitored as part of this study. A threshold for project size of 100,000 kWh of ex-ante savings was used, such that any customers with installations above that size were monitored (less than 5% of the 2006-08 projects sampled were above this size, compared to over a third of the sampled sites for this 2010-12 study).

As mentioned, the adjustment factors utilized data collected for both this 2010-12 study as well as the 2006-08 Small Commercial study. This analysis included over 3,200 loggers monitoring CFL's in more than 900 sites and almost 5,300 loggers monitoring linear fluorescents at almost 900 sites. As part of the on-site survey for both studies, participants were asked to estimate their lighting usage by activity area within their building and to provide their business lighting hours. For those customers that were monitored, it was possible to compare the participants' actual lighting usage to both their self-reported lighting usage and their business operating hours. Comparisons were made at the HIM, building type and activity area level. Furthermore, rather than simply comparing annual operating hours, comparisons were made for four different use periods (relative to self-reported business hours): Opening Shoulder, Open, Closed Shoulder, or Closed. The Open period was defined as all hours of the day for which the business was open. The Opening and Closing shoulders were defined as the two hours before opening and after closing, respectively. The Closed period was defined as all hours for which the business was closed, and not in one of the two shoulder periods. For the open period, a ratio of actual logger to self-report usage could be estimated by HIM, building type, activity area, and usage period. Then these ratios, or adjustment factors, could then be applied to a self-report schedule by building type, activity area, for the open period. However, for the closed and shoulder periods, rather than develop and apply adjustment factors, average usages values were estimated from the logger sample and these usage values were used directly for those time periods. The reason why adjustment factors were not developed and applied to these periods is because the self-reported usage during these periods was often claimed to be zero. A zero value cannot be adjusted by a multiplicative factor, there for a constant factor was used. Again, this constant factor was the actual average usage found in the logger sample for those time periods, and was applied by HIM, building type and activity area.

By applying the adjustment factors to the open time period, and the usage values to the closed and shoulder time periods, an 8,760 load shapes could be developed at the measure and activity

area level. This is consistent with the same fine level of segmentation as described in the previous section for the post-retrofit logger data.

To validate this process, we took the sample of 2010-12 small and medium linear fluorescent, delamping and CFL participants that were monitored in this study and created an adjusted self-report estimate of annual operating hours. For this sample of 2010-12 monitored participants, we then compared their actual logger results to their adjusted self-report results. Table G-50 presents a comparison of operating hours developed from the logger data and the adjusted self-report method. Results compare extremely well, with CFLs and linear fluorescent measures differing by less than one percent.

Table G-50: Comparison of Logger Data and Adjusted Self-Report Operating Hours among the 2010-12 Logger Sample

HIM	2010-12 Logger Data		Adjusted Self Report		Percent Difference
	Op Hours	Std Error	Op Hours	Std Error	
CFL	3,025	156	3,031	111	0.2%
Linears	2,348	34	2,352	25	0.1%

G.6.3 Final 8760 Post-Retrofit Percent-On Load Shapes

As mentioned, both the logger data and adjusted self-report schedules were capable of developing 8760 post-retrofit percent-on load shapes at the site, measure, activity area level. For the purpose of presenting results for this report, these site-measure-activity area level load shapes were aggregated to various levels of segmentation. This allows results to be compared across different levels of segmentation, such as HIM and Gross Program Group. To perform this aggregation, each site-space type profile is weighted to represent the number of lamps/fixtures being represented in the population. Table G-51 through Table G-57 provide the average annual operating hours and coincident peak factors for the on-site sample by HIM and Gross Program Group.

Table G-51: Post-Retrofit Annual Hours of Operation and Coincident Factors by Gross Program Group for CFL Basic

Gross Program Group	Sites	Annual Op Hours	Relative Precision	Coincident Factors	Relative Precision
PG&E Deemed					
PG&E Custom	1	5,191		66%	
PG&E 3P	23	2,537	15%	64%	16%
PG&E LGP/DI	55	1,158	15%	17%	18%
PG&E Total	**79**	**1,543**	**13%**	**27%**	**15%**
SCE DI	64	1,303	13%	27%	15%
SCE Deemed					
SCE Custom					
SCE 3P	16	2,482	20%	48%	25%
SCE LGP	2	467	6%	7%	131%
SCE Total	**82**	**1,413**	**12%**	**29%**	**13%**
SDGE DI	29	2,064	17%	38%	22%
SDGE Deemed	8	2,863	16%	39%	33%
SDGE Custom	2	1,140	104%	0%	2628%
SDGE 3P/LGP	6	4,004	33%	72%	49%
SDG&E Total	**45**	**1,895**	**15%**	**23%**	**31%**
SW DI	93	1,407	11%	28%	12%
SW Deemed	8	2,863	16%	39%	33%
SW Custom	3	1,789	104%	11%	242%
SW 3P	45	2,785	11%	61%	12%
SW LGP	57	1,151	15%	17%	18%
Statewide	**206**	**1,565**	**8%**	**27%**	**10%**

Please note that there are a few Custom program participants shown above in Table G-51 and below in Table G-52 that installed CFLs. Screw-in CFLs are not eligible measures under the Statewide Core Calculated programs, but the measures installed here were pin-based CFLs (not screw-ins), which are eligible. Furthermore, one site installed screw-in CFLs under the Savings by Design program, which requires that measures have at least a five year measure life. In this instance, the CFLs were found to only have operated for approximately 1,000 hours per year, so they would exceed the 5 year measure life requirement.

Table G-52: Post-Retrofit Annual Hours of Operation and Coincident Factors by Gross Program Group for CFL Reflectors

Gross Program Group	Sites	Annual Op Hours	Relative Precision	Coincident Factors	Relative Precision
PG&E Deemed	10	5,004	20%	90%	10%
PG&E Custom	1	7,472		85%	
PG&E 3P	1	4,432		54%	
PG&E LGP/DI	30	2,869	16%	47%	17%
PG&E Total	**42**	**4,193**	**12%**	**69%**	**10%**
SCE DI	36	2,593	14%	56%	13%
SCE Deemed	15	1,320	35%	20%	50%
SCE Custom					
SCE 3P					
SCE LGP	5	1,907	33%	34%	41%
SCE Total	**56**	**2,404**	**12%**	**51%**	**12%**
SDGE DI	20	2,224	21%	47%	25%
SDGE Deemed	9	4,408	40%	62%	32%
SDGE Custom	1	7,271		80%	
SDGE 3P/LGP					
SDG&E Total	**30**	**3,632**	**22%**	**57%**	**18%**
SW DI	56	2,572	11%	56%	11%
SW Deemed	34	3,824	16%	65%	14%
SW Custom	2	7,457	5%	85%	11%
SW 3P	1	4,432		54%	
SW LGP	35	2,804	14%	46%	16%
Statewide	**128**	**3,107**	**8%**	**57%**	**7%**

Table G-53: Post-Retrofit Annual Hours of Operation and Coincident Factors by Gross Program Group for Linear Fluorescents

Gross Program Group	Sites	Annual Op Hours	Relative Precision	Coincident Factors	Relative Precision
PG&E Deemed	41	2,537	10%	51%	10%
PG&E Custom	18	4,869	10%	77%	7%
PG&E 3P	37	2,801	15%	42%	13%
PG&E LGP/DI	91	2,626	6%	58%	5%
PG&E Total	**187**	**2,973**	**5%**	**57%**	**4%**
SCE DI	101	2,182	7%	51%	6%
SCE Deemed	56	3,968	7%	61%	6%
SCE Custom	16	5,653	12%	88%	6%
SCE 3P	38	2,215	12%	37%	11%
SCE LGP	24	3,482	10%	60%	7%
SCE Total	**235**	**3,377**	**4%**	**58%**	**3%**
SDGE DI	53	2,637	8%	62%	7%
SDGE Deemed	52	3,010	9%	52%	7%
SDGE Custom	2	2,971	77%	34%	76%
SDGE 3P/LGP	9	5,724	13%	82%	9%
SDG&E Total	**116**	**4,020**	**6%**	**66%**	**4%**
SW DI	154	2,245	5%	52%	5%
SW Deemed	149	3,463	5%	57%	4%
SW Custom	36	5,262	8%	82%	4%
SW 3P	84	3,687	8%	55%	6%
SW LGP	115	2,768	5%	58%	4%
Statewide	**538**	**3,331**	**3%**	**59%**	**2%**

Table G-54: Post-Retrofit Annual Hours of Operation and Coincident Factors by Gross Program Group for Delamping

Gross Program Group	Sites	Annual Op Hours	Relative Precision	Coincident Factors	Relative Precision
PG&E Deemed	23	2,639	16%	52%	14%
PG&E Custom	5	3,847	13%	70%	17%
PG&E 3P	25	2,365	13%	50%	14%
PG&E LGP/DI	57	1,925	7%	42%	8%
PG&E Total	**110**	**2,204**	**6%**	**46%**	**6%**
SCE DI	26	2,813	18%	63%	13%
SCE Deemed	39	2,570	8%	54%	9%
SCE Custom	3	2,804	8%	68%	8%
SCE 3P	14	2,514	15%	47%	14%
SCE LGP	9	2,485	11%	61%	13%
SCE Total	**91**	**2,667**	**5%**	**58%**	**5%**
SDGE DI	2	2,316	0%	55%	0%
SDGE Deemed	23	3,133	18%	44%	14%
SDGE Custom	1	8,760		100%	
SDGE 3P/LGP	1	7,651		89%	
SDG&E Total	**27**	**3,591**	**17%**	**49%**	**14%**
SW DI	28	2,812	18%	63%	13%
SW Deemed	85	2,661	7%	52%	6%
SW Custom	9	3,028	11%	69%	6%
SW 3P	40	2,518	9%	48%	8%
SW LGP	66	1,948	7%	43%	8%
Statewide	**228**	**2,555**	**4%**	**54%**	**4%**

Table G-55: Post-Retrofit Annual Hours of Operation and Coincident Factors by Gross Program Group for High Bay

Gross Program Group	Sites	Annual Op Hours	Relative Precision	Coincident Factors	Relative Precision
PG&E Deemed	40	3,821	10%	67%	7%
PG&E Custom					
PG&E 3P	24	3,988	16%	54%	15%
PG&E LGP/DI	31	2,340	11%	50%	15%
PG&E Total	**95**	**3,479**	**7%**	**62%**	**6%**
SCE DI	19	2,477	20%	56%	21%
SCE Deemed	42	3,243	11%	65%	7%
SCE Custom					
SCE 3P					
SCE LGP	1	3,431		58%	
SCE Total	**62**	**3,186**	**9%**	**64%**	**7%**
SDGE DI					
SDGE Deemed	23	2,351	13%	42%	16%
SDGE Custom					
SDGE 3P/LGP	1	3,792		45%	
SDG&E Total	**24**	**2,514**	**16%**	**42%**	**16%**
SW DI	19	2,477	20%	56%	21%
SW Deemed	105	3,372	7%	65%	5%
SW Custom					
SW 3P	25	3,965	16%	53%	15%
SW LGP	32	2,400	11%	51%	14%
Statewide	**181**	**3,263**	**5%**	**63%**	**4%**

Table G-56: Post-Retrofit Annual Hours of Operation and Coincident Factors by Gross Program Group for Occupancy Sensors

Gross Program Group	Sites	Annual Op Hours	Relative Precision	Coincident Factors	Relative Precision
PG&E Deemed	39	1,465	16%	28%	19%
PG&E Custom	5	3,088	20%	59%	21%
PG&E 3P	16	1,746	7%	26%	15%
PG&E LGP/DI	31	1,320	19%	31%	20%
PG&E Total	**91**	**1,667**	**10%**	**32%**	**11%**
SCE DI	71	1,197	14%	30%	19%
SCE Deemed	52	2,145	10%	50%	9%
SCE Custom	1	3,600		67%	
SCE 3P	14	1,639	19%	43%	19%
SCE LGP	8	2,637	31%	61%	24%
SCE Total	**146**	**2,108**	**7%**	**48%**	**6%**
SDGE DI	9	798	101%	16%	101%
SDGE Deemed	33	1,459	12%	27%	15%
SDGE Custom					
SDGE 3P/LGP	2	3,140	18%	67%	12%
SDG&E Total	**44**	**1,802**	**11%**	**35%**	**13%**
SW DI	80	1,185	14%	29%	18%
SW Deemed	124	1,827	7%	40%	8%
SW Custom	6	3,372	13%	63%	13%
SW 3P	32	1,960	10%	40%	13%
SW LGP	39	2,078	15%	48%	13%
Statewide	**281**	**1,927**	**5%**	**41%**	**5%**

Table G-57: Post-Retrofit Annual Hours of Operation and Coincident Factors by Gross Program Group for HID

Gross Program Group	Sites	Annual Op Hours	Relative Precision	Coincident Factors	Relative Precision
PG&E Deemed	4	3,698	30%	99%	3%
PG&E Custom	1	8,760		100%	
PG&E 3P					
PG&E LGP/DI	3	1,146	200%	19%	239%
PG&E Total	**8**	**3,508**	**48%**	**72%**	**37%**
SCE DI					
SCE Deemed	6	4,603	8%	99%	3%
SCE Custom	2	3,840	37%	11%	643%
SCE 3P					
SCE LGP					
SCE Total	**8**	**4,362**	**9%**	**71%**	**43%**
SDGE DI					
SDGE Deemed	3	7,575	10%	99%	3%
SDGE Custom	1	5,655		32%	
SDGE 3P/LGP					
SDG&E Total	**4**	**7,243**	**13%**	**87%**	**26%**
SW DI					
SW Deemed	13	5,134	15%	99%	1%
SW Custom	4	5,345	37%	36%	110%
SW 3P					
SW LGP	3	1,146	200%	19%	239%
Statewide	**20**	**4,662**	**17%**	**75%**	**19%**

Table G-58 through Table G-64 provide the average annual operating hours and coincident peak factors for the on-site sample by HIM, Gross Program Group and whether the measure was deemed, small or medium calculated (i.e., not a large calculated project) or large calculated.

Table G-58: Post-Retrofit Annual Hours of Operation and Coincident Factors by Gross Program Group for CFL Basic

Gross Program Group	Deemed			Sm/Med Calculated			Large Calculated		
	n	Annual Op Hours	CFs	n	Annual Op Hours	CFs	n	Annual Op Hours	CFs
PG&E Deemed									
PG&E Custom				1	5,191	66%			
PG&E 3P	22	3,024	82%				1	1,246	16%
PG&E LGP/DI	47	1,381	19%	9	701	13%	3	1,619	25%
PG&E Total	**69**	**1,693**	**31%**	**10**	**1,282**	**20%**	**4**	**1,391**	**20%**
SCE DI	64	1,303	27%						
SCE Deemed									
SCE Custom									
SCE 3P	16	2,482	48%						
SCE LGP	2	467	7%						
SCE Total	**82**	**1,413**	**29%**						
SDGE DI	29	2,064	38%						
SDGE Deemed	8	2,863	39%						
SDGE Custom				2	1,140	0%			
SDGE 3P/LGP	6	4,004	72%						
SDG&E Total	**43**	**2,740**	**48%**	**2**	**1,140**	**0%**			
SW DI	93	1,407	28%						
SW Deemed	8	2,863	39%						
SW Custom				3	1,789	11%			
SW 3P	44	3,066	69%				1	1,246	16%
SW LGP	49	1,365	19%	9	701	13%	3	1,619	25%
Statewide	**194**	**1,689**	**32%**	**12**	**1,225**	**12%**	**4**	**1,391**	**20%**

Although the hours of operation for calculated installations are, for the most part, lower than the deemed installations, it is important to note that these results are based on a small sample of calculated installations. Three of the calculated installations were among participants in the assembly building type, which had very low hours of use.

Table G-59: Post-Retrofit Annual Hours of Operation and Coincident Factors by Gross Program Group for CFL Reflectors

Gross Program Group	Deemed			Sm/Med Calculated			Large Calculated		
	n	Annual Op Hours	CFs	n	Annual Op Hours	CFs	n	Annual Op Hours	CFs
PG&E Deemed	10	5,004	90%						
PG&E Custom				1	7,472	85%			
PG&E 3P							1	4,432	54%
PG&E LGP/DI	23	2,950	39%	4	2,812	60%	3	2,493	28%
PG&E Total	**33**	**4,261**	**71%**	**5**	**4,150**	**67%**	**4**	**3,454**	**41%**
SCE DI	36	2,593	56%						
SCE Deemed	15	1,320	20%						
SCE Custom									
SCE 3P									
SCE LGP	5	1,907	34%						
SCE Total	**56**	**2,404**	**51%**						
SDGE DI	20	2,224	47%						
SDGE Deemed	9	4,408	62%						
SDGE Custom							1	7,271	80%
SDGE 3P/LGP									
SDG&E Total	**29**	**3,526**	**56%**				**1**	**7,271**	**80%**
SW DI	56	2,572	56%						
SW Deemed	34	3,824	65%						
SW Custom				1	7,472	85%	1	7,271	80%
SW 3P							1	4,432	54%
SW LGP	28	2,825	39%	4	2,812	60%	3	2,493	28%
Statewide	**118**	**2,984**	**57%**	**5**	**4,150**	**67%**	**5**	**3,892**	**46%**

Contrary to what was seen for the CFL Basic HIM, the CFL Reflectors have hours of operation for calculated installations that are, for the most part, greater than the deemed installations. Again, it is important to note that these results are based on a small sample of calculated installations. In this case, there are two sites that both have very high hours of use (exceeding 7,000 per year) that are driving the overall results for the calculated segments.

Table G-60: Post-Retrofit Annual Hours of Operation and Coincident Factors by Gross Program Group for Linear Fluorescents

Gross Program Group	Deemed			Sm/Med Calculated			Large Calculated		
	n	Annual Op Hours	CFs	n	Annual Op Hours	CFs	n	Annual Op Hours	CFs
PG&E Deemed	41	2,537	51%						
PG&E Custom				14	5,573	75%	4	3,587	79%
PG&E 3P	35	1,938	34%				2	8,547	96%
PG&E LGP/DI	74	2,830	57%	11	2,276	60%	7	2,706	51%
PG&E Total	**150**	**2,585**	**51%**	**25**	**3,535**	**66%**	**13**	**3,847**	**71%**
SCE DI	101	2,182	51%						
SCE Deemed	56	3,968	61%						
SCE Custom				11	6,446	90%	5	3,444	84%
SCE 3P	36	1,817	34%				2	3,555	46%
SCE LGP	22	2,399	45%				2	3,778	65%
SCE Total	**215**	**3,052**	**54%**	**11**	**6,446**	**90%**	**9**	**3,628**	**66%**
SDGE DI	53	2,637	62%						
SDGE Deemed	52	3,010	52%						
SDGE Custom							2	2,971	34%
SDGE 3P/LGP				7	4,191	74%	2	6,136	84%
SDG&E Total	**105**	**2,891**	**55%**	**7**	**4,191**	**74%**	**4**	**6,094**	**83%**
SW DI	154	2,245	52%						
SW Deemed	149	3,463	57%						
SW Custom				25	6,053	83%	11	3,514	80%
SW 3P	71	1,863	34%	7	4,191	74%	6	5,739	77%
SW LGP	96	2,800	56%	11	2,276	60%	9	3,418	60%
Statewide	**470**	**2,899**	**54%**	**43**	**4,438**	**73%**	**26**	**4,507**	**73%**

One result that may appear to be counter-intuitive is the large calculated SCE custom segment, which has lower hours of use than the small/medium calculated segment. The higher small/medium calculated SCE custom result is begin driven by two sites that have very high hours of use.

Table G-61: Post-Retrofit Annual Hours of Operation and Coincident Factors by Gross Program Group for Delamping

Gross Program Group	Deemed			Sm/Med Calculated			Large Calculated		
	n	Annual Op Hours	CFs	n	Annual Op Hours	CFs	n	Annual Op Hours	CFs
PG&E Deemed	23	2,639	52%						
PG&E Custom				3	3,697	75%	2	4,099	62%
PG&E 3P	24	2,361	50%				1	2,723	31%
PG&E LGP/DI	48	1,919	44%	6	1,817	37%	4	2,495	47%
PG&E Total	**95**	**2,137**	**47%**	**9**	**2,104**	**43%**	**7**	**3,044**	**52%**
SCE DI	26	2,813	63%						
SCE Deemed	39	2,570	54%						
SCE Custom				2	2,439	63%	1	2,928	70%
SCE 3P	12	2,007	44%				2	3,528	52%
SCE LGP	8	2,448	62%				1	2,540	60%
SCE Total	**85**	**2,521**	**55%**	**2**	**2,439**	**63%**	**4**	**3,073**	**65%**
SDGE DI	2	2,316	55%						
SDGE Deemed	23	3,133	44%						
SDGE Custom				1	8,760	100%			
SDGE 3P/LGP							1	7,651	89%
SDG&E Total	**25**	**3,127**	**44%**	**1**	**8,760**	**100%**	**1**	**7,651**	**89%**
SW DI	28	2,812	63%						
SW Deemed	85	2,661	52%						
SW Custom				6	3,065	68%	3	3,011	69%
SW 3P	36	2,086	46%				4	3,603	53%
SW LGP	56	1,943	45%	6	1,817	37%	5	2,503	49%
Statewide	**205**	**2,442**	**52%**	**12**	**2,325**	**50%**	**12**	**3,090**	**63%**

Table G-62: Post-Retrofit Annual Hours of Operation and Coincident Factors by Gross Program Group for High Bay

Gross Program Group	Deemed			Sm/Med Calculated			Large Calculated		
	n	Annual Op Hours	CFs	n	Annual Op Hours	CFs	n	Annual Op Hours	CFs
PG&E Deemed	40	3,821	67%						
PG&E Custom									
PG&E 3P	24	3,988	54%						
PG&E LGP/DI	28	2,370	51%	1	3,396	83%	2	851	10%
PG&E Total	**92**	**3,524**	**63%**	**1**	**3,396**	**83%**	**2**	**851**	**10%**
SCE DI	19	2,477	56%						
SCE Deemed	42	3,243	65%						
SCE Custom									
SCE 3P									
SCE LGP	1	3,431	58%						
SCE Total	**62**	**3,186**	**64%**						
SDGE DI									
SDGE Deemed	23	2,351	42%						
SDGE Custom									
SDGE 3P/LGP							1	3,792	45%
SDG&E Total	**23**	**2,351**	**42%**				**1**	**3,792**	**45%**
SW DI	19	2,477	56%						
SW Deemed	105	3,372	65%						
SW Custom									
SW 3P	24	3,988	54%				1	3,792	45%
SW LGP	29	2,437	51%	1	3,396	83%	2	851	10%
Statewide	**177**	**3,273**	**63%**	**1**	**3,396**	**83%**	**3**	**1,784**	**21%**

One result worth noting is the low annual operating hours and coincident factor for the PG&E LGP/DI Large Calculated segment. This result is being driven by a site that was under construction and had very low hours of use.

Table G-63: Post-Retrofit Annual Hours of Operation and Coincident Factors by Gross Program Group for Occupancy Sensors

Gross Program Group	Deemed			Sm/Med Calculated			Large Calculated		
	n	Annual Op Hours	CFs	n	Annual Op Hours	CFs	n	Annual Op Hours	CFs
PG&E Deemed	39	1,465	28%						
PG&E Custom				1	2,015	44%	4	3,739	69%
PG&E 3P	15	1,894	38%				1	1,683	22%
PG&E LGP/DI	24	1,677	40%	4	205	5%	3	655	16%
PG&E Total	**78**	**1,496**	**29%**	**5**	**1,603**	**35%**	**8**	**2,569**	**42%**
SCE DI	71	1,197	30%						
SCE Deemed	52	2,145	50%						
SCE Custom							1	3,600	67%
SCE 3P	13	1,297	34%				1	2,007	52%
SCE LGP	6	2,865	46%				2	2,576	65%
SCE Total	**142**	**1,938**	**46%**				**4**	**3,014**	**63%**
SDGE DI	9	798	16%						
SDGE Deemed	33	1,459	27%						
SDGE Custom									
SDGE 3P/LGP				1	2,533	56%	1	3,165	68%
SDG&E Total	**42**	**1,431**	**26%**	**1**	**2,533**	**56%**	**1**	**3,165**	**68%**
SW DI	80	1,185	29%						
SW Deemed	124	1,827	40%						
SW Custom				1	2,015	44%	5	3,646	67%
SW 3P	28	1,528	36%	1	2,533	56%	3	2,166	42%
SW LGP	30	2,007	42%	4	205	5%	5	2,479	62%
Statewide	**262**	**1,747**	**39%**	**6**	**1,636**	**36%**	**13**	**2,879**	**57%**

Table G-64: Post-Retrofit Annual Hours of Operation and Coincident Factors by Gross Program Group for HID

Gross Program Group	Deemed			Sm/Med Calculated			Large Calculated		
	n	Annual Op Hours	CFs	n	Annual Op Hours	CFs	n	Annual Op Hours	CFs
PG&E Deemed	4	3,698	99%						
PG&E Custom				1	8,760	100%			
PG&E 3P									
PG&E LGP/DI				2	4,968	94%	1	676	9%
PG&E Total	**4**	**3,698**	**99%**	**3**	**7,931**	**99%**	**1**	**676**	**9%**
SCE DI									
SCE Deemed	6	4,603	99%						
SCE Custom							2	3,840	11%
SCE 3P									
SCE LGP									
SCE Total	**6**	**4,603**	**99%**				**2**	**3,840**	**11%**
SDGE DI									
SDGE Deemed	3	7,575	99%						
SDGE Custom							1	5,655	32%
SDGE 3P/LGP									
SDG&E Total	**3**	**7,575**	**99%**				**1**	**5,655**	**32%**
SW DI									
SW Deemed	13	5,134	99%						
SW Custom				1	8,760	100%	3	4,269	16%
SW 3P									
SW LGP				2	4,968	94%	1	676	9%
Statewide	**13**	**5,134**	**99%**	**3**	**7,931**	**99%**	**4**	**2,769**	**13%**

Table G-65 through Table G-71 provide the average annual operating hours and coincident peak factors for the on-site sample by HIM and Building Type. Only building types with a sample size of at least 8 are provided.

Table G-65: Post-Retrofit Annual Hours of Operation and Coincident Factors by Building Type for CFL Basic

Building Type	Sites	Annual Op Hours	Relative Precision	Coincident Factors	Relative Precision
Assembly	31	1,132	20%	17%	27%
Education	21	1,523	20%	23%	26%
Health/Medical - Clinic	14	1,579	19%	34%	21%
Office - Small	18	1,501	24%	34%	28%
Office - Large					
Other	19	1,535	26%	14%	41%
Other Industrial	20	1,033	18%	24%	17%
Restaurant	14	3,403	18%	59%	24%
Retail - Small	48	1,324	17%	27%	21%
Retail - Large	16	2,977	12%	76%	17%
Warehouse	9	726	97%	11%	42%

Table G-66: Post-Retrofit Annual Hours of Operation and Coincident Factors by Building Type for CFL Reflectors

Building Type	Sites	Annual Op Hours	Relative Precision	Coincident Factors	Relative Precision
Assembly	17	4,231	23%	57%	22%
Education					
Health/Medical - Clinic	16	2,485	18%	53%	11%
Office - Small	14	1,825	22%	40%	28%
Office - Large					
Other	33	3,459	17%	55%	18%
Other Industrial	10	1,863	26%	50%	27%
Restaurant	8	3,397	36%	49%	36%
Retail - Small	30	3,309	14%	71%	13%
Retail - Large					
Warehouse					

Table G-67: Post-Retrofit Annual Hours of Operation and Coincident Factors by Building Type for Linear Fluorescents

Building Type	Sites	Annual Op Hours	Relative Precision	Coincident Factors	Relative Precision
Assembly	49	2,362	8%	44%	9%
Education	49	1,499	6%	26%	9%
Health/Medical - Clinic	24	1,939	16%	42%	14%
Office - Small	46	2,287	8%	57%	6%
Office - Large	24	4,333	10%	75%	6%
Other	47	4,880	9%	67%	7%
Other Industrial	75	2,802	6%	56%	5%
Restaurant	12	4,232	21%	60%	20%
Retail - Small	120	2,890	5%	71%	4%
Retail - Large	46	4,862	6%	75%	4%
Warehouse	47	2,482	9%	51%	7%

Table G-68: Post-Retrofit Annual Hours of Operation and Coincident Factors by Building Type for Delamping

Building Type	Sites	Annual Op Hours	Relative Precision	Coincident Factors	Relative Precision
Assembly	28	1,636	10%	28%	13%
Education	22	1,659	9%	36%	13%
Health/Medical - Clinic					
Office - Small	19	2,410	14%	60%	10%
Office - Large	15	2,893	7%	62%	6%
Other	22	3,546	17%	64%	10%
Other Industrial	38	2,544	9%	54%	8%
Restaurant					
Retail -Small	41	2,885	8%	76%	8%
Retail -Large	20	3,300	9%	73%	8%
Warehouse	24	2,228	10%	47%	11%

A number of the building types had lower operating hours for delamping than for linear fluorescents. Typically, delamping is done in conjunction with a linear fluorescent retrofit. However, the larger sites, which typically have higher operating hours, did not tend to do delamping as frequently as the smaller sites. This is the main reason why we see larger operating hours associated with the linear fluorescent installations compared to delamping.

Table G-69: Post-Retrofit Annual Hours of Operation and Coincident Factors by Building Type for High Bay

Building Type	Sites	Annual Op Hours	Relative Precision	Coincident Factors	Relative Precision
Assembly	10	4,193	21%	73%	16%
Education	8	2,883	12%	42%	16%
Health/Medical - Clinic					
Office - Small					
Office - Large					
Other	14	4,442	15%	64%	15%
Other Industrial	57	3,193	10%	60%	8%
Restaurant					
Retail - Small	24	2,356	13%	60%	14%
Retail - Large	26	3,762	16%	70%	11%
Warehouse	42	2,912	8%	65%	7%

Table G-70: Post-Retrofit Annual Hours of Operation and Coincident Factors by Building Type for Occupancy Sensors

Building Type	Sites	Annual Op Hours	Relative Precision	Coincident Factors	Relative Precision
Assembly	27	763	27%	15%	33%
Education	25	1,948	11%	45%	11%
Health/Medical - Clinic	16	1,333	14%	34%	17%
Office - Small	14	1,256	28%	31%	36%
Office - Large	9	2,551	14%	64%	14%
Other	29	993	20%	15%	23%
Other Industrial	56	2,716	10%	52%	8%
Restaurant					
Retail - Small	45	1,037	19%	30%	18%
Retail - Large	20	2,584	11%	68%	10%
Warehouse	40	2,136	10%	50%	11%

Table G-71: Post-Retrofit Annual Hours of Operation and Coincident Factors by Building Type for HID

Building Type	Sites	Annual Op Hours	Relative Precision	Coincident Factors	Relative Precision
Assembly					
Education					
Health/Medical - Clinic					
Office - Small					
Office - Large					
Other	20	4,662	17%	75%	19%
Other Industrial					
Restaurant					
Retail - Small					
Retail - Large					
Warehouse					

G.6.4 Development of 8760 Pre-Retrofit Percent-On Load Shapes using Adjusted Self-Report Schedules

For all measures, except occupancy sensors, it is assumed that the pre-retrofit usage is equal to the post-retrofit usage. The 2006-08 Small Commercial Evaluation had a pre-post monitoring study, where it was found that there was no discernible difference between the pre- and post-retrofit usage for linear fluorescent and CFL measures (about a 1% difference was found, but it was not statistically significantly different from zero at the 90% confidence level[6]). Therefore, it was determined that the pre-retrofit load shape would utilize the post-retrofit load shape.

However, for the occupancy sensor measures, the savings is generated from a change in operation, making it necessary to have a separate estimate of pre-retrofit usage. Similarly, as discussed in Section G.4, for measures that are installed in conjunction with an occupancy sensor, the non-control measures are assumed to have an impact that corresponds to the same operating conditions as the previous equipment. Therefore the pre-retrofit operating hours are used for both the pre- and post-retrofit period.

Therefore, for occupancy sensors and measures installed in conjunction with occupancy sensors, pre-retrofit load shapes must be estimated. As part of the on-site survey, detailed self-report schedules are also gathered for the pre-retrofit period. These self-report schedules are adjusted in the same manner as described above to develop 8,760 load shapes at the site, measure and activity area level.

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[6] 2006-08 Small Commercial Contract Group Direct Impact Evaluation, Appendix G.7.2, page G-62.

Again, for the purpose of presenting results for this report, these site-measure-activity area level load shapes were aggregated to various levels of segmentation. This allows results to be compared across different levels of segmentation, such as Gross Program Group. To perform this aggregation, each site-space type profile is weighted to represent the number of lamps/fixtures being represented in the population.

Table G-72 provides the average pre-retrofit annual operating hours and coincident peak factors for the on-site sample of occupancy sensor participants by Gross Program Group.

Table G-72: Pre-Retrofit Annual Hours of Operation and Coincident Factors by Gross Program Group for Occupancy Sensors

Gross Program Group	Sites	Annual Op Hours	Relative Precision	Coincident Factors	Relative Precision
PG&E Deemed	39	2,080	15%	40%	17%
PG&E Custom	5	5,259	24%	69%	20%
PG&E 3P	16	4,606	9%	73%	7%
PG&E LGP/DI	31	2,200	12%	47%	16%
PG&E Total	**91**	**2,733**	**10%**	**47%**	**10%**
SCE DI	71	2,038	10%	45%	12%
SCE Deemed	52	3,019	7%	66%	6%
SCE Custom	1	4,551	0%	87%	0%
SCE 3P	14	2,704	10%	60%	13%
SCE LGP	8	3,688	24%	72%	17%
SCE Total	**146**	**3,005**	**5%**	**64%**	**4%**
SDGE DI	9	1,251	68%	25%	65%
SDGE Deemed	33	2,712	13%	45%	13%
SDGE Custom					
SDGE 3P/LGP	2	3,444	20%	74%	7%
SDG&E Total	**44**	**2,823**	**11%**	**51%**	**10%**
SW DI	80	2,015	10%	45%	12%
SW Deemed	124	2,638	6%	54%	6%
SW Custom	6	4,867	17%	79%	13%
SW 3P	32	3,656	8%	68%	6%
SW LGP	39	3,057	11%	61%	10%
Statewide	**281**	**2,894**	**4%**	**57%**	**4%**

Table G-73 presents the average pre-retrofit and post-retrofit annual operating hours and coincident peak factors for the on-site sample of occupancy sensors by Gross Program Group, which indicates on average how much the occupancy sensors are reducing usage.

Table G-73: Pre- and Post-Retrofit Annual Hours of Operation and Coincident Factors by Gross Program Group for Occupancy Sensors

Gross Program Group	Sites	Pre-Retrofit Annual Op Hours	Post-Retrofit Annual Op Hours	Percent Change in Annual Op Hours	Pre-Retrofit Coincident Factors	Post-Retrofit Coincident Factors	Percent Change in Peak Demand
PG&E Deemed	39	2,080	1,465	30%	40%	28%	29%
PG&E Custom	5	5,259	3,088	41%	69%	59%	14%
PG&E 3P	16	4,606	1,746	62%	73%	26%	64%
PG&E LGP/DI	31	2,200	1,320	40%	47%	31%	33%
PG&E Total	**91**	**2,733**	**1,667**	**39%**	**47%**	**32%**	**33%**
SCE DI	71	2,038	1,197	41%	45%	30%	35%
SCE Deemed	52	3,019	2,145	29%	66%	50%	23%
SCE Custom	1	4,551	3,600	21%	87%	67%	23%
SCE 3P	14	2,704	1,639	39%	60%	43%	29%
SCE LGP	8	3,688	2,637	28%	72%	61%	16%
SCE Total	**146**	**3,005**	**2,108**	**30%**	**64%**	**48%**	**24%**
SDGE DI	9	1,251	798	36%	25%	16%	34%
SDGE Deemed	33	2,712	1,459	46%	45%	27%	41%
SDGE Custom							
SDGE 3P/LGP	2	3,444	3,140	9%	74%	67%	9%
SDG&E Total	**44**	**2,823**	**1,802**	**36%**	**51%**	**35%**	**31%**
SW DI	80	2,015	1,185	41%	45%	29%	35%
SW Deemed	124	2,638	1,827	31%	54%	40%	26%
SW Custom	6	4,867	3,372	31%	79%	63%	19%
SW 3P	32	3,656	1,960	46%	68%	40%	41%
SW LGP	39	3,057	2,078	32%	61%	48%	21%
Statewide	**281**	**2,894**	**1,927**	**33%**	**57%**	**41%**	**27%**

Table G-74 provides the average pre-retrofit annual operating hours and coincident peak factors for the on-site sample of occupancy sensor participants by Gross Program Group and whether the measure was deemed, small or medium calculated (i.e., not a large calculated project) or large calculated.

Table G-74: Pre-Retrofit Annual Hours of Operation and Coincident Factors by Gross Program Group for Occupancy Sensors

Gross Program Group	Deemed			Sm/Med Calculated			Large Calculated		
	n	Annual Op Hours	CFs	n	Annual Op Hours	CFs	n	Annual Op Hours	CFs
PG&E Deemed	39	2,080	40%						
PG&E Custom				1	3,214	45%	4	6,499	83%
PG&E 3P	15	2,816	54%				1	5,360	81%
PG&E LGP/DI	24	2,592	57%	4	1,079	15%	3	1,117	19%
PG&E Total	**78**	**2,141**	**41%**	**5**	**2,727**	**38%**	**8**	**5,769**	**81%**
SCE DI	71	2,038	45%						
SCE Deemed	52	3,019	66%						
SCE Custom							1	4,551	87%
SCE 3P	13	2,202	51%				1	3,242	70%
SCE LGP	6	4,171	53%				2	3,559	77%
SCE Total	**142**	**2,812**	**61%**				**4**	**4,032**	**81%**
SDGE DI	9	1,251	25%						
SDGE Deemed	33	2,712	45%						
SDGE Custom									
SDGE 3P/LGP				1	2,610	56%	1	3,478	74%
SDG&E Total	**42**	**2,650**	**45%**	**1**	**2,610**	**56%**	**1**	**3,478**	**74%**
SW DI	80	2,015	45%						
SW Deemed	124	2,638	54%						
SW Custom				1	3,214	45%	5	5,201	85%
SW 3P	28	2,441	52%	1	2,610	56%	3	4,266	76%
SW LGP	30	3,031	56%	4	1,079	15%	5	3,436	74%
Statewide	**262**	**2,570**	**53%**	**6**	**2,723**	**39%**	**13**	**4,563**	**80%**

Table G-75 through Table G-77 provide the average pre-retrofit annual operating hours and coincident peak factors for the on-site sample of occupancy sensor participants by Gross Program Group and whether the measure was deemed, small or medium calculated (i.e., not a large calculated project) or large calculated.

Table G-75: Summary of Pre- and Post-Retrofit Annual Hours of Operation and Coincident Factors by Gross Program Group for Deemed Occupancy Sensors

Gross Program Group	Sites	Pre-Retrofit Annual Op Hours	Post-Retrofit Annual Op Hours	Percent Change in Annual Op Hours	Pre-Retrofit Coincident Factors	Post-Retrofit Coincident Factors	Percent Change in Peak Demand
PG&E Deemed	39	2,080	1,465	30%	40%	28%	29%
PG&E Custom							
PG&E 3P	15	2,816	1,894	33%	54%	38%	31%
PG&E LGP/DI	24	2,592	1,677	35%	57%	40%	31%
PG&E Total	**78**	**2,141**	**1,496**	**30%**	**41%**	**29%**	**30%**
SCE DI	71	2,038	1,197	41%	45%	30%	35%
SCE Deemed	52	3,019	2,145	29%	66%	50%	23%
SCE Custom							
SCE 3P	13	2,202	1,297	41%	51%	34%	33%
SCE LGP	6	4,171	2,865	31%	53%	46%	13%
SCE Total	**142**	**2,812**	**1,938**	**31%**	**61%**	**46%**	**25%**
SDGE DI	9	1,251	798	36%	25%	16%	34%
SDGE Deemed	33	2,712	1,459	46%	45%	27%	41%
SDGE Custom							
SDGE 3P/LGP							
SDG&E Total	**42**	**2,650**	**1,431**	**46%**	**45%**	**26%**	**41%**
SW DI	80	2,015	1,185	41%	45%	29%	35%
SW Deemed	124	2,638	1,827	31%	54%	40%	26%
SW Custom							
SW 3P	28	2,441	1,528	37%	52%	36%	32%
SW LGP	30	3,031	2,007	34%	56%	42%	26%
Statewide	**262**	**2,570**	**1,747**	**32%**	**53%**	**39%**	**27%**

Table G-76: Summary of Pre- and Post-Retrofit Annual Hours of Operation and Coincident Factors by Gross Program Group for Small/Medium Calculated Occupancy Sensors

Gross Program Group	Sites	Pre-Retrofit Annual Op Hours	Post-Retrofit Annual Op Hours	Percent Change in Annual Op Hours	Pre-Retrofit Coincident Factors	Post-Retrofit Coincident Factors	Percent Change in Peak Demand
PG&E Deemed							
PG&E Custom	1	3,214	2,015	37%	45%	44%	2%
PG&E 3P							
PG&E LGP/DI	4	1,079	205	81%	15%	5%	67%
PG&E Total	**5**	**2,727**	**1,603**	**41%**	**38%**	**35%**	**8%**
SCE DI							
SCE Deemed							
SCE Custom							
SCE 3P							
SCE LGP							
SCE Total							
SDGE DI							
SDGE Deemed							
SDGE Custom							
SDGE 3P/LGP	1	2,610	2,533	3%	56%	56%	0%
SDG&E Total	**1**	**2,610**	**2,533**	**3%**	**56%**	**56%**	**0%**
SW DI							
SW Deemed							
SW Custom	1	3,214	2,015	37%	45%	44%	2%
SW 3P	1	2,610	2,533	3%	56%	56%	0%
SW LGP	4	1,079	205	81%	15%	5%	67%
Statewide	**6**	**2,723**	**1,636**	**40%**	**39%**	**36%**	**8%**

Table G-77: Summary of Pre- and Post-Retrofit Annual Hours of Operation and Coincident Factors by Gross Program Group for Large Calculated Occupancy Sensors

Gross Program Group	Sites	Pre-Retrofit Annual Op Hours	Post-Retrofit Annual Op Hours	Percent Change in Annual Op Hours	Pre-Retrofit Coincident Factors	Post-Retrofit Coincident Factors	Percent Change in Peak Demand
PG&E Deemed							
PG&E Custom	4	6,499	3,739	42%	83%	69%	17%
PG&E 3P	1	5,360	1,683	69%	81%	22%	73%
PG&E LGP/DI	3	1,117	655	41%	19%	16%	14%
PG&E Total	**8**	**5,769**	**2,569**	**55%**	**81%**	**42%**	**47%**
SCE DI							
SCE Deemed							
SCE Custom	1	4,551	3,600	21%	87%	67%	23%
SCE 3P	1	3,242	2,007	38%	70%	52%	26%
SCE LGP	2	3,559	2,576	28%	77%	65%	16%
SCE Total	**4**	**4,032**	**3,014**	**25%**	**81%**	**63%**	**22%**
SDGE DI							
SDGE Deemed							
SDGE Custom							
SDGE 3P/LGP	1	3,478	3,165	9%	74%	68%	9%
SDG&E Total	**1**	**3,478**	**3,165**	**9%**	**74%**	**68%**	**9%**
SW DI							
SW Deemed							
SW Custom	5	5,201	3,646	30%	85%	67%	21%
SW 3P	3	4,266	2,166	49%	76%	42%	45%
SW LGP	5	3,436	2,479	28%	74%	62%	16%
Statewide	**13**	**4,563**	**2,879**	**37%**	**80%**	**57%**	**29%**

Table G-78 provides the average pre-retrofit annual operating hours and coincident peak factors for the on-site sample of occupancy sensor participants by building Type.

Table G-78: Pre-Retrofit Annual Hours of Operation and Coincident Factors by Building Type for Occupancy Sensors

Building Type	Sites	Annual Op Hours	Relative Precision	Coincident Factors	Relative Precision
Assembly	27	1,659	18%	31%	22%
Education	25	2,905	6%	56%	9%
Health/Medical - Clinic	16	2,766	16%	64%	16%
Office - Small	14	1,875	19%	41%	26%
Office - Large	9	3,828	16%	76%	7%
Other	29	1,520	22%	22%	23%
Other Industrial	56	3,818	7%	73%	5%
Restaurant					
Retail - Small	45	1,925	13%	50%	13%
Retail - Large	20	3,362	8%	77%	9%
Warehouse	40	3,260	8%	69%	6%

Table G-79 presents the average pre-retrofit and post-retrofit annual operating hours and coincident peak factors for the on-site sample of occupancy sensors by building type.

Table G-79: Pre- and Post-Retrofit Annual Hours of Operation and Coincident Factors by Building Type for Occupancy Sensors

Building Type	Sites	Pre-Retrofit Annual Op Hours	Post-Retrofit Annual Op Hours	Percent Change in Annual Op Hours	Pre-Retrofit Coincident Factors	Post-Retrofit Coincident Factors	Percent Change in Peak Demand
Assembly	27	1,659	763	54%	31%	15%	50%
Education	25	2,905	1,948	33%	56%	45%	20%
Health/Medical - Clinic	16	2,766	1,333	52%	64%	34%	46%
Office - Small	14	1,875	1,256	33%	41%	31%	24%
Office - Large	9	3,828	2,551	33%	76%	64%	16%
Other	29	1,520	993	35%	22%	15%	32%
Other	56	3,818	2,716	29%	73%	52%	28%
Restaurant							
Retail - Small	45	1,925	1,037	46%	50%	30%	41%
Retail - Large	20	3,362	2,584	23%	77%	68%	12%
Warehouse	40	3,260	2,136	34%	69%	50%	28%

G.6.5 Development of Title 24 Baseline 8760 Percent-On Load Shapes using Adjusted Self-Report Schedules

As discussed in Section G.4, when occupancy sensors are installed in conjunction with other measures, their savings can be affected if the accompanying measure has a standard practice that would trigger Title 24. We are assuming that Title 24 would only be triggered in the case when a mercury vapor HID is being replaced with a standard practice measure which is a pulse-start metal halide. To trigger Title 24 for this type of retrofit, at least 50% of the lighting had to have been retrofitted. In this instance, Title 24 would require some type of control device to be put in place. One component of this requirement is an automatic turnoff device.

In order to develop the baseline 8760 load shapes, the adjusted self-report pre-retrofit load shapes developed as discussed in Section G.4 are slightly modified to allow for the use of an automatic turnoff device that would be required by Title 24. During closed business hours, the lighting system is assumed to have an automatic shutoff, so we would expect the lighting to be off, unless someone was to over-ride the control system. Similarly, the post-period operating schedules during closed business hours would also be off due to the occupancy sensor, unless someone was present. Therefore, we assume that the baseline and post-period operating hours are the same during business hours, since both would be off unless someone was present. During open period, the baseline operating schedule will rely on the adjusted self-reported approach as discussed in Section G.4.

G.7 Development of Pre- and Post- and Baseline Retrofit Wattages

Another set of key inputs into the gross savings calculations are the pre, post and standard practice wattage values. Various approaches and data sources were utilized to develop these wattage values, which are discussed in this section. More specifically, this section will discuss the development of the following:

- Post-Retrofit Wattages – based on spot watt and make and model information gathered on site
- Pre-Retrofit Wattages – based on self-report data and other information gathered on site
- Standard Practice Baseline Wattages – based on data gathered for the Commercial Market Share Tracking (CMST) study

Although the gross savings analysis is done on a site level basis, average segment level wattage results are also presented in this section by various levels of segmentation, including HIM, measure configuration, IOU, Gross Program Group and Claim Basis (in which sites are classified as those that have measures that are deemed, small/medium calculated, or large calculated, and where large calculated sites have project level savings of 250,000 kWh or more).

G.7.1 Post-Retrofit Wattages

Post-retrofit wattages were primarily based on make and model information gathered on site, as discussed in Section G.3.3. For some measures, like basic CFLs, the on-site auditor was able to gather the wattage directly from the lamp. For high bay sites where fixtures were not accessible or when it was not as efficient or accurate to use time-of-use data logging, electric panel logging was performed. When this was the case, spot watt measurements were taken and used to estimate post-retrofit wattages instead of the make and model information. In the limited cases where it was not possible to gather make and model information, or perform spot watt measurements, we attempted to use the IOU measure name, which often times would specify the wattage of the measure being installed. If this was not available, average wattage values were used from the sample that had populated values. Averages were taken by either measure name (e.g., CFLs whose measure name was a wattage range) or fixture configuration (e.g., 4- foot, 3-lamp T8 fixtures), IOU and Gross Program Group. For example, if a customer installed a 3-lamp, 4-foot T8 fixture under the PG&E Deemed program, but wattage information was not collected, then the average installed wattage from all other 3-lamp, 4-foot T8 fixtures installed under the PG&E Deemed program was used. If there was not sufficient sample with the IOU-Gross Program Group, then averages were taken by IOU, and finally taken at a statewide level if the IOU level was not sufficient.

Table G-80 through Table G-85 present the average post-retrofit wattages found in the on-site sample for each HIM by measure group or fixture configuration. Delamping measures have a zero post-retrofit wattage, so are not shown below.

Table G-80: CFL Basic Manufacturer Post-Wattage Estimates by IOU and Measure Category

IOU	Measure Category	Post-Retrofit Wattage	Wattage Observations	Relative Precision
PGE	5-13W CFL	12	61	4%
PGE	14-24W CFL	20	100	3%
PGE	25-30W CFL	26	20	1%
PGE	> 30W CFL	39	7	9%
SCE	5-13W CFL	14	53	5%
SCE	14-24W CFL	22	28	4%
SCE	25-30W CFL	24	11	12%
SDGE	5-13W CFL	14	3	7%
SDGE	14-24W CFL	20	51	6%
SDGE	25-30W CFL	32	1	

Note that the post-retrofit wattage for the SCE and SDGE 5-13W CFL measure category is 14 Watts, which exceeds the range for this category. For this measure category, there were a

number of sites that actually installed 14W CFLs. Every possible combination of CFL wattage is not a separate IOU measure name, so in these instances the 14W CFLs were grouped with the 13W CFL measure name.

Table G-81: CFL Reflector Manufacturer Post-Wattage Estimates by IOU and Measure Category

IOU	Measure Category	Post-Retrofit Wattage	Wattage Observations	Relative Precision
PGE	5-13W CFL	15	4	13%
PGE	14-24W CFL	19	63	4%
PGE	> 30W CFL	35	2	316%
SCE	5-13W CFL	12	9	13%
SCE	14-24W CFL	19	36	6%
SCE	25-30W CFL	23	14	4%
SDGE	14-24W CFL	17	31	6%
SDGE	> 30W CFL	42	1	

Table G-82: Occupancy Sensor Manufacturer Post-Wattage Estimates by IOU and Measure Name

IOU	Measure Name	Post-Retrofit Wattage	Wattage Observations	Relative Precision
PGE	Integrated Occupancy Sensor	183	50	6%
PGE	Non-Integrated Occupancy Sensor	72	79	31%
SCE	Integrated Occupancy Sensor	190	45	7%
SCE	Non-Integrated Occupancy Sensor	270	114	17%
SDGE	Integrated Occupancy Sensor	185	24	27%
SDGE	Non-Integrated Occupancy Sensor	78	25	24%

Table G-83: High Bay Lighting Manufacturer Post-Wattage Estimates by IOU and Configuration

IOU	Configuration	Post-Retrofit Wattage	Wattage Observations	Relative Precision
PGE	4FT-2L-T5	107	1	
PGE	4FT-4L- T5	215	42	1%
PGE	4FT-4L-T8	100	8	4%
PGE	4FT-6L-T5	308	2	19%
PGE	4FT-6L-T8	192	7	2%
SCE	4FT-2L-T5	110	1	
SCE	4FT-2L-T8	58	11	9%
SCE	4FT-4L-T5	215	19	2%
SCE	4FT-4L-T8	116	7	8%
SCE	4FT-6L-T5	180	1	
SCE	4FT-6L-T8	185	5	45%
SDGE	4FT-4L-T5	222	5	3%
SDGE	4FT-6L-T8	197	5	3%

Note that some of the post-retrofit wattages for T5s are significantly higher than for T8s, within the same measure configuration. This is due to the fact that the T5s tend to be high output fixtures, compared to the T8s, which tend to be standard output fixtures.

Table G-84: HID Manufacturer Post-Wattage Estimates by IOU and Measure Category

IOU	Measure Category	Post-Retrofit Wattage	Wattage Observations	Relative Precision
PGE	20-40W Ceramic Metal Halide	33	6	21%
PGE	70-175W Standard Metal Halide	70	1	
PGE	250-320W Pulse-Start Metal Halide	320	1	
SCE	20-40W Ceramic Metal Halide	21	5	15%
SCE	250-320W Pulse-Start Metal Halide	320	2	12%
SCE	1000W High Pressure Sodium	1,032	1	
SDGE	20-40W Ceramic Metal Halide	39	2	14%
SDGE	70-175W Standard Metal Halide	175	1	

Table G-85: Linear Fluorescent Manufacturer Post-Wattage Estimates by IOU and Configuration

IOU	Configuration	Post-Retrofit Wattage	Wattage Observations	Relative Precision
PGE	2FT-1L-T8	16	1	
PGE	2FT-2L-T8	27	5	10%
PGE	3FT-1L-T8	20	1	
PGE	3FT-3L-T8	59	1	
PGE	4FT-1L-T8	25	13	10%
PGE	4FT-2L-T8	54	249	2%
PGE	4FT-3L-T5	121	1	
PGE	4FT-3L-T8	75	16	7%
PGE	4FT-4L-T5	202	1	
PGE	4FT-4L-T8	108	45	5%
PGE	4FT-6L-T8	182	1	
PGE	8FT-1L-T8	57	3	22%
PGE	8FT-2L-T8	103	10	1%
SCE	2FT-1L-T8	15	3	21%
SCE	2FT-2L-T8	27	14	7%
SCE	2FT-4L-T8	52	1	
SCE	3FT-1L-T8	24	3	7%
SCE	3FT-2L-T8	40	2	34%
SCE	4FT-1L-T5	57	1	
SCE	4FT-1L-T8	27	22	7%
SCE	4FT-2L-T5	108	1	
SCE	4FT-2L-T8	52	181	2%
SCE	4FT-3L-T8	86	17	11%
SCE	4FT-4L-T5	216	1	
SCE	4FT-4L-T8	107	65	5%
SCE	4FT-8L-T5	416	1	
SCE	8FT-1L-T8	61	7	10%
SCE	8FT-2L-T8	100	19	3%
SDGE	2FT-1L-T8	16	1	
SDGE	2FT-2L-T8	22	4	8%
SDGE	2FT-4L-T8	58	1	
SDGE	3FT-2L-T8	40	1	
SDGE	4FT-1L-T8	30	13	12%
SDGE	4FT-2L-T5	108	1	
SDGE	4FT-2L-T8	50	70	3%
SDGE	4FT-3L-T8	77	10	4%
SDGE	4FT-4L-T5	191	1	
SDGE	4FT-4L-T8	93	22	4%
SDGE	8FT-2L-T8	118	6	11%

Note that some of the SDGE wattage values are lower than the PG&E and SCE values for the same measure configuration. This is due to SDG&E tending to install more low wattage T8 lamps (25W and 28W) relative to SCE and PG&E.

G.7.2 Pre-Retrofit Wattages

Pre-retrofit wattages were developed using a variety of sources including participant application information, visual inspection on site and self-report information from the participant gathered on site.

For calculated measures, baseline wattage information was frequently documented in the participant's application. This information would be considered the most reliable information because it was gathered while the replaced equipment was still in place. If this was not available, pre-retrofit wattage information was gathered on site by the surveyor. Four different approaches were attempted to gather pre-retrofit wattage for each measure on site. In each case the surveyor tried to gather the same information as described above for the post-retrofit wattages. The first was to locate fixtures that were not retrofitted but in the same area or type of area and match the baseline fixture description. The second approach was to look for spare baseline lamps and ballasts in storage and maintenance areas. The third was to review any documentation regarding the previously installed lamps and fixtures. The forth approach was to gather the contacts' or maintenance staffs' best recollection of the baseline fixture-lamp information. In cases where a participant's application was not available and on-site information was not found describing the pre-wattage, we attempted to use the IOU measure name, which often times would specify the pre-wattage of the measure being replaced.

If pre-retrofit wattage information was not available, average wattage values were used, similar to what was done for the post-wattage values. There are two ways in which unknown wattages were populated. In the first case, the configuration of the replaced equipment is known, but not the wattage. In this case, average wattages can be applied by the pre-configuration using the same approach as described above for post-retrofit wattages.

However, in other cases, the configuration of the replaced equipment is not known. In these instances, all that is known is the measure that was installed. For these cases, average pre-wattages were developed that corresponded to the installed measures, and these average pre-wattages could then be applied to a participant by their installed measure configuration. Again, averages were taken by either measure name (e.g., CFLs whose measure name was a wattage range) or fixture configuration (e.g., 4-foot, 3-lamp T8 fixtures), IOU and Gross Program Group. For example, if a customer installed a 3-lamp, 4-foot T8 fixture under the PG&E Deemed program, but pre-wattage information was not collected, then the average pre-wattage corresponding to all other 3-lamp, 4-foot T8 fixtures installed under the PG&E Deemed program

was used. If there was not sufficient sample with the IOU-Gross Program Group, then averages were taken by IOU, and finally taken at a statewide level if the IOU level was not sufficient.

Table G-86 through Table G-91 present the average pre-retrofit wattages utilized for each HIM by measure group or fixture configuration. Note that occupancy sensors are not presented here, as they only utilize the post-wattage for the measures that are controlled by the sensors.

Table G-86: CFL Basic Manufacturer Pre-Wattage Estimates by IOU and Measure Category

IOU	Measure Category	Pre-Retrofit Wattage	Wattage Observations	Relative Precision
PGE	5-13W CFL	58	53	6%
PGE	14-24W CFL	75	70	13%
PGE	25-30W CFL	105	14	10%
PGE	> 30W CFL	162	5	49%
SCE	5-13W CFL	59	37	2%
SCE	14-24W CFL	68	27	9%
SCE	25-30W CFL	64	10	10%
SDGE	14-24W CFL	132	23	12%

Table G-87: CFL Reflector Manufacturer Pre-Wattage Estimates by IOU and Measure Category

IOU	Measure Category	Pre-Retrofit Wattage	Wattage Observations	Relative Precision
PGE	5-13W CFL	55	4	13%
PGE	14-24W CFL	77	48	7%
PGE	> 30W CFL	250	1	
SCE	5-13W CFL	55	6	17%
SCE	14-24W CFL	62	24	6%
SCE	25-30W CFL	79	12	16%
SDGE	14-24W CFL	36	8	48%

Note that the one large pre-retrofit wattage for the PG&E >30W CFL measure category was a 250W high pressure sodium lamp being replaced by a 42W CFL reflector lamp.

Table G-88: Delamping Manufacturer Pre-Wattage Estimates by IOU and Configuration[7]

IOU	Configuration	Pre-Retrofit Wattage	Wattage Observations	Relative Precision
PGE	(1) 4FT-T12 removed	35	1	
PGE	(1) 4FT-T8 removed	26	16	6%
PGE	(1) 8FT-T12 removed	65	3	41%
PGE	(2) 4FT-T12 removed	72	17	4%
PGE	(2) 4FT-T8 removed	72	4	8%
PGE	(2) 8FT-T12 removed	132	1	
PGE	(3) 4FT-T8 removed	110	1	
PGE	2FT-2L-T8 replacing 2FT-3L-T12	92	1	
PGE	4FT-1L-T8 replacing 4FT-2L-T12	71	7	5%
PGE	4FT-2L-T12 replacing 8FT-1L-T12	53	1	
PGE	4FT-2L-T12 replacing 8FT-2L-T12	129	4	32%
PGE	4FT-2L-T8 replacing 4FT-2L-T12	62	1	
PGE	4FT-2L-T8 replacing 4FT-3L-T12	129	10	9%
PGE	4FT-2L-T8 replacing 4FT-4L-T12	137	36	3%
PGE	4FT-2L-T8 replacing 8FT-1L-T12	53	1	
PGE	4FT-2L-T8 replacing 8FT-2L-T12	107	1	
PGE	4FT-2L-T8 replacing 8FT-4L-T12	283	1	
PGE	4FT-4L-T12 replacing 8FT-3L-T12	203	1	
SCE	(1) 4FT-T12 removed	29	2	101%
SCE	(1) 4FT-T8 removed	22	8	8%
SCE	(1) 8FT-T12 removed	77	3	19%
SCE	(2) 4FT-T12 removed	68	18	6%
SCE	(2) 4FT-T8 removed	65	14	7%
SCE	4FT-2L-T12 replacing 8FT-2L-T12	102	5	4%
SCE	4FT-2L-T8 replacing 4FT-2L-T12	70	1	
SCE	4FT-2L-T8 replacing 4FT-3L-T12	74	4	6%
SCE	4FT-2L-T8 replacing 4FT-4L-T12	126	13	9%
SCE	4FT-4L-T8 replacing 8FT-3L-T12	159	1	
SCE	8FT-1L-T8 replacing 8FT-2L-T12	140	1	
SDGE	(1) 4FT-T12 removed	36	1	
SDGE	(1) 4FT-T8 removed	25	2	10%
SDGE	(2) 4FT-T12 removed	68	4	13%
SDGE	(2) 4FT-T8 removed	56	2	3%

[7] Note that some IOU measure names have integrated both a delamping and a retrofit measures. For the measures configuration that indicated a replacement (or retrofit) the pre-retrofit wattage includes the entire fixture wattage. When impacts are estimated for these measures, the impact will be based on this pre-wattage minus the post-wattage of the new fixture installed.

Table G-89: High Bay Lighting Manufacturer Pre-Wattage Estimates by IOU and Configuration

IOU	Configuration	Pre-Retrofit Wattage	Wattage Observations	Relative Precision
PGE	4FT-2L-T5	400	2	0%
PGE	4FT-4L-T5	396	50	2%
PGE	4FT-4L-T8	331	9	15%
PGE	4FT-6L-T5	400	2	0%
PGE	4FT-6L-T8	400	15	0%
SCE	4FT-2L-T5	400	1	
SCE	4FT-2L-T8	97	9	25%
SCE	4FT-4L-T5	400	20	0%
SCE	4FT-4L-T8	338	6	32%
SCE	4FT-6L-T5	400	4	0%
SCE	4FT-6L-T8	388	15	6%
SDGE	4FT-4L-T5	400	6	0%
SDGE	4FT-4L-T8	400	2	0%
SDGE	4FT-6L-T5	400	1	
SDGE	4FT-6L-T8	400	6	0%

Table G-90: HID Manufacturer Pre-Wattage Estimates by IOU and Measure Category

IOU	Measure Category	Pre-Retrofit Wattage	Wattage Observations	Relative Precision
PGE	20-40W Ceramic Metal Halide	155	3	58%
PGE	70-175W Standard Metal Halide	100	1	
PGE	250-320W Pulse-Start Metal Halide	360	1	
SCE	20-40W Ceramic Metal Halide	79	5	32%
SCE	250-320W Pulse-Start Metal Halide	400	1	
SCE	1000W High Pressure Sodium	1,100	1	
SDGE	20-40W Ceramic Metal Halide	54	2	109%

Table G-91: Linear Fluorescent Manufacturer Pre-Wattage Estimates by IOU and Configuration

IOU	Configuration	Pre-Retrofit Wattage	Wattage Observations	Relative Precision
PGE	2FT-1L-T8	19	1	
PGE	2FT-2L-T8	29	2	88%
PGE	2FT-2L-T8 replacing 4FT-2L-T12	84	1	
PGE	3FT-1L-T8	25	1	
PGE	3FT-3L-T8 replacing 3FT-2L-T12	40	1	
PGE	4FT-1L-T8	26	8	10%
PGE	4FT-1L-T8 replacing 4FT-2L-T12	88	3	9%
PGE	4FT-1L-T8 replacing 8FT-2L-T8	215	1	
PGE	4FT-2L-T8	66	158	2%
PGE	4FT-2L-T8 replacing 176-399W	200	1	
PGE	4FT-2L-T8 replacing 2FT-2L-T12	41	2	185%
PGE	4FT-2L-T8 replacing 400-600W	403	2	29%
PGE	4FT-2L-T8 replacing 4FT-1L-T12	39	3	30%
PGE	4FT-2L-T8 replacing 4FT-3L-T12	123	5	23%
PGE	4FT-2L-T8 replacing 4FT-3L-T8	79	2	42%
PGE	4FT-2L-T8 replacing 4FT-4L-T12	146	9	9%
PGE	4FT-2L-T8 replacing 4FT-4L-T8	123	3	43%
PGE	4FT-2L-T8 replacing 6FT-1L-T12	48	1	
PGE	4FT-2L-T8 replacing 8FT-1L-T12	96	6	36%
PGE	4FT-2L-T8 replacing 8FT-2L-T12	145	29	9%
PGE	4FT-3L-T5 replacing 400-600W	400	1	
PGE	4FT-3L-T8	86	9	7%
PGE	4FT-3L-T8 replacing 176-399W	250	1	
PGE	4FT-3L-T8 replacing 4FT-2L-T12	73	3	17%
PGE	4FT-3L-T8 replacing 4FT-6L-T12	241	1	
PGE	4FT-3L-T8 replacing 8FT-2L-T12	222	2	35%
PGE	4FT-3L-T8 replacing 8FT-2L-T8	139	1	
PGE	4FT-4L-T5 replacing 400-600W	400	3	0%
PGE	4FT-4L-T8	146	27	8%
PGE	4FT-4L-T8 replacing 400-600W	400	3	0%
PGE	4FT-4L-T8 replacing 4FT-2L-T8	92	1	
PGE	4FT-4L-T8 replacing 8FT-2L-T12	152	8	20%
PGE	4FT-4L-T8 replacing 8FT-4L-T12	148	1	
PGE	4FT-6L-T8 replacing 176-399W	233	2	202%
PGE	4FT-6L-T8 replacing 400-600W	400	1	
PGE	4FT-8L-T5 replacing 400-600W	400	1	

Table G-91 (Cont'd): Linear Fluorescent Manufacturer Pre-Wattage Estimates by IOU and Configuration

IOU	Configuration	Pre-Retrofit Wattage	Wattage Observations	Relative Precision	
PGE	8FT-1L-T8		97	1	
PGE	8FT-2L-T8		134	6	19%
SCE	2FT-1L-T8		33	2	135%
SCE	2FT-2L-T8		51	8	6%
SCE	2FT-2L-T8 replacing 4FT-1L-T8		29	1	
SCE	2FT-2L-T8 replacing 4FT-2L-T8		57	2	37%
SCE	2FT-4L-T8		123	1	
SCE	3FT-1L-T8		29	1	
SCE	3FT-1L-T8 replacing 3FT-2L-T12		63	1	
SCE	4FT-1L-T5 replacing 4FT-2L-T8		67	1	
SCE	4FT-1L-T8		33	14	9%
SCE	4FT-1L-T8 replacing 4FT-2L-T12		71	3	22%
SCE	4FT-1L-T8 replacing 4FT-2L-T8		74	1	
SCE	4FT-1L-T8 replacing 4FT-4L-T8		147	1	
SCE	4FT-2L-T5 replacing 4FT-4L-T12		136	1	
SCE	4FT-2L-T8		61	126	2%
SCE	4FT-2L-T8 replacing 101-175W		175	1	
SCE	4FT-2L-T8 replacing 2FT-2L-T12		50	1	
SCE	4FT-2L-T8 replacing 4FT-1L-T12		35	1	
SCE	4FT-2L-T8 replacing 4FT-3L-T12		106	3	9%
SCE	4FT-2L-T8 replacing 4FT-3L-T8		87	3	2%
SCE	4FT-2L-T8 replacing 4FT-4L-T12		137	10	8%
SCE	4FT-2L-T8 replacing 4FT-4L-T8		119	3	24%
SCE	4FT-2L-T8 replacing 8FT-2L-T12		182	2	157%
SCE	4FT-3L-T8		87	12	8%
SCE	4FT-3L-T8 replacing 4FT-4L-T12		138	1	
SCE	4FT-4L-T5 replacing 400-600W		400	4	0%
SCE	4FT-4L-T8		128	41	4%
SCE	4FT-4L-T8 replacing 400-600W		400	1	
SCE	4FT-4L-T8 replacing 4FT-2L-T12		62	2	0%
SCE	4FT-4L-T8 replacing 4FT-2L-T8		48	1	
SCE	4FT-4L-T8 replacing 8FT-2L-T12		79	5	21%
SCE	4FT-4L-T8 replacing <= 100W		336	1	
SCE	4FT-6L-T5 replacing 400-600W		400	1	
SCE	4FT-6L-T8 replacing 400-600W		400	1	
SCE	4FT-8L-T5 replacing > 600W		1,000	1	

Table G-91 (Cont'd): Linear Fluorescent Manufacturer Pre-Wattage Estimates by IOU and Configuration

IOU	Configuration	Pre-Retrofit Wattage	Wattage Observations	Relative Precision	
SCE	8FT-1L-T8		67	4	7%
SCE	8FT-1L-T8 replacing 8FT-2L-T12		140	1	
SCE	8FT-2L-T8		103	13	3%
SCE	8FT-2L-T8 replacing 8FT-4L-T12		185	1	
SDGE	2FT-1L-T8		16	1	
SDGE	2FT-2L-T8		26	2	51%
SDGE	3FT-2L-T8		54	1	
SDGE	4FT-1L-T8		44	2	53%
SDGE	4FT-1L-T8 replacing 4FT-2L-T8		67	1	
SDGE	4FT-2L-T5 replacing > 600W		1,000	1	
SDGE	4FT-2L-T8		64	27	5%
SDGE	4FT-2L-T8 replacing 4FT-4L-T12		148	1	
SDGE	4FT-2L-T8 replacing 6FT-2L-T12		219	1	
SDGE	4FT-3L-T8		87	3	9%
SDGE	4FT-3L-T8 replacing 101-175W		175	1	
SDGE	4FT-3L-T8 replacing 176-399W		250	1	
SDGE	4FT-3L-T8 replacing 400-600W		400	1	
SDGE	4FT-4L-T5 replacing 400-600W		400	1	
SDGE	4FT-4L-T5 replacing > 600W		1,000	1	
SDGE	4FT-4L-T8		127	6	9%
SDGE	4FT-4L-T8 replacing 176-399W		250	2	0%
SDGE	4FT-4L-T8 replacing 4FT-2L-T12		60	1	
SDGE	4FT-4L-T8 replacing 6FT-2L-T12		87	1	
SDGE	4FT-4L-T8 replacing 8FT-2L-T12		104	1	
SDGE	4FT-5L-T5 replacing > 600W		1,000	1	
SDGE	8FT-2L-T8		106	1	

Note that the pre-retrofit wattages corresponding to a number of PG&E's installed measure configurations are higher than both SCE and SDG&E's. This is due to the fact that PG&E participants are replacing more T12 equipment on average than either SCE or SDG&E. Furthermore, there are a handful of sites in PG&E's territory that had higher ballast factors corresponding to their replaced equipment than for SCE or SDG&E.

G.7.3 Industry Standard Practice Wattages

Industry standard practice (ISP) baselines are only used for linear fluorescent, high bay fluorescent, delamping and HID measures.

For HID measures, recall that customers that are ROB use pre-retrofit wattage for the full EUL because there is no reliable estimate for ISP developed for the 2010-12 period. For customers that are classified as ER, the post-RUL period utilizes a pulse start metal halide as the ISP. For participants that installed pulse start metal halides under the program, their ISP baseline is set equal to their post-retrofit wattage. As a result, these measures have zero savings in the post-RUL period.

For linear fluorescent measures (including high bay and delamping), the ISP baselines are developed using data collected for the Commercial Market Share Tracking (CMST) Study on linear fluorescent installations performed during 2009-12. Using the CMST, average wattages are developed by lamp length, the number of lamps per fixture, and if the fixture was high output or not (high output typically corresponding to high bay applications, but not always). For example, an average wattage would be developed for all 3-lamp, 4-foot fixtures that were not high output fixtures. This would serve as the ISP baseline wattage for all installed non-high output linear fluorescent measures that were 3-lamp, 4-foot fixtures. Note that this ISP baseline wattage would be comprised of various efficiencies of linear fluorescent measures including T8 and T5 fixtures.

Two different averages were taken, one which excluded T12 fixtures and one which excluded both T12 and 700 series T8 fixtures. T12 fixtures are excluded in both because T12 lamps began being phased out in 2012 and the CMST found that only 1% of all installations included T12s. Therefore, T12s were not considered to be industry standard practice. Although 700 series T8 fixtures are also being phased out, the CMST found that a significant portion of the installations during 2010-12 (approximately a third) included 700 series T8s. For customers that are classified as ROB, their ISP baseline is used for the full EUL, which would take effect when their installation was made (i.e., between 2010-12). For these participants, their ISP baseline should include 700 series T8s. For customers classified as ER, their ISP baseline is used in the post-RUL period, which typically would be approximately 5 years after their installation (i.e., between 2015-17). By this time, 700 series T8s would not be available; therefore, for these participants, their ISP baseline should exclude 700 series T8s.

Table G-92 presents these two average ISP baseline wattages (ROB and Post-RUL) utilized for each combination of lamp length, the number of lamps per fixture, and if the fixture was high output or not.

Table G-92: Industry Standard Practice Wattages by Lamp Length, Lamps per Fixture, and High Output/Non-High Output

Lamp Length	Lamps Per Fixture	High Output?	ROB ISP Site Count	ROB ISP Wattage	Post-RUL ISP Site Count	Post-RUL ISP Wattage
2'	2	N	15	31	10	31
3'	1	N	4	27	3	27
3'	2	N	4	45	1	45
4'	1	N	25	28	22	30
4'	2	N	198	58	153	58
4'	2	Y	5	98	5	98
4'	3	N	77	84	46	83
4'	4	N	125	120	90	120
4'	4	Y	18	206	18	206
4'	6	N	19	181	16	179
4'	6	Y	6	310	6	310
4'	8	N	2	245	2	245
8'	1	N	4	62	4	62
8'	2	N	18	105	15	105

Not all possible combinations of lamp length, lamps per fixture and high/standard output lamps were found in the CMST. Therefore, ratios of ISP wattage to pre-retrofit wattage were developed by HIM, IOU, Gross Program Group and high/standard output lamps, for those segments that had CMST data available. These ratios could then be applied to the pre-retrofit wattage for any configuration within a given HIM, IOU, Gross Program Group and high or standard output lamp, to estimate the industry standard practice wattage. Table G-93 through Table G-95 present these wattage ratios for each HIM by IOU, Gross Program Group and lamp output. For example, if a participant was in the PGE Deemed, High Output segment, then their ISP standard practice wattage could be estimated as 0.76 times their pre-retrofit wattage.

Table G-93: Industry Standard Practice Wattage Ratios by Gross Program Group and High Output/Non-High Output for Linear Fluorescents

Gross Program Group	High Output?	ROB ISP Wattage Ratio	Post-RUL ISP Wattage Ratio
PGE Custom	N	0.96	0.95
PGE Custom	Y	1.00	1.00
PGE Deemed	N	0.93	0.92
PGE Deemed	Y	0.76	0.76
PGE 3P	N	0.85	0.85
PGE 3P	Y	0.96	0.96
PG&E LGP/DI	N	0.84	0.84
PG&E LGP/DI	Y	0.99	0.99
SCE Custom	N	0.89	0.87
SCE DI	N	0.95	0.95
SCE DI	Y	0.60	0.60
SCE Deemed	N	0.91	0.91
SCE 3P	N	0.93	0.93
SCE LGP	N	1.00	1.00
SDGE DI	N	0.92	0.91
SDGE Deemed	N	1.00	1.00
SDGE 3P	N	0.83	0.83

Table G-94: Industry Standard Practice Wattage Ratios by Gross Program Group and High Output/Non-High Output for Delamping

Gross Program Group	High Output?	ROB ISP Wattage Ratio	Post-RUL ISP Wattage Ratio
PGE Custom	N	0.91	0.90
PGE Deemed	N	0.88	0.88
PGE 3P	N	0.76	0.76
PG&E LGP/DI	N	0.87	0.87
SCE Custom	N	1.00	1.00
SCE DI	N	0.93	0.93
SCE Deemed	N	0.86	0.86
SCE 3P	N	1.00	1.00
SCE LGP	N	1.00	1.00
SDGE Custom	N	1.00	1.00
SDGE Deemed	N	1.00	1.00
SDGE 3P	N	0.81	0.81

Table G-95: Industry Standard Practice Wattage Ratios by Gross Program Group and High Output/Non-High Output for High Bay

Gross Program Group	High Output?	ROB ISP Wattage Ratio	Post-RUL ISP Wattage Ratio
SCE DI	N	0.63	0.63
SCE Deemed	N	0.92	0.92
SCE Deemed	Y	0.55	0.55

G.7.4 Summary of Pre-Retrofit, Post-Retrofit, and ISP Wattages

For each participant in the on-site sample, pre-retrofit, post-retrofit and ISP wattages were developed, when applicable. For example, CFL measures did not require ISP wattages. Linear fluorescent customer's that were considered ROB did not require pre-retrofit wattages since they utilized the ISP baseline wattages for the full EUL. For occupancy sensors, only post-wattage values are necessary as the equipment only affects the post-retrofit measures. For delamping, the post-retrofit wattage is zero. In some cases these wattages were collected specific to the site, and in other cases average values or wattage ratios were applied as discussed above.

Table G-96 through Table G-123 present these average wattage values for the on-site sample for each HIM by Gross Program Group and Claim Basis.

Table G-96: Summary of Wattage Values by Gross Program Group and Claim Basis for CFL Basic in PG&E

IOU	Claim Basis	n	Post-Retrofit Wattage	Pre-Retrofit Wattage	ROB ISP Wattage	Post-RUL ISP Wattage
PG&E						
PG&E Custom	Sm/Med Calculated	3	59	208	-	-
	Large Calculated					
	All Calculated	3	59	208	-	-
	Total Custom	**3**	**59**	**208**	**-**	**-**
PG&E Deemed	Deemed					
	Total Deemed					
PG&E 3rd Party	Deemed	32	22	84	-	-
	Sm/Med Calculated					
	Large Calculated	36	20	66	-	-
	All Calculated	36	20	66	-	-
	Total 3rd Party	**68**	**22**	**79**	**-**	**-**
PG&E Local Govt Partner/DI	Deemed	93	32	97	-	-
	Sm/Med Calculated	26	21	96	-	-
	Large Calculated	27	29	157	-	-
	All Calculated	53	22	101	-	-
	Total LGP/DI	**146**	**28**	**99**	**-**	**-**
PG&E Total	**Deemed**	**126**	**30**	**95**	**-**	**-**
	Sm/Med Calculated	**29**	**26**	**110**	**-**	**-**
	Large Calculated	**92**	**25**	**109**	**-**	**-**
	All Calculated	**63**	**24**	**101**	**-**	**-**
PG&E Total		**218**	**28**	**100**	**-**	**-**

Table G-97: Summary of Wattage Values by Gross Program Group and Claim Basis for CFL Basic in SCE

IOU	Claim Basis	n	Post-Retrofit Wattage	Pre-Retrofit Wattage	ROB ISP Wattage	Post-RUL ISP Wattage
SCE						
SCE Custom	Sm/Med Calculated					
	Large Calculated					
	All Calculated					
	Total Custom					
SCE DI	Deemed	**79**	**22**	**85**	**-**	**-**
	Total DI	**79**	**22**	**85**	**-**	**-**
SCE Deemed	Deemed					
	Total Deemed					
SCE 3rd Party	Deemed	**22**	**22**	**82**	**-**	**-**
	Sm/Med Calculated					
	Large Calculated					
	All Calculated					
	Total 3rd Party	**22**	**22**	**82**	**-**	**-**
SCE Local Govt Partner	Deemed	**2**	**18**	**60**	**-**	**-**
	Sm/Med Calculated					
	Large Calculated					
	All Calculated					
	Total LGP	**2**	**18**	**60**	**-**	**-**
SCE Total	**Deemed**	**103**	**22**	**84**	**-**	**-**
	Sm/Med Calculated					
	Large Calculated					
	All Calculated					
SCE Total		**103**	**22**	**84**	**-**	**-**

Table G-98: Summary of Wattage Values by Gross Program Group and Claim Basis for CFL Basic in SDG&E

IOU Gross Program Group		n	Post-Retrofit Wattage	Pre-Retrofit Wattage	ROB ISP Wattage	Post-RUL ISP Wattage
SDG&E						
SDG&E Custom	Sm/Med Calculated	2	23	151	-	-
	Large Calculated					
	All Calculated	2	23	151	-	-
	Total Custom	**2**	**23**	**151**	**-**	**-**
SDG&E DI	Deemed	33	19	130	-	-
	Total DI	**33**	**19**	**130**	**-**	**-**
SDG&E Deemed	Deemed	10	16	55	-	-
	Total Deemed	**10**	**16**	**55**	**-**	**-**
SDG&E LGP/ 3rd Party	Deemed	14	24	98	-	-
	Sm/Med Calculated					
	Large Calculated					
	All Calculated					
	Total 3rd Party	**15**	**24**	**98**	**-**	**-**
SDG&E Total	**Deemed**	**57**	**20**	**108**	**-**	**-**
	Sm/Med Calculated	**2**	**23**	**151**	**-**	**-**
	Large Calculated					
	All Calculated	**3**	**23**	**151**	**-**	**-**
SDG&E Total		**60**	**21**	**130**	**-**	**-**

Table G-99: Summary of Wattage Values by Gross Program Group and Claim Basis for CFL Basic Statewide

Gross Program Group		n	Post-Retrofit Wattage	Pre-Retrofit Wattage	ROB ISP Wattage	Post-RUL ISP Wattage
Statewide						
Statewide Custom	Sm/Med Calculated	5	29	160	-	-
	Large Calculated					
	All Calculated	5	29	160	-	-
	Total Custom	**5**	**29**	**160**	**-**	**-**
Statewide DI	Deemed	112	22	91	-	-
	Total DI	**112**	**22**	**91**	**-**	**-**
Statewide Deemed	Deemed	11	16	55	-	-
	Total Deemed	**11**	**16**	**55**	**-**	**-**
Statewide 3rd Party	Deemed	68	22	86	-	-
	Sm/Med Calculated					
	Large Calculated	37	20	66	-	-
	All Calculated	37	20	66	-	-
	Total 3rd Party	**105**	**22**	**83**	**-**	**-**
Statewide Local Govt Partner	Deemed	95	32	96	-	-
	Sm/Med Calculated	26	21	96	-	-
	Large Calculated	27	29	157	-	-
	All Calculated	53	22	101	-	-
	Total LGP	**148**	**28**	**98**	**-**	**-**
Statewide Total	**Deemed**	**286**	**25**	**91**	**-**	**-**
	Sm/Med Calculated	**31**	**25**	**127**	**-**	**-**
	Large Calculated	**64**	**24**	**101**	**-**	**-**
	All Calculated	**95**	**25**	**124**	**-**	**-**
Statewide Total		**381**	**25**	**100**	**-**	**-**

Table G-100: Summary of Wattage Values by Gross Program Group and Claim Basis for CFL Reflector in PG&E

IOU	Claim Basis	n	Post-Retrofit Wattage	Pre-Retrofit Wattage	ROB ISP Wattage	Post-RUL ISP Wattage
PG&E						
PG&E Custom	Sm/Med Calculated	1	32	130	-	-
	Large Calculated					
	All Calculated	1	32	130	-	-
	Total Custom	**1**	**32**	**130**	**-**	**-**
PG&E Deemed	Deemed	12	19	74	-	-
	Total Deemed	**12**	**19**	**74**	**-**	**-**
PG&E 3rd Party	Deemed					
	Sm/Med Calculated					
	Large Calculated	13	16	91	-	-
	All Calculated	13	16	91	-	-
	Total 3rd Party	**13**	**16**	**91**	**-**	**-**
PG&E Local Govt Partner/DI	Deemed	30	22	100	-	-
	Sm/Med Calculated	7	19	73	-	-
	Large Calculated	24	19	75	-	-
	All Calculated	31	19	73	-	-
	Total LGP/DI	**61**	**21**	**87**	**-**	**-**
PG&E Total	**Deemed**	**42**	**20**	**83**	**-**	**-**
	Sm/Med Calculated	**8**	**23**	**90**	**-**	**-**
	Large Calculated	**45**	**22**	**89**	**-**	**-**
	All Calculated	**37**	**18**	**83**	**-**	**-**
PG&E Total		**87**	**21**	**85**	**-**	**-**

Table G-101: Summary of Wattage Values by Gross Program Group and Claim Basis for CFL Reflector in SCE

IOU	Claim Basis	n	Post-Retrofit Wattage	Pre-Retrofit Wattage	ROB ISP Wattage	Post-RUL ISP Wattage
SCE						
SCE Custom	Sm/Med Calculated					
	Large Calculated					
	All Calculated					
	Total Custom					
SCE DI	Deemed	44	17	68	-	-
	Total DI	**44**	**17**	**68**	**-**	**-**
SCE Deemed	Deemed	16	36	98	-	-
	Total Deemed	**16**	**36**	**98**	**-**	**-**
SCE 3rd Party	Deemed					
	Sm/Med Calculated					
	Large Calculated					
	All Calculated					
	Total 3rd Party					
SCE Local Govt Partner	Deemed	6	22	77	-	-
	Sm/Med Calculated					
	Large Calculated					
	All Calculated					
	Total LGP	**6**	**22**	**77**	**-**	**-**
SCE Total	**Deemed**	**66**	**20**	**72**	**-**	**-**
	Sm/Med Calculated					
	Large Calculated					
	All Calculated					
SCE Total		**66**	**20**	**72**	**-**	**-**

Table G-102: Summary of Wattage Values by Gross Program Group and Claim Basis for CFL Reflector in SDG&E

IOU	Claim Basis	n	Post-Retrofit Wattage	Pre-Retrofit Wattage	ROB ISP Wattage	Post-RUL ISP Wattage
SDG&E						
SDG&E Custom	Sm/Med Calculated					
	Large Calculated	1	42	96	-	-
	All Calculated	1	42	96	-	-
	Total Custom	**1**	**42**	**96**	**-**	**-**
SDG&E DI	Deemed	25	20	83	-	-
	Total DI	**25**	**20**	**83**	**-**	**-**
SDG&E Deemed	Deemed	9	18	37	-	-
	Total Deemed	**9**	**18**	**37**	**-**	**-**
SDG&E LGP/ 3rd Party	Deemed					
	Sm/Med Calculated					
	Large Calculated					
	All Calculated					
	Total 3rd Party					
SDG&E Total	**Deemed**	**34**	**19**	**55**	**-**	**-**
	Sm/Med Calculated					
	Large Calculated	**1**	**42**	**96**	**-**	**-**
	All Calculated	**1**	**42**	**96**	**-**	**-**
SDG&E Total		**35**	**20**	**57**	**-**	**-**

Table G-103: Summary of Wattage Values by Gross Program Group and Claim Basis for CFL Reflector Statewide

IOU	Claim Basis	n	Post-Retrofit Wattage	Pre-Retrofit Wattage	ROB ISP Wattage	Post-RUL ISP Wattage
Statewide						
Statewide Custom	Sm/Med Calculated	1	32	130	-	-
	Large Calculated	1	42	96	-	-
	All Calculated	2	33	128	-	-
	Total Custom	**2**	**33**	**128**	**-**	**-**
Statewide DI	Deemed	69	17	69	-	-
	Total DI	**69**	**17**	**69**	**-**	**-**
Statewide Deemed	Deemed	37	24	75	-	-
	Total Deemed	**37**	**24**	**75**	**-**	**-**
Statewide 3rd Party	Deemed					
	Sm/Med Calculated					
	Large Calculated	13	16	91	-	-
	All Calculated	13	16	91	-	-
	Total 3rd Party	**13**	**16**	**91**	**-**	**-**
Statewide Local Govt Partner	Deemed	36	22	97	-	-
	Sm/Med Calculated	7	19	73	-	-
	Large Calculated	24	19	75	-	-
	All Calculated	31	19	73	-	-
	Total LGP	**67**	**21**	**87**	**-**	**-**
Statewide Total	**Deemed**	**142**	**20**	**74**	**-**	**-**
	Sm/Med Calculated	**8**	**23**	**90**	**-**	**-**
	Large Calculated	**38**	**20**	**85**	**-**	**-**
	All Calculated	**46**	**23**	**89**	**-**	**-**
Statewide Total		**188**	**20**	**75**	**-**	**-**

Table G-104: Summary of Wattage Values by Gross Program Group and Claim Basis for Delamping in PG&E

IOU	Claim Basis	n	Post-Retrofit Wattage	Pre-Retrofit Wattage	ROB ISP Wattage	Post-RUL ISP Wattage
PG&E						
PG&E Custom	Sm/Med Calculated	8	-	65	59	59
	Large Calculated	22	-	27	24	24
	All Calculated	30	-	51	46	46
	Total Custom	**30**	**-**	**51**	**46**	**46**
PG&E Deemed	Deemed	33	-	62	55	55
	Total Deemed	**33**	**-**	**62**	**55**	**55**
PG&E 3rd Party	Deemed	28	-	77	59	59
	Sm/Med Calculated					
	Large Calculated	5	-	187	142	142
	All Calculated	5	-	187	142	142
	Total 3rd Party	**33**	**-**	**78**	**60**	**60**
PG&E Local Govt Partner/DI	Deemed	77	-	83	72	72
	Sm/Med Calculated	26	-	74	65	65
	Large Calculated	13	-	139	121	121
	All Calculated	39	-	85	74	74
	Total LGP/DI	**116**	**-**	**84**	**73**	**73**
PG&E Total	**Deemed**	**138**	**-**	**77**	**67**	**66**
	Sm/Med Calculated	**34**	**-**	**73**	**64**	**64**
	Large Calculated	**74**	**-**	**79**	**69**	**69**
	All Calculated	**40**	**-**	**101**	**88**	**88**
PG&E Total		**212**	**-**	**78**	**68**	**67**

Table G-105: Summary of Wattage Values by Gross Program Group and Claim Basis for Delamping in SCE

IOU	Claim Basis	n	Post-Retrofit Wattage	Pre-Retrofit Wattage	ROB ISP Wattage	Post-RUL ISP Wattage
SCE						
SCE Custom	Sm/Med Calculated	3	-	39	39	39
	Large Calculated	3	-	74	74	74
	All Calculated	6	-	65	65	65
	Total Custom	**6**	**-**	**65**	**65**	**65**
SCE DI	Deemed	27	-	95	88	88
	Total DI	**27**	**-**	**95**	**88**	**88**
SCE Deemed	Deemed	58	-	80	69	69
	Total Deemed	**58**	**-**	**80**	**69**	**69**
SCE 3rd Party	Deemed	13	-	73	73	73
	Sm/Med Calculated					
	Large Calculated	3	-	51	51	51
	All Calculated	3	-	51	51	51
	Total 3rd Party	**16**	**-**	**66**	**66**	**66**
SCE Local Govt Partner	Deemed	8	-	92	92	92
	Sm/Med Calculated					
	Large Calculated	2	-	26	26	26
	All Calculated	2	-	26	26	26
	Total LGP	**10**	**-**	**65**	**65**	**65**
SCE Total	**Deemed**	**106**	**-**	**83**	**76**	**76**
	Sm/Med Calculated	**3**	**-**	**39**	**39**	**39**
	Large Calculated	**8**	**-**	**67**	**67**	**67**
	All Calculated	**11**	**-**	**62**	**62**	**62**
SCE Total		**117**	**-**	**76**	**71**	**71**

Table G-106: Summary of Wattage Values by Gross Program Group and Claim Basis for Delamping in SDG&E

IOU	Claim Basis	n	Post-Retrofit Wattage	Pre-Retrofit Wattage	ROB ISP Wattage	Post-RUL ISP Wattage
SDG&E						
SDG&E Custom	Sm/Med Calculated	1	-	56	56	56
	Large Calculated					
	All Calculated	1	-	56	56	56
	Total Custom	**1**	**-**	**56**	**56**	**56**
SDG&E DI	Deemed	2	-	42	42	42
	Total DI	**2**	**-**	**42**	**42**	**42**
SDG&E Deemed	Deemed	24	-	41	41	41
	Total Deemed	**24**	**-**	**41**	**41**	**41**
SDG&E LGP/ 3rd Party	Deemed					
	Sm/Med Calculated					
	Large Calculated	1	-	74	60	60
	All Calculated	1	-	74	60	60
	Total 3rd Party	**1**	**-**	**74**	**60**	**60**
SDG&E Total	**Deemed**	**26**	**-**	**41**	**41**	**41**
	Sm/Med Calculated	**1**	**-**	**56**	**56**	**56**
	Large Calculated	**1**	**-**	**74**	**60**	**60**
	All Calculated	**2**	**-**	**61**	**57**	**57**
SDG&E Total		**28**	**-**	**42**	**42**	**42**

Table G-107: Summary of Wattage Values by Gross Program Group and Claim Basis for Delamping Statewide

IOU	Claim Basis	n	Post-Retrofit Wattage	Pre-Retrofit Wattage	ROB ISP Wattage	Post-RUL ISP Wattage
Statewide						
Statewide Custom	Sm/Med Calculated	12	-	47	45	45
	Large Calculated	25	-	70	70	70
	All Calculated	37	-	63	62	62
	Total Custom	**37**	**-**	**63**	**62**	**62**
Statewide DI	Deemed	29	-	95	88	88
	Total DI	**29**	**-**	**95**	**88**	**88**
Statewide Deemed	Deemed	115	-	72	63	63
	Total Deemed	**115**	**-**	**72**	**63**	**63**
Statewide 3rd Party	Deemed	41	-	74	70	70
	Sm/Med Calculated					
	Large Calculated	9	-	53	52	52
	All Calculated	9	-	53	52	52
	Total 3rd Party	**50**	**-**	**68**	**65**	**65**
Statewide Local Govt Partner	Deemed	85	-	83	73	73
	Sm/Med Calculated	26	-	74	65	65
	Large Calculated	15	-	119	104	104
	All Calculated	41	-	83	73	72
	Total LGP	**126**	**-**	**83**	**73**	**73**
Statewide Total	**Deemed**	**270**	**-**	**79**	**71**	**71**
	Sm/Med Calculated	**38**	**-**	**63**	**57**	**57**
	Large Calculated	**49**	**-**	**72**	**70**	**70**
	All Calculated	**87**	**-**	**68**	**64**	**64**
Statewide Total		**357**	**-**	**75**	**69**	**69**

Table G-108: Summary of Wattage Values by Gross Program Group and Claim Basis for Occupancy Sensors in PG&E

IOU	Claim Basis	n	Post-Retrofit Wattage	Pre-Retrofit Wattage	ROB ISP Wattage	Post-RUL ISP Wattage
PG&E						
PG&E Custom	Sm/Med Calculated	1	135	-	-	-
	Large Calculated	6	269	-	-	-
	All Calculated	7	219	-	-	-
	Total Custom	**7**	**219**	**-**	**-**	**-**
PG&E Deemed	Deemed	52	87	-	-	-
	Total Deemed	**52**	**87**	**-**	**-**	**-**
PG&E 3rd Party	Deemed	16	209	-	-	-
	Sm/Med Calculated					
	Large Calculated	1	200	-	-	-
	All Calculated	1	200	-	-	-
	Total 3rd Party	**17**	**203**	**-**	**-**	**-**
PG&E Local Govt Partner/DI	Deemed	29	159	-	-	-
	Sm/Med Calculated	10	145	-	-	-
	Large Calculated	23	164	-	-	-
	All Calculated	33	149	-	-	-
	Total LGP/DI	**62**	**156**	**-**	**-**	**-**
PG&E Total	**Deemed**	**97**	**96**	**-**	**-**	**-**
	Sm/Med Calculated	**11**	**137**	**-**	**-**	**-**
	Large Calculated	**41**	**206**	**-**	**-**	**-**
	All Calculated	**30**	**230**	**-**	**-**	**-**
PG&E Total		**138**	**119**	**-**	**-**	**-**

Table G-109: Summary of Wattage Values by Gross Program Group and Claim Basis for Occupancy Sensors in SCE

IOU	Claim Basis	n	Post-Retrofit Wattage	Pre-Retrofit Wattage	ROB ISP Wattage	Post-RUL ISP Wattage
SCE						
SCE Custom	Sm/Med Calculated					
	Large Calculated	1	274	-	-	-
	All Calculated	1	274	-	-	-
	Total Custom	**1**	**274**	**-**	**-**	**-**
SCE DI	Deemed	84	122	-	-	-
	Total DI	**84**	**122**	**-**	**-**	**-**
SCE Deemed	Deemed	61	175	-	-	-
	Total Deemed	**61**	**175**	**-**	**-**	**-**
SCE 3rd Party	Deemed	13	228	-	-	-
	Sm/Med Calculated					
	Large Calculated	2	632	-	-	-
	All Calculated	2	632	-	-	-
	Total 3rd Party	**15**	**423**	**-**	**-**	**-**
SCE Local Govt Partner	Deemed	7	65	-	-	-
	Sm/Med Calculated					
	Large Calculated	2	797	-	-	-
	All Calculated	2	797	-	-	-
	Total LGP	**9**	**643**	**-**	**-**	**-**
SCE Total	**Deemed**	**165**	**166**	**-**	**-**	**-**
	Sm/Med Calculated					
	Large Calculated	**5**	**481**	**-**	**-**	**-**
	All Calculated	**5**	**481**	**-**	**-**	**-**
SCE Total		**170**	**216**	**-**	**-**	**-**

Table G-110: Summary of Wattage Values by Gross Program Group and Claim Basis for Occupancy Sensors in SDG&E

IOU	Claim Basis	n	Post-Retrofit Wattage	Pre-Retrofit Wattage	ROB ISP Wattage	Post-RUL ISP Wattage
SDG&E						
SDG&E Custom	Sm/Med Calculated					
	Large Calculated					
	All Calculated					
	Total Custom					
SDG&E DI	Deemed	9	44	-	-	-
	Total DI	**9**	**44**	**-**	**-**	**-**
SDG&E Deemed	Deemed	41	119	-	-	-
	Total Deemed	**41**	**119**	**-**	**-**	**-**
SDG&E LGP/ 3rd Party	Deemed					
	Sm/Med Calculated	1	101	-	-	-
	Large Calculated	1	60	-	-	-
	All Calculated	2	62	-	-	-
	Total 3rd Party	**2**	**62**	**-**	**-**	**-**
SDG&E Total	**Deemed**	**50**	**116**	**-**	**-**	**-**
	Sm/Med Calculated	**1**	**101**	**-**	**-**	**-**
	Large Calculated	**1**	**60**	**-**	**-**	**-**
	All Calculated	**2**	**62**	**-**	**-**	**-**
SDG&E Total		**52**	**104**	**-**	**-**	**-**

Table G-111: Summary of Wattage Values by Gross Program Group and Claim Basis for Occupancy Sensors Statewide

IOU	Claim Basis	n	Post-Retrofit Wattage	Pre-Retrofit Wattage	ROB ISP Wattage	Post-RUL ISP Wattage
Statewide						
Statewide Custom	Sm/Med Calculated	1	135	-	-	-
	Large Calculated	7	273	-	-	-
	All Calculated	8	249	-	-	-
	Total Custom	**8**	**249**	**-**	**-**	**-**
Statewide DI	Deemed	93	120	-	-	-
	Total DI	**93**	**120**	**-**	**-**	**-**
Statewide Deemed	Deemed	154	137	-	-	-
	Total Deemed	**154**	**137**	**-**	**-**	**-**
Statewide 3rd Party	Deemed	29	220	-	-	-
	Sm/Med Calculated	1	101	-	-	-
	Large Calculated	4	285	-	-	-
	All Calculated	5	283	-	-	-
	Total 3rd Party	**34**	**262**	**-**	**-**	**-**
Statewide Local Govt Partner	Deemed	36	133	-	-	-
	Sm/Med Calculated	10	145	-	-	-
	Large Calculated	25	765	-	-	-
	All Calculated	35	670	-	-	-
	Total LGP	**71**	**437**	**-**	**-**	**-**
Statewide Total	**Deemed**	**312**	**138**	**-**	**-**	**-**
	Sm/Med Calculated	**12**	**136**	**-**	**-**	**-**
	Large Calculated	**36**	**351**	**-**	**-**	**-**
	All Calculated	**48**	**327**	**-**	**-**	**-**
Statewide Total		**360**	**172**	**-**	**-**	**-**

Table G-112: Summary of Wattage Values by Gross Program Group and Claim Basis for High Bay Lighting in PG&E

IOU	Claim Basis	n	Post-Retrofit Wattage	Pre-Retrofit Wattage	ROB ISP Wattage	Post-RUL ISP Wattage
PG&E						
PG&E Custom	Sm/Med Calculated					
	Large Calculated					
	All Calculated					
	Total Custom					
PG&E Deemed	Deemed	45	201	387	333	333
	Total Deemed	**45**	**201**	**387**	**333**	**333**
PG&E 3rd Party	Deemed	28	211	396	341	340
	Sm/Med Calculated					
	Large Calculated					
	All Calculated					
	Total 3rd Party	**28**	**211**	**396**	**341**	**340**
PG&E Local Govt Partner/DI	Deemed	34	183	386	333	332
	Sm/Med Calculated	1	192	400	344	344
	Large Calculated	2	102	250	215	215
	All Calculated	3	148	327	281	281
	Total LGP/DI	**37**	**178**	**378**	**325**	**325**
PG&E Total	**Deemed**	**107**	**198**	**387**	**333**	**333**
	Sm/Med Calculated	**1**	**192**	**400**	**344**	**344**
	Large Calculated	**3**	**148**	**327**	**281**	**281**
	All Calculated	**2**	**102**	**250**	**215**	**215**
PG&E Total		**110**	**196**	**385**	**332**	**331**

Table G-113: Summary of Wattage Values by Gross Program Group and Claim Basis for High Bay Lighting in SCE

IOU	Claim Basis	n	Post-Retrofit Wattage	Pre-Retrofit Wattage	ROB ISP Wattage	Post-RUL ISP Wattage
SCE						
SCE Custom	Sm/Med Calculated					
	Large Calculated					
	All Calculated					
	Total Custom					
SCE DI	Deemed	19	203	355	225	225
	Total DI	**19**	**203**	**355**	**225**	**225**
SCE Deemed	Deemed	54	164	344	302	301
	Total Deemed	**54**	**164**	**344**	**302**	**301**
SCE 3rd Party	Deemed					
	Sm/Med Calculated					
	Large Calculated					
	All Calculated					
	Total 3rd Party					
SCE Local Govt Partner	Deemed	3	56	115	99	99
	Sm/Med Calculated					
	Large Calculated					
	All Calculated					
	Total LGP	**3**	**56**	**115**	**99**	**99**
SCE Total	**Deemed**	**76**	**166**	**343**	**295**	**294**
	Sm/Med Calculated					
	Large Calculated					
	All Calculated					
SCE Total		**76**	**166**	**343**	**295**	**294**

Table G-114: Summary of Wattage Values by Gross Program Group and Claim Basis for High Bay Lighting in SDG&E

IOU	Claim Basis	n	Post-Retrofit Wattage	Pre-Retrofit Wattage	ROB ISP Wattage	Post-RUL ISP Wattage
SDG&E						
SDG&E Custom	Sm/Med Calculated					
	Large Calculated					
	All Calculated					
	Total Custom					
SDG&E DI	Deemed					
	Total DI					
SDG&E Deemed	Deemed	23	199	398	343	342
	Total Deemed	**23**	**199**	**398**	**343**	**342**
SDG&E LGP/ 3rd Party	Deemed					
	Sm/Med Calculated					
	Large Calculated	2	197	400	344	344
	All Calculated	2	197	400	344	344
	Total 3rd Party	**2**	**197**	**400**	**344**	**344**
SDG&E Total	**Deemed**	**23**	**199**	**398**	**343**	**342**
	Sm/Med Calculated					
	Large Calculated	**2**	**197**	**400**	**344**	**344**
	All Calculated	**2**	**197**	**400**	**344**	**344**
SDG&E Total		**25**	**199**	**399**	**343**	**343**

Table G-115: Summary of Wattage Values by Gross Program Group and Claim Basis for High Bay Lighting Statewide

IOU	Claim Basis	n	Post-Retrofit Wattage	Pre-Retrofit Wattage	ROB ISP Wattage	Post-RUL ISP Wattage
Statewide						
Statewide Custom	Sm/Med Calculated					
	Large Calculated					
	All Calculated					
	Total Custom					
Statewide DI	Deemed	19	203	355	225	225
	Total DI	**19**	**203**	**355**	**225**	**225**
Statewide Deemed	Deemed	122	174	356	311	310
	Total Deemed	**122**	**174**	**356**	**311**	**310**
Statewide 3rd Party	Deemed	28	211	396	341	340
	Sm/Med Calculated					
	Large Calculated	2	197	400	344	344
	All Calculated	2	197	400	344	344
	Total 3rd Party	**30**	**209**	**396**	**341**	**341**
Statewide Local Govt Partner	Deemed	37	175	369	318	317
	Sm/Med Calculated	1	192	400	344	344
	Large Calculated	2	102	250	215	215
	All Calculated	3	148	327	281	281
	Total LGP	**40**	**172**	**364**	**313**	**313**
Statewide Total	**Deemed**	**206**	**176**	**358**	**307**	**307**
	Sm/Med Calculated	**1**	**192**	**400**	**344**	**344**
	Large Calculated	**4**	**132**	**298**	**256**	**256**
	All Calculated	**5**	**157**	**340**	**293**	**293**
Statewide Total		**211**	**176**	**358**	**307**	**307**

Table G-116: Summary of Wattage Values by Gross Program Group and Claim Basis for HID in PG&E

IOU	Claim Basis	n	Post-Retrofit Wattage	Pre-Retrofit Wattage	ROB ISP Wattage	Post-RUL ISP Wattage
PG&E						
PG&E Custom	Sm/Med Calculated	1	39	109	-	-
	Large Calculated					
	All Calculated	1	39	109	-	-
	Total Custom	**1**	**39**	**109**	**-**	**-**
PG&E Deemed	Deemed	5	27	66	-	-
	Total Deemed	**5**	**27**	**66**	**-**	**-**
PG&E 3rd Party	Deemed					
	Sm/Med Calculated					
	Large Calculated					
	All Calculated					
	Total 3rd Party					
PG&E Local Govt Partner/DI	Deemed					
	Sm/Med Calculated	2	301	341	-	-
	Large Calculated	1	40	175	-	-
	All Calculated	3	69	193	-	-
	Total LGP/DI	**3**	**69**	**193**	**-**	**-**
PG&E Total	**Deemed**	**5**	**27**	**66**	**-**	**-**
	Sm/Med Calculated	**3**	**96**	**159**	**-**	**-**
	Large Calculated	**4**	**60**	**169**	**-**	**-**
	All Calculated	**1**	**40**	**175**	**-**	**-**
PG&E Total		**9**	**43**	**114**	**-**	**-**

It is important to note that there were a number of HID installations that included the replacement of incandescent and halogen lamps (typically 50-175W) with low wattage ceramic metal halide HIDs (typically 20-40W). In these cases, the pre- and post-wattage values will be significantly lower relative to the replacement of high wattage mercury vapor lamps with pulse start metal halide HIDs.

Table G-117: Summary of Wattage Values by Gross Program Group and Claim Basis for HID in SCE

IOU	Claim Basis	n	Post-Retrofit Wattage	Pre-Retrofit Wattage	ROB ISP Wattage	Post-RUL ISP Wattage
SCE						
SCE Custom	Sm/Med Calculated					
	Large Calculated	2	974	1,038	-	-
	All Calculated	2	974	1,038	-	-
	Total Custom	**2**	**974**	**1,038**	**-**	**-**
SCE DI	Deemed					
	Total DI					
SCE Deemed	Deemed	6	21	79	-	-
	Total Deemed	**6**	**21**	**79**	**-**	**-**
SCE 3rd Party	Deemed					
	Sm/Med Calculated					
	Large Calculated					
	All Calculated					
	Total 3rd Party					
SCE Local Govt Partner	Deemed					
	Sm/Med Calculated					
	Large Calculated					
	All Calculated					
	Total LGP					
SCE Total	**Deemed**	**6**	**21**	**79**	**-**	**-**
	Sm/Med Calculated					
	Large Calculated	**2**	**974**	**1,038**	**-**	**-**
	All Calculated	**2**	**974**	**1,038**	**-**	**-**
SCE Total		**8**	**322**	**382**	**-**	**-**

Table G-118: Summary of Wattage Values by Gross Program Group and Claim Basis for HID in SDG&E

IOU	Claim Basis	n	Post-Retrofit Wattage	Pre-Retrofit Wattage	ROB ISP Wattage	Post-RUL ISP Wattage
SDG&E						
SDG&E Custom	Sm/Med Calculated					
	Large Calculated	1	175	324	-	-
	All Calculated	1	175	324	-	-
	Total Custom	**1**	**175**	**324**	**-**	**-**
SDG&E DI	Deemed					
	Total DI					
SDG&E Deemed	Deemed	3	39	72	-	-
	Total Deemed	**3**	**39**	**72**	**-**	**-**
SDG&E LGP/ 3rd Party	Deemed					
	Sm/Med Calculated					
	Large Calculated					
	All Calculated					
	Total 3rd Party					
SDG&E Total	**Deemed**	**3**	**39**	**72**	**-**	**-**
	Sm/Med Calculated					
	Large Calculated	**1**	**175**	**324**	**-**	**-**
	All Calculated	**1**	**175**	**324**	**-**	**-**
SDG&E Total		**4**	**62**	**116**	**-**	**-**

Table G-119: Summary of Wattage Values by Gross Program Group and Claim Basis for HID Statewide

IOU	Claim Basis	n	Post-Retrofit Wattage	Pre-Retrofit Wattage	ROB ISP Wattage	Post-RUL ISP Wattage
Statewide						
Statewide Custom	Sm/Med Calculated	1	39	109	-	-
	Large Calculated	3	785	869	-	-
	All Calculated	4	606	687	-	-
	Total Custom	**4**	**606**	**687**	**-**	**-**
Statewide DI	Deemed					
	Total DI					
Statewide Deemed	Deemed	14	28	73	-	-
	Total Deemed	**14**	**28**	**73**	**-**	**-**
Statewide 3rd Party	Deemed					
	Sm/Med Calculated					
	Large Calculated					
	All Calculated					
	Total 3rd Party					
Statewide Local Govt Partner	Deemed					
	Sm/Med Calculated	2	301	341	-	-
	Large Calculated	1	40	175	-	-
	All Calculated	3	69	193	-	-
	Total LGP	**3**	**69**	**193**	**-**	**-**
Statewide Total	**Deemed**	**14**	**28**	**73**	**-**	**-**
	Sm/Med Calculated	**3**	**96**	**159**	**-**	**-**
	Large Calculated	**4**	**474**	**579**	**-**	**-**
	All Calculated	**7**	**402**	**500**	**-**	**-**
Statewide Total		**21**	**156**	**218**	**-**	**-**

Table G-120: Summary of Wattage Values by Gross Program Group and Claim Basis for Linear Fluorescents in PG&E

IOU	Claim Basis	n	Post-Retrofit Wattage	Pre-Retrofit Wattage	ROB ISP Wattage	Post-RUL ISP Wattage
PG&E						
PG&E Custom	Sm/Med Calculated	53	66	86	83	83
	Large Calculated	29	61	90	86	86
	All Calculated	82	64	87	84	84
	Total Custom	**82**	**64**	**87**	**84**	**84**
PG&E Deemed	Deemed	76	61	77	71	71
	Total Deemed	**76**	**61**	**77**	**71**	**71**
PG&E 3rd Party	Deemed	44	56	79	67	67
	Sm/Med Calculated					
	Large Calculated	9	50	198	169	169
	All Calculated	9	50	198	169	169
	Total 3rd Party	**53**	**56**	**95**	**81**	**80**
PG&E Local Govt Partner/DI	Deemed	163	65	105	91	91
	Sm/Med Calculated	92	50	75	63	64
	Large Calculated	83	71	135	120	120
	All Calculated	175	54	86	74	74
	Total LGP/DI	**338**	**60**	**97**	**83**	**84**
PG&E Total	**Deemed**	**283**	**62**	**89**	**79**	**79**
	Sm/Med Calculated	**145**	**56**	**79**	**71**	**71**
	Large Calculated	**266**	**58**	**90**	**81**	**81**
	All Calculated	**121**	**63**	**118**	**108**	**108**
PG&E Total		**549**	**61**	**90**	**80**	**80**

Table G-121: Summary of Wattage Values by Gross Program Group and Claim Basis for Linear Fluorescents in SCE

IOU	Claim Basis	n	Post-Retrofit Wattage	Pre-Retrofit Wattage	ROB ISP Wattage	Post-RUL ISP Wattage
SCE						
SCE Custom	Sm/Med Calculated	25	63	103	91	90
	Large Calculated	13	122	227	201	199
	All Calculated	38	78	136	120	119
	Total Custom	**38**	**78**	**136**	**120**	**119**
SCE DI	Deemed	251	78	95	89	89
	Total DI	**251**	**78**	**95**	**89**	**89**
SCE Deemed	Deemed	114	65	79	72	72
	Total Deemed	**114**	**65**	**79**	**72**	**72**
SCE 3rd Party	Deemed	83	57	92	86	86
	Sm/Med Calculated					
	Large Calculated	8	85	142	133	132
	All Calculated	8	85	142	133	132
	Total 3rd Party	**91**	**64**	**103**	**97**	**96**
SCE Local Govt Partner	Deemed	40	57	72	72	72
	Sm/Med Calculated					
	Large Calculated	13	45	63	63	63
	All Calculated	13	45	63	63	63
	Total LGP	**53**	**47**	**65**	**65**	**65**
SCE Total	**Deemed**	**488**	**69**	**86**	**80**	**80**
	Sm/Med Calculated	**25**	**63**	**103**	**91**	**90**
	Large Calculated	**34**	**77**	**129**	**120**	**119**
	All Calculated	**59**	**71**	**118**	**107**	**106**
SCE Total		**547**	**69**	**92**	**85**	**85**

Table G-122: Summary of Wattage Values by Gross Program Group and Claim Basis for Linear Fluorescents in SDG&E

IOU	Claim Basis	n	Post-Retrofit Wattage	Pre-Retrofit Wattage	ROB ISP Wattage	Post-RUL ISP Wattage
SDG&E						
SDG&E Custom	Sm/Med Calculated					
	Large Calculated	3	71	279	251	251
	All Calculated	3	71	279	251	251
	Total Custom	**3**	**71**	**279**	**251**	**251**
SDG&E DI	Deemed	134	66	91	84	83
	Total DI	**134**	**66**	**91**	**84**	**83**
SDG&E Deemed	Deemed	79	58	72	72	72
	Total Deemed	**79**	**58**	**72**	**72**	**72**
SDG&E LGP/ 3rd Party	Deemed					
	Sm/Med Calculated	18	53	109	91	91
	Large Calculated	13	67	115	96	96
	All Calculated	31	64	114	95	95
	Total 3rd Party	**31**	**64**	**114**	**95**	**95**
SDG&E Total	**Deemed**	**213**	**61**	**78**	**76**	**76**
	Sm/Med Calculated	**18**	**53**	**109**	**91**	**91**
	Large Calculated	**16**	**67**	**117**	**98**	**98**
	All Calculated	**34**	**64**	**115**	**97**	**96**
SDG&E Total		**247**	**62**	**93**	**84**	**84**

Table G-123: Summary of Wattage Values by Gross Program Group and Claim Basis for Linear Fluorescents Statewide

IOU	Claim Basis	n	Post-Retrofit Wattage	Pre-Retrofit Wattage	ROB ISP Wattage	Post-RUL ISP Wattage
Statewide						
Statewide Custom	Sm/Med Calculated	78	64	95	87	87
	Large Calculated	45	87	153	139	138
	All Calculated	123	71	113	104	103
	Total Custom	**123**	**71**	**113**	**104**	**103**
Statewide DI	Deemed	385	76	94	89	88
	Total DI	**385**	**76**	**94**	**89**	**88**
Statewide Deemed	Deemed	269	63	78	72	72
	Total Deemed	**269**	**63**	**78**	**72**	**72**
Statewide 3rd Party	Deemed	127	57	87	79	79
	Sm/Med Calculated	18	53	109	91	91
	Large Calculated	30	70	126	109	109
	All Calculated	48	67	124	106	106
	Total 3rd Party	**175**	**62**	**105**	**92**	**92**
Statewide Local Govt Partner	Deemed	203	64	103	89	90
	Sm/Med Calculated	92	50	75	63	64
	Large Calculated	96	54	87	82	82
	All Calculated	188	51	80	71	71
	Total LGP	**391**	**58**	**91**	**80**	**81**
Statewide Total	**Deemed**	**984**	**66**	**86**	**79**	**79**
	Sm/Med Calculated	**188**	**58**	**88**	**78**	**78**
	Large Calculated	**171**	**70**	**122**	**109**	**109**
	All Calculated	**359**	**63**	**105**	**93**	**93**
Statewide Total		**1,343**	**65**	**91**	**83**	**83**

G.8 Development of RUL

For many measures evaluated under this study, impacts are estimated differently for customers that replaced their equipment on burnout or as a result of a natural replacement, as opposed to those that were influenced by the program to make an early replacement. For customers that perform a replacement on burnout (ROB) or are natural replacement (NR), the baseline equipment for estimating impacts for the effective life of the project (EUL) is considered to be

industry standard practice. This is because the customer would have installed equipment in the absence of the program; therefore the existing equipment does not provide the appropriate baseline for estimating impacts.

However, when a measure is considered an early replacement (ER), the lifecycle savings will be examined over two distinct time periods. The first time period is associated with the replaced equipment's remaining useful life (RUL), which is the period over which the accelerated program adoption was considered to have been made. During the RUL time period, the baseline equipment for estimating impacts is the equipment that was replaced. However, for the post-RUL period through the measures' EUL, the baseline equipment for estimating impacts again will be considered to be industry standard practice, because at the end of the equipment's RUL the customer would have had to replace their equipment. This approach is also referred to as the dual baseline methodology, as there are two different baselines that are applied to customers who are considered to be ER.

The dual baseline approach will be applied to all measures except for basic CFLs, CFLs with reflectors and occupancy sensors. Because CFLs typically replace incandescent lamps which have a very small EUL, it is assumed that they are always ROB. Occupancy sensors installed under the program are typically installed as part of a lighting retrofit. When estimating savings for a lighting retrofit along with occupancy sensors, the impact associated with the occupancy sensors is considered to be the incremental measure whose savings is based on the installed equipment. Therefore, the wattage affected by the occupancy sensor is the post-retrofit wattage for the occupancy sensors full EUL and no dual baseline would apply.

For all other measures (linear fluorescent, high bay linear fluorescent, HIDs and delamping), the dual baseline approach will apply. In order to estimate a site-specific impact for a participant, it must first be determined if the installation with ROB/NR or ER. If it is determined that the installation was ER, the RUL is estimated as one third of the EUL, following the DEER methodology. For these measures, the EUL is defined as:

EUL = Minimum of either $\frac{Ballast\ Service\ Life\ (hours)}{Annual\ Hours\ of\ Use}$ or 15 years.

Where,

Ballast Service Life = 45,000 for T12s with magnetic ballasts; 70,000 for T8s and electronic ballasts; and 70,000 for HIDs

Annual Hours of Use = the site-specific estimate of post-retrofit annual hours of operation obtained from either logger data usage or adjusted self-reported operating hours gathered on site.

Then, as mentioned above, for ER installations, the replaced equipment will be used to determine baseline wattage during the RUL period and industry standard practice will be used to determine baseline wattage for the post-RUL period. For ROB/NR installations, industry standard practice will be used to determine baseline wattage for the full EUL period.

Below, the approach for determining if a customer is ROB/NR or ER is discussed in detail.

ROB/NR/ER Algorithm

In order to classify an installation as being ER, there must be "a preponderance of evidence that an energy efficiency program activity induced or accelerated equipment replacement. Early retirement measures must provide justification that the existing equipment being replaced would have continued to function and perform its original design intent for a period of time in absence of the replacement."[8]

Therefore, to determine if an installation is ER we first determined if the equipment was replaced on burnout, or was approaching the end of its useful life. If the equipment would not have been able to function as intended for at least a year, the installation is classified as an ROB. If not, we then examine if the program influenced an accelerated replacement, or if the customer was likely to have replaced the equipment at roughly the same time in the absence of the program. If the customer was likely to have replaced the equipment at roughly the same time in the absence of the program, they are considered NR. If not, then the customer will be classified as ER. These two criteria are discussed separately below.

Equipment Operating Condition

If the replaced equipment was not in proper working condition and would not have continued to operate for at least one additional year, then the installation is considered to be a ROB. Using phone survey data, if any of the following four criteria were found to be true, then the existing equipment being replaced would not have continued to function and perform its original design for at least one year in absence of the replacement. Therefore, the installation is an ROB:

1. Fifty percent or more of the equipment was broken or not working prior to the installation as reported by the customer. This criteria contradicts the requirement that the equipment be in proper working condition. The following survey question is used to determine this factor:

[8] From CPUC guidance document "Project Basis (RET, ROB, etc), EUL/RUL Definitions, & Preponderance of Evidence" dated 1/29/14.

LI24: "Approximately what percentage of the lighting equipment that was removed and replaced was broken or not working prior to installing &Prgm_LT1_Desc?"

2. The equipment was in poor condition, as reported by the customer. This criteria contradicts the requirement that the equipment be in proper working condition. The following survey question is used to determine this factor:

   LI23: "How would you describe the condition of the lighting equipment that was removed and replaced as a result of the installation of &Prgm_LT1_Desc? Would you say it was…"

   1 In poor condition
   2 Fair condition, or
   3 Good condition

3. The current age of the equipment must was within one year of the EUL, as reported by the customer. This criteria contradicts the requirement that the equipment would have continued to operate for at least one year. The following survey question is used to determine this factor:

   LI22: "Approximately how old was the equipment that were removed and replaced with &Prgm_LT1_Desc?"

   1. Less than 5 years old
   2. Between 5 and 10 years old
   3. Between 10 and 15 years old
   4. More than 15 years old

4. The equipment would not have lasted more than one year before failing and requiring replacement, as reported by the customer. This criteria contradicts the requirement that the equipment would have continued to operate for at least one year. The following survey question is used to determine this factor:

   ER2: "How many more years do you think your lighting system would have gone before failing and required replacement?"[9]

Program Induced Early Retirement

If the installation was not found to be ROB, we then examine if the customer was likely to have installed the equipment in the absence of the program. If so the installation is considered to be

[9] Question ER2 was originally asked only for those with A3 = 1, and not the customers who claimed a high level of influence due to the age or condition of the old equipment. The survey was revised to ask ALL customers question ER2, as this provides value for this and other analyses discussed below. Therefore, this question will be missing for a number of respondents.

an NR. If not, we consider this sufficient evidence that an energy efficiency program activity induced or accelerated equipment replacement and the installation is classified as ER.

For an installation to be considered NR, the respondent must state a high likelihood that they would have replaced their equipment at the same time, or within a year, in the absence of the program. Furthermore, they must also provide some other evidence to support this statement, by providing a non-program factor as a reason for the installation and rate that factor as very influential in their decision to install the measure.

In order for the installation to be classified as NR, the following must be true:

1. The customer must state a high likelihood that they would have done the project at the same time (a rating of 9 or 10 for N5B), or state they definitely or probably would have replaced the existing equipment within one year of when they did (TD1 = 1 or 2):

   N5B: "If the program had not been available, what is the likelihood that you would have done this project at the same time as you did?"

   TD1: "If the program had not been available, how likely is it that you would have replaced your existing equipment within one year of when you did?"

   1. Definitely would have
   2. Probably would have
   3. 50-50 chance
   4. Probably not
   5. Definitely not

2. The customer must also provide other evidence that supports the claim that they would have replaced their equipment but failure was not imminent, by providing a non-program factor as a reason for the installation and rate that factor as very influential in their decision to install the measure.

   a. The customer must first provide a reason for installing the measure that is consistent with natural (or near term) replacement. Customers are asked the following open-ended question (A3) about reasons for participation. Reponses that would be considered to be supportive of a NR in the absence of the program are shown below:

      A3: "There are usually a number of reasons why an organization like yours decides to participate in energy efficient programs like this one by installing energy efficient lights. In your own words, can you tell me why you decided to participate in this program?"

      1 To replace old or outdated lighting equipment
      2 As part of a planned remodeling, build-out, or expansion

5 Had process problems and were seeking a solution
6 To improve lighting equipment performance
8 To comply with codes set by regulatory agencies
10 To comply with company policies regarding regular lighting retrofits or remodeling

b. If the customer provides any of the above as reasons for participation, they must then rate that factor as being very important (a rating of 9-10 for various N3 questions, listed below):

N3 Now using this scale please rate the importance of each of the following in your decision to implement the MEASURE at this time.

N3a. The age or condition of the old equipment (Corresponds to A3 = 1)

N3j. Standard practice in your business/industry (Corresponds to A3 =10)

N3m. Corporate policy or guidelines (Corresponds to A3 =10)

N3o. To improve your overall quality of lighting (Corresponds to A3 = 5 or 6)

N3p. Compliance with state or federal regulations or standards such as Title 24 (Corresponds to A3 = 8)

N3r. Compliance with your organization's normal remodeling or lighting replacement practices (Corresponds to A3 = 2 or 10)

If there are factors identified in part (a) that are ranked as very important in part (b), then the installation is classified as NR; otherwise the installation as classified as an ER.

Table G-124 through Table G-127 present the distribution of the above criteria and how they are used to classify customers into ROB, NR or ER. Separate tables are presented by HIM. Overall, about 42% of the measures subjected to the dual baseline were considered to be ROB, 58% as ER, and just a fraction of a percent were identified as NR. There were some ROB participants that also indicated that they were NR, but those customers are first classified as ROB. In addition, there were a significant number of participants that indicated that they were either very likely to install their equipment within a year in the absence of the program; or claimed that they were very influenced by a non-program factor to install their equipment. But very few claimed both of these criteria which is the indication of a natural replacement.

The most common reason for being classified as ROB is due to the age exceeding the EUL. This is true for the large majority of those classified as ROB.

Across HIM, the percentage of ROB is relatively similar for the three linear fluorescent measures (38% to 49%), but much higher for HIDs (71%). This is primarily due to the fact that many HID participants are also replacing CFLs and Halogen lamps which have lower EULs, and therefore are more likely to have the age of their replaced equipment be at or above the measures EUL.

Table G-124: Factors for Classifying Participants as ROB, NR and ER for Linear Fluorescents

ROB, NR or ER	>50% Failed	Poor Condition	Age >= EUL	Expected Life <=1	Likely To Install	Influential Non-program Factor	n	% of Sites
ROB	-	-	-	-	1	-	1	0.1%
ROB	-	-	-	1	-	-	7	0.5%
ROB	-	-	-	1	-	1	1	0.1%
ROB	-	-	1	-	-	-	319	24%
ROB	-	-	1	-	-	1	20	1%
ROB	-	-	1	-	1	-	44	3%
ROB	-	-	1	1	-	-	1	0.1%
ROB	-	1	-	-	-	-	34	3%
ROB	-	1	-	-	-	1	20	1%
ROB	-	1	-	-	1	-	3	0.2%
ROB	-	1	-	1	-	-	2	0.1%
ROB	-	1	-	1	1	-	4	0.3%
ROB	-	1	-	1	1	1	1	0.1%
ROB	-	1	1	-	-	-	55	4%
ROB	-	1	1	-	-	1	14	1%
ROB	-	1	1	-	1	-	18	1%
ROB	-	1	1	-	1	1	2	0.1%
ROB	-	1	1	1	-	-	6	0.4%
ROB	1	-	-	-	1	1	3	0.2%
ROB	1	-	1	-	-	1	2	0.1%
ROB	1	-	1	-	1	-	1	0.1%
ROB	1	1	-	-	-	-	1	0.1%
ROB	1	1	-	-	-	1	2	0.1%
ROB	1	1	1	1	1	-	3	0.2%
ROB Total							**564**	**42%**
NR	-	-	-	-	1	1	6	0.4%
NR Total							**6**	**0.4%**
ER	-	-	-	-	-	-	670	50%
ER	-	-	-	-	-	1	23	2%
ER	-	-	-	-	1	-	80	6%
ER Total							**773**	**58%**
Total							**1,343**	**100%**

Table G-125: Factors for Classifying Participants as ROB, NR and ER for High Bay

ROB, NR or ER	>50% Failed	Poor Condition	Age >= EUL	Expected Life <=1	Likely To Install	Influential Non-program Factor	n	% of Sites
ROB	-	-	-	1	-	-	1	0.5%
ROB	-	-	1	-	-	-	53	25%
ROB	-	-	1	-	-	1	9	4%
ROB	-	-	1	-	1	-	5	2%
ROB	-	-	1	-	1	1	1	0.5%
ROB	-	-	1	1	-	-	1	0.5%
ROB	-	1	-	-	-	-	11	5%
ROB	-	1	-	-	-	1	1	0.5%
ROB	-	1	-	-	1	-	1	0.5%
ROB	-	1	-	-	1	1	3	1%
ROB	-	1	1	-	-	-	4	2%
ROB	-	1	1	-	-	1	4	2%
ROB	-	1	1	-	1	-	3	1%
ROB	-	1	1	-	1	1	4	2%
ROB	1	1	1	-	1	-	1	0.5%
ROB	1	1	1	1	-	-	2	0.9%
ROB							**104**	**49%**
ER	-	-	-	-	-	-	84	40%
ER	-	-	-	-	-	1	9	4%
ER	-	-	-	-	1	-	14	7%
ER Total							**107**	**51%**
Total							**211**	**100%**

Table G-126: Factors for Classifying Participants as ROB, NR and ER for HID

ROB, NR or ER	>50% Failed	Poor Condition	Age >= EUL	Expected Life <=1	Likely To Install	Influential Non-program Factor	n	% of Sites
ROB	-	-	-	1	-	-	2	10%
ROB	-	-	1	-	-	-	1	5%
ROB	-	-	1	-	1	-	1	5%
ROB	-	-	1	1	-	-	4	19%
ROB	-	-	1	1	-	1	2	10%
ROB	-	-	1	1	1	-	2	10%
ROB	-	1	-	1	1	-	1	5%
ROB	-	1	1	-	-	-	1	5%
ROB	1	-	1	1	-	1	1	5%
ROB Total							**15**	**71%**
ER	-	-	-	-	-	-	3	14%
ER	-	-	-	-	-	1	1	5%
ER	-	-	-	-	1	-	2	10%
ER Total							**6**	**29%**
Total							**21**	**100%**

Table G-127: Factors for Classifying Participants as ROB, NR and ER for Linear Delamping

ROB, NR or ER	>50% Failed	Poor Condition	Age >= EUL	Expected Life <=1	Likely To Install	Influential Non-program Factor	n	% of Sites
ROB	-	-	-	1	-	-	1	0.3%
ROB	-	-	-	1	-	1	1	0.3%
ROB	-	-	1	-	-	-	88	25%
ROB	-	-	1	-	-	1	3	0.8%
ROB	-	-	1	-	1	-	3	0.8%
ROB	-	1	-	-	-	-	5	1%
ROB	-	1	-	-	-	1	3	0.8%
ROB	-	1	-	-	1	-	2	0.6%
ROB	-	1	-	1	1	-	2	0.6%
ROB	-	1	-	1	1	1	1	0.3%
ROB	-	1	1	-	-	-	15	4%
ROB	-	1	1	-	-	1	1	0.3%
ROB	-	1	1	-	1	-	6	2%
ROB	-	1	1	1	-	-	3	0.8%
ROB	1	-	1	-	1	-	1	0.3%
ROB Total							**135**	**38%**
NR	-	-	-	-	1	1	1	0.3%
NR Total							**1**	**0%**
ER	-	-	-	-	-	-	181	51%
ER	-	-	-	-	-	1	16	4%
ER	-	-	-	-	1	-	24	7%
ER Total							**221**	**62%**
Total							**357**	**100%**

Table G-128 through Table G-131 present the percentage of participants classified as ER by HIM, IOU, Gross Program Group, and Claim Basis. At the IOU level, we see very similar results for PG&E and SCE, but higher rates of early replacement for SDG&E. By measure, across IOU we see results similar to that mentioned above with the three linear measures being relatively similar and the HID measures being more likely to be ROB.

Across program types, direct install has the highest rate of ER (70%) followed by third party programs (62%). This is not unexpected as these programs often times go door to door, especially the DI programs, and offer high incentive rates, as opposed to deemed program participants which may be more likely to have been in the market for their equipment and have the lowest rate of ER at 47%. Note that PG&E's LGP/DI program contains a number of direct installation programs managed by various program implementers, which may be causing the percentage of ER higher. Chapter two of the main body of the report provides a full mapping of all programs into the various IOU-Gross Program Groups.

Table G-128: Percent Early Replacement by HIM, Gross Program Group, and Claim Basis for PG&E

IOU	Claim Basis	Linear Fluorescent	Delamping	High Bay Fluorescent	HIDs	Total
PG&E						
PG&E Custom	Sm/Med Calculated	*36%*	25%			**34%**
	Large Calculated	48%	77%			**61%**
	All Calculated	40%	63%			**46%**
	Total Custom	**40%**	**63%**			**46%**
PG&E Deemed	Deemed	34%	36%	40%	*20%*	**36%**
	Total Deemed	**34%**	**36%**	**40%**	***20%***	**36%**
PG&E 3rd Party	Deemed	68%	79%	64%		**70%**
	Sm/Med Calculated					
	Large Calculated	*100%*	100%			**100%**
	All Calculated	*100%*	100%			**100%**
	Total 3rd Party	**74%**	**82%**	**64%**		**74%**
PG&E Local Govt Partner/DI	Deemed	55%	70%	50%		**58%**
	Sm/Med Calculated	*28%*	15%			**25%**
	Large Calculated	88%	92%	*50%*	*100%*	**88%**
	All Calculated	57%	41%	*33%*	*33%*	**53%**
	Total LGP/DI	**56%**	**60%**	**49%**	***33%***	**56%**
PG&E Total	**Deemed**	**51%**	**64%**	**50%**	***20%***	**54%**
	Sm/Med Calculated	***31%***	**18%**			**28%**
	Large Calculated	**79%**	**85%**	***50%***	***100%***	**80%**
	All Calculated	**53%**	**54%**	***33%***	***25%***	**53%**
PG&E Total		**52%**	**60%**	**49%**	***22%***	**53%**

* Italics indicate segment level results that are supported by small sample sizes of six or less.

As mentioned earlier, the primary reason why installations are classified as ROB is due to the age of the replaced equipment being near or beyond the measure's EUL. Therefore, one of the primary reasons for differences in the percentage of ER across Gross Program Groups is due to the underlying distribution of the age of the replaced equipment. For example, PG&E deemed participants tended to replace older equipment than third party or LGP/DI participants.

Table G-129: Percent Early Replacement by HIM, IOU, Gross Program Group, and Claim Basis for SCE

IOU	Claim Basis	Linear Fluorescent	Delamping	High Bay Fluorescent	HIDs	Total
SCE						
SCE Custom	Sm/Med Calculated	*48%*	33%			**46%**
	Large Calculated	*62%*	100%		*100%*	**72%**
	All Calculated	*53%*	67%		*100%*	**57%**
	Total Custom	***53%***	**67%**		***100%***	**57%**
SCE DI	Deemed	63%	85%	68%		**65%**
	Total DI	**63%**	**85%**	**68%**		**65%**
SCE Deemed	Deemed	48%	48%	31%		**43%**
	Total Deemed	**48%**	**48%**	**31%**		**43%**
SCE 3rd Party	Deemed	47%	85%			**52%**
	Sm/Med Calculated					
	Large Calculated	25%				***18%***
	All Calculated	25%				***18%***
	Total 3rd Party	**45%**	**69%**			**49%**
SCE Local Govt Partner	Deemed	*58%*	63%	*100%*		**61%**
	Sm/Med Calculated					
	Large Calculated	*92%*	100%			**93%**
	All Calculated	*92%*	100%			**93%**
	Total LGP	**66%**	**70%**	***100%***		**68%**
SCE Total	**Deemed**	**56%**	**63%**	**43%**		**55%**
	Sm/Med Calculated	***48%***	**33%**			**46%**
	Large Calculated	***65%***	**63%**		***100%***	**66%**
	All Calculated	***58%***	**55%**		***100%***	**58%**
SCE Total		**56%**	**62%**	**43%**	***25%***	**56%**

* Italics indicate segment level results that are supported by small sample sizes of six or less.

Table G-130: Percent Early Replacement by HIM, IOU, Gross Program Group, and Claim Basis for SDG&E

IOU	Claim Basis	Linear Fluorescent	Delamping	High Bay Fluorescent	HIDs	Total
SDG&E						
SDG&E Custom	Sm/Med Calculated		100%			***100%***
	Large Calculated	100%			*100%*	***100%***
	All Calculated	*100%*	*100%*		*100%*	***100%***
	Total Custom	***100%***	***100%***		***100%***	***100%***
SDG&E DI	Deemed	*80%*	100%			**80%**
	Total DI	*80%*	**100%**			**80%**
SDG&E Deemed	Deemed	**63%**	**71%**	**78%**	***33%***	**67%**
	Total Deemed	**63%**	**71%**	**78%**	***33%***	**67%**
SDG&E LGP/ 3rd Party	Deemed					
	Sm/Med Calculated	56%				**56%**
	Large Calculated	69%		*100%*		**69%**
	All Calculated	61%		*100%*		**62%**
	Total 3rd Party	**61%**		***100%***		**62%**
SDG&E Total	**Deemed**	**74%**	**73%**	**78%**	***33%***	**74%**
	Sm/Med Calculated	***56%***	**100%**			**58%**
	Large Calculated	**75%**		***100%***	***100%***	**75%**
	All Calculated	***65%***	**50%**	***100%***	***100%***	**67%**
SDG&E Total		**72%**	**71%**	**80%**	***50%***	**73%**

* Italics indicate segment level results that are supported by small sample sizes of six or less.

Table G-131: Percent Early Replacement by HIM, IOU, Gross Program Group, and Claim Basis for Statewide

IOU	Claim Basis	CFL Basic	CFL Reflector	High Bay	HID	Total
Statewide						
Statewide Custom	Sm/Med Calculated	*40%*	33%			**38%**
	Large Calculated	56%	80%		*100%*	**66%**
	All Calculated	46%	65%		*75%*	**51%**
	Total Custom	**46%**	**65%**		***75%***	**51%**
Statewide DI	Deemed	69%	86%	68%		**70%**
	Total DI	**69%**	**86%**	**68%**		**70%**
Statewide Deemed	Deemed	49%	50%	43%	*14%*	**47%**
	Total Deemed	**49%**	**50%**	**43%**	***14%***	**47%**
Statewide 3rd Party	Deemed	54%	80%	64%		**61%**
	Sm/Med Calculated	56%				**56%**
	Large Calculated	*67%*	56%	*100%*		**66%**
	All Calculated	*63%*	56%	*100%*		**63%**
	Total 3rd Party	**57%**	**76%**	**67%**		**62%**
Statewide Local Govt Partner	Deemed	55%	69%	54%		**59%**
	Sm/Med Calculated	*28%*	15%			**25%**
	Large Calculated	89%	93%	*50%*	*100%*	**89%**
	All Calculated	59%	44%	*33%*	*33%*	**56%**
	Total LGP	**57%**	**61%**	**53%**	***33%***	**58%**
Statewide Total	**Deemed**	**59%**	**64%**	**50%**	***14%***	**58%**
	Sm/Med Calculated	**36%**	**21%**			**33%**
	Large Calculated	**76%**	**80%**	***75%***	***100%***	**77%**
	All Calculated	**55%**	**54%**	***60%***	***57%***	**55%**
Statewide Total		**58%**	**62%**	**51%**	***29%***	**57%**

* Italics indicate segment level results that are supported by small sample sizes of six or less.

For participants that are classified as ER, Table G-132 through Table G-135 presents the average RUL for each HIM, by IOU, Gross Program Group and Claim Basis. Recall that the RUL is defined as one third of the EUL, and the EUL is capped at 15. Therefore, for many fluorescent measures, their EUL is 15, resulting in an RUL of 5. For HIDs, a significant portion of the equipment that was replaced included incandescent and halogen lamps, which have EULs of 8 years or less. Because the RUL is based on the remaining life of the replaced equipment, HIDs

will therefore have a lower RUL (as shown below) as the average EUL of the replaced equipment is lower than all the linear fluorescent technologies. Overall, the average RUL is just below 5 years.

Table G-132: Average RUL for Early Replacers by HIM, IOU, Gross Program Group, and Claim Basis for PG&E

IOU	Claim Basis	Linear Fluorescent	Delamping	High Bay Fluorescent	HIDs	Total
PG&E						
PG&E Custom	Sm/Med Calculated	*4.8*	4.7			**4.8**
	Large Calculated	5.0	5.0			**5.0**
	All Calculated	4.9	4.9			**4.9**
	Total Custom	**4.9**	**4.9**			**4.9**
PG&E Deemed	Deemed	4.8	4.7	4.7	*3.8*	4.7
	Total Deemed	**4.8**	**4.7**	**4.7**	***3.8***	**4.7**
PG&E 3rd Party	Deemed	4.7	4.8	4.9		**4.8**
	Sm/Med Calculated					
	Large Calculated	*2.8*	4.7			**2.8**
	All Calculated	*2.8*	4.7			**2.8**
	Total 3rd Party	**3.3**	**4.8**	**4.9**		**4.2**
PG&E Local Govt Partner/DI	Deemed	4.8	4.9	5.0		**4.9**
	Sm/Med Calculated	*5.0*	5.0			**5.0**
	Large Calculated	4.8	4.9	*4.4*	*5.0*	**4.8**
	All Calculated	4.9	4.9	*4.4*	*5.0*	**4.9**
	Total LGP/DI	**4.8**	**4.9**	**5.0**	***5.0***	**4.9**
PG&E Total	**Deemed**	**4.8**	**4.9**	**4.8**	***3.8***	**4.8**
	Sm/Med Calculated	***5.0***	**4.9**			**5.0**
	Large Calculated	**4.1**	**4.9**	***4.4***	***5.0***	**4.3**
	All Calculated	**4.5**	**4.9**	***4.4***	***5.0***	**4.6**
PG&E Total		**4.7**	**4.9**	**4.8**	***5.0***	**4.8**

* Italics indicate segment level results that are supported by small sample sizes of six or less.

Table G-133: Average RUL for Early Replacers by HIM, IOU, Gross Program Group, and Claim Basis for SCE

IOU	Claim Basis	Linear Fluorescent	Delamping	High Bay Fluorescent	HIDs	Total
SCE						
SCE Custom	Sm/Med Calculated	*4.7*	5.0			**4.7**
	Large Calculated	*5.0*	5.0		*2.8*	**4.8**
	All Calculated	*4.9*	5.0		*2.8*	**4.7**
	Total Custom	***4.9***	**5.0**		***2.8***	**4.7**
SCE DI	Deemed	4.8	4.7	4.9		**4.8**
	Total DI	**4.8**	**4.7**	**4.9**		**4.8**
SCE Deemed	Deemed	4.5	4.6	5.0		4.8
	Total Deemed	**4.5**	**4.6**	**5.0**		**4.8**
SCE 3rd Party	Deemed	4.9	5.0			**4.9**
	Sm/Med Calculated					
	Large Calculated	3.5				***3.5***
	All Calculated	3.5				***3.5***
	Total 3rd Party	**4.6**	**5.0**			**4.8**
SCE Local Govt Partner	Deemed	*5.0*	5.0	*4.3*		**4.9**
	Sm/Med Calculated					
	Large Calculated	*4.3*	5.0			**4.4**
	All Calculated	*4.3*	5.0			**4.4**
	Total LGP	**4.7**	**5.0**	***4.3***		**4.7**
SCE Total	**Deemed**	**4.8**	**4.7**	**5.0**		**4.8**
	Sm/Med Calculated	***4.7***	**5.0**			**4.7**
	Large Calculated	***4.7***	**5.0**		***2.8***	**4.6**
	All Calculated	***4.7***	**5.0**		***2.8***	**4.6**
SCE Total		**4.8**	**4.7**	**5.0**	***2.8***	**4.8**

* Italics indicate segment level results that are supported by small sample sizes of six or less.

Table G-134: Average RUL for Early Replacers by HIM, IOU, Gross Program Group, and Claim Basis for SDG&E

IOU	Claim Basis	Linear Fluorescent	Delamping	High Bay Fluorescent	HIDs	Total
SDG&E						
SDG&E Custom	Sm/Med Calculated		2.7			***2.7***
	Large Calculated	3.6			*1.4*	***2.9***
	All Calculated	*3.6*	*2.7*		*1.4*	***2.8***
	Total Custom	***3.6***	***2.7***		***1.4***	***2.8***
SDG&E DI	Deemed	*4.7*	5.0			**4.7**
	Total DI	***4.7***	**5.0**			**4.7**
SDG&E Deemed	Deemed	4.6	4.4	5.0	*3.0*	**4.6**
	Total Deemed	**4.6**	**4.4**	**5.0**	***3.0***	**4.6**
SDG&E LGP/ 3rd Party	Deemed					
	Sm/Med Calculated	4.1				**4.1**
	Large Calculated	5.0		*4.9*		**5.0**
	All Calculated	4.7		*4.9*		**4.7**
	Total 3rd Party	**4.7**		***4.9***		**4.7**
SDG&E Total	**Deemed**	**4.6**	**4.5**	**5.0**	***3.0***	**4.6**
	Sm/Med Calculated	***4.1***	**2.7**			**3.9**
	Large Calculated	**4.8**		***4.9***	***1.4***	**4.7**
	All Calculated	***4.6***	**2.7**	***4.9***	***1.4***	**4.4**
SDG&E Total		**4.6**	**4.2**	**5.0**	***2.4***	**4.6**

* Italics indicate segment level results that are supported by small sample sizes of six or less.

Table G-135: Average RUL for Early Replacers by HIM, IOU, Gross Program Group, and Claim Basis for Statewide

IOU	Claim Basis	CFL Basic	CFL Reflector	High Bay	HID	Total
Statewide						
Statewide Custom	Sm/Med Calculated	*4.8*	3.2			**4.5**
	Large Calculated	4.8	5.0		*2.4*	**4.6**
	All Calculated	4.8	4.6		*2.4*	**4.6**
	Total Custom	**4.8**	**4.6**		***2.4***	**4.6**
Statewide DI	Deemed	4.8	4.7	4.9		**4.7**
	Total DI	**4.8**	**4.7**	**4.9**		**4.7**
Statewide Deemed	Deemed	4.6	4.5	4.9	*3.1*	**4.7**
	Total Deemed	**4.6**	**4.5**	**4.9**	***3.1***	**4.7**
Statewide 3rd Party	Deemed	4.9	4.9	4.9		**4.9**
	Sm/Med Calculated	4.1				**4.1**
	Large Calculated	*4.3*	4.7	*4.9*		**4.4**
	All Calculated	*4.3*	4.7	*4.9*		**4.3**
	Total 3rd Party	**4.5**	**4.9**	**4.9**		**4.6**
Statewide Local Govt Partner	Deemed	4.8	4.9	5.0		**4.9**
	Sm/Med Calculated	*5.0*	5.0			**5.0**
	Large Calculated	4.7	4.9	*4.4*	*5.0*	**4.8**
	All Calculated	4.9	4.9	*4.4*	*5.0*	**4.9**
	Total LGP	**4.8**	**4.9**	**5.0**	***5.0***	**4.9**
Statewide Total	**Deemed**	**4.8**	**4.7**	**4.9**	***3.1***	**4.8**
	Sm/Med Calculated	**4.7**	**3.7**			**4.6**
	Large Calculated	**4.6**	**5.0**	***4.9***	***3.3***	**4.5**
	All Calculated	**4.6**	**4.7**	***4.9***	***3.3***	**4.6**
Statewide Total		**4.7**	**4.7**	**4.9**	***3.2***	**4.7**

* Italics indicate segment level results that are supported by small sample sizes of six or less.

Table G-136 through Table G-139 present the percentage of participants classified as ER and the Average RUL for each HIM, by IOU and Gross Program Group. Also shown are the sample size and relative precisions corresponding to each value.

Table G-136: Percent Early Replacement and Average RUL by Gross Program Group for Linear Early Replacers

Gross Program Group	n	Percent Early Replacement	Relative Precision	Average RUL	Relative Precision
PG&E Deemed	26	34%	30%	4.8	2%
PG&E Custom	33	40%	31%	4.9	3%
PG&E 3P	39	74%	19%	3.3	8%
PG&E LGP/DI	188	56%	10%	4.8	1%
PG&E Total	**286**	**52%**	**8%**	**4.7**	**2%**
SCE DI	157	63%	8%	4.8	1%
SCE Deemed	55	48%	17%	4.5	4%
SCE Custom	20	53%	27%	4.9	2%
SCE 3P	41	45%	21%	4.6	3%
SCE LGP	35	66%	40%	4.7	4%
SCE Total	**308**	**56%**	**7%**	**4.8**	**1%**
SDGE DI	107	80%	10%	4.7	2%
SDGE Deemed	50	63%	15%	4.6	3%
SDGE Custom	3	100%	0%	3.6	75%
SDGE 3P/LGP	19	61%	13%	4.7	7%
SDG&E Total	**179**	**72%**	**6%**	**4.6**	**2%**
SW DI	264	69%	7%	4.8	1%
SW Deemed	131	49%	11%	4.6	2%
SW Custom	56	46%	17%	4.8	3%
SW 3P	99	57%	10%	4.5	4%
SW LGP	223	57%	9%	4.8	1%
Statewide	**773**	**58%**	**4%**	**4.7**	**1%**

Table G-137: Percent Early Replacement and Average RUL by Gross Program Group for High Bay Early Replacers

Gross Program Group	n	Percent Early Replacement	Relative Precision	Average RUL	Relative Precision
PG&E Deemed	18	40%	27%	4.7	6%
PG&E Custom					
PG&E 3P	18	64%	38%	4.9	2%
PG&E LGP/DI	18	49%	23%	5.0	0%
PG&E Total	**54**	**49%**	**16%**	**4.8**	**3%**
SCE DI	13	68%	26%	4.9	3%
SCE Deemed	17	31%	42%	5.0	0%
SCE Custom					
SCE 3P					
SCE LGP	3	100%	0%	4.3	16%
SCE Total	**33**	**43%**	**32%**	**5.0**	**1%**
SDGE DI					
SDGE Deemed	18	78%	11%	5.0	0%
SDGE Custom					
SDGE 3P/LGP	2	100%	0%	4.9	33%
SDG&E Total	**20**	**80%**	**10%**	**5.0**	**1%**
SW DI	13	68%	26%	4.9	3%
SW Deemed	53	43%	21%	4.9	2%
SW Custom					
SW 3P	20	67%	31%	4.9	2%
SW LGP	21	53%	21%	5.0	1%
Statewide	**107**	**51%**	**14%**	**4.9**	**2%**

Table G-138: Percent Early Replacement and Average RUL by Gross Program Group for HID Early Replacers

Gross Program Group	n	Percent Early Replacement	Relative Precision	Average RUL	Relative Precision
PG&E Deemed	1	20%	768%	3.8	
PG&E Custom					
PG&E 3P					
PG&E LGP/DI	1	33%	98%	5.0	
PG&E Total	**2**	**22%**	**82%**	**5.0**	**22%**
SCE DI					
SCE Deemed					
SCE Custom	2	100%	0%	2.8	263%
SCE 3P					
SCE LGP					
SCE Total	**2**	**25%**	**90%**	**2.8**	**263%**
SDGE DI					
SDGE Deemed	1	33%	32%	3.0	
SDGE Custom	1	100%		1.4	
SDGE 3P/LGP					
SDG&E Total	**2**	**50%**	**17%**	**2.4**	**203%**
SW DI					
SW Deemed	2	14%	91%	3.1	24%
SW Custom	3	75%	43%	2.4	100%
SW 3P					
SW LGP	1	33%	98%	5.0	
Statewide	**6**	**29%**	**38%**	**3.2**	**38%**

Table G-139: Percent Early Replacement and Average RUL by Gross Program Group for Delamping Early Replacers

Gross Program Group	n	Percent Early Replacement	Relative Precision	Average RUL	Relative Precision
PG&E Deemed	12	36%	63%	4.7	7%
PG&E Custom	19	63%	35%	4.9	1%
PG&E 3P	27	82%	16%	4.8	3%
PG&E LGP/DI	70	60%	16%	4.9	2%
PG&E Total	**128**	**60%**	**12%**	**4.9**	**1%**
SCE DI	23	85%	14%	4.7	3%
SCE Deemed	28	48%	24%	4.6	5%
SCE Custom	4	67%	62%	5.0	0%
SCE 3P	11	69%	19%	5.0	0%
SCE LGP	7	70%	43%	5.0	0%
SCE Total	**73**	**62%**	**11%**	**4.7**	**2%**
SDGE DI	2	100%	0%	5.0	0%
SDGE Deemed	17	71%	12%	4.4	7%
SDGE Custom	1	100%		2.7	
SDGE 3P/LGP					
SDG&E Total	**20**	**71%**	**13%**	**4.2**	**8%**
SW DI	25	86%	13%	4.7	3%
SW Deemed	57	50%	17%	4.5	3%
SW Custom	24	65%	21%	4.6	6%
SW 3P	38	76%	12%	4.9	2%
SW LGP	77	61%	15%	4.9	2%
Statewide	**221**	**62%**	**7%**	**4.7**	**1%**

One of the survey questions used in the above algorithm to determine if a customer is ROB is the self-reported current age of the equipment:

> LI22: "Approximately how old was the equipment that were removed and replaced with &Prgm_LT1_Desc?"
>
> 1. Less than 5 years old
> 2. Between 5 and 10 years old
> 3. Between 10 and 15 years old
> 4. More than 15 years old

Although the DEER methodology was used to estimate the RUL, we also estimated an approximate RUL by subtracting the customer's self-reported equipment age from the

equipment's EUL. Because age was asked in 5 year bins, mid points were used to estimate the RUL. Table G-140 presents this estimated RUL by HIM and compare it to the DEER value. Overall, the values seem to compare fairly well, with linear fluorescents matching almost exactly and high bay fluorescents within 10% of each other. Delamping values differ by about a year. The two year difference among HIDs is being driven by one customer that has a significantly portion of the weight and an EUL minus self-reported age of 12 years, driving up that value. We feel these results provide a good validation for the DEER methodology.

Table G-140: Comparison of DEER RUL to EUL minus Self-Reported Age by HIM for ER Participants

Gross Program Group	EUL – Self-Reported Age	DEER RUL
Linear Fluorescent	4.8	4.7
Delamping	3.5	4.7
High Bay Fluorescent	4.5	4.9
HIDs	6.7	4.1

G.9 Development of Gross and Net Realization Rates

G.9.1 Gross First Year Realization Rates

Once all the individual parameter estimates are developed for each participant in the on-site sample, and the customer is classified as either ROB or ER, the equations presented in Section G.4 can be applied to develop site-specific and measure-specific estimates of gross energy savings.

Gross realization rates can then be estimated for kWh and kW savings by looking at the ratio of the evaluated gross savings to the ex-ante gross savings. Specifically, the Gross Realization Rate (GRR) for HIM-IOU-Gross Program Group segment j is estimated as:

$$Gross_Realization_Rate_j = \frac{\sum_{i=1}^{n} Gross_Ex_Post_Impact_{i,j}}{\sum_{i=1}^{n} Gross_Ex_Ante_Impact_{i,j}}$$

Where,

> $Gross_Ex_Post_Impact_{i,j}$ is the site-specific gross ex-post impact estimate for customer i, in the on-site sample, who is in HIM-IOU-Gross Program Group segment j.

$Gross_Ex_Ante_Impact_{i,j}$ is the site-specific gross ex-ante impact estimate for customer i, in the on-site sample, who is in HIM-IOU-Gross Program Group segment j.

Table G-141 and Table G-142 present the kWh and kW gross realization rates, respectively, by HIM, IOU and Gross Program Group. The results presented do not incorporate any of the Large Calculated sites. These sites were sampled separately as a census, and separate results are presented for the Large Calculated sites in Table G-152 below.

It is important to note that realization rates are only developed for the HIM, IOU and Gross Program Group segments that were explicitly sampled as part of the data collection plan. While on-site, if other measures were found at the facility that were not part of the sample design, data was still collected on those measures to support other analysis efforts, such as updating DEER impact parameters. However, the sample that was obtained on measures that were not part of the original sample design was not of sufficient size to produce statistically significant results.

Table G-141: Gross kWh Realization Rates by HIM, IOU and Gross Program Group – Not Including Large Calculated

Gross Program Group	CFL Basic	CFL Reflector	High Bay	HID	Delamp	Linear	Occ Sensors	Total
PG&E Deemed		166%	55%	*95%*	48%	49%	41%	**56%**
PG&E Custom						85%		**85%**
PG&E 3P	50%		59%		36%	49%	52%	**53%**
PG&E LGP/DI	21%	84%	35%	37%	44%	33%	106%	**36%**
PG&E Total	**35%**	**132%**	**54%**	**45%**	**43%**	**48%**	**45%**	**50%**
SCE DI	29%	64%	69%		52%	28%	69%	**47%**
SCE Deemed		24%	63%	*153%*	64%	133%	55%	**78%**
SCE Custom						90%		**90%**
SCE 3P					55%	58%		**57%**
SCE LGP						59%		**59%**
SCE Total	**29%**	**32%**	**63%**	***153%***	**61%**	**86%**	**56%**	**74%**
SDGE DI	99%	62%				45%		**52%**
SDGE Deemed	48%	32%	41%	*196%*	66%	57%	89%	**70%**
SDGE 3P/LGP	46%					71%		**71%**
SDG&E Total	**68%**	**44%**	**41%**	***196%***	**66%**	**60%**	**89%**	**68%**
SW DI	**54%**	**63%**	**69%**		**52%**	**37%**	**69%**	**49%**
SW Deemed	**48%**	**53%**	**55%**	**162%**	**61%**	**80%**	**56%**	**69%**
SW Custom						**88%**		**88%**
SW 3P	**50%**		**59%**		**43%**	**63%**	**52%**	**57%**
SW LGP	**21%**	**84%**	**35%**	**37%**	**44%**	**34%**	**106%**	**37%**
Statewide Total	**38%**	**58%**	**55%**	**129%**	**55%**	**63%**	**57%**	**63%**

* Italics indicate segment level results that are supported by small samples sizes of six or less.

Table G-142: Gross kW Realization Rates by HIM, IOU and Gross Program Group – Not Including Large Calculated

Gross Program Group	CFL Basic	CFL Reflector	High Bay	HID	Delamp	Linear	Occ Sensors	Total
PG&E Deemed		152%	45%	*104%*	58%	48%	46%	**51%**
PG&E Custom						59%		**59%**
PG&E 3P	98%		42%		68%	59%	58%	**54%**
PG&E LGP/DI	16%	75%	31%	28%	45%	33%	165%	**34%**
PG&E Total	**49%**	**120%**	**42%**	**39%**	**53%**	**43%**	**51%**	**46%**
SCE DI	32%	72%	69%		54%	30%	21%	**43%**
SCE Deemed		15%	58%	*158%*	59%	92%	27%	**64%**
SCE Custom						61%		**61%**
SCE 3P					44%	42%		**43%**
SCE LGP						49%		**49%**
SCE Total	**32%**	**27%**	**58%**	***158%***	**56%**	**61%**	**27%**	**60%**
SDGE DI	92%	67%				47%		**52%**
SDGE Deemed	38%	33%	34%	*113%*	38%	42%	70%	**49%**
SDGE 3P/LGP	38%					85%		**85%**
SDG&E Total	**61%**	**48%**	**34%**	***113%***	**38%**	**57%**	**70%**	**54%**
SW DI	**54%**	**70%**	**69%**		**54%**	**39%**	**21%**	**46%**
SW Deemed	**38%**	**44%**	**48%**	**141%**	**55%**	**60%**	**39%**	**57%**
SW Custom						**60%**		**60%**
SW 3P	**95%**		**42%**		**53%**	**66%**	**58%**	**58%**
SW LGP	**16%**	**75%**	**31%**	**28%**	**45%**	**34%**	**165%**	**34%**
Statewide Total	**49%**	**52%**	**47%**	**108%**	**53%**	**53%**	**40%**	**54%**

* Italics indicate segment level results that are supported by small samples sizes of six or less.

Table G-143 and Table G-144 present the kWh and kW gross realization rates, respectively, by HIM, IOU and Gross Program Group and ER/ROB. Again, the Large Calculated sites are not included in these results.

Table G-143: Gross kWh Realization Rates by HIM, IOU, Gross Program Group, and ER versus ROB – Not Including Large Calculated

Gross Program Group	ER or ROB	CFL Basic	CFL Reflector	High Bay	HID	Delamp	Linear	Occ Sensors	Total
PG&E Deemed	ER			65%	*112%*	114%	78%		**69%**
	ROB		166%	49%	*95%*	33%	36%	41%	**51%**
PG&E Custom	ER						*19%*		***19%***
	ROB						122%		**122%**
PG&E 3P	ER			45%		34%	105%		**48%**
	ROB	50%		70%		*44%*	33%	52%	**56%**
PG&E LGP/DI	ER			37%	*8%*	51%	62%		**46%**
	ROB	21%	84%	29%	52%	30%	19%	106%	**31%**
PG&E Total	**ER**			**55%**	**9%**	**51%**	**59%**		**53%**
	ROB	**35%**	**132%**	**54%**	**60%**	**34%**	**43%**	**45%**	**49%**
SCE DI	ER			84%		46%	33%		**50%**
	ROB	29%	64%	*34%*		*93%*	20%	69%	**45%**
SCE Deemed	ER			64%		80%	154%		**87%**
	ROB		24%	62%	*153%*	51%	115%	55%	**76%**
SCE Custom	ER						*106%*		***106%***
	ROB						85%		**85%**
SCE 3P	ER					64%	61%		**63%**
	ROB					*27%*	57%		**52%**
SCE LGP	ER						35%		**35%**
	ROB						119%		**119%**
SCE Total	**ER**			**67%**		**69%**	**95%**		**77%**
	ROB	**29%**	**32%**	**62%**	***153%***	**51%**	**81%**	**56%**	**73%**
SDG&E DI	ER						56%		**56%**
	ROB	99%	62%				24%		**47%**
SDG&E Deemed	ER			40%	*199%*	68%	55%		**72%**
	ROB	48%	32%	*46%*	*49%*	43%	60%	89%	**65%**
SDG&E Custom	ER								
	ROB								
SDG&E 3P/LGP	ER						*74%*		***74%***
	ROB	46%					*55%*		**54%**
SDG&E Total	**ER**			**40%**	***199%***	**68%**	**64%**		**71%**
	ROB	**68%**	**44%**	***46%***	***49%***	**43%**	**50%**	**89%**	**61%**

Table G-143 (Cont'd): Gross kWh Realization Rates by HIM, IOU, Gross Program Group, and ER versus ROB – Not Including Large Calculated

Gross Program Group	ER or ROB	CFL Basic	CFL Reflector	High Bay	HID	Delamp	Linear	Occ Sensors	Total
Statewide DI	ER			84%		46%	47%		**52%**
	ROB	54%	63%	*34%*		*93%*	22%	69%	**46%**
Statewide Deemed	ER			53%	*199%*	79%	91%		**75%**
	ROB	48%	53%	56%	148%	45%	71%	56%	**66%**
Statewide Custom	ER						62%		**62%**
	ROB						98%		**98%**
Statewide 3P	ER			45%		45%	76%		**60%**
	ROB	50%		70%		36%	47%	52%	**55%**
Statewide LGP	ER			37%	*8%*	51%	59%		**45%**
	ROB	21%	84%	29%	52%	30%	21%	106%	**31%**
Statewide Total	**ER**			**52%**	**141%**	**63%**	**71%**		**66%**
	ROB	**38%**	**58%**	**57%**	**125%**	**43%**	**57%**	**57%**	**61%**

* Italics indicate segment level results that are supported by small samples sizes of six or less.

Table G-144: Gross kW Realization Rates by HIM, IOU, Gross Program Group, and ER versus ROB – Not Including Large Calculated

Gross Program Group	ER or ROB	CFL Basic	CFL Reflector	High Bay	HID	Delamp	Linear	Occ Sensors	Total
PG&E Deemed	ER			47%	*93%*	137%	74%		**54%**
	ROB		152%	43%	*104%*	35%	36%	46%	**49%**
PG&E Custom	ER						*15%*		***15%***
	ROB						96%		**96%**
PG&E 3P	ER			46%		66%	204%		**62%**
	ROB	98%		39%		*76%*	30%	58%	**51%**
PG&E LGP/DI	ER			31%	*5%*	48%	60%		**41%**
	ROB	16%	75%	29%	41%	37%	21%	165%	**29%**
PG&E Total	**ER**			**44%**	**6%**	**63%**	**57%**		**48%**
	ROB	**49%**	**120%**	**41%**	**54%**	**40%**	**36%**	**51%**	**45%**
SCE DI	ER			88%		52%	38%		**54%**
	ROB	32%	72%	*24%*		*68%*	21%	21%	**34%**
SCE Deemed	ER			64%		83%	114%		**80%**
	ROB		15%	56%	*158%*	41%	75%	27%	**61%**
SCE Custom	ER						*107%*		***107%***
	ROB						50%		**50%**
SCE 3P	ER					56%	62%		**58%**
	ROB					*9%*	35%		**30%**
SCE LGP	ER						31%		**31%**
	ROB						94%		**94%**
SCE Total	**ER**			**67%**		**70%**	**82%**		**73%**
	ROB	**32%**	**27%**	**55%**	***158%***	**39%**	**51%**	**27%**	**56%**
SDG&E DI	ER						54%		**54%**
	ROB	92%	67%				31%		**51%**
SDG&E Deemed	ER			31%	*115%*	38%	36%		**47%**
	ROB	38%	33%	*52%*	*64%*	40%	49%	70%	**56%**
SDG&E Custom	ER								
	ROB								
SDG&E 3P/LGP	ER						*88%*		***88%***
	ROB	38%					*66%*		**62%**
SDG&E Total	**ER**			**31%**	***115%***	**38%**	**62%**		**54%**
	ROB	**61%**	**48%**	***52%***	***64%***	**40%**	**47%**	**70%**	**55%**

Table G-144 (Cont'd): Gross kW Realization Rates by HIM, IOU, Gross Program Group, and ER versus ROB – Not Including Large Calculated

Gross Program Group	ER or ROB	CFL Basic	CFL Reflector	High Bay	HID	Delamp	Linear	Occ Sensors	Total
Statewide DI	ER			88%		52%	48%		**54%**
	ROB	54%	70%	*24%*		*68%*	25%	21%	**39%**
Statewide Deemed	ER			44%	*114%*	72%	66%		**57%**
	ROB	38%	44%	51%	152%	39%	55%	39%	**57%**
Statewide Custom	ER						55%		**55%**
	ROB						62%		**62%**
Statewide 3P	ER			46%		60%	91%		**71%**
	ROB	95%		39%		35%	37%	58%	**47%**
Statewide LGP	ER			31%	*5%*	48%	57%		**41%**
	ROB	16%	75%	29%	41%	37%	22%	165%	**29%**
Statewide Total	**ER**			**44%**	**77%**	**63%**	**66%**		**57%**
	ROB	**49%**	**52%**	**49%**	**122%**	**39%**	**44%**	**40%**	**52%**

* Italics indicate segment level results that are supported by small samples sizes of six or less.

Table G-145 through Table G-151 present separate results for each HIM, by IOU and Gross Program Group, which include the sample size, the kWh realization rate, the relative precision for the kWh realization rate, the kW realization rate, and the relative precision for the kW realization rate. Again, these tables do not include the Large Calculated sample.

Table G-145: Gross kWh and kW Realization Rates for CFL Basic by IOU and Gross Program Group, with Relative Precisions – Not Including Large Calculated

Gross Program Group	n	GRR kWh	Relative Precision	GRR kW	Relative Precision
PG&E Deemed					
PG&E Custom					
PG&E 3P	32	50%	38%	98%	40%
PG&E LGP/DI	100	21%	40%	16%	34%
PG&E Total	**132**	**35%**	**29%**	**49%**	**33%**
SCE DI	79	29%	35%	32%	38%
SCE Deemed					
SCE Custom					
SCE 3P					
SCE LGP					
SCE Total	**79**	**29%**	**35%**	**32%**	**38%**
SDGE DI	33	99%	17%	92%	24%
SDGE Deemed	10	48%	60%	38%	75%
SDGE Custom					
SDGE 3P/LGP	14	46%	78%	38%	85%
SDG&E Total	**57**	**68%**	**24%**	**61%**	**27%**
SW DI	**112**	**54%**	**16%**	**54%**	**21%**
SW Deemed	**10**	**48%**	**60%**	**38%**	**75%**
SW Custom					
SW 3P	**46**	**50%**	**37%**	**95%**	**39%**
SW LGP	**100**	**21%**	**40%**	**16%**	**34%**
Statewide Total	**268**	**38%**	**22%**	**49%**	**26%**

Table G-146: Gross kWh and kW Realization Rates for CFL Reflector by IOU and Gross Program Group, with Relative Precisions – Not Including Large Calculated

Gross Program Group	n	GRR kWh	Relative Precision	GRR kW	Relative Precision
PG&E Deemed	12	166%	72%	152%	50%
PG&E Custom					
PG&E 3P					
PG&E LGP/DI	28	84%	25%	75%	38%
PG&E Total	**40**	**132%**	**54%**	**120%**	**39%**
SCE DI	44	64%	32%	72%	30%
SCE Deemed	16	24%	84%	15%	137%
SCE Custom					
SCE 3P					
SCE LGP					
SCE Total	**60**	**32%**	**51%**	**27%**	**62%**
SDGE DI	25	62%	23%	67%	26%
SDGE Deemed	9	32%	44%	33%	42%
SDGE Custom					
SDGE 3P/LGP					
SDG&E Total	**34**	**44%**	**23%**	**48%**	**23%**
SW DI	**69**	**63%**	**24%**	**70%**	**23%**
SW Deemed	**37**	**53%**	**52%**	**44%**	**48%**
SW Custom					
SW 3P					
SW LGP	**28**	**84%**	**25%**	**75%**	**38%**
Statewide Total	**134**	**58%**	**34%**	**52%**	**30%**

Table G-147: Gross kWh and kW Realization Rates for High Bay Lighting by IOU and Gross Program Group, with Relative Precisions – Not Including Large Calculated

Gross Program Group	n	GRR kWh	Relative Precision	GRR kW	Relative Precision
PG&E Deemed	45	55%	14%	45%	15%
PG&E Custom					
PG&E 3P	28	59%	41%	42%	36%
PG&E LGP/DI	23	35%	24%	31%	21%
PG&E Total	**96**	**54%**	**16%**	**42%**	**14%**
SCE DI	19	69%	47%	69%	57%
SCE Deemed	54	63%	19%	58%	15%
SCE Custom					
SCE 3P					
SCE LGP					
SCE Total	**73**	**63%**	**19%**	**58%**	**14%**
SDGE DI					
SDGE Deemed	24	41%	25%	34%	43%
SDGE Custom					
SDGE 3P/LGP					
SDG&E Total	**24**	**41%**	**25%**	**34%**	**43%**
SW DI	**19**	**69%**	**47%**	**69%**	**57%**
SW Deemed	**123**	**55%**	**11%**	**48%**	**11%**
SW Custom					
SW 3P	**28**	**59%**	**41%**	**42%**	**36%**
SW LGP	**23**	**35%**	**24%**	**31%**	**21%**
Statewide Total	**193**	**55%**	**11%**	**47%**	**10%**

Table G-148: Gross kWh and kW Realization Rates for HID by IOU and Gross Program Group, with Relative Precisions – Not Including Large Calculated

Gross Program Group	n	GRR kWh	Relative Precision	GRR kW	Relative Precision
PG&E Deemed	5	95%	26%	104%	11%
PG&E Custom					
PG&E 3P					
PG&E LGP/DI	26	37%	51%	28%	53%
PG&E Total	**31**	**45%**	**37%**	**39%**	**34%**
SCE DI					
SCE Deemed	6	153%	55%	158%	48%
SCE Custom					
SCE 3P					
SCE LGP					
SCE Total	**6**	**153%**	**55%**	**158%**	**48%**
SDGE DI					
SDGE Deemed	3	196%	5%	113%	3%
SDGE Custom					
SDGE 3P/LGP					
SDG&E Total	**3**	**196%**	**5%**	**113%**	**3%**
SW DI					
SW Deemed	**14**	**162%**	**35%**	**141%**	**35%**
SW Custom					
SW 3P					
SW LGP	**26**	**37%**	**51%**	**28%**	**53%**
Statewide Total	**40**	**129%**	**33%**	**108%**	**32%**

Table G-149: Gross kWh and kW Realization Rates for Delamping by IOU and Gross Program Group, with Relative Precisions – Not Including Large Calculated

Gross Program Group	n	GRR kWh	Relative Precision	GRR kW	Relative Precision
PG&E Deemed	33	48%	49%	58%	61%
PG&E Custom					
PG&E 3P	28	36%	28%	68%	44%
PG&E LGP/DI	54	44%	27%	45%	24%
PG&E Total	**115**	**43%**	**22%**	**53%**	**25%**
SCE DI	38	52%	32%	54%	30%
SCE Deemed	58	64%	24%	59%	31%
SCE Custom					
SCE 3P	23	55%	27%	44%	36%
SCE LGP					
SCE Total	**119**	**61%**	**19%**	**56%**	**24%**
SDGE DI					
SDGE Deemed	24	66%	51%	38%	41%
SDGE Custom					
SDGE 3P/LGP					
SDG&E Total	**24**	**66%**	**51%**	**38%**	**41%**
SW DI	**38**	**52%**	**32%**	**54%**	**30%**
SW Deemed	**115**	**61%**	**20%**	**55%**	**25%**
SW Custom					
SW 3P	**51**	**43%**	**19%**	**53%**	**29%**
SW LGP	**54**	**44%**	**27%**	**45%**	**24%**
Statewide Total	**258**	**55%**	**14%**	**53%**	**17%**

Table G-150: Gross kWh and kW Realization Rates for Linear Fluorescent by IOU and Gross Program Group, with Relative Precisions – Not Including Large Calculated

Gross Program Group	n	GRR kWh	Relative Precision	GRR kW	Relative Precision
PG&E Deemed	76	49%	28%	48%	30%
PG&E Custom	14	85%	77%	59%	71%
PG&E 3P	44	49%	67%	59%	80%
PG&E LGP/DI	127	33%	66%	33%	59%
PG&E Total	**261**	**48%**	**37%**	**43%**	**34%**
SCE DI	240	28%	13%	30%	13%
SCE Deemed	114	133%	61%	92%	53%
SCE Custom	10	90%	57%	61%	68%
SCE 3P	73	58%	15%	42%	25%
SCE LGP	43	59%	41%	49%	39%
SCE Total	**480**	**86%**	**34%**	**61%**	**34%**
SDGE DI	134	45%	24%	47%	18%
SDGE Deemed	78	57%	28%	42%	30%
SDGE Custom					
SDGE 3P/LGP	7	71%	27%	85%	19%
SDG&E Total	**219**	**60%**	**17%**	**57%**	**14%**
SW DI	**374**	**37%**	**17%**	**39%**	**13%**
SW Deemed	**268**	**80%**	**35%**	**60%**	**29%**
SW Custom	**24**	**88%**	**46%**	**60%**	**51%**
SW 3P	**124**	**63%**	**20%**	**66%**	**19%**
SW LGP	**170**	**34%**	**61%**	**34%**	**55%**
Statewide Total	**960**	**63%**	**19%**	**53%**	**17%**

Table G-151: Gross kWh and kW Realization Rates for Occupancy Sensors by IOU and Gross Program Group, with Relative Precisions – Not Including Large Calculated

Gross Program Group	n	GRR kWh	Relative Precision	GRR kW	Relative Precision
PG&E Deemed	52	41%	42%	46%	46%
PG&E Custom					
PG&E 3P	16	52%	58%	58%	73%
PG&E LGP/DI	30	106%	65%	165%	64%
PG&E Total	**98**	**45%**	**33%**	**51%**	**37%**
SCE DI	84	69%	38%	21%	45%
SCE Deemed	61	55%	31%	27%	52%
SCE Custom					
SCE 3P					
SCE LGP					
SCE Total	**145**	**56%**	**28%**	**27%**	**48%**
SDGE DI					
SDGE Deemed	41	89%	22%	70%	21%
SDGE Custom					
SDGE 3P/LGP					
SDG&E Total	**41**	**89%**	**22%**	**70%**	**21%**
SW DI	**84**	**69%**	**38%**	**21%**	**45%**
SW Deemed	**154**	**56%**	**18%**	**39%**	**26%**
SW Custom					
SW 3P	**16**	**52%**	**58%**	**58%**	**73%**
SW LGP	**30**	**106%**	**65%**	**165%**	**64%**
Statewide Total	**284**	**57%**	**17%**	**40%**	**24%**

Table G-152 presents the sample size, the kWh realization rate, the relative precision for the kWh realization rate, the kW realization rate, and the relative precision for the kW realization rate by IOU, for the Large Calculated Sites.

Table G-152: Gross kWh and kW Realization Rates for Large Calculated Sites by IOU with Relative Precisions

IOU	n	GRR kWh	Relative Precision	GRR kW	Relative Precision
PG&E	46	53%	46%	44%	65%
SCE	15	46%	32%	47%	28%
SDG&E	5	43%	33%	39%	78%
Statewide	**66**	**49%**	**27%**	**45%**	**34%**

As shown above in Table G-145 through Table G-152, the GRRs can vary significantly from one segment to another. It is important to note, however, that all results except one are statistically significant at the 90% confidence interval[10]. It can be expected to have a lot of variation in the GRRs across segment because the GRR incorporates so many random variables, including installation rates, operating hours, coincidence factors, installed wattages, replaced wattages, and industry standard wattage. Many of the measures have a dual baseline, so whether the installation is ROB or ER creates additional variation. To understand why the GRR differs from one, means understanding why each individual parameter estimated differs between ex-ante and ex-post. The ex-post values are based on observed data, with a number of segments having sample sizes less than 30 points. Although these parameter level estimates are statistically significant, these results are likely to vary from segment to segment due to the sampling error inherent in the randomly selected sample. Furthermore, even within a segment, the ex-ante parameter level values can vary significantly due to differences in work paper assumptions for deemed measures, or for site-specific reasons for calculated measures.

The objective of this study was to develop GRRs that could be used to estimate IOU level net and gross savings across all non-residential downstream lighting that are statistically significant. The ex-post saving values across all HIMs for an IOU produced GRRs with relative precision that ranged from 9% to 16% at the overall IOU level at 90% confidence. The relative precision for the IOU-HIM level kW and kWh GRRs for linear measures (linear fluorescents, delamping and high bay) are mostly in the range of 15 to 25% at 90% confidence, with a few values in the 30-40% range and a few more in the 40-50% range. For occupancy sensors, the relative precisions are in the 20-35% range with one exception at 48%. There is more variation among the CFL and HID measures, where the relative precisions are mostly in the 20-40% range, with a few values in the 50-60% range.

[10] Only the SCE Deemed CFL Reflector kW GRR is not statistically significant, with a relative precision of 137%. The absolute or margin of error for this segment, however, is only 20%, which is actually smaller than many other segments. But because the GRR is only 15% for this segment, the relative error is large at 137%.

For large calculated measures, the objective was to develop statewide level kW and kWh GRRs, which resulted in relative precisions of 34% and 27%, respectively.

An additional objective was to develop GRRs at the HIM, IOU and Gross Program Group level that were considered to still be statistically significant, but not at the same high level of precision as statewide results. As mentioned, all but one of these values was statistically significant at the 90% confidence level. The majority (about 60%) of the kW and kWh GRRs had relative precisions measured at the 90% confidence level that were in the range of 10-40% at the HIM, IOU and Gross Program Group level.

Below, we attempt to explain why GRRs differed from one. As mentioned, this requires examining multiple parameters and comparing ex-ante and ex-post results to understand the differences in each parameter, and how that affected the overall GRR. To do this, it is necessary to know what the underlying parameter values are for every customer and measure evaluated. However, this was not always possible for every ex-ante parameter. Some work papers were not detailed enough to allow us to identify the customer-specific value associated with a given installation, and some calculated applications were not complete enough to provide this information. In this exercise, it was not considered necessary to completely explain the differences in ex-ante and ex-post values 100% of the time, but rather to have a more general understanding of what was the cause of the GRRs differing from one.

Below, we discuss the GRRs at the HIM, IOU and Gross Program Group level and attempt to explain how each parameter contributed to the GRR differing from one. Table G-153 to Table G-159 also provide these results.

CFL Basic – PG&E

The kWh GRR for the Third Party segment is 50%. Its installation rate is 75%, and it exhibits both ex-post operating hours and delta watts that are around 20% lower than ex-ante. This segment's kW GRR is much higher at 98%, however, because the ex-post coincidence factors are higher than ex-ante by 50% or more.

The LGP/DI segment has a kWh GRR of only 21%. Its installation rate is 87%, but it exhibits very low ex-post operating hours that are less than a third of the ex-ante values. Delta watts are more in line with ex-ante. The kW GRR has similar results, with a value of only 16%, driven by coincidence factors that are only 20% of the ex-ante value.

CFL Basic – SCE

The kWh GRR for the Direct Installation segment is 29%. Its installation rate is 63%, and it exhibits ex-post operating hours that are only half that of ex-ante. Delta watts, however, are very

similar between ex-post and ex-ante. The kW GRR has similar results, with a value of only 32%, again because the ex-post coincidence factors are only half that of ex-ante.

CFL Basic – SDG&E

The Direct Installation segment has a kWh GRR that is 94%. Its installation rate is 94%. It exhibits ex-post operating hours that are about half that of ex-ante, but is balanced by delta wattages that are almost twice as high as ex-ante. The kW GRR has a value of 92%, due to the ex-post coincidence factors being less than half of the ex-ante value.

The Deemed segment has a kWh GRR of 48%. Its installation rate is 94%, but it exhibits both ex-post operating hours and delta watts that are 20-30% lower than ex-ante. The kW GRR has a value of 38%, due to the ex-post coincidence factors being about 40% lower than ex-ante.

The kWh GRR for 3P/LGP segment is 46%. Its installation rate is 44%. Both ex-post operating hours and delta watts are slightly higher than ex-ante. The kW GRR has a value of 38%, due to the ex-post coincidence factors being about 15% lower than ex-ante.

CFL Basic – Statewide

At the statewide level for CFL Basic measures, the kWh GRR is 38%. The overall installation rate is 77%. Ex-post operating hours are only about half of the ex-ante value. Delta watts, however, are in line with ex-ante values. The kW GRR has a value of 49%, due to the ex-post coincidence factors being about 35% lower than ex-ante.

CFL Reflector – PG&E

The kWh GRR for the Deemed segment is 166%. Its installation rate is 88%, but it has ex-post operating hours that are significantly higher than ex-ante, by more than 50%. Furthermore, it has delta watts that are around 20% high than ex-ante. The kW GRR has similar results, with a value of 152%, driven by ex-post coincidence factors that are more than 50% higher than ex-ante.

The LGP/DI segment has a kWh GRR of 84%, and has an installation rate of 78%. Ex-post operating hours for this segment are about a quarter lower than ex-ante, but are balanced by ex-post delta watts that are about 50% higher. The kW GRR is slightly lower, with a value of 75%, driven by ex-post coincidence factors that are around one third lower than ex-ante.

CFL Reflector – SCE

The kWh GRR for the Direct Installation segment is 64%. Its installation rate is 88%. Ex-post operating hours are about 20% lower than ex-ante and ex-post wattages are about 10% lower. The kW GRR is somewhat higher, with a value of 72%, as ex-post coincidence factors are only about 10% lower than ex-ante.

The kWh GRR for the Deemed segment is only 24%. Its installation rate is 95%. This low GRR is driven mostly by low ex-post operating hours, which are only about 40% that of ex-ante. Furthermore, ex-post wattages are about 30% lower than ex-ante. The kW GRR is even lower, with a value of only 15%, as ex-post coincidence factors are less than a third of ex-ante.

CFL Reflector – SDG&E

The kWh GRR for the Direct Installation segment is 62%. Its installation rate is 90%. Ex-post operating hours are about one third lower than ex-ante and ex-post wattages are in line with ex-ante. The kW GRR is somewhat higher, with a value of 67%, as ex-post coincidence factors are about a quarter lower than ex-ante.

The kWh GRR for the Deemed segment is 32%. Its installation rate is 87%. This low GRR is driven mostly by low ex-post wattages, which are only about a third of ex-ante. However, ex-post operating hours are about a quarter higher than ex-ante. The kW GRR is almost identical, with a value of 33%, as ex-post coincidence factors are also only about a third of ex-ante.

CFL Reflector – Statewide

At the statewide level for CFL Reflector measures, the kWh GRR is 58%. The overall installation rate is 88%. Ex-post operating hours are about a quarter lower than the ex-ante value. Delta watts are about 15% lower than ex-ante values. The kW GRR has a value of 52%, due to the ex-post coincidence factors being about a third lower than ex-ante.

HID – PG&E

The kWh GRR for the Deemed segment is 98%. Its installation rate is 98%. Both ex-post operating hours and delta wattages are similar to ex-ante. The kW GRR is slightly higher, with a value of 104%, due to ex-post coincidence factors that are about 10% higher than ex-ante.

The kWh GRR for the LGP/DI segment is 37%. This result is driven almost entirely by ex-post operating hours which are only about a third of the ex-ante value. The installation rate is 100% and ex-post delta wattages are slightly higher than ex-ante. The kW GRR is somewhat lower, with a value of 28%, due to ex-post coincidence factors that are about a quarter of ex-ante.

HID – SCE

The kWh GRR for the Deemed segment is 153%. Its installation rate is 98%. Both ex-post operating hours and delta wattages are about a quarter higher than ex-ante. The kW GRR is similar, with a value of 158%, with ex-post coincidence factors about 30% higher than ex-ante.

HID – SDG&E

The kWh GRR for the Deemed segment is 196%. Its installation rate is 100%. Ex-post delta wattages are in line with ex-ante, but ex-post operating hours are about twice as high as ex-ante. The kW GRR is 113%, as ex-post coincidence factors about just slightly higher than ex-ante.

HID – Statewide

At the statewide level for HID measures, the kWh GRR is 129%. The overall installation rate is 99%. Ex-post operating hours are about 30% higher than the ex-ante value. Delta watts are in line with ex-ante values. The kW GRR has a value of 108%, due to the ex-post coincidence factors being about 10% higher than ex-ante.

Linear Fluorescents – PG&E

The kWh GRR for the Custom segment is 85%. Its installation rate is 96%. Ex-post operating hours are in line with ex-ante, and delta wattages slightly lower than ex-ante. The kW GRR is lower, with a value of 59%, due to ex-post coincidence factors that are about a quarter lower than ex-ante.

The kWh GRR for the Deemed segment is 49%. Its installation rate is 94%. Both ex-post operating hours and delta watts are about 30% lower than ex-ante. The kW GRR is also 48%, due to ex-post coincidence factors that are about 30% lower than ex-ante.

The kWh GRR for the Third Party segment is 49%. Its installation rate is 85%. Ex-post operating hours are about 30% lower than ex-ante, and delta watts are about 20% lower. The kW GRR is also 59%, due to ex-post coincidence factors that are about 15% lower than ex-ante.

The kWh GRR for the LGP/DI segment is 33%. Its installation rate is 93%. Ex-post operating hours are about half that of ex-ante, and delta watts are about a quarter lower. The kW GRR is also 33%, due to ex-post coincidence factors that are about half of ex-ante.

Linear Fluorescents – SCE

The kWh GRR for the Custom segment is 90%. Its installation rate is 86%. Ex-post operating hours and delta wattages are in line with ex-ante. The kW GRR is much lower, with a value of 61%, due to ex-post coincidence factors that are about a third lower than ex-ante.

The kWh GRR for the Direct Installation segment is 28%. Its installation rate is 98%. Ex-post operating hours are about 25-30% lower than ex-ante, and delta wattages less than half that of ex-ante. The kW GRR is similar, with a value of 30%, due to ex-post coincidence factors that are about a quarter lower than ex-ante.

The kWh GRR for the Deemed segment is 133%. Its installation rate is 69%. However, ex-post operating hours are about a quarter higher than ex-ante, and delta wattages are almost 50% larger than ex-ante. The kW GRR is 92%, due to ex-post coincidence factors that are 15% lower than ex-ante.

The kWh GRR for the LGP segment is 59%. Its installation rate is 96%. Ex-post operating hours are about a quarter lower than ex-ante, and delta wattages are about 15% lower than ex-ante. The kW GRR is 49%, due to ex-post coincidence factors that are about 40% lower than ex-ante.

The kWh GRR for the Third Party segment is 58%. Its installation rate is 93%. Both ex-post operating hours delta wattages are about 20-25% lower than ex-ante. The kW GRR is 42%, due to ex-post coincidence factors that are about 40% lower than ex-ante.

Linear Fluorescents – SDG&E

The kWh GRR for the Direct Installation segment is 45%. Its installation rate is 93%. Ex-post operating hours are about 15% lower than ex-ante, and delta wattages about 40-45% lower than ex-ante. The kW GRR is similar, with a value of 47%, due to ex-post coincidence factors that are about 10% lower than ex-ante.

The kWh GRR for the Deemed segment is 57%. Its installation rate is 94%. Ex-post operating hours are about a quarter lower than ex-ante, and delta wattages about 20% lower than ex-ante. The kW GRR is 42%, due to ex-post coincidence factors that are 40% lower than ex-ante.

The kWh GRR for the 3P/LGP segment is 71%. Its installation rate is 78%. Ex-post operating hours are about 20% lower than ex-ante, and delta wattages are slightly higher than ex-ante. The kW GRR is higher, with a value of 85%, due to ex-post coincidence factors that are in line with ex-ante.

Linear Fluorescents – Statewide

At the statewide level for Linear Fluorescent measures, the kWh GRR is 63%. The overall installation rate is 92%. Ex-post operating hours are about 20-25% lower than the ex-ante value. Delta watts are about 10-15% lower than ex-ante values. The kW GRR has a value of 53%, due to the ex-post coincidence factors being about 35% lower than ex-ante.

Delamping – PG&E

The kWh GRR for the Deemed segment is 48%. Its installation rate is 64%. Ex-post operating hours and delta wattages are about 10% lower than ex-ante. The kW GRR is lower, with a value of 58%, due to ex-post coincidence factors that are about 10% lower than ex-ante.

The kWh GRR for the Third Party segment is 36%. Its installation rate is 83%. Both ex-post operating hours and delta wattages are about a third lower than ex-ante. The kW GRR is much higher, with a value of 68%, due to ex-post coincidence factors being about 15% higher than ex-ante.

The kWh GRR for the LGP/DI segment is 44%. Its installation rate is 89%. Ex-post operating hours are about half that of ex-ante. However, delta wattages are in line with ex-ante. The kW GRR is similar, with a value of 45%, due to ex-post coincidence factors also being about half that of ex-ante.

Delamping – SCE

The kWh GRR for the Direct Installation segment is 52%. Its installation rate is 94%. Both ex-post operating hours and delta wattages are about a quarter lower than ex-ante. The kW GRR is similar, with a value of 54%, due to ex-post coincidence factors that are also about a quarter lower than ex-ante.

The kWh GRR for the Deemed segment is 64%. Its installation rate is 92%. Both ex-post operating hours and delta wattages are about 15-20% lower than ex-ante. The kW GRR is 59%, due to ex-post coincidence factors that are about 20% lower than ex-ante.

The kWh GRR for the Third Party segment is 55%. Its installation rate is 94%. Ex-post operating hours are about 30% lower than ex-ante, and delta wattages are about 20% lower than ex-ante. The kW GRR is 44%, due to ex-post coincidence factors that are about 40% lower than ex-ante.

Delamping – SDG&E

The kWh GRR for the Deemed segment is 66%. Its installation rate is 86%. Ex-post operating hours are about a quarter lower than ex-ante, and delta wattages are about 15% higher than ex-ante. The kW GRR is 38%, due to ex-post coincidence factors that are less than half that of ex-ante.

Delamping – Statewide

At the statewide level for Delamping measures, the kWh GRR is 55%. The overall installation rate is 89%. Ex-post operating hours are about 25-30% lower than the ex-ante value. Delta watts are about 15-20% lower than ex-ante values. The kW GRR has a value of 53%, due to the ex-post coincidence factors also being about 25-30% lower than ex-ante.

High Bay Fluorescents – PG&E

The kWh GRR for the Deemed segment is 55%. Its installation rate is 94%. Ex-post operating hours are about 20% higher than ex-ante, and delta wattages are about half that of ex-ante. The kW GRR is lower, with a value of 45%, due to ex-post coincidence factors that slightly lower than ex-ante.

The kWh GRR for the Third Party segment is 59%. Its installation rate is 96%. Ex-post operating hours are slightly higher than ex-ante, and delta wattages are about 40% less than ex-ante. The kW GRR is lower, with a value of 42%, due to ex-post coincidence factors that are about a quarter lower than ex-ante.

The kWh GRR for the LGP/DI segment is 35%. Its installation rate is 98%. Ex-post operating hours are about 40% lower than ex-ante, and delta wattages are about a third less than ex-ante. The kW GRR is lower, with a value of 31%, due to ex-post coincidence factors that are about half that of ex-ante.

High Bay Fluorescents – SCE

The kWh GRR for the Direct Installation segment is 69%. Its installation rate is 100%. Ex-post operating hours are about a third lower than ex-ante, and delta wattages are in line with ex-ante. The kW GRR is also 69%, due to ex-post coincidence factors that are also about a third lower than ex-ante.

The kWh GRR for the Deemed segment is 63%. Its installation rate is 99%. Ex-post operating hours are about 15% lower than ex-ante, and delta wattages are about a quarter lower than ex-ante. The kW GRR is 58%, due to ex-post coincidence factors that are about a quarter lower than ex-ante.

High Bay Fluorescents – SDG&E

The kWh GRR for the Deemed segment is 41%. Its installation rate is 100%. Ex-post operating hours are about 20% lower than ex-ante, and delta wattages are just over half that of ex-ante. The kW GRR is 34%, due to ex-post coincidence factors that are about 30% lower than ex-ante.

High Bay Fluorescents – Statewide

At the statewide level for High Bay Fluorescents measures, the kWh GRR is 55%. The overall installation rate is 98%. Ex-post operating hours are about 10% lower than the ex-ante value. Delta watts are about 40% lower than ex-ante values. The kW GRR has a value of 47%, due to the ex-post coincidence factors being about 20% lower than ex-ante.

Occupancy Sensors – PG&E

The kWh GRR for the Deemed segment is 41%. Its installation rate is 95%. Both the reduction in ex-post operating hours and controlled wattage are about 35-40% lower than ex-ante. The kW GRR is 46%, due to the reduction in the ex-post coincidence factor being about 30% lower than ex-ante.

The kWh GRR for the Third Party segment is 51%. Its installation rate is 96%. Both the reduction in ex-post operating hours and controlled wattage are about a quarter lower than ex-ante. The kW GRR is 58%, due to the reduction in the ex-post coincidence factor being about 20% lower than ex-ante.

The kWh GRR for the LGP/DI segment is 106%. Its installation rate is 90%. The reduction in ex-post operating hours is about a third higher than ex-ante, and the controlled wattage is about 15% lower than ex-ante. The kW GRR is 165%, due to the reduction in the ex-post coincidence factor being about twice that of ex-ante.

Occupancy Sensors – SCE

The kWh GRR for the Direct Installation segment is 69%. Its installation rate is 94%. The reduction in ex-post operating hours is in line with ex-ante, but the controlled wattage is about 30% lower than ex-ante. The kW GRR is only 21%, due to the reduction in the ex-post coincidence factor being only about one third of ex-ante.

The kWh GRR for the Deemed segment is 55%. Its installation rate is 89%. The reduction in ex-post operating hours is about a quarter less than ex-ante, and the controlled wattage is about 15% lower than ex-ante. The kW GRR is only 27%, due to the reduction in the ex-post coincidence factor being only about one third of ex-ante.

Occupancy Sensors – SDG&E

The kWh GRR for the Deemed segment is 89%. Its installation rate is 93%. The reduction in ex-post operating hours is about 50% higher than ex-ante, but the controlled wattage is about one third lower than ex-ante. The kW GRR is 70%, due to the reduction in the ex-post coincidence factor being about 10% larger than ex-ante.

Occupancy Sensors – Statewide

At the statewide level for Occupancy Sensors measures, the kWh GRR is 57%. The overall installation rate is 92%. The reduction in ex-post operating hours is about 10-15% lower than ex-ante, and the controlled wattage is about 30% lower than ex-ante. The kW GRR is 40%, due to the reduction in the ex-post coincidence factor being about 40% lower than ex-ante.

Large Calculated – PG&E

The kWh GRR for the Large Calculated segment is 53%. Its installation rate is 93%. Ex-post operating hours are about 20% lower than ex-ante, and delta wattages are about 30% lower than ex-ante. The kW GRR is 44%, due to ex-post coincidence factors that are about a third lower than ex-ante.

Large Calculated – SCE

The kWh GRR for the Large Calculated segment is 46%. Its installation rate is 95%. Ex-post operating hours are about a third lower than ex-ante, and delta wattages are about a quarter lower than ex-ante. The kW GRR is 47%, due to ex-post coincidence factors that are also about a third lower than ex-ante.

Large Calculated – SDG&E

The kWh GRR for the Large Calculated segment is 43%. Its installation rate is 90%. Ex-post operating hours are about a third lower than ex-ante, and delta wattages are about a quarter lower than ex-ante. The kW GRR is 39%, due to ex-post coincidence factors that are about 40% lower than ex-ante.

Large Calculated – Statewide

At the statewide level for Large Calculated, the kWh GRR is 49%. Its installation rate is 93%. Ex-post operating hours are about 30% lower than ex-ante, and delta wattages are about a quarter lower than ex-ante. The kW GRR is 45%, due to ex-post coincidence factors that are about 35% lower than ex-ante.

Table G-153: Comparison of Ex-Ante and Ex-post parameters and resulting Gross Realization Rates for CFL Basic

IOU GPG	kWh GRR	kW GRR	Installation Rate	Operating Hours	Delta Watts	CF
PGE L3P	0.50	0.98	0.75	75% - 85%	75% - 85%	150% - 160%
PGE LGP	0.21	0.16	0.87	25% - 35%	90% - 100%	15% - 25%
SCE DI	0.29	0.32	0.63	45% - 55%	95% - 105%	45% - 55%
SDGE DI	0.99	0.92	0.94	45% - 55%	295% - 305%	40% - 50%
SDGE Deemed	0.48	0.38	0.94	70% - 80%	70% - 80%	55% - 65%
SDGE L3P	0.46	0.38	0.44	100% - 110%	100% - 110%	80% - 90%
Statewide Total	**0.38**	**0.49**	**0.77**	**45% - 55%**	**95% - 105%**	**60% - 70%**

Table G-154: Comparison of Ex-Ante and Ex-post parameters and resulting Gross Realization Rates for CFL Reflectors

IOU GPG	kWh GRR	kW GRR	Installation Rate	Operating Hours	Delta Watts	CF
PGE Deemed	1.66	1.52	0.88	150% - 160%	115% - 125%	150% - 160%
PGE LGP	0.84	0.75	0.78	70% - 80%	145% - 155%	60% - 70%
SCE DI	0.64	0.72	0.88	75% - 85%	85% - 95%	85% - 95%
SCE Deemed	0.24	0.15	0.95	35% - 45%	65% - 75%	30% - 40%
SDGE DI	0.62	0.67	0.9	60% - 70%	95% - 105%	70% - 80%
SDGE Deemed	0.32	0.33	0.87	25% - 35%	120% - 130%	30% - 40%
Statewide Total	**0.58**	**0.52**	**0.88**	**70% - 80%**	**80% - 90%**	**60% - 70%**

Table G-155: Comparison of Ex-Ante and Ex-post parameters and resulting Gross Realization Rates for High Bay

IOU GPG	kWh GRR	kW GRR	Installation Rate	Operating Hours	Delta Watts	CF
PGE Deemed	0.55	0.45	0.94	115% - 125%	45% - 55%	90% - 100%
PGE L3P	0.59	0.42	0.96	100% - 110%	55% - 65%	65% - 75%
PGE LGP	0.35	0.31	0.98	55% - 65%	60% - 70%	45% - 55%
SCE DI	0.69	0.69	1	60% - 70%	95% - 105%	60% - 70%
SCE Deemed	0.63	0.58	0.99	85% - 95%	70% - 80%	70% - 80%
SDGE Deemed	0.41	0.34	1	75% - 85%	50% - 60%	65% - 75%
Statewide Total	**0.55**	**0.47**	**0.98**	**85% - 95%**	**55% - 65%**	**75% - 85%**

Table G-156: Comparison of Ex-Ante and Ex-post parameters and resulting Gross Realization Rates for HID

IOU GPG	kWh GRR	kW GRR	Installation Rate	Operating Hours	Delta Watts	CF
PGE Deemed	0.95	1.04	0.98	95% - 105%	95% - 105%	105% - 115%
PGE LGP	0.37	0.28	1	30% - 40%	100% - 110%	20% - 30%
SCE Deemed	1.53	1.58	0.98	120% - 130%	120% - 130%	125% - 135%
SDGE Deemed	1.96	1.13	1	195% - 205%	95% - 105%	100% - 110%
Statewide Total	**1.29**	**1.08**	**0.99**	**125% - 135%**	**95% - 105%**	**105% - 115%**

Table G-157: Comparison of Ex-Ante and Ex-post parameters and resulting Gross Realization Rates for Linear Fluorescents

IOU GPG	kWh GRR	kW GRR	Installation Rate	Operating Hours	Delta Watts	CF
PGE Custom	0.85	0.59	0.96	95% - 105%	90% - 100%	75% - 85%
PGE Deemed	0.49	0.48	0.94	65% - 75%	65% - 75%	65% - 75%
PGE L3P	0.49	0.59	0.85	65% - 75%	75% - 85%	80% - 90%
PGE LGP	0.33	0.33	0.93	45% - 55%	70% - 80%	45% - 55%
SCE Custom	0.90	0.61	0.86	95% - 105%	95% - 105%	60% - 70%
SCE DI	0.28	0.30	0.98	70% - 75%	35% - 45%	75% - 85%
SCE Deemed	1.33	0.92	0.69	120% - 130%	145% - 155%	80% - 90%
SCE L3P	0.58	0.42	0.93	75% - 80%	75% - 80%	55% - 65%
SCE LGP	0.59	0.49	0.96	70% - 80%	80% - 90%	55% - 65%
SDGE DI	0.45	0.47	0.93	80% - 90%	55% - 60%	85% - 95%
SDGE Deemed	0.57	0.42	0.94	70% - 80%	75% - 85%	55% - 65%
SDGE L3P	0.71	0.85	0.78	75% - 85%	100% - 110%	95% - 105%
Statewide Total	**0.63**	**0.53**	**0.92**	**75% - 80%**	**85% - 90%**	**60% - 70%**

Table G-158: Comparison of Ex-Ante and Ex-post parameters and resulting Gross Realization Rates for Linear Fluorescent Delamping

IOU GPG	kWh GRR	kW GRR	Installation Rate	Operating Hours	Delta Watts	CF
PGE Deemed	0.48	0.58	0.64	85% - 95%	85% - 95%	85% - 95%
PGE L3P	0.36	0.68	0.83	60% - 70%	60% - 70%	115% - 125%
PGE LGP	0.44	0.45	0.89	45% - 55%	95% - 105%	45% - 55%
SCE DI	0.52	0.54	0.94	70% - 80%	70% - 80%	70% - 80%
SCE Deemed	0.64	0.59	0.92	80% - 85%	80% - 85%	75% - 85%
SCE L3P	0.55	0.44	0.94	65% - 75%	75% - 85%	55% - 65%
SDGE Deemed	0.66	0.38	0.86	70% - 80%	110% - 120%	50% - 60%
Statewide Total	**0.55**	**0.53**	**0.89**	**70% - 75%**	**80% - 85%**	**70% - 75%**

Table G-159: Comparison of Ex-Ante and Ex-post parameters and resulting Gross Realization Rates for Occupancy Sensors

IOU GPG	kWh GRR	kW GRR	Installation Rate	PTO	Installed Wattage	CF
PGE Deemed	0.41	0.46	0.95	60% - 65%	60% - 65%	65% - 75%
PGE L3P	0.52	0.58	0.96	70% - 80%	70% - 80%	75% - 85%
PGE LGP	1.06	1.65	0.9	130% - 140%	80% - 90%	195% - 205%
SCE DI	0.69	0.21	0.94	95% - 105%	65% - 75%	30% - 40%
SCE Deemed	0.55	0.27	0.89	70% - 80%	80% - 90%	30% - 40%
SDGE Deemed	0.89	0.70	0.93	145% - 155%	75% - 85%	105% - 115%
Statewide Total	**0.57**	**0.40**	**0.92**	**85% - 90%**	**65% - 75%**	**55% - 65%**

Table G-160: Comparison of Ex-Ante and Ex-post parameters and resulting Gross Realization Rates for Large Calculated Sites

IOU	kWh GRR	kW GRR	Installation Rate	Operating Hours	Delta Watts	CF
PG&E	0.53	0.44	0.93	75% - 85%	65% - 75%	60% - 70%
SCE	0.46	0.47	0.95	60% - 70%	70% - 80%	60% - 70%
SDG&E	0.43	0.39	0.9	60% - 70%	70% - 80%	55% - 65%
Statewide Total	**0.49**	**0.45**	**0.93**	**65% - 75%**	**70% - 80%**	**60% - 70%**

G.9.2 Lifecycle Gross Realization Rates

Because many measures have a dual baseline, the gross realization rates associated with the first year savings will differ from the gross realization rates associated with lifecycle savings. To estimate lifecycle savings, annual gross savings were estimated for each year though the measure's EUL and aggregated. No net present valuation was made, just a straight aggregation. For measures classified as ROB, the lifecycle savings will equal the first year savings times the EUL. For measures classified as ER, the lifecycle savings will equal the annual RUL period savings times the RUL plus the annual post-RUL savings times the EUL minus the RUL:

*ROB Lifecycle savings = EUL * First Year Savings*

*ER Lifecycle savings = RUL * RUL Period Savings + (EUL-RUL) * Post-RUL Savings*

Gross lifecycle realization rates can then be estimated by looking at the ratio of the evaluated gross lifecycle savings to the ex-ante gross lifecycle savings. Table G-161 and Table G-162 present the kWh and kW gross lifecycle realization rates, respectively, by HIM, IOU, and Gross Program Group. Again, Large Calculated sites are not included and are presented separately.

Table G-161: Gross Lifecycle kWh Realization Rates by HIM, IOU and Gross Program Group – Not Including Large Calculated

Gross Program Group	CFL Basic	CFL Reflector	High Bay	HID	Delamp	Linear	Occ Sensors	Total
PG&E Deemed		141%	56%	*277%*	66%	75%	41%	**60%**
PG&E Custom						54%		**54%**
PG&E 3P	78%		53%		31%	59%	52%	**52%**
PG&E LGP/DI	63%	131%	17%	36%	49%	33%	106%	**35%**
PG&E Total	**71%**	**138%**	**49%**	**48%**	**49%**	**45%**	**45%**	**48%**
SCE DI	75%	96%	54%		81%	45%	69%	**62%**
SCE Deemed		65%	80%	*712%*	155%	154%	55%	**131%**
SCE Custom						62%		**62%**
SCE 3P					113%	91%		**98%**
SCE LGP						100%		**100%**
SCE Total	**75%**	**71%**	**79%**	***712%***	**133%**	**85%**	**56%**	**111%**
SDGE DI	226%	116%				62%		**69%**
SDGE Deemed	64%	40%	20%	*40%*	60%	67%	47%	**38%**
SDGE 3P/LGP	52%					50%		**50%**
SDG&E Total	**126%**	**70%**	**20%**	***40%***	**60%**	**58%**	**47%**	**42%**
SW DI	**125%**	**101%**	**54%**		**81%**	**55%**	**69%**	**64%**
SW Deemed	**64%**	**76%**	**54%**	**266%**	**102%**	**94%**	**48%**	**79%**
SW Custom						**59%**		**59%**
SW 3P	**77%**		**53%**		**55%**	**59%**	**52%**	**57%**
SW LGP	**63%**	**131%**	**17%**	**36%**	**49%**	**35%**	**106%**	**35%**
Statewide Total	**78%**	**85%**	**52%**	**164%**	**80%**	**60%**	**49%**	**66%**

* Italics indicate segment level results that are supported by small sample sizes of six or less.

Table G-162: Gross Lifecycle kW Realization Rates by HIM, IOU and Gross Program Group – Not Including Large Calculated

Gross Program Group	CFL Basic	CFL Reflector	High Bay	HID	Delamp	Linear	Occ Sensors	Total
PG&E Deemed		134%	46%	*307%*	81%	74%	46%	**55%**
PG&E Custom						40%		**40%**
PG&E 3P	138%		37%		72%	67%	58%	**48%**
PG&E LGP/DI	49%	136%	16%	27%	51%	33%	165%	**33%**
PG&E Total	**87%**	**135%**	**38%**	**41%**	**63%**	**42%**	**51%**	**44%**
SCE DI	83%	108%	52%		85%	50%	21%	**56%**
SCE Deemed		28%	74%	*739%*	143%	110%	27%	**108%**
SCE Custom						46%		**46%**
SCE 3P					88%	66%		**73%**
SCE LGP						86%		**86%**
SCE Total	**83%**	**46%**	**73%**	***739%***	**121%**	**63%**	**27%**	**90%**
SDGE DI	216%	125%				65%		**71%**
SDGE Deemed	66%	42%	18%	*24%*	36%	52%	37%	**30%**
SDGE 3P/LGP	32%					65%		**64%**
SDG&E Total	**125%**	**79%**	**18%**	***24%***	**36%**	**59%**	**37%**	**38%**
SW DI	**128%**	**112%**	**52%**		**85%**	**59%**	**21%**	**61%**
SW Deemed	**66%**	**50%**	**48%**	**248%**	**93%**	**74%**	**34%**	**67%**
SW Custom						**44%**		**44%**
SW 3P	**133%**		**37%**		**81%**	**65%**	**58%**	**57%**
SW LGP	**49%**	**136%**	**16%**	**27%**	**51%**	**35%**	**165%**	**33%**
Statewide Total	**92%**	**69%**	**44%**	**142%**	**81%**	**54%**	**35%**	**58%**

* Italics indicate segment level results that are supported by small sample sizes of six or less.

Table G-163 and

Table G-164 present the kWh and kW gross lifecycle realization rates, respectively, by HIM, IOU, Gross Program Group and ER/ROB. Again, Large Calculated sites are not included.

Table G-163: Gross Lifecycle kWh Realization Rates by HIM, IOU, Gross Program Group, and ER versus ROB – Not Including Large Calculated

Gross Program Group	ER or ROB	CFL Basic	CFL Reflector	High Bay	HID	Delamp	Linear	Occ Sensors	Total
PG&E Deemed	ER			34%	*122%*	146%	114%		**48%**
	ROB		141%	70%	*279%*	48%	61%	41%	**64%**
PG&E Custom	ER						*16%*		***16%***
	ROB						75%		**75%**
PG&E 3P	ER			21%		28%	92%		**30%**
	ROB	78%		78%		*46%*	48%	52%	**68%**
PG&E LGP/DI	ER			13%	*5%*	53%	59%		**36%**
	ROB	63%	131%	30%	52%	41%	21%	106%	**33%**
PG&E Total	**ER**			**25%**	**5%**	**51%**	**55%**		**36%**
	ROB	**71%**	**138%**	**70%**	**69%**	**45%**	**40%**	**45%**	**55%**
SCE DI	ER			55%		76%	52%		**62%**
	ROB	75%	96%	*53%*		*113%*	37%	69%	**61%**
SCE Deemed	ER			36%		174%	195%		**101%**
	ROB		65%	92%	*712%*	140%	124%	55%	**139%**
SCE Custom	ER						*83%*		***83%***
	ROB						56%		**56%**
SCE 3P	ER					142%	79%		**109%**
	ROB					*46%*	98%		**89%**
SCE LGP	ER						58%		**58%**
	ROB						205%		**205%**
SCE Total	**ER**			**39%**		**137%**	**107%**		**91%**
	ROB	**75%**	**71%**	**91%**	***712%***	**127%**	**74%**	**56%**	**118%**
SDG&E DI	ER						71%		**71%**
	ROB	226%	116%				45%		**67%**
SDG&E Deemed	ER			15%	*40%*	61%	62%		**31%**
	ROB	64%	40%	*52%*	*49%*	51%	72%	47%	**55%**
SDG&E Custom	ER								
	ROB								
SDG&E 3P/LGP	ER						*53%*		***53%***
	ROB	52%					*37%*		**38%**
SDG&E Total	**ER**			**15%**	***40%***	**61%**	**58%**		**38%**
	ROB	**126%**	**70%**	***52%***	***49%***	**51%**	**57%**	**47%**	**54%**

Table G-163 (Cont'd): Gross Lifecycle kWh Realization Rates by HIM, IOU, Gross Program Group, and ER versus ROB – Not Including Large Calculated

Gross Program Group	ER or ROB	CFL Basic	CFL Reflector	High Bay	HID	Delamp	Linear	Occ Sensors	Total
Statewide DI	ER			55%		76%	64%		**66%**
	ROB	125%	101%	*53%*		*113%*	41%	69%	**63%**
Statewide Deemed	ER			24%	*40%*	111%	105%		**48%**
	ROB	64%	76%	81%	637%	92%	86%	48%	**100%**
Statewide Custom	ER						49%		**49%**
	ROB						63%		**63%**
Statewide 3P	ER			21%		57%	58%		**48%**
	ROB	77%		78%		46%	61%	52%	**67%**
Statewide LGP	ER			13%	*5%*	53%	59%		**37%**
	ROB	63%	131%	30%	52%	41%	23%	106%	**35%**
Statewide Total	**ER**			**23%**	**30%**	**81%**	**68%**		**47%**
	ROB	**78%**	**85%**	**79%**	**298%**	**77%**	**54%**	**49%**	**80%**

* Italics indicate segment level results that are supported by small sample sizes of six or less.

Table G-164: Gross Lifecycle kW Realization Rates by HIM, IOU, Gross Program Group, and ER versus ROB – Not Including Large Calculated

Gross Program Group	ER or ROB	CFL Basic	CFL Reflector	High Bay	HID	Delamp	Linear	Occ Sensors	Total
PG&E Deemed	ER			25%	*101%*	184%	106%		**40%**
	ROB		134%	63%	*309%*	51%	61%	46%	**64%**
PG&E Custom	ER						*13%*		***13%***
	ROB						63%		**63%**
PG&E 3P	ER			20%		66%	171%		**41%**
	ROB	138%		46%		*90%*	42%	58%	**52%**
PG&E LGP/DI	ER			10%	*3%*	52%	58%		**33%**
	ROB	49%	136%	30%	41%	50%	23%	165%	**32%**
PG&E Total	**ER**			**21%**	**3%**	**69%**	**53%**		**35%**
	ROB	**87%**	**135%**	**54%**	**62%**	**54%**	**37%**	**51%**	**50%**
SCE DI	ER			58%		85%	60%		**69%**
	ROB	83%	108%	*37%*		*89%*	38%	21%	**43%**
SCE Deemed	ER			36%		183%	145%		**91%**
	ROB		28%	85%	*739%*	112%	87%	27%	**112%**
SCE Custom	ER						*85%*		***85%***
	ROB						37%		**37%**
SCE 3P	ER					122%	77%		**100%**
	ROB					*16%*	61%		**53%**
SCE LGP	ER						53%		**53%**
	ROB						169%		**169%**
SCE Total	**ER**			**39%**		**139%**	**94%**		**86%**
	ROB	**83%**	**46%**	**84%**	***739%***	**97%**	**50%**	**27%**	**91%**
SDG&E DI	ER						69%		**69%**
	ROB	216%	125%				56%		**75%**
SDG&E Deemed	ER			12%	*23%*	35%	44%		**22%**
	ROB	66%	42%	*59%*	*64%*	47%	61%	37%	**50%**
SDG&E Custom	ER								
	ROB								
SDG&E 3P/LGP	ER						*67%*		***67%***
	ROB	32%					*49%*		**49%**
SDG&E Total	**ER**			**12%**	***23%***	**35%**	**60%**		**33%**
	ROB	**125%**	**79%**	***59%***	***64%***	**47%**	**58%**	**37%**	**52%**

Table G-164 (Cont'd): Gross Lifecycle kW Realization Rates by HIM, IOU, Gross Program Group, and ER versus ROB – Not Including Large Calculated

Gross Program Group	ER or ROB	CFL Basic	CFL Reflector	High Bay	HID	Delamp	Linear	Occ Sensors	Total
Statewide DI	ER			58%		85%	66%		**69%**
	ROB	128%	112%	*37%*		*89%*	46%	21%	**51%**
Statewide Deemed	ER			20%	*23%*	100%	78%		**39%**
	ROB	66%	50%	76%	649%	85%	70%	34%	**88%**
Statewide Custom	ER						44%		**44%**
	ROB						44%		**44%**
Statewide 3P	ER			20%		96%	73%		**62%**
	ROB	133%		46%		45%	52%	58%	**52%**
Statewide LGP	ER			10%	*3%*	52%	58%		**34%**
	ROB	49%	136%	30%	41%	50%	25%	165%	**33%**
Statewide Total	**ER**			**20%**	**16%**	**85%**	**66%**		**44%**
	ROB	**92%**	**69%**	**68%**	**274%**	**74%**	**45%**	**35%**	**68%**

* Italics indicate segment level results that are supported by small sample sizes of six or less.

Table G-165 through Table G-171 present separate results for each HIM, by IOU and Gross Program Group, which include the sample size, the kWh gross lifecycle realization rate, the relative precision for the kWh realization rate, the kW gross lifecycle realization rate, and the relative precision for the kW realization rate. Furthermore, the first year gross realization rates are also presented for kWh and kW so a comparison can be made between first year and lifecycle realization rates. Large Calculated sites are not included in these results.

Table G-165: Comparison of Gross First Year and Lifecycle kWh and kW Realization Rates for CFL Basic by IOU and Gross Program Group, with Relative Precisions – Not Including Large Calculated

Gross Program Group	n	Gross Realization Rates - kWh			Gross Realization Rates – kW		
		First Year	Lifecycle	RP - Lifecycle	First Year	Lifecycle	RP - Lifecycle
PG&E Deemed							
PG&E Custom							
PG&E 3P	32	50%	78%	29%	98%	138%	38%
PG&E LGP/DI	100	21%	63%	19%	16%	49%	20%
PG&E Total	**132**	**35%**	**71%**	**18%**	**49%**	**87%**	**27%**
SCE DI	79	29%	75%	32%	32%	83%	32%
SCE Deemed							
SCE Custom							
SCE 3P							
SCE LGP							
SCE Total	**79**	**29%**	**75%**	**32%**	**32%**	**83%**	**32%**
SDGE DI	33	99%	226%	21%	92%	216%	30%
SDGE Deemed	10	48%	64%	38%	38%	66%	56%
SDGE Custom							
SDGE 3P/LGP	14	46%	52%	66%	38%	32%	78%
SDG&E Total	**57**	**68%**	**126%**	**18%**	**61%**	**125%**	**26%**
SW DI	**112**	**54%**	**125%**	**18%**	**54%**	**128%**	**22%**
SW Deemed	**10**	**48%**	**64%**	**38%**	**38%**	**66%**	**56%**
SW Custom							
SW 3P	**46**	**50%**	**77%**	**28%**	**95%**	**133%**	**37%**
SW LGP	**100**	**21%**	**63%**	**19%**	**16%**	**49%**	**20%**
Statewide Total	**268**	**38%**	**78%**	**13%**	**49%**	**92%**	**20%**

Table G-166: Comparison of Gross First Year and Lifecycle kWh and kW Realization Rates for CFL Reflector by IOU and Gross Program Group, with Relative Precisions – Not Including Large Calculated

Gross Program Group	n	Gross Realization Rates - kWh			Gross Realization Rates – kW		
		First Year	Lifecycle	RP - Lifecycle	First Year	Lifecycle	RP - Lifecycle
PG&E Deemed	12	166%	141%	62%	152%	134%	49%
PG&E Custom							
PG&E 3P							
PG&E LGP/DI	28	84%	131%	23%	75%	136%	32%
PG&E Total	**40**	**132%**	**138%**	**41%**	**120%**	**135%**	**33%**
SCE DI	44	64%	96%	22%	72%	108%	21%
SCE Deemed	16	24%	65%	24%	15%	28%	127%
SCE Custom							
SCE 3P							
SCE LGP							
SCE Total	**60**	**32%**	**71%**	**18%**	**27%**	**46%**	**63%**
SDGE DI	25	62%	116%	14%	67%	125%	29%
SDGE Deemed	9	32%	40%	21%	33%	42%	21%
SDGE Custom							
SDGE 3P/LGP							
SDG&E Total	**34**	**44%**	**70%**	**12%**	**48%**	**79%**	**21%**
SW DI	**69**	**63%**	**101%**	**16%**	**70%**	**112%**	**17%**
SW Deemed	**37**	**53%**	**76%**	**26%**	**44%**	**50%**	**58%**
SW Custom							
SW 3P							
SW LGP	**28**	**84%**	**131%**	**23%**	**75%**	**136%**	**32%**
Statewide Total	**134**	**58%**	**85%**	**17%**	**52%**	**69%**	**31%**

Table G-167: Comparison of Gross First Year and Lifecycle kWh and kW Realization Rates for High Bay Lighting by IOU and Gross Program Group, with Relative Precisions – Not Including Large Calculated

Gross Program Group	n	Gross Realization Rates - kWh			Gross Realization Rates – kW		
		First Year	Lifecycle	RP - Lifecycle	First Year	Lifecycle	RP - Lifecycle
PG&E Deemed	45	55%	56%	17%	45%	46%	23%
PG&E Custom							
PG&E 3P	28	59%	53%	38%	42%	37%	32%
PG&E LGP/DI	23	35%	17%	25%	31%	16%	27%
PG&E Total	**96**	**54%**	**49%**	**16%**	**42%**	**38%**	**18%**
SCE DI	19	69%	54%	45%	69%	52%	54%
SCE Deemed	54	63%	80%	18%	58%	74%	21%
SCE Custom							
SCE 3P							
SCE LGP							
SCE Total	**73**	**63%**	**79%**	**18%**	**58%**	**73%**	**21%**
SDGE DI							
SDGE Deemed	24	41%	20%	49%	34%	18%	68%
SDGE Custom							
SDGE 3P/LGP							
SDG&E Total	**24**	**41%**	**20%**	**49%**	**34%**	**18%**	**68%**
SW DI	**19**	**69%**	**54%**	**45%**	**69%**	**52%**	**54%**
SW Deemed	**123**	**55%**	**54%**	**13%**	**48%**	**48%**	**16%**
SW Custom							
SW 3P	**28**	**59%**	**53%**	**38%**	**42%**	**37%**	**32%**
SW LGP	**23**	**35%**	**17%**	**25%**	**31%**	**16%**	**27%**
Statewide Total	**193**	**55%**	**52%**	**12%**	**47%**	**44%**	**14%**

Table G-168: Comparison of Gross First Year and Lifecycle kWh and kW Realization Rates for HID by IOU and Gross Program Group, with Relative Precisions – Not Including Large Calculated

Gross Program Group	n	Gross Realization Rates - kWh			Gross Realization Rates – kW		
		First Year	Lifecycle	RP - Lifecycle	First Year	Lifecycle	RP - Lifecycle
PG&E Deemed	5	95%	277%	36%	104%	307%	49%
PG&E Custom							
PG&E 3P							
PG&E LGP/DI	26	37%	36%	54%	28%	27%	57%
PG&E Total	**31**	**45%**	**48%**	**40%**	**39%**	**41%**	**40%**
SCE DI							
SCE Deemed	6	153%	712%	54%	158%	739%	47%
SCE Custom							
SCE 3P							
SCE LGP							
SCE Total	**6**	**153%**	**712%**	**54%**	**158%**	**739%**	**47%**
SDGE DI							
SDGE Deemed	3	196%	40%	1%	113%	24%	11%
SDGE Custom							
SDGE 3P/LGP							
SDG&E Total	**3**	**196%**	**40%**	**1%**	**113%**	**24%**	**11%**
SW DI							
SW Deemed	**14**	**162%**	**266%**	**46%**	**141%**	**248%**	**41%**
SW Custom							
SW 3P							
SW LGP	**26**	**37%**	**36%**	**54%**	**28%**	**27%**	**57%**
Statewide Total	**40**	**129%**	**164%**	**42%**	**108%**	**142%**	**38%**

Table G-169: Comparison of Gross First Year and Lifecycle kWh and kW Realization Rates for Delamping by IOU and Gross Program Group, with Relative Precisions – Not Including Large Calculated

Gross Program Group	n	Gross Realization Rates - kWh			Gross Realization Rates – kW		
		First Year	Lifecycle	RP - Lifecycle	First Year	Lifecycle	RP - Lifecycle
PG&E Deemed	33	48%	66%	48%	58%	81%	61%
PG&E Custom							
PG&E 3P	28	36%	31%	36%	68%	72%	45%
PG&E LGP/DI	54	44%	49%	27%	45%	51%	26%
PG&E Total	**115**	**43%**	**49%**	**23%**	**53%**	**63%**	**26%**
SCE DI	38	52%	81%	28%	54%	85%	30%
SCE Deemed	58	64%	155%	23%	59%	143%	30%
SCE Custom							
SCE 3P	23	55%	113%	32%	44%	88%	46%
SCE LGP							
SCE Total	**119**	**61%**	**133%**	**18%**	**56%**	**121%**	**23%**
SDGE DI							
SDGE Deemed	24	66%	60%	30%	38%	36%	21%
SDGE Custom							
SDGE 3P/LGP							
SDG&E Total	**24**	**66%**	**60%**	**30%**	**38%**	**36%**	**21%**
SW DI	**38**	**52%**	**81%**	**28%**	**54%**	**85%**	**30%**
SW Deemed	**115**	**61%**	**102%**	**18%**	**55%**	**93%**	**24%**
SW Custom							
SW 3P	**51**	**43%**	**55%**	**24%**	**53%**	**81%**	**33%**
SW LGP	**54**	**44%**	**49%**	**27%**	**45%**	**51%**	**26%**
Statewide Total	**258**	**55%**	**80%**	**13%**	**53%**	**81%**	**16%**

Table G-170: Comparison of Gross First Year and Lifecycle kWh and kW Realization Rates for Linear Fluorescent by IOU and Gross Program Group, with Relative Precisions – Not Including Large Calculated

Gross Program Group	n	Gross Realization Rates - kWh			Gross Realization Rates – kW		
		First Year	Lifecycle	RP - Lifecycle	First Year	Lifecycle	RP - Lifecycle
PG&E Deemed	76	49%	75%	33%	48%	74%	35%
PG&E Custom	14	85%	54%	59%	59%	40%	55%
PG&E 3P	44	49%	59%	74%	59%	67%	79%
PG&E LGP/DI	127	33%	33%	63%	33%	33%	55%
PG&E Total	**261**	**48%**	**45%**	**33%**	**43%**	**42%**	**31%**
SCE DI	240	28%	45%	14%	30%	50%	15%
SCE Deemed	114	133%	154%	60%	92%	110%	51%
SCE Custom	10	90%	62%	45%	61%	46%	63%
SCE 3P	73	58%	91%	19%	42%	66%	25%
SCE LGP	43	59%	100%	40%	49%	86%	39%
SCE Total	**480**	**86%**	**85%**	**29%**	**61%**	**63%**	**31%**
SDGE DI	134	45%	62%	21%	47%	65%	15%
SDGE Deemed	78	57%	67%	19%	42%	52%	24%
SDGE Custom							
SDGE 3P/LGP	7	71%	50%	33%	85%	65%	22%
SDG&E Total	**219**	**60%**	**58%**	**17%**	**57%**	**59%**	**13%**
SW DI	**374**	**37%**	**55%**	**14%**	**39%**	**59%**	**11%**
SW Deemed	**268**	**80%**	**94%**	**31%**	**60%**	**74%**	**25%**
SW Custom	**24**	**88%**	**59%**	**36%**	**60%**	**44%**	**46%**
SW 3P	**124**	**63%**	**59%**	**23%**	**66%**	**65%**	**19%**
SW LGP	**170**	**34%**	**35%**	**57%**	**34%**	**35%**	**51%**
Statewide Total	**960**	**63%**	**60%**	**16%**	**53%**	**54%**	**16%**

Table G-171: Comparison of Gross First Year and Lifecycle kWh and kW Realization Rates for Occupancy Sensors by IOU and Gross Program Group, with Relative Precisions – Not Including Large Calculated

Gross Program Group	n	Gross Realization Rates - kWh			Gross Realization Rates – kW		
		First Year	Lifecycle	RP - Lifecycle	First Year	Lifecycle	RP - Lifecycle
PG&E Deemed	52	41%	41%	42%	46%	46%	46%
PG&E Custom							
PG&E 3P	16	52%	52%	58%	58%	58%	73%
PG&E LGP/DI	30	106%	106%	65%	165%	165%	64%
PG&E Total	**98**	**45%**	**45%**	**33%**	**51%**	**51%**	**37%**
SCE DI	84	69%	69%	38%	21%	21%	45%
SCE Deemed	61	55%	55%	31%	27%	27%	52%
SCE Custom							
SCE 3P							
SCE LGP							
SCE Total	**145**	**56%**	**56%**	**28%**	**27%**	**27%**	**48%**
SDGE DI							
SDGE Deemed	41	89%	47%	22%	70%	37%	21%
SDGE Custom							
SDGE 3P/LGP							
SDG&E Total	**41**	**89%**	**47%**	**22%**	**70%**	**37%**	**21%**
SW DI	**84**	**69%**	**69%**	**38%**	**21%**	**21%**	**45%**
SW Deemed	**154**	**56%**	**48%**	**18%**	**39%**	**34%**	**26%**
SW Custom							
SW 3P	**16**	**52%**	**52%**	**58%**	**58%**	**58%**	**73%**
SW LGP	**30**	**106%**	**106%**	**65%**	**165%**	**165%**	**64%**
Statewide Total	**284**	**57%**	**49%**	**17%**	**40%**	**35%**	**24%**

Table G-172 presents the sample size, the kWh realization rate, the relative precision for the kWh realization rate, the kW realization rate, and the relative precision for the kW realization rate for each IOU for the Large Calculated sites. Furthermore, the first year gross realization rates are also presented for kWh and kW so a comparison can be made between first year and lifecycle realization rates.

Table G-172: Comparison of Gross First Year and Lifecycle kWh and kW Realization Rates for Large Calculated Sites by IOU with Relative Precisions

IOU	n	Gross Realization Rates - kWh			Gross Realization Rates - kW		
		First Year	Lifecycle	RP - Lifecycle	First Year	Lifecycle	RP - Lifecycle
PG&E	46	53%	39%	35%	44%	34%	51%
SCE	15	46%	28%	37%	47%	39%	28%
SDG&E	5	43%	26%	39%	39%	26%	67%
Statewide	**66**	**49%**	**32%**	**25%**	**45%**	**35%**	**28%**

There are a few reasons why first year and lifecycle GRRs may differ. First of all, the ex-post and ex-ante EULs may be different. Generally, this is due to differences in the operating hours. When ex-post operating hours are lower than ex-ante (as is typically the case), the EUL will generally increase, particularly for CFL measures. This explains why we see the lifecycle GRRs for CFL basic measures being roughly twice as large as the first year GRRs (recall from above that the ex-post operating hours were about half that of ex-ante). Also, the lifecycle GRRs for CFL reflector measures are about a third to a half larger as the first year GRRs, as operating hours tend to be a quarter to a third lower.

However, occupancy sensors have a fixed EUL of 8 years and are not affected by the hours of operation of the lighting equipment they control. This is why the lifecycle and first year GRRs are identical in all cases but SDG&E Deemed. The lower lifecycle GRRs for SDG&E Deemed are due to the ex-ante EUL estimate being 15 years, instead of 8 (which explains why the lifecycle GRR is just over half that of the first year).

For linear fluorescent, delamping and high bay measures, the EUL will often times max out at 15 years, so lower operating hours will not increase the EUL beyond its 15 year maximum. However, another factor that affects the lifecycle GRRs for these measures is the dual baseline. For measures with a dual baseline, the post-RUL impacts are typically much lower than the impact during the RUL period. Therefore, if the ex-post RUL is less than the ex-ante RUL, then the lifecycle GRRs will also decrease relative to the first year GRR. Also, if the percentage of installations being classified as ER is higher for ex-post than ex-ante, the lifecycle GRR will again decrease relative to the first year GRR (because a customer classified as ER will typically exhibit a large decrease in impact after the RUL period, whereas a customer classified as ROB will have a constant impact over the entire EUL period). Finally, when both the ex-post and ex-ante classify an installation as ER, the relative differences in post-RUL wattage between ex-post and ex-ante can cause the lifecycle GRR to increase or decrease relative to the first year.

For linear fluorescents and high bay lighting, the first year and lifecycle GRRs are relatively similar overall, but can vary more significantly at the segment level. Overall, many of the above factors cancel each other out, but at the segment level any combination of effects may drive the lifecycle GRR up or down relative to the first year GRR. However, the lifecycle GRRs for delamping tend to be higher than first year, due to a couple of factors. First, the ex-post EULs are slightly larger than ex-ante, overall. Second, the post-RUL ex-post delta wattage is larger than ex-ante, overall.

Finally, the HID measures are also affected by the dual baseline. For these measures overall, the average ex-post EUL is more than 50% larger than the ex-ante value, and is the primary reason for higher lifecycle GRRs relative to first year. The fact that about a quarter of these installations are classified as ER is causing the lifecycle GRR to decrease relative to the first year, which is why the lifecycle GRRs are only 25-30% larger than first year GRRs, overall, and not 50% larger.

G.9.3 Net First Year Realization Rates

The gross realization rates presented above were based on the on-site sample, however NTGRs were developed for the larger participant phone survey sample. Net realization rates (NRR) are calculated as the ratio of the evaluated ex-post net savings to the ex-ante net savings. Ex-post net savings are calculated by first multiplying the segment-specific NTGR by the ex-post gross savings for each participant in the on-site sample. The segment-specific NTGR corresponds to the Net Program Group under which the customer participated. Net ex-post and net ex-ante savings are then aggregated across all participants within a HIM-IOU-Gross Program Group segment, only for participants in the on-site sample. The NRR for a given HIM-IOU-Gross Program Group segment is the ratio of the total net ex-post savings divided by the total net ex-ante savings for that segment.

For customer i in the on-site sample, in Net Program Group segment j, the net ex-post savings is estimated as:

$$Net_Ex_Post_Impact_{i,j} = NTGR_j \times Gross_Ex_Post_Impact_{i,j}$$

Where,

> $NTGR_j$ is the segment-specific NTGR for Net Program Group segment j.
>
> $Gross_Ex_Post_Impact_{i,j}$ is the site-specific gross ex-post impact estimate for customer i in the on-site sample, who is in Net Program Group segment j.

Then, the NRR for HIM-IOU-Gross Program Group segment k is estimated as:

$$Net_Realization_Rate_k = \frac{\sum_{i=1}^{n} Net_Ex_Post_Impact_{i,k}}{\sum_{i=1}^{n} Net_Ex_Ante_Impact_{i,k}}$$

Where,

> $Net_Ex_Post_Impact_{i,k}$ is the site-specific net ex-post impact estimate for customer i, in the on-site sample, who is in HIM-IOU-Gross Program Group segment k.
>
> $Net_Ex_Ante_Impact_{i,k}$ is the site-specific net ex-ante impact estimate for customer i, in the on-site sample, who is in HIM-IOU-Gross Program Group segment k.

Net realization rates are calculated separately for kWh and kW. For developing ex-post net savings values, NTGRs are applied by Net Program Group. Table G-173 compares the ex-ante and ex-post NTGRs by Net Program Group. Overall, at the statewide and IOU levels, the ex-post NTGRs are about 20% less than the ex-ante values. Appendix H provides a detailed description of how the NTGR values are developed.

Table G-173: Comparison of Ex-ante and Ex-post NTGRs by Net Program Group, Weighted by kWh and kW Savings

Net Program Group	N	Ex-Ante NTGR kWh	Ex-Post NTGR kWh	Ex-Ante NTGR kW	Ex-Post NTGR kW
PG&E					
PGE Core/SW Custom	45	0.71	0.48	0.70	0.44
PGE Deemed Ag	19	0.80	0.59	0.80	0.60
PGE Deemed Com	189	0.79	0.62	0.79	0.62
PGE Deemed Ind	50	0.78	0.51	0.79	0.52
PGE LGP East Bay	140	0.70	0.65	0.70	0.65
PGE LGP LGEAR	44	0.73	0.58	0.74	0.58
PGE LGP Marin	39	0.70	0.60	0.70	0.60
PGE LGP Redwood	40	0.70	0.64	0.70	0.65
PGE LGP SF	100	0.70	0.57	0.70	0.55
PGE 3P Other	135	0.78	0.61	0.78	0.59
PGE Energy Fitness	58	0.77	0.64	0.77	0.64
PGE RightLights	156	0.78	0.63	0.78	0.63
PGE SW Partnership	5	0.64	0.54	0.64	0.52
PGE DI Ecology	57	0.79	0.57	0.78	0.56
PGE DI RHA	63	0.78	0.70	0.78	0.70
PGE DI Staples	60	0.70	0.61	0.70	0.61
PGE DI Staples and RHA	18	0.71	0.68	0.70	0.67
PGE DI Synergy	35	0.70	0.64	0.70	0.65
PGE DI TEAA	42	0.79	0.55	0.79	0.54
PG&E Total	**1,295**	**0.76**	**0.60**	**0.76**	**0.60**
SCE					
SCE Core/ SW Custom	55	0.66	0.50	0.66	0.53
SCE Deemed Ag	28	0.79	0.63	0.78	0.64
SCE Deemed Com	136	0.79	0.60	0.79	0.61
SCE Deemed Ind	136	0.79	0.63	0.78	0.63
SCE Direct Install	194	0.85	0.69	0.85	0.70
SCE LGP ELP	63	0.77	0.53	0.80	0.47
SCE LGP Institutional	18	0.69	0.62	0.69	0.63
SCE 3P	56	0.73	0.52	0.77	0.58
SCE 3P Mgmt Affiliates	11	0.80	0.57	0.82	0.55
SCE 3P Preschool	46	0.85	0.69	0.85	0.69
SCE 3P Schools	12	0.85	0.66	0.85	0.53
SCE Total	**755**	**0.79**	**0.61**	**0.80**	**0.62**
SDG&E					
SDGE Core/ SW Custom	13	0.67	0.61	0.68	0.57
SDGE BID	41	0.64	0.57	0.64	0.60
SDGE Deemed COM	113	0.79	0.55	0.79	0.55
SDGE Deemed IND AG	27	0.79	0.59	0.79	0.60
SDGE Direct Install	132	0.82	0.64	0.82	0.64
SDGE MEC	67	0.85	0.62	0.85	0.62
SDGE Total	**393**	**0.75**	**0.58**	**0.75**	**0.59**
Grand Total	**2,443**	**0.78**	**0.61**	**0.78**	**0.61**

Table G-174 and Table G-175 present the kWh and kW net realization rates, respectively, by HIM, IOU and Gross Program Group. Again, Large Calculated sites are not included in these results, but are presented separately below.

Table G-174: Net kWh Realization Rates by HIM, IOU and Gross Program Group – Not Including Large Calculated

Gross Program Group	CFL Basic	CFL Reflector	High Bay	HID	Delamp	Linear	Occ Sensors	Total
PG&E Deemed		127%	41%	*77%*	37%	38%	29%	**42%**
PG&E Custom						58%		**58%**
PG&E 3P	38%		47%		28%	39%	38%	**41%**
PG&E LGP/DI	17%	75%	30%	34%	38%	28%	85%	**31%**
PG&E Total	**28%**	**107%**	**42%**	**40%**	**35%**	**36%**	**32%**	**39%**
SCE DI	24%	52%	56%		42%	23%	56%	**38%**
SCE Deemed		18%	50%	*119%*	51%	103%	40%	**60%**
SCE Custom						70%		**70%**
SCE 3P					42%	41%		**41%**
SCE LGP						40%		**40%**
SCE Total	**24%**	**25%**	**50%**	***119%***	**48%**	**65%**	**41%**	**57%**
SDGE DI	74%	47%				36%		**41%**
SDGE Deemed	33%	22%	29%	*139%*	46%	41%	58%	**49%**
SDGE 3P/LGP	33%					64%		**63%**
SDG&E Total	**49%**	**32%**	**29%**	***139%***	**46%**	**48%**	**58%**	**50%**
SW DI	**42%**	**50%**	**56%**		**42%**	**30%**	**56%**	**39%**
SW Deemed	**33%**	**40%**	**42%**	**122%**	**47%**	**61%**	**40%**	**52%**
SW Custom						**65%**		**65%**
SW 3P	**38%**		**47%**		**34%**	**51%**	**38%**	**45%**
SW LGP	**17%**	**75%**	**30%**	**34%**	**38%**	**28%**	**85%**	**31%**
Statewide Total	**30%**	**45%**	**42%**	**101%**	**43%**	**49%**	**41%**	**48%**

* Italics indicate segment level results that are supported by small sample sizes of six or less.

Table G-175: Net kW Realization Rates by HIM, IOU and Gross Program Group – Not Including Large Calculated

Gross Program Group	CFL Basic	CFL Reflector	High Bay	HID	Delamp	Linear	Occ Sensors	Total
PG&E Deemed		115%	34%	*83%*	44%	37%	33%	**38%**
PG&E Custom						38%		**38%**
PG&E 3P	71%		32%		52%	45%	41%	**41%**
PG&E LGP/DI	13%	68%	26%	25%	39%	28%	133%	**29%**
PG&E Total	**38%**	**97%**	**33%**	**34%**	**42%**	**33%**	**36%**	**36%**
SCE DI	26%	59%	56%		44%	25%	17%	**35%**
SCE Deemed		11%	46%	*125%*	47%	72%	20%	**50%**
SCE Custom						50%		**50%**
SCE 3P					33%	31%		**32%**
SCE LGP						31%		**31%**
SCE Total	**26%**	**22%**	**46%**	***125%***	**44%**	**48%**	**20%**	**47%**
SDGE DI	69%	50%				37%		**41%**
SDGE Deemed	25%	22%	24%	*80%*	27%	30%	46%	**35%**
SDGE 3P/LGP	28%					80%		**78%**
SDG&E Total	**44%**	**35%**	**24%**	***80%***	**27%**	**46%**	**46%**	**40%**
SW DI	**42%**	**56%**	**56%**		**44%**	**32%**	**17%**	**37%**
SW Deemed	**25%**	**33%**	**37%**	**109%**	**43%**	**46%**	**28%**	**43%**
SW Custom						**46%**		**46%**
SW 3P	**69%**		**32%**		**40%**	**54%**	**41%**	**45%**
SW LGP	**13%**	**68%**	**26%**	**25%**	**39%**	**28%**	**133%**	**29%**
Statewide Total	**37%**	**41%**	**36%**	**86%**	**42%**	**41%**	**28%**	**41%**

* Italics indicate segment level results that are supported by small sample sizes of six or less.

Table G-176 and Table G-177 present the kWh and kW NRRs, respectively, by HIM, IOU, Gross Program Group and ER/ROB. Large Calculated sites are not included in these results.

Table G-176: Net kWh Realization Rates by HIM, IOU, Gross Program Group, and ER versus ROB – Not Including Large Calculated

Gross Program Group	ER or ROB	CFL Basic	CFL Reflector	High Bay	HID	Delamp	Linear	Occ Sensors	Total
PG&E Deemed	ER			49%	*90%*	81%	61%		**52%**
	ROB		127%	36%	*77%*	27%	28%	29%	**38%**
PG&E Custom	ER						*14%*		***14%***
	ROB						80%		**80%**
PG&E 3P	ER			35%		26%	82%		**37%**
	ROB	38%		56%		*34%*	26%	38%	**43%**
PG&E LGP/DI	ER			31%	*7%*	44%	52%		**39%**
	ROB	17%	75%	27%	47%	27%	16%	85%	**26%**
PG&E Total	**ER**			**42%**	**8%**	**41%**	**49%**		**42%**
	ROB	**28%**	**107%**	**41%**	**53%**	**28%**	**31%**	**32%**	**38%**
SCE DI	ER			68%		38%	27%		**40%**
	ROB	24%	52%	*28%*		*76%*	17%	56%	**37%**
SCE Deemed	ER			50%		63%	119%		**68%**
	ROB		18%	49%	*119%*	41%	89%	40%	**58%**
SCE Custom	ER						*83%*		***83%***
	ROB						67%		**67%**
SCE 3P	ER					49%	48%		**49%**
	ROB					*21%*	38%		**35%**
SCE LGP	ER						22%		**22%**
	ROB						85%		**85%**
SCE Total	**ER**			**53%**		**54%**	**72%**		**60%**
	ROB	**24%**	**25%**	**49%**	***119%***	**40%**	**60%**	**41%**	**56%**
SDG&E DI	ER						45%		**45%**
	ROB	74%	47%				19%		**37%**
SDG&E Deemed	ER			29%	*142%*	48%	39%		**51%**
	ROB	33%	22%	*33%*	*35%*	30%	44%	58%	**45%**
SDG&E Custom	ER								
	ROB								
SDG&E 3P/LGP	ER						*67%*		***67%***
	ROB	33%					*49%*		**47%**
SDG&E Total	**ER**			**29%**	***142%***	**48%**	**52%**		**53%**
	ROB	**49%**	**32%**	***33%***	***35%***	**30%**	**39%**	**58%**	**44%**

Table G-168 (Cont'd): Net kWh Realization Rates by HIM, IOU, Gross Program Group, and ER versus ROB – Not Including Large Calculated

Gross Program Group	ER or ROB	CFL Basic	CFL Reflector	High Bay	HID	Delamp	Linear	Occ Sensors	Total
Statewide DI	ER			68%		38%	37%		**42%**
	ROB	42%	50%	*28%*		*76%*	18%	56%	**37%**
Statewide Deemed	ER			40%	*142%*	60%	68%		**56%**
	ROB	33%	40%	44%	115%	36%	54%	40%	**50%**
Statewide Custom	ER						48%		**48%**
	ROB						72%		**72%**
Statewide 3P	ER			35%		35%	65%		**49%**
	ROB	38%		56%		28%	35%	38%	**42%**
Statewide LGP	ER			31%	*7%*	44%	49%		**39%**
	ROB	17%	75%	27%	47%	27%	17%	85%	**27%**
Statewide Total	**ER**			**40%**	**104%**	**49%**	**57%**		**51%**
	ROB	**30%**	**45%**	**45%**	**100%**	**35%**	**42%**	**41%**	**47%**

* Italics indicate segment level results that are supported by small sample sizes of six or less.

Table G-177: Net kW Realization Rates by HIM, IOU, Gross Program Group, and ER versus ROB – Not Including Large Calculated

Gross Program Group	ER or ROB	CFL Basic	CFL Reflector	High Bay	HID	Delamp	Linear	Occ Sensors	Total
PG&E Deemed	ER			36%	*74%*	98%	57%		**41%**
	ROB		115%	32%	*84%*	28%	28%	33%	**37%**
PG&E Custom	ER						*10%*		***10%***
	ROB						59%		**59%**
PG&E 3P	ER			35%		50%	154%		**47%**
	ROB	71%		31%		*58%*	23%	41%	**39%**
PG&E LGP/DI	ER			26%	*5%*	41%	50%		**35%**
	ROB	13%	68%	27%	37%	33%	17%	133%	**25%**
PG&E Total	**ER**			**34%**	**5%**	**51%**	**47%**		**38%**
	ROB	**38%**	**97%**	**32%**	**46%**	**33%**	**26%**	**36%**	**34%**
SCE DI	ER			72%		42%	31%		**44%**
	ROB	26%	59%	*20%*		*55%*	17%	17%	**28%**
SCE Deemed	ER			51%		66%	89%		**63%**
	ROB		11%	45%	*125%*	33%	59%	20%	**47%**
SCE Custom	ER						*88%*		***88%***
	ROB						41%		**41%**
SCE 3P	ER					43%	49%		**45%**
	ROB					*6%*	25%		**22%**
SCE LGP	ER						18%		**18%**
	ROB						65%		**65%**
SCE Total	**ER**			**54%**		**55%**	**63%**		**57%**
	ROB	**26%**	**22%**	**44%**	***125%***	**31%**	**39%**	**20%**	**44%**
SDG&E DI	ER						43%		**43%**
	ROB	69%	50%				25%		**39%**
SDG&E Deemed	ER			22%	*81%*	27%	26%		**33%**
	ROB	25%	22%	*37%*	*47%*	28%	36%	46%	**38%**
SDG&E Custom	ER								
	ROB								
SDG&E 3P/LGP	ER						*82%*		***82%***
	ROB	28%					*61%*		**56%**
SDG&E Total	**ER**			**22%**	***81%***	**27%**	**50%**		**41%**
	ROB	**44%**	**35%**	***37%***	***47%***	**28%**	**36%**	**46%**	**40%**

Table G-169 (Cont'd): Net kW Realization Rates by HIM, IOU, Gross Program Group, and ER versus ROB – Not Including Large Calculated

Gross Program Group	ER or ROB	CFL Basic	CFL Reflector	High Bay	HID	Delamp	Linear	Occ Sensors	Total
Statewide DI	ER			72%		42%	38%		**44%**
	ROB	42%	56%	*20%*		*55%*	20%	17%	**31%**
Statewide Deemed	ER			33%	*81%*	55%	50%		**43%**
	ROB	25%	33%	40%	120%	31%	42%	28%	**43%**
Statewide Custom	ER						43%		**43%**
	ROB						46%		**46%**
Statewide 3P	ER			35%		45%	80%		**58%**
	ROB	69%		31%		25%	28%	41%	**35%**
Statewide LGP	ER			26%	*5%*	41%	46%		**34%**
	ROB	13%	68%	27%	37%	33%	18%	133%	**25%**
Statewide Total	**ER**			**34%**	**57%**	**49%**	**53%**		**44%**
	ROB	**37%**	**41%**	**38%**	**99%**	**32%**	**33%**	**28%**	**40%**

* Italics indicate segment level results that are supported by small sample sizes of six or less.

Table G-178 through Table G-184 present separate results for each HIM, by IOU and Gross Program Group, which include the sample size, the kWh NRRs, the relative precision for the kWh NRRs, the kW NRRs, and the relative precision for the kW NRR. Large Calculated sites are not included in these results.

Table G-178: Net kWh and kW Realization Rates for CFL Basic by IOU and Gross Program Group, with Relative Precisions – Not Including Large Calculated

Gross Program Group	n	NRR kWh	Relative Precision	NRR kW	Relative Precision
PG&E Deemed					
PG&E Custom					
PG&E 3P	32	38%	37%	71%	40%
PG&E LGP/DI	100	17%	38%	13%	33%
PG&E Total	**132**	**28%**	**28%**	**38%**	**33%**
SCE DI	79	24%	35%	26%	38%
SCE Deemed					
SCE Custom					
SCE 3P					
SCE LGP					
SCE Total	**79**	**24%**	**35%**	**26%**	**38%**
SDGE DI	33	74%	17%	69%	24%
SDGE Deemed	10	33%	60%	25%	75%
SDGE Custom					
SDGE 3P/LGP	14	33%	78%	28%	85%
SDG&E Total	**57**	**49%**	**22%**	**44%**	**26%**
SW DI	**112**	**42%**	**17%**	**42%**	**21%**
SW Deemed	**10**	**33%**	**60%**	**25%**	**75%**
SW Custom					
SW 3P	**46**	**38%**	**35%**	**69%**	**39%**
SW LGP	**100**	**17%**	**38%**	**13%**	**33%**
Statewide Total	**268**	**30%**	**20%**	**37%**	**25%**

Table G-179: Net kWh and kW Realization Rates for CFL Reflector by IOU and Gross Program Group, with Relative Precisions – Not Including Large Calculated

Gross Program Group	n	NRR kWh	Relative Precision	NRR kW	Relative Precision
PG&E Deemed	12	127%	72%	115%	50%
PG&E Custom					
PG&E 3P					
PG&E LGP/DI	28	75%	26%	68%	39%
PG&E Total	**40**	**107%**	**54%**	**97%**	**39%**
SCE DI	44	52%	32%	59%	30%
SCE Deemed	16	18%	83%	11%	137%
SCE Custom					
SCE 3P					
SCE LGP					
SCE Total	**60**	**25%**	**48%**	**22%**	**58%**
SDGE DI	25	47%	23%	50%	26%
SDGE Deemed	9	22%	44%	22%	42%
SDGE Custom					
SDGE 3P/LGP					
SDG&E Total	**34**	**32%**	**22%**	**35%**	**22%**
SW DI	**69**	**50%**	**25%**	**56%**	**23%**
SW Deemed	**37**	**40%**	**52%**	**33%**	**48%**
SW Custom					
SW 3P					
SW LGP	**28**	**75%**	**26%**	**68%**	**39%**
Statewide Total	**134**	**45%**	**34%**	**41%**	**29%**

Table G-180: Net kWh and kW Realization Rates for High Bay Lighting by IOU and Gross Program Group, with Relative Precisions – Not Including Large Calculated

Gross Program Group	n	NRR kWh	Relative Precision	NRR kW	Relative Precision
PG&E Deemed	45	41%	13%	34%	16%
PG&E Custom					
PG&E 3P	28	47%	44%	32%	38%
PG&E LGP/DI	23	30%	25%	26%	22%
PG&E Total	**96**	**42%**	**16%**	**33%**	**15%**
SCE DI	19	56%	47%	56%	57%
SCE Deemed	54	50%	20%	46%	15%
SCE Custom					
SCE 3P					
SCE LGP					
SCE Total	**73**	**50%**	**19%**	**46%**	**14%**
SDGE DI					
SDGE Deemed	24	29%	26%	24%	44%
SDGE Custom					
SDGE 3P/LGP					
SDG&E Total	**24**	**29%**	**26%**	**24%**	**44%**
SW DI	**19**	**56%**	**47%**	**56%**	**57%**
SW Deemed	**123**	**42%**	**12%**	**37%**	**11%**
SW Custom					
SW 3P	**28**	**47%**	**44%**	**32%**	**38%**
SW LGP	**23**	**30%**	**25%**	**26%**	**22%**
Statewide Total	**193**	**42%**	**11%**	**36%**	**10%**

Table G-181: Net kWh and kW Realization Rates for HID by IOU and Gross Program Group, with Relative Precisions – Not Including Large Calculated

Gross Program Group	n	NRR kWh	Relative Precision	NRR kW	Relative Precision
PG&E Deemed	5	77%	26%	83%	11%
PG&E Custom					
PG&E 3P					
PG&E LGP/DI	26	34%	51%	25%	53%
PG&E Total	**31**	**40%**	**38%**	**34%**	**35%**
SCE DI					
SCE Deemed	6	119%	55%	125%	48%
SCE Custom					
SCE 3P					
SCE LGP					
SCE Total	**6**	**119%**	**55%**	**125%**	**48%**
SDGE DI					
SDGE Deemed	3	139%	5%	80%	3%
SDGE Custom					
SDGE 3P/LGP					
SDG&E Total	**3**	**139%**	**5%**	**80%**	**3%**
SW DI					
SW Deemed	**14**	**122%**	**36%**	**109%**	**35%**
SW Custom					
SW 3P					
SW LGP	**26**	**34%**	**51%**	**25%**	**53%**
Statewide Total	**40**	**101%**	**33%**	**86%**	**33%**

Table G-182: Net kWh and kW Realization Rates for Delamping by IOU and Gross Program Group, with Relative Precisions – Not Including Large Calculated

Gross Program Group	n	NRR kWh	Relative Precision	NRR kW	Relative Precision
PG&E Deemed	33	37%	45%	44%	56%
PG&E Custom					
PG&E 3P	28	28%	28%	52%	44%
PG&E LGP/DI	54	38%	26%	39%	23%
PG&E Total	**115**	**35%**	**20%**	**42%**	**23%**
SCE DI	38	42%	32%	44%	30%
SCE Deemed	58	51%	23%	47%	31%
SCE Custom					
SCE 3P	23	42%	25%	33%	37%
SCE LGP					
SCE Total	**119**	**48%**	**18%**	**44%**	**23%**
SDGE DI					
SDGE Deemed	24	46%	51%	27%	41%
SDGE Custom					
SDGE 3P/LGP					
SDG&E Total	**24**	**46%**	**51%**	**27%**	**41%**
SW DI	**38**	**42%**	**32%**	**44%**	**30%**
SW Deemed	**115**	**47%**	**19%**	**43%**	**25%**
SW Custom					
SW 3P	**51**	**34%**	**19%**	**40%**	**29%**
SW LGP	**54**	**38%**	**26%**	**39%**	**23%**
Statewide Total	**258**	**43%**	**13%**	**42%**	**16%**

Table G-183: Net kWh and kW Realization Rates for Linear Fluorescent by IOU and Gross Program Group, with Relative Precisions – Not Including Large Calculated

Gross Program Group	n	NRR kWh	Relative Precision	NRR kW	Relative Precision
PG&E Deemed	76	38%	29%	37%	30%
PG&E Custom	14	58%	67%	38%	64%
PG&E 3P	44	39%	67%	45%	80%
PG&E LGP/DI	127	28%	68%	28%	60%
PG&E Total	**261**	**36%**	**35%**	**33%**	**34%**
SCE DI	240	23%	13%	25%	13%
SCE Deemed	114	103%	60%	72%	53%
SCE Custom	10	70%	57%	50%	68%
SCE 3P	73	41%	13%	31%	27%
SCE LGP	43	40%	45%	31%	45%
SCE Total	**480**	**65%**	**34%**	**48%**	**33%**
SDGE DI	134	36%	24%	37%	18%
SDGE Deemed	78	41%	28%	30%	30%
SDGE Custom					
SDGE 3P/LGP	7	64%	27%	80%	19%
SDG&E Total	**219**	**48%**	**17%**	**46%**	**13%**
SW DI	**374**	**30%**	**16%**	**32%**	**12%**
SW Deemed	**268**	**61%**	**35%**	**46%**	**29%**
SW Custom	**24**	**65%**	**44%**	**46%**	**51%**
SW 3P	**124**	**51%**	**20%**	**54%**	**19%**
SW LGP	**170**	**28%**	**63%**	**28%**	**57%**
Statewide Total	**960**	**49%**	**18%**	**41%**	**17%**

Table G-184: Net kWh and kW Realization Rates for Occupancy Sensors by IOU and Gross Program Group, with Relative Precisions – Not Including Large Calculated

Gross Program Group	n	NRR kWh	Relative Precision	NRR kW	Relative Precision
PG&E Deemed	52	29%	41%	33%	47%
PG&E Custom					
PG&E 3P	16	38%	58%	41%	73%
PG&E LGP/DI	30	85%	67%	133%	66%
PG&E Total	**98**	**32%**	**32%**	**36%**	**38%**
SCE DI	84	56%	38%	17%	45%
SCE Deemed	61	40%	30%	20%	52%
SCE Custom					
SCE 3P					
SCE LGP					
SCE Total	**145**	**41%**	**28%**	**20%**	**47%**
SDGE DI					
SDGE Deemed	41	58%	22%	46%	21%
SDGE Custom					
SDGE 3P/LGP					
SDG&E Total	**41**	**58%**	**22%**	**46%**	**21%**
SW DI	**84**	**56%**	**38%**	**17%**	**45%**
SW Deemed	**154**	**40%**	**18%**	**28%**	**27%**
SW Custom					
SW 3P	**16**	**38%**	**58%**	**41%**	**73%**
SW LGP	**30**	**85%**	**67%**	**133%**	**66%**
Statewide Total	**284**	**41%**	**17%**	**28%**	**24%**

Table G-185 presents the sample size, the kWh NRRs, the relative precision for the kWh NRRs, the kW NRRs, and the relative precision for the kW NRR for each IOU for the Large Calculated sites.

Table G-185: Net kWh and kW Realization Rates for Large Calculated Sites by IOU with Relative Precisions

IOU	n	NRR kWh	Relative Precision	NRR kW	Relative Precision
PG&E	46	42%	47%	36%	67%
SCE	15	37%	33%	41%	29%
SDG&E	5	37%	31%	36%	78%
Statewide	**66**	**40%**	**27%**	**38%**	**35%**

The NRRs differ from one for the same reasons as the GRRs, plus the NRRs are also affected by differences between the ex-post and ex-ante NTGRs. For the most part, the ex-post NTGRs are less than the ex-ante NTGRs, which explains why the NRRs are lower than the GRRs. As mentioned above, at the statewide and IOU levels, the ex-post NTGRs are about 20% less than the ex-ante values.

G.9.4 Lifecycle Net Realization Rates

Net lifecycle realization rates can be estimated in a similar way as gross lifecycle realization rates, by looking at the ratio of the evaluated ex-post net lifecycle savings to the ex-ante net lifecycle savings. The approach is identical to that for the gross lifecycle realization rates, but using net savings instead of gross.

Table G-186 and Table G-187 present the kWh and kW net lifecycle realization rates, respectively, by HIM, IOU, and Gross Program Group. Again, Large Calculated sites are not included and results are presented separately below.

Table G-186: Net Lifecycle kWh Realization Rates by HIM, IOU and Gross Program Group – Not Including Large Calculated

Gross Program Group	CFL Basic	CFL Reflector	High Bay	HID	Delamp	Linear	Occ Sensors	Total
PG&E Deemed		108%	42%	*224%*	51%	58%	29%	**45%**
PG&E Custom						37%		**37%**
PG&E 3P	59%		42%		24%	46%	38%	**40%**
PG&E LGP/DI	52%	120%	15%	33%	43%	27%	85%	**30%**
PG&E Total	**56%**	**112%**	**38%**	**43%**	**40%**	**35%**	**32%**	**38%**
SCE DI	61%	78%	44%		66%	37%	56%	**50%**
SCE Deemed		49%	63%	*553%*	123%	119%	40%	**101%**
SCE Custom						49%		**49%**
SCE 3P					86%	64%		**71%**
SCE LGP						68%		**68%**
SCE Total	**61%**	**56%**	**62%**	***553%***	**104%**	**66%**	**41%**	**86%**
SDGE DI	170%	87%				50%		**55%**
SDGE Deemed	44%	27%	14%	*29%*	42%	48%	31%	**27%**
SDGE 3P/LGP	38%					45%		**45%**
SDG&E Total	**94%**	**52%**	**14%**	***29%***	**42%**	**47%**	**31%**	**32%**
SW DI	**97%**	**80%**	**44%**		**66%**	**44%**	**56%**	**52%**
SW Deemed	**44%**	**58%**	**42%**	**205%**	**78%**	**71%**	**34%**	**59%**
SW Custom						**44%**		**44%**
SW 3P	**58%**		**42%**		**43%**	**49%**	**38%**	**46%**
SW LGP	**52%**	**120%**	**15%**	**33%**	**43%**	**29%**	**85%**	**30%**
Statewide Total	**62%**	**66%**	**40%**	**132%**	**63%**	**47%**	**35%**	**51%**

* Italics indicate segment level results that are supported by small sample sizes of six or less.

Table G-187: Net Lifecycle kW Realization Rates by HIM, IOU and Gross Program Group – Not Including Large Calculated

Gross Program Group	CFL Basic	CFL Reflector	High Bay	HID	Delamp	Linear	Occ Sensors	Total
PG&E Deemed		101%	35%	*245%*	61%	57%	33%	**42%**
PG&E Custom						26%		**26%**
PG&E 3P	100%		28%		55%	50%	41%	**37%**
PG&E LGP/DI	40%	126%	14%	25%	45%	28%	133%	**28%**
PG&E Total	**67%**	**109%**	**29%**	**36%**	**51%**	**32%**	**36%**	**34%**
SCE DI	68%	88%	42%		70%	41%	17%	**46%**
SCE Deemed		21%	59%	*585%*	115%	87%	20%	**84%**
SCE Custom						38%		**38%**
SCE 3P					67%	49%		**55%**
SCE LGP						54%		**54%**
SCE Total	**68%**	**36%**	**58%**	***585%***	**95%**	**51%**	**20%**	**71%**
SDGE DI	161%	94%				52%		**57%**
SDGE Deemed	45%	29%	13%	*17%*	25%	37%	24%	**21%**
SDGE 3P/LGP	23%					60%		**60%**
SDG&E Total	**93%**	**59%**	**13%**	***17%***	**25%**	**48%**	**24%**	**28%**
SW DI	**100%**	**90%**	**42%**		**70%**	**47%**	**17%**	**49%**
SW Deemed	**45%**	**37%**	**38%**	**195%**	**72%**	**56%**	**24%**	**51%**
SW Custom						**33%**		**33%**
SW 3P	**96%**		**28%**		**62%**	**55%**	**41%**	**46%**
SW LGP	**40%**	**126%**	**14%**	**25%**	**45%**	**29%**	**133%**	**28%**
Statewide Total	**71%**	**54%**	**35%**	**117%**	**64%**	**43%**	**25%**	**45%**

* Italics indicate segment level results that are supported by small sample sizes of six or less.

Table G-188 and Table G-189 present the kWh and kW net lifecycle realization rates, respectively, by HIM, IOU, Gross Program Group and ER/ROB. Large Calculated sites are not included in these results.

Table G-188: Net Lifecycle kWh Realization Rates by HIM, IOU, Gross Program Group, and ER versus ROB – Not Including Large Calculated

Gross Program Group	ER or ROB	CFL Basic	CFL Reflector	High Bay	HID	Delamp	Linear	Occ Sensors	Total
PG&E Deemed	ER			26%	*98%*	103%	87%		**36%**
	ROB		108%	53%	*225%*	39%	48%	29%	**48%**
PG&E Custom	ER						*12%*		***12%***
	ROB						49%		**49%**
PG&E 3P	ER			16%		22%	71%		**23%**
	ROB	59%		63%		*36%*	37%	38%	**53%**
PG&E LGP/DI	ER			11%	*4%*	47%	50%		**31%**
	ROB	52%	120%	27%	47%	37%	18%	85%	**29%**
PG&E Total	**ER**			**20%**	**5%**	**41%**	**46%**		**29%**
	ROB	**56%**	**112%**	**54%**	**61%**	**38%**	**30%**	**32%**	**43%**
SCE DI	ER			45%		62%	43%		**51%**
	ROB	61%	78%	*43%*		*92%*	30%	56%	**50%**
SCE Deemed	ER			28%		138%	151%		**79%**
	ROB		49%	73%	*553%*	111%	96%	40%	**107%**
SCE Custom	ER						*65%*		***65%***
	ROB						44%		**44%**
SCE 3P	ER					109%	62%		**84%**
	ROB					*36%*	65%		**60%**
SCE LGP	ER						37%		**37%**
	ROB						148%		**148%**
SCE Total	**ER**			**31%**		**107%**	**83%**		**71%**
	ROB	**61%**	**56%**	**72%**	***553%***	**100%**	**58%**	**41%**	**92%**
SDG&E DI	ER						57%		**57%**
	ROB	170%	87%				36%		**53%**
SDG&E Deemed	ER			11%	*29%*	43%	44%		**22%**
	ROB	44%	27%	*37%*	*35%*	36%	52%	31%	**38%**
SDG&E Custom	ER								
	ROB								
SDG&E 3P/LGP	ER						*47%*		***47%***
	ROB	38%					*33%*		**33%**
SDG&E Total	**ER**			**11%**	***29%***	**43%**	**48%**		**29%**
	ROB	**94%**	**52%**	***37%***	***35%***	**36%**	**44%**	**31%**	**39%**

Table G-180 (Cont'd): Net Lifecycle kWh Realization Rates by HIM, IOU, Gross Program Group, and ER versus ROB – Not Including Large Calculated

Gross Program Group	ER or ROB	CFL Basic	CFL Reflector	High Bay	HID	Delamp	Linear	Occ Sensors	Total
Statewide DI	ER			45%		62%	51%		**53%**
	ROB	97%	80%	*43%*		*92%*	33%	56%	**51%**
Statewide Deemed	ER			18%	*29%*	84%	78%		**35%**
	ROB	44%	58%	63%	496%	73%	65%	34%	**75%**
Statewide Custom	ER						38%		**38%**
	ROB						46%		**46%**
Statewide 3P	ER			16%		45%	51%		**40%**
	ROB	58%		63%		36%	46%	38%	**52%**
Statewide LGP	ER			11%	*4%*	47%	49%		**31%**
	ROB	52%	120%	27%	47%	37%	19%	85%	**30%**
Statewide Total	**ER**			**17%**	**22%**	**64%**	**55%**		**37%**
	ROB	**62%**	**66%**	**62%**	**244%**	**62%**	**41%**	**35%**	**62%**

* Italics indicate segment level results that are supported by small sample sizes of six or less.

Table G-189: Net Lifecycle kW Realization Rates by HIM, IOU, Gross Program Group, and ER versus ROB – Not Including Large Calculated

Gross Program Group	ER or ROB	CFL Basic	CFL Reflector	High Bay	HID	Delamp	Linear	Occ Sensors	Total
PG&E Deemed	ER			20%	*81%*	131%	81%		**30%**
	ROB		101%	48%	*247%*	41%	48%	33%	**48%**
PG&E Custom	ER						*9%*		***9%***
	ROB						39%		**39%**
PG&E 3P	ER			15%		51%	129%		**31%**
	ROB	100%		36%		*69%*	32%	41%	**40%**
PG&E LGP/DI	ER			9%	*3%*	45%	49%		**29%**
	ROB	40%	126%	27%	37%	45%	19%	133%	**28%**
PG&E Total	**ER**			**16%**	**3%**	**56%**	**44%**		**28%**
	ROB	**67%**	**109%**	**42%**	**54%**	**45%**	**27%**	**36%**	**38%**
SCE DI	ER			47%		69%	49%		**57%**
	ROB	68%	88%	*31%*		*73%*	31%	17%	**35%**
SCE Deemed	ER			28%		147%	114%		**72%**
	ROB		21%	68%	*585%*	90%	68%	20%	**87%**
SCE Custom	ER						*70%*		***70%***
	ROB						30%		**30%**
SCE 3P	ER					93%	61%		**77%**
	ROB					*11%*	43%		**37%**
SCE LGP	ER						30%		**30%**
	ROB						117%		**117%**
SCE Total	**ER**			**31%**		**109%**	**74%**		**68%**
	ROB	**68%**	**36%**	**67%**	***585%***	**77%**	**41%**	**20%**	**72%**
SDG&E DI	ER						55%		**55%**
	ROB	161%	94%				45%		**60%**
SDG&E Deemed	ER			8%	*16%*	24%	31%		**15%**
	ROB	45%	29%	*42%*	*47%*	33%	44%	24%	**34%**
SDG&E Custom	ER								
	ROB								
SDG&E 3P/LGP	ER						*62%*		***62%***
	ROB	23%					*46%*		**45%**
SDG&E Total	**ER**			**8%**	***16%***	**24%**	**50%**		**25%**
	ROB	**93%**	**59%**	***42%***	***47%***	**33%**	**45%**	**24%**	**37%**

Table G-181 (Cont'd): Net Lifecycle kW Realization Rates by HIM, IOU, Gross Program Group, and ER versus ROB – Not Including Large Calculated

Gross Program Group	ER or ROB	CFL Basic	CFL Reflector	High Bay	HID	Delamp	Linear	Occ Sensors	Total
Statewide DI	ER			47%		69%	53%		**56%**
	ROB	100%	90%	*31%*		*73%*	37%	17%	**41%**
Statewide Deemed	ER			15%	*16%*	76%	59%		**29%**
	ROB	45%	37%	59%	513%	68%	53%	24%	**67%**
Statewide Custom	ER						35%		**35%**
	ROB						33%		**33%**
Statewide 3P	ER			15%		74%	66%		**52%**
	ROB	96%		36%		33%	40%	41%	**40%**
Statewide LGP	ER			9%	*3%*	45%	47%		**29%**
	ROB	40%	126%	27%	37%	45%	20%	133%	**28%**
Statewide Total	**ER**			**15%**	**12%**	**67%**	**54%**		**35%**
	ROB	**71%**	**54%**	**54%**	**227%**	**59%**	**35%**	**25%**	**53%**

* Italics indicate segment level results that are supported by small sample sizes of six or less.

Table G-190 through Table G-196 present separate tables for each HIM, by IOU and Gross Program Group, which include the sample size, the kWh net lifecycle realization rate, the relative precision for the kWh realization rate, the kW net lifecycle realization rate, and the relative precision for the kW realization rate. Furthermore, the first year net realization rates are also presented for kWh and kW so a comparison can be made between first year and lifecycle realization rates.

Table G-190: Comparison of Net First Year and Lifecycle kWh and kW Realization Rates for CFL Basic by IOU and Gross Program Group, with Relative Precisions – Not Including Large Calculated

Gross Program Group	n	Net Realization Rates - kWh			Net Realization Rates – kW		
		First Year	Lifecycle	RP - Lifecycle	First Year	Lifecycle	RP - Lifecycle
PG&E Deemed							
PG&E Custom							
PG&E 3P	32	38%	59%	28%	100%	71%	38%
PG&E LGP/DI	100	17%	52%	20%	40%	13%	22%
PG&E Total	**132**	**28%**	**56%**	**18%**	**67%**	**38%**	**26%**
SCE DI	79	24%	61%	32%	68%	26%	32%
SCE Deemed							
SCE Custom							
SCE 3P							
SCE LGP							
SCE Total	**79**	**24%**	**61%**	**32%**	**68%**	**26%**	**32%**
SDGE DI	33	74%	170%	21%	161%	69%	30%
SDGE Deemed	10	33%	44%	38%	45%	25%	56%
SDGE Custom							
SDGE 3P/LGP	14	33%	38%	66%	23%	28%	78%
SDG&E Total	**57**	**49%**	**94%**	**18%**	**93%**	**44%**	**25%**
SW DI	**112**	**42%**	**97%**	**18%**	**100%**	**42%**	**22%**
SW Deemed	**10**	**33%**	**44%**	**38%**	**45%**	**25%**	**56%**
SW Custom							
SW 3P	**46**	**38%**	**58%**	**27%**	**96%**	**69%**	**37%**
SW LGP	**100**	**17%**	**52%**	**20%**	**40%**	**13%**	**22%**
Statewide Total	**268**	**30%**	**62%**	**13%**	**71%**	**37%**	**19%**

Table G-191: Comparison of Net First Year and Lifecycle kWh and kW Realization Rates for CFL Reflector by IOU and Gross Program Group, with Relative Precisions – Not Including Large Calculated

Gross Program Group	n	Net Realization Rates - kWh			Net Realization Rates – kW		
		First Year	Lifecycle	RP - Lifecycle	First Year	Lifecycle	RP - Lifecycle
PG&E Deemed	12	127%	108%	63%	101%	115%	50%
PG&E Custom							
PG&E 3P							
PG&E LGP/DI	28	75%	120%	24%	126%	68%	33%
PG&E Total	**40**	**107%**	**112%**	**41%**	**109%**	**97%**	**33%**
SCE DI	44	52%	78%	22%	88%	59%	21%
SCE Deemed	16	18%	49%	22%	21%	11%	127%
SCE Custom							
SCE 3P							
SCE LGP							
SCE Total	**60**	**25%**	**56%**	**17%**	**36%**	**22%**	**58%**
SDGE DI	25	47%	87%	14%	94%	50%	29%
SDGE Deemed	9	22%	27%	21%	29%	22%	21%
SDGE Custom							
SDGE 3P/LGP							
SDG&E Total	**34**	**32%**	**52%**	**12%**	**59%**	**35%**	**22%**
SW DI	**69**	**50%**	**80%**	**16%**	**90%**	**56%**	**17%**
SW Deemed	**37**	**40%**	**58%**	**26%**	**37%**	**33%**	**58%**
SW Custom							
SW 3P							
SW LGP	**28**	**75%**	**120%**	**24%**	**126%**	**68%**	**33%**
Statewide Total	**134**	**45%**	**66%**	**17%**	**54%**	**41%**	**30%**

Table G-192: Comparison of Net First Year and Lifecycle kWh and kW Realization Rates for High Bay Lighting by IOU and Gross Program Group, with Relative Precisions – Not Including Large Calculated

Gross Program Group	n	Net Realization Rates - kWh			Net Realization Rates – kW		
		First Year	Lifecycle	RP - Lifecycle	First Year	Lifecycle	RP - Lifecycle
PG&E Deemed	45	41%	42%	16%	35%	34%	24%
PG&E Custom							
PG&E 3P	28	47%	42%	40%	28%	32%	34%
PG&E LGP/DI	23	30%	15%	26%	14%	26%	29%
PG&E Total	**96**	**42%**	**38%**	**17%**	**29%**	**33%**	**18%**
SCE DI	19	56%	44%	45%	42%	56%	54%
SCE Deemed	54	50%	63%	19%	59%	46%	21%
SCE Custom							
SCE 3P							
SCE LGP							
SCE Total	**73**	**50%**	**62%**	**18%**	**58%**	**46%**	**20%**
SDGE DI							
SDGE Deemed	24	29%	14%	50%	13%	24%	68%
SDGE Custom							
SDGE 3P/LGP							
SDG&E Total	**24**	**29%**	**14%**	**50%**	**13%**	**24%**	**68%**
SW DI	**19**	**56%**	**44%**	**45%**	**42%**	**56%**	**54%**
SW Deemed	**123**	**42%**	**42%**	**13%**	**38%**	**37%**	**16%**
SW Custom							
SW 3P	**28**	**47%**	**42%**	**40%**	**28%**	**32%**	**34%**
SW LGP	**23**	**30%**	**15%**	**26%**	**14%**	**26%**	**29%**
Statewide Total	**193**	**42%**	**40%**	**12%**	**35%**	**36%**	**14%**

Table G-193: Comparison of Net First Year and Lifecycle kWh and kW Realization Rates for HID by IOU and Gross Program Group, with Relative Precisions – Not Including Large Calculated

Gross Program Group	n	Net Realization Rates - kWh			Net Realization Rates – kW		
		First Year	Lifecycle	RP - Lifecycle	First Year	Lifecycle	RP - Lifecycle
PG&E Deemed	5	77%	224%	36%	245%	83%	49%
PG&E Custom							
PG&E 3P							
PG&E LGP/DI	26	34%	33%	55%	25%	25%	57%
PG&E Total	**31**	**40%**	**43%**	**41%**	**36%**	**34%**	**41%**
SCE DI							
SCE Deemed	6	119%	553%	54%	585%	125%	47%
SCE Custom							
SCE 3P							
SCE LGP							
SCE Total	**6**	**119%**	**553%**	**54%**	**585%**	**125%**	**47%**
SDGE DI							
SDGE Deemed	3	139%	29%	1%	17%	80%	12%
SDGE Custom							
SDGE 3P/LGP							
SDG&E Total	**3**	**139%**	**29%**	**1%**	**17%**	**80%**	**12%**
SW DI							
SW Deemed	**14**	**122%**	**205%**	**47%**	**195%**	**109%**	**41%**
SW Custom							
SW 3P							
SW LGP	**26**	**34%**	**33%**	**55%**	**25%**	**25%**	**57%**
Statewide Total	**40**	**101%**	**132%**	**42%**	**117%**	**86%**	**38%**

Table G-194: Comparison of Net First Year and Lifecycle kWh and kW Realization Rates for Delamping by IOU and Gross Program Group, with Relative Precisions – Not Including Large Calculated

Gross Program Group	n	Net Realization Rates - kWh			Net Realization Rates – kW		
		First Year	Lifecycle	RP - Lifecycle	First Year	Lifecycle	RP - Lifecycle
PG&E Deemed	33	37%	51%	44%	61%	44%	57%
PG&E Custom							
PG&E 3P	28	28%	24%	37%	55%	52%	45%
PG&E LGP/DI	54	38%	43%	26%	45%	39%	25%
PG&E Total	**115**	**35%**	**40%**	**21%**	**51%**	**42%**	**24%**
SCE DI	38	42%	66%	28%	70%	44%	30%
SCE Deemed	58	51%	123%	23%	115%	47%	30%
SCE Custom							
SCE 3P	23	42%	86%	32%	67%	33%	48%
SCE LGP							
SCE Total	**119**	**48%**	**104%**	**18%**	**95%**	**44%**	**22%**
SDGE DI							
SDGE Deemed	24	46%	42%	30%	25%	27%	21%
SDGE Custom							
SDGE 3P/LGP							
SDG&E Total	**24**	**46%**	**42%**	**30%**	**25%**	**27%**	**21%**
SW DI	**38**	**42%**	**66%**	**28%**	**70%**	**44%**	**30%**
SW Deemed	**115**	**47%**	**78%**	**18%**	**72%**	**43%**	**23%**
SW Custom							
SW 3P	**51**	**34%**	**43%**	**24%**	**62%**	**40%**	**34%**
SW LGP	**54**	**38%**	**43%**	**26%**	**45%**	**39%**	**25%**
Statewide Total	**258**	**43%**	**63%**	**13%**	**64%**	**42%**	**16%**

Table G-195: Comparison of Net First Year and Lifecycle kWh and kW Realization Rates for Linear Fluorescent by IOU and Gross Program Group, with Relative Precisions – Not Including Large Calculated

Gross Program Group	n	Net Realization Rates - kWh			Net Realization Rates – kW		
		First Year	Lifecycle	RP - Lifecycle	First Year	Lifecycle	RP - Lifecycle
PG&E Deemed	76	38%	58%	34%	57%	37%	36%
PG&E Custom	14	58%	37%	50%	26%	38%	49%
PG&E 3P	44	39%	46%	74%	50%	45%	79%
PG&E LGP/DI	127	28%	27%	64%	28%	28%	56%
PG&E Total	**261**	**36%**	**35%**	**33%**	**32%**	**33%**	**32%**
SCE DI	240	23%	37%	14%	41%	25%	15%
SCE Deemed	114	103%	119%	60%	87%	72%	51%
SCE Custom	10	70%	49%	45%	38%	50%	63%
SCE 3P	73	41%	64%	16%	49%	31%	27%
SCE LGP	43	40%	68%	45%	54%	31%	46%
SCE Total	**480**	**65%**	**66%**	**29%**	**51%**	**48%**	**29%**
SDGE DI	134	36%	50%	21%	52%	37%	15%
SDGE Deemed	78	41%	48%	19%	37%	30%	24%
SDGE Custom							
SDGE 3P/LGP	7	64%	45%	33%	60%	80%	22%
SDG&E Total	**219**	**48%**	**47%**	**17%**	**48%**	**46%**	**13%**
SW DI	**374**	**30%**	**44%**	**14%**	**47%**	**32%**	**11%**
SW Deemed	**268**	**61%**	**71%**	**31%**	**56%**	**46%**	**26%**
SW Custom	**24**	**65%**	**44%**	**34%**	**33%**	**46%**	**47%**
SW 3P	**124**	**51%**	**49%**	**23%**	**55%**	**54%**	**19%**
SW LGP	**170**	**28%**	**29%**	**59%**	**29%**	**28%**	**53%**
Statewide Total	**960**	**49%**	**47%**	**16%**	**43%**	**41%**	**16%**

Table G-196: Comparison of Net First Year and Lifecycle kWh and kW Realization Rates for Occupancy Sensors by IOU and Gross Program Group, with Relative Precisions – Not Including Large Calculated

Gross Program Group	n	Net Realization Rates - kWh			Net Realization Rates – kW		
		First Year	Lifecycle	RP - Lifecycle	First Year	Lifecycle	RP - Lifecycle
PG&E Deemed	52	29%	29%	41%	33%	33%	47%
PG&E Custom							
PG&E 3P	16	38%	38%	58%	41%	41%	73%
PG&E LGP/DI	30	85%	85%	67%	133%	133%	66%
PG&E Total	**98**	**32%**	**32%**	**32%**	**36%**	**36%**	**38%**
SCE DI	84	56%	56%	38%	17%	17%	45%
SCE Deemed	61	40%	40%	30%	20%	20%	52%
SCE Custom							
SCE 3P							
SCE LGP							
SCE Total	**145**	**41%**	**41%**	**28%**	**20%**	**20%**	**47%**
SDGE DI							
SDGE Deemed	41	58%	31%	22%	24%	46%	21%
SDGE Custom							
SDGE 3P/LGP							
SDG&E Total	**41**	**58%**	**31%**	**22%**	**24%**	**46%**	**21%**
SW DI	**84**	**56%**	**56%**	**38%**	**17%**	**17%**	**45%**
SW Deemed	**154**	**40%**	**34%**	**18%**	**24%**	**28%**	**27%**
SW Custom							
SW 3P	**16**	**38%**	**38%**	**58%**	**41%**	**41%**	**73%**
SW LGP	**30**	**85%**	**85%**	**67%**	**133%**	**133%**	**66%**
Statewide Total	**284**	**41%**	**35%**	**17%**	**25%**	**28%**	**24%**

Table G-197 presents the sample size, the net kWh realization rate, the relative precision for the kWh realization rate, the net kW realization rate, and the relative precision for the kW realization rate for each IOU, for the Large Calculated sites. Furthermore, the first year net realization rates are also presented for kWh and kW so a comparison can be made between first year and lifecycle realization rates.

Table G-197: Comparison of Net First Year and Lifecycle kWh and kW Realization Rates for Large Calculated Sites by IOU with Relative Precisions

IOU	n	Net Realization Rates - kWh			Net Realization Rates - kW		
		First Year	Lifecycle	RP - Lifecycle	First Year	Lifecycle	RP - Lifecycle
PG&E	46	42%	32%	35%	36%	27%	54%
SCE	15	37%	23%	38%	41%	34%	29%
SDG&E	5	37%	22%	46%	36%	24%	67%
Statewide	**66**	**40%**	**27%**	**26%**	**38%**	**30%**	**29%**

First year and lifecycle NRRs differ for the same reasons as described above for the first year and lifecycle GRRs. Furthermore, the lifecycle NRRs differ from lifecycle GRRs due to differences between the ex-post and ex-ante NTGRs. Overall, the ex-post NTGRs are about 20% less than the ex-ante NTGRs, which explains why the lifecycle NRRs are lower than the lifecycle GRRs.

G.10 Aggregate Ex-post Results

Using the GRRs and NRRs developed above, estimates can be developed for first year and lifecycle, net and gross kW and kWh savings for the evaluated population. Table G-198 to Table G-213 present these first year and lifecycle, net and gross kW and kWh savings by both gross and net program group (separate tables are presented by IOU and statewide). Although the GRRs do not vary by net program group, the NTGRs do, so results are presented at that finer level of aggregation.

Note that the evaluated population corresponds to the participants that installed measures that have a GRR specifically estimated and presented above. Approximately 89% of the gross first year kW ex-ante savings and 81% of the gross first year kWh ex-ante savings were among segments that were evaluated.

Table G-198: Aggregate First Year Gross kW and kWh Savings and Realization Rates by Net Program Group for Evaluated Population in PG&E

Gross Program Group	Net Program Group	kW			kWh		
		Ex-Ante First Year Savings	Ex-Post First Year Savings	First Year GRR	Ex-Ante First Year Savings	Ex-Post First Year Savings	First Year GRR
PG&E							
PG&E Custom	PGE Core/Statewide Custom	9,465	4,877	0.52	49,511,753	33,631,649	0.68
	Total Custom	**9,465**	**4,877**	**0.52**	**49,511,753**	**33,631,649**	**0.68**
PG&E Deemed	PGE Deemed Ag	5,597	3,488	0.62	27,826,710	19,617,251	0.70
	PGE Deemed Com	44,735	21,738	0.49	194,074,192	99,702,693	0.51
	PGE Deemed Ind	9,417	4,383	0.47	37,749,100	19,724,276	0.52
	Total Deemed	**59,749**	**29,610**	**0.50**	**259,650,002**	**139,044,220**	**0.54**
PG&E Local Govt Partner/DI	PGE DI Ecology	4,038	1,375	0.34	23,192,671	8,193,333	0.35
	PGE DI RHA	10,200	3,516	0.34	44,798,281	15,635,060	0.35
	PGE DI Staples	4,169	1,595	0.38	21,196,037	8,783,857	0.41
	PGE DI Staples/RHA **	2,778	914	0.33	12,412,027	4,262,733	0.34
	PGE DI Synergy	636	249	0.39	3,101,970	1,174,539	0.38
	PGE DI TEAA	1,194	453	0.38	4,978,264	2,054,513	0.41
	PGE Energy Fitness	16,013	5,657	0.35	61,256,839	21,943,467	0.36
	PGE LGP East Bay	10,885	3,820	0.35	61,352,313	22,945,634	0.37
	PGE LGP LGEAR	2,312	831	0.36	9,775,317	3,526,206	0.36
	PGE LGP Marin	1,029	335	0.32	4,510,003	1,488,909	0.33
	PGE LGP Redwood	1,110	399	0.36	4,566,678	1,570,992	0.34
	PGE LGP SF	4,643	1,464	0.32	26,681,321	8,035,188	0.30
	PGE RightLights	10,009	3,375	0.34	45,775,103	15,878,324	0.35
	PGE SW Partnership	4,524	1,996	0.44	20,081,339	10,140,658	0.50
	Total LGP/DI	**73,542**	**25,978**	**0.35**	**343,678,162**	**125,633,412**	**0.37**
PG&E 3rd Party	PGE 3P	8,435	5,125	0.61	57,525,749	28,117,061	0.49
	Total 3rd Party	**8,435**	**5,125**	**0.61**	**57,525,749**	**28,117,061**	**0.49**
PG&E Total		**151,192**	**65,591**	**0.43**	**710,365,666**	**326,426,341**	**0.46**

Table G-199: Aggregate First Year Gross kW and kWh Savings and Realization Rates by Net Program Group for Evaluated Population in SCE

Gross Program Group	Net Program Group	kW			kWh		
		Ex-Ante First Year Savings	Ex-Post First Year Savings	First Year GRR	Ex-Ante First Year Savings	Ex-Post First Year Savings	First Year GRR
SCE							
SCE Custom	SCE Core/Statewide Custom	12,581	6,596	0.52	76,596,647	46,375,909	0.61
	Total Custom	**12,581**	**6,596**	**0.52**	**76,596,647**	**46,375,909**	**0.61**
SCE Deemed	SCE Deemed Ag	1,344	596	0.44	6,234,549	3,339,733	0.54
	SCE Deemed Com	104,049	50,757	0.49	355,774,407	247,258,729	0.69
	SCE Deemed Ind	32,947	18,609	0.56	115,074,553	79,380,722	0.69
	Total Deemed	**138,340**	**69,962**	**0.51**	**477,083,509**	**329,979,184**	**0.69**
SCE DI	SCE Direct Install	73,823	28,739	0.39	279,379,545	116,219,371	0.42
	Total DI	**73,823**	**28,739**	**0.39**	**279,379,545**	**116,219,371**	**0.42**
SCE Local Govt Partner	SCE LGP ELP	1,381	678	0.49	6,531,503	3,685,863	0.56
	SCE LGP Institutional	2,907	1,385	0.48	12,525,445	5,910,038	0.47
	Total LGP	**4,288**	**2,063**	**0.48**	**19,056,947**	**9,595,901**	**0.50**
SCE 3rd Party	SCE 3P	4,093	1,846	0.45	25,976,191	13,268,069	0.51
	SCE 3P Mgmt Affiliates	1,081	465	0.43	3,992,040	2,277,317	0.57
	SCE 3P Preschool	1,327	573	0.43	4,551,435	2,564,350	0.56
	SCE 3P Schools	3,414	1,482	0.43	41,310,180	23,041,232	0.56
	Total 3rd Party	**9,916**	**4,366**	**0.44**	**75,829,846**	**41,150,968**	**0.54**
SCE Total		**238,948**	**111,726**	**0.47**	**927,946,494**	**543,321,332**	**0.59**

Table G-200: Aggregate First Year Gross kW and kWh Savings and Realization Rates by Net Program Group for Evaluated Population in SDG&E

Gross Program Group	Net Program Group	kW			kWh		
		Ex-Ante First Year Savings	Ex-Post First Year Savings	First Year GRR	Ex-Ante First Year Savings	Ex-Post First Year Savings	First Year GRR
SDG&E							
SDG&E Custom	SDG&E Core/Statewide	344	135	0.39	1,905,142	818,889	0.43
	Total Custom	**344**	**135**	**0.39**	**1,905,142**	**818,889**	**0.43**
SDG&E Deemed	SDG&E Deemed Com	12,447	5,751	0.46	56,928,277	36,679,636	0.64
	SDG&E Deemed Ind/Ag	1,994	852	0.43	7,110,569	3,881,933	0.55
	Total Deemed	**14,441**	**6,603**	**0.46**	**64,038,846**	**40,561,569**	**0.63**
SDG&E DI	SDG&E Direct Install	7,206	3,695	0.51	30,428,052	15,500,138	0.51
	Total DI	**7,206**	**3,695**	**0.51**	**30,428,052**	**15,500,138**	**0.51**
SDG&E LGP/ 3rd Party	SDG&E BID	7,241	3,806	0.53	43,332,843	22,021,232	0.51
	SDG&E MEC	294	111	0.38	1,526,873	695,266	0.46
	Total LGP/3rd Party	**7,535**	**3,917**	**0.52**	**44,859,716**	**22,716,498**	**0.51**
SDG&E Total		**29,525**	**14,350**	**0.49**	**141,231,757**	**79,597,094**	**0.56**

Table G-201: Aggregate First Year Gross kW and kWh Savings and Realization Rates by Net Program Group for Evaluated Population Statewide

Gross Program Group	Net Program Group	kW			kWh		
		Ex-Ante First Year Savings	Ex-Post First Year Savings	First Year GRR	Ex-Ante First Year Savings	Ex-Post First Year Savings	First Year GRR
Statewide							
Statewide	Total Custom	22,390	11,608	0.52	128,013,542	80,826,447	0.63
	Total Deemed	212,530	106,175	0.50	800,772,357	509,584,973	0.64
	Total DI	81,029	32,434	0.40	309,807,597	131,719,509	0.43
	Total LGP	77,830	28,041	0.36	362,735,109	135,229,312	0.37
	Total 3rd Party	25,886	13,408	0.52	178,215,311	91,984,527	0.52
Statewide Total		**419,664**	**191,667**	**0.46**	**1,779,543,917**	**949,344,767**	**0.53**

Table G-202: Aggregate Lifecycle Gross kW and kWh Savings and Realization Rates by Net Program Group for Evaluated Population in PG&E

Gross Program Group	Net Program Group	kW			kWh		
		Ex-Ante Lifecycle Savings	Ex-Post Lifecycle Savings	Life-cycle GRR	Ex-Ante Lifecycle Savings	Ex-Post Lifecycle Savings	Life-cycle GRR
PG&E							
PG&E Custom	PGE Core/Statewide Custom	138,361	51,312	0.37	712,382,562	329,682,887	0.46
	Total Custom	**138,361**	**51,312**	**0.37**	**712,382,562**	**329,682,887**	**0.46**
PG&E Deemed	PGE Deemed Ag	45,161	25,114	0.56	225,341,125	142,652,181	0.63
	PGE Deemed Com	389,767	231,250	0.59	1,685,933,765	1,036,545,232	0.61
	PGE Deemed Ind	83,584	43,152	0.52	335,024,003	192,400,599	0.57
	Total Deemed	**518,512**	**299,517**	**0.58**	**2,246,298,892**	**1,371,598,012**	**0.61**
PG&E Local Govt Partner/DI	PGE DI Ecology	52,270	18,575	0.36	289,334,920	108,430,955	0.37
	PGE DI RHA	97,578	32,231	0.33	423,281,861	138,721,318	0.33
	PGE DI Staples	39,271	14,678	0.37	196,209,109	73,688,404	0.38
	PGE DI Staples/RHA **	31,882	10,752	0.34	139,290,945	47,222,867	0.34
	PGE DI Synergy	7,741	3,411	0.44	36,570,706	15,449,553	0.42
	PGE DI TEAA	13,107	4,954	0.38	53,354,955	21,618,878	0.41
	PGE Energy Fitness	152,158	53,109	0.35	572,904,218	198,833,162	0.35
	PGE LGP East Bay	160,480	57,696	0.36	906,023,327	335,846,128	0.37
	PGE LGP LGEAR	24,005	9,640	0.40	102,158,239	40,674,839	0.40
	PGE LGP Marin	14,465	4,854	0.34	62,003,913	21,580,793	0.35
	PGE LGP Redwood	13,931	5,290	0.38	55,490,769	20,592,706	0.37
	PGE LGP SF	58,191	20,807	0.36	315,863,448	122,922,500	0.39
	PGE RightLights	144,873	49,250	0.34	650,440,073	226,513,808	0.35
	PGE SW Partnership	65,074	22,497	0.35	284,739,157	110,958,248	0.39
	Total LGP/DI	**875,025**	**307,743**	**0.35**	**4,087,665,641**	**1,483,054,161**	**0.36**
PG&E 3rd Party	PGE 3P	80,551	46,921	0.58	555,465,943	268,733,164	0.48
	Total 3rd Party	**80,551**	**46,921**	**0.58**	**555,465,943**	**268,733,164**	**0.48**
PG&E Total		**1,612,449**	**705,493**	**0.44**	**7,601,813,039**	**3,453,068,225**	**0.45**

Table G-203: Aggregate Lifecycle Gross kW and kWh Savings and Realization Rates by Net Program Group for Evaluated Population in SCE

Gross Program Group	Net Program Group	kW			kWh		
		Ex-Ante Lifecycle Savings	Ex-Post Lifecycle Savings	Lifecycle GRR	Ex-Ante Lifecycle Savings	Ex-Post Lifecycle Savings	Life-cycle GRR
SCE							
SCE Custom	SCE Core/Statewide Custom	181,313	75,243	0.41	1,081,418,161	433,926,741	0.40
	Total Custom	**181,313**	**75,243**	**0.41**	**1,081,418,161**	**433,926,741**	**0.40**
SCE Deemed	SCE Deemed Ag	8,612	6,494	0.75	39,381,995	35,814,656	0.91
	SCE Deemed Com	844,960	580,678	0.69	2,913,053,224	2,839,679,407	0.97
	SCE Deemed Ind	264,572	213,521	0.81	932,977,496	889,184,059	0.95
	Total Deemed	**1,118,144**	**800,694**	**0.72**	**3,885,412,715**	**3,764,678,122**	**0.97**
SCE DI	SCE Direct Install	550,498	315,053	0.57	2,019,484,455	1,236,521,750	0.61
	Total DI	**550,498**	**315,053**	**0.57**	**2,019,484,455**	**1,236,521,750**	**0.61**
SCE Local Govt Partner	SCE LGP ELP	15,687	11,838	0.75	76,515,359	63,245,931	0.83
	SCE LGP Institutional	40,621	17,481	0.43	174,741,442	59,991,080	0.34
	Total LGP	**56,308**	**29,320**	**0.52**	**251,256,801**	**123,237,011**	**0.49**
SCE 3rd Party	SCE 3P	51,467	26,357	0.51	326,938,892	172,946,950	0.53
	SCE 3P Mgmt Affiliates	10,916	8,072	0.74	41,871,953	41,046,623	0.98
	SCE 3P Preschool	10,758	8,322	0.77	36,817,509	37,614,868	1.02
	SCE 3P Schools	34,618	29,112	0.84	365,216,068	393,865,133	1.08
	Total 3rd Party	**107,760**	**71,863**	**0.67**	**770,844,422**	**645,473,574**	**0.84**
SCE Total		**2,014,023**	**1,292,172**	**0.64**	**8,008,416,554**	**6,203,837,197**	**0.77**

Table G-204: Aggregate Lifecycle Gross kW and kWh Savings and Realization Rates by Net Program Group for Evaluated Population in SDG&E

Gross Program Group	Net Program Group	kW			kWh		
		Ex-Ante Lifecycle Savings	Ex-Post Lifecycle Savings	Lifecycle GRR	Ex-Ante Lifecycle Savings	Ex-Post Lifecycle Savings	Life-cycle GRR
SDG&E							
SDG&E Custom	SDG&E Core/Statewide	5,154	1,319	0.26	28,577,129	7,458,210	0.26
	Total Custom	**5,154**	**1,319**	**0.26**	**28,577,129**	**7,458,210**	**0.26**
SDG&E Deemed	SDG&E Deemed Com	151,481	55,258	0.36	687,315,386	336,969,218	0.49
	SDG&E Deemed Ind/Ag	21,871	7,914	0.36	74,979,521	34,904,193	0.47
	Total Deemed	**173,352**	**63,172**	**0.36**	**762,294,907**	**371,873,411**	**0.49**
SDG&E DI	SDG&E Direct Install	59,055	41,091	0.70	242,515,806	164,843,936	0.68
	Total DI	**59,055**	**41,091**	**0.70**	**242,515,806**	**164,843,936**	**0.68**
SDG&E LGP/ 3rd Party	SDG&E BID	108,094	39,854	0.37	646,631,280	212,121,030	0.33
	SDG&E MEC	725	233	0.32	3,771,375	1,957,177	0.52
	Total LGP/3rd Party	**108,819**	**40,087**	**0.37**	**650,402,655**	**214,078,207**	**0.33**
SDG&E Total		**346,380**	**145,668**	**0.42**	**1,683,790,498**	**758,253,764**	**0.45**

Table G-205: Aggregate Lifecycle Gross kW and kWh Savings and Realization Rates by Net Program Group for Evaluated Population Statewide

Gross Program Group	Net Program Group	kW			kWh		
		Ex-Ante Lifecycle Savings	Ex-Post Lifecycle Savings	Lifecycle GRR	Ex-Ante Lifecycle Savings	Ex-Post Lifecycle Savings	Lifecycle GRR
Statewide							
Statewide	Total Custom	324,828	127,873	0.39	1,822,377,853	771,067,838	0.42
	Total Deemed	1,810,008	1,163,382	0.64	6,894,006,515	5,508,149,545	0.80
	Total DI	609,552	356,144	0.58	2,262,000,261	1,401,365,686	0.62
	Total LGP	931,333	337,063	0.36	4,338,922,442	1,606,291,172	0.37
	Total 3rd Party	297,130	158,871	0.53	1,976,713,020	1,128,284,945	0.57
Statewide Total		**3,972,851**	**2,143,333**	**0.54**	**17,294,020,090**	**10,415,159,186**	**0.60**

Table G-206: Aggregate First Year Net kW and kWh Savings and Realization Rates by Net Program Group for Evaluated Population in PG&E

Gross Program Group	Net Program Group	kW			kWh		
		Ex-Ante First Year Savings	Ex-Post First Year Savings	First Year GRR	Ex-Ante First Year Savings	Ex-Post First Year Savings	First Year GRR
PG&E							
PG&E Custom	PGE Core/Statewide Custom	6,301	2,146	0.34	32,719,423	15,994,840	0.49
	Total Custom	**6,301**	**2,146**	**0.34**	**32,719,423**	**15,994,840**	**0.49**
PG&E Deemed	PGE Deemed Ag	4,438	2,095	0.47	22,041,243	11,651,293	0.53
	PGE Deemed Com	35,395	13,390	0.38	153,786,719	61,999,502	0.40
	PGE Deemed Ind	7,402	2,297	0.31	29,671,121	10,143,022	0.34
	Total Deemed	**47,235**	**17,782**	**0.38**	**205,499,083**	**83,793,817**	**0.41**
PG&E Local Govt Partner/DI	PGE DI Ecology	3,177	770	0.24	18,275,725	4,655,885	0.25
	PGE DI RHA	7,902	2,449	0.31	34,731,677	10,932,425	0.31
	PGE DI Staples	2,922	966	0.33	14,846,939	5,341,843	0.36
	PGE DI Staples/RHA **	1,981	612	0.31	8,815,329	2,909,923	0.33
	PGE DI Synergy	445	162	0.36	2,171,379	755,450	0.35
	PGE DI TEAA	940	244	0.26	3,910,951	1,138,566	0.29
	PGE Energy Fitness	12,399	3,611	0.29	47,445,120	13,999,929	0.30
	PGE LGP East Bay	7,607	2,467	0.32	42,864,106	14,987,026	0.35
	PGE LGP LGEAR	1,713	483	0.28	7,167,745	2,056,611	0.29
	PGE LGP Marin	721	200	0.28	3,157,002	893,307	0.28
	PGE LGP Redwood	777	258	0.33	3,196,915	1,006,335	0.31
	PGE LGP SF	3,261	812	0.25	18,720,473	4,580,721	0.24
	PGE RightLights	7,822	2,133	0.27	35,810,002	10,077,220	0.28
	PGE SW Partnership	2,933	1,044	0.36	13,047,462	5,466,060	0.42
	Total LGP/DI	**54,599**	**16,212**	**0.30**	**254,160,823**	**78,801,301**	**0.31**
PG&E 3rd Party	PGE 3P	6,429	3,013	0.47	44,111,672	17,036,755	0.39
	Total 3rd Party	**6,429**	**3,013**	**0.47**	**44,111,672**	**17,036,755**	**0.39**
PG&E Total		**114,565**	**39,153**	**0.34**	**536,491,001**	**195,626,713**	**0.36**

Table G-207: Aggregate First Year Net kW and kWh Savings and Realization Rates by Net Program Group for Evaluated Population in SCE

Gross Program Group	Net Program Group	kW			kWh		
		Ex-Ante First Year Savings	Ex-Post First Year Savings	First Year GRR	Ex-Ante First Year Savings	Ex-Post First Year Savings	First Year GRR
SCE							
SCE Custom	SCE Core/Statewide Custom	8,052	3,473	0.43	49,021,854	23,197,633	0.47
	Total Custom	**8,052**	**3,473**	**0.43**	**49,021,854**	**23,197,633**	**0.47**
SCE Deemed	SCE Deemed Ag	1,065	379	0.36	4,940,042	2,098,043	0.42
	SCE Deemed Com	83,661	30,903	0.37	282,208,106	148,003,191	0.52
	SCE Deemed Ind	25,967	11,712	0.45	90,633,001	50,054,126	0.55
	Total Deemed	**110,693**	**42,994**	**0.39**	**377,781,149**	**200,155,360**	**0.53**
SCE DI	SCE Direct Install	62,749	20,010	0.32	237,472,613	80,322,732	0.34
	Total DI	**62,749**	**20,010**	**0.32**	**237,472,613**	**80,322,732**	**0.34**
SCE Local Govt Partner	SCE LGP ELP	1,012	318	0.31	4,698,436	1,955,707	0.42
	SCE LGP Institutional	1,880	868	0.46	8,103,182	3,670,277	0.45
	Total LGP	**2,893**	**1,187**	**0.41**	**12,801,618**	**5,625,984**	**0.44**
SCE 3rd Party	SCE 3P	2,831	1,068	0.38	17,958,295	6,928,989	0.39
	SCE 3P Mgmt Affiliates	852	254	0.30	3,099,708	1,297,329	0.42
	SCE 3P Preschool	1,128	396	0.35	3,868,720	1,762,099	0.46
	SCE 3P Schools	2,902	786	0.27	35,113,653	15,176,317	0.43
	Total 3rd Party	**7,713**	**2,503**	**0.32**	**60,040,375**	**25,164,734**	**0.42**
SCE Total		**192,100**	**70,167**	**0.37**	**737,117,609**	**334,466,443**	**0.45**

Table G-208: Aggregate First Year Net kW and kWh Savings and Realization Rates by Net Program Group for Evaluated Population in SDG&E

Gross Program Group	Net Program Group	kW			kWh		
		Ex-Ante First Year Savings	Ex-Post First Year Savings	First Year NRR	Ex-Ante First Year Savings	Ex-Post First Year Savings	First Year NRR
SDG&E							
SDG&E Custom	SDG&E Core/Statewide	220	77	0.35	1,219,291	496,510	0.41
	Total Custom	**220**	**77**	**0.35**	**1,219,291**	**496,510**	**0.41**
SDG&E Deemed	SDG&E Deemed Com	9,803	3,142	0.32	44,896,914	20,134,862	0.45
	SDG&E Deemed Ind/Ag	1,576	510	0.32	5,622,693	2,272,316	0.40
	Total Deemed	**11,379**	**3,652**	**0.32**	**50,519,607**	**22,407,178**	**0.44**
SDG&E DI	SDG&E Direct Install	5,818	2,352	0.40	24,613,504	9,898,788	0.40
	Total DI	**5,818**	**2,352**	**0.40**	**24,613,504**	**9,898,788**	**0.40**
SDG&E LGP/ 3rd Party	SDG&E BID	4,634	2,267	0.49	27,733,020	12,628,972	0.46
	SDG&E MEC	250	69	0.28	1,297,842	428,510	0.33
	Total LGP/3rd Party	**4,884**	**2,336**	**0.48**	**29,030,862**	**13,057,483**	**0.45**
SDG&E Total		**22,301**	**8,416**	**0.38**	**105,383,263**	**45,859,959**	**0.44**

Table G-209: Aggregate First Year Net kW and kWh Savings and Realization Rates by Net Program Group for Evaluated Population Statewide

Gross Program Group	Net Program Group	kW			kWh		
		Ex-Ante First Year Savings	Ex-Post First Year Savings	First Year NRR	Ex-Ante First Year Savings	Ex-Post First Year Savings	First Year NRR
Statewide							
Statewide	Total Custom	14,573	5,696	0.39	82,960,568	39,688,984	0.48
	Total Deemed	169,307	64,428	0.38	633,799,839	306,356,355	0.48
	Total DI	68,568	22,362	0.33	262,086,117	90,221,520	0.34
	Total LGP	57,492	17,398	0.30	266,962,441	84,427,284	0.32
	Total 3rd Party	19,026	7,852	0.41	133,182,909	55,258,971	0.41
Statewide Total		**328,965**	**117,736**	**0.36**	**1,378,991,874**	**575,953,115**	**0.42**

Table G-210: Aggregate Lifecycle Net kW and kWh Savings and Realization Rates by Net Program Group for Evaluated Population in PG&E

Gross Program Group	Net Program Group	kW			kWh		
		Ex-Ante Lifecycle Savings	Ex-Post Lifecycle Savings	Lifecycle NRR	Ex-Ante Lifecycle Savings	Ex-Post Lifecycle Savings	Life-cycle NRR
PG&E							
PG&E Custom	PGE Core/Statewide Custom	92,112	22,580	0.25	471,072,767	156,793,532	0.33
	Total Custom	**92,112**	**22,580**	**0.25**	**471,072,767**	**156,793,532**	**0.33**
PG&E Deemed	PGE Deemed Ag	35,688	15,080	0.42	177,915,288	84,725,553	0.48
	PGE Deemed Com	307,945	142,441	0.46	1,333,969,784	644,569,230	0.48
	PGE Deemed Ind	65,640	22,616	0.34	263,099,738	98,940,185	0.38
	Total Deemed	**409,273**	**180,137**	**0.44**	**1,774,984,811**	**828,234,968**	**0.47**
PG&E Local Govt Partner/DI	PGE DI Ecology	40,953	10,406	0.25	226,844,130	61,616,206	0.27
	PGE DI RHA	75,433	22,448	0.30	327,539,675	96,997,419	0.30
	PGE DI Staples	27,518	8,893	0.32	137,401,709	44,813,103	0.33
	PGE DI Staples/RHA **	22,608	7,200	0.32	98,456,218	32,236,344	0.33
	PGE DI Synergy	5,419	2,220	0.41	25,599,494	9,936,975	0.39
	PGE DI TEAA	10,295	2,666	0.26	41,809,975	11,980,706	0.29
	PGE Energy Fitness	117,659	33,900	0.29	443,221,080	126,855,536	0.29
	PGE LGP East Bay	112,145	37,254	0.33	632,985,479	219,359,150	0.35
	PGE LGP LGEAR	17,630	5,603	0.32	74,196,928	23,723,039	0.32
	PGE LGP Marin	10,125	2,907	0.29	43,402,739	12,947,921	0.30
	PGE LGP Redwood	9,752	3,423	0.35	38,845,505	13,191,130	0.34
	PGE LGP SF	40,867	11,543	0.28	221,660,304	70,075,970	0.32
	PGE RightLights	113,093	31,127	0.28	507,951,940	143,757,578	0.28
	PGE SW Partnership	42,017	11,770	0.28	184,209,139	59,809,177	0.32
	Total LGP/DI	**645,514**	**191,360**	**0.30**	**3,004,124,316**	**927,300,253**	**0.31**
PG&E 3rd Party	PGE 3P	60,408	27,586	0.46	421,108,834	162,831,421	0.39
	Total 3rd Party	**60,408**	**27,586**	**0.46**	**421,108,834**	**162,831,421**	**0.39**
PG&E Total		**1,207,307**	**421,663**	**0.35**	**5,671,290,727**	**2,075,160,174**	**0.37**

Table G-211: Aggregate Lifecycle Net kW and kWh Savings and Realization Rates by Net Program Group for Evaluated Population in SCE

Gross Program Group	Net Program Group	kW			kWh		
		Ex-Ante Lifecycle Savings	Ex-Post Lifecycle Savings	Lifecycle NRR	Ex-Ante Lifecycle Savings	Ex-Post Lifecycle Savings	Life-cycle NRR
SCE							
SCE Custom	SCE Core/Statewide Custom	116,041	39,615	0.34	692,107,623	217,053,934	0.31
	Total Custom	**116,041**	**39,615**	**0.34**	**692,107,623**	**217,053,934**	**0.31**
SCE Deemed	SCE Deemed Ag	6,785	4,134	0.61	31,009,618	22,499,018	0.73
	SCE Deemed Com	679,313	353,543	0.52	2,310,626,049	1,699,764,511	0.74
	SCE Deemed Ind	208,701	134,380	0.64	735,304,358	560,681,861	0.76
	Total Deemed	**894,799**	**492,057**	**0.55**	**3,076,940,026**	**2,282,945,389**	**0.74**
SCE DI	SCE Direct Install	467,923	219,360	0.47	1,716,561,787	854,597,681	0.50
	Total DI	**467,923**	**219,360**	**0.47**	**1,716,561,787**	**854,597,681**	**0.50**
SCE Local Govt Partner	SCE LGP ELP	11,149	5,554	0.50	53,428,296	33,558,083	0.63
	SCE LGP Institutional	26,166	10,963	0.42	112,545,886	37,255,916	0.33
	Total LGP	**37,316**	**16,516**	**0.44**	**165,974,182**	**70,813,998**	**0.43**
SCE 3rd Party	SCE 3P	34,717	15,248	0.44	220,815,346	90,318,160	0.41
	SCE 3P Mgmt Affiliates	8,362	4,413	0.53	31,476,395	23,383,201	0.74
	SCE 3P Preschool	9,145	5,745	0.63	31,294,883	25,847,146	0.83
	SCE 3P Schools	29,426	15,436	0.52	310,433,658	259,422,850	0.84
	Total 3rd Party	**81,649**	**40,842**	**0.50**	**594,020,281**	**398,971,357**	**0.67**
SCE Total		**1,597,728**	**808,390**	**0.51**	**6,245,603,899**	**3,824,382,359**	**0.61**

Table G-212: Aggregate Lifecycle Net kW and kWh Savings and Realization Rates by Net Program Group for Evaluated Population in SDG&E

Gross Program Group	Net Program Group	kW			kWh		
		Ex-Ante Lifecycle Savings	Ex-Post Lifecycle Savings	Lifecycle NRR	Ex-Ante Lifecycle Savings	Ex-Post Lifecycle Savings	Life-cycle NRR
SDG&E							
SDG&E Custom	SDG&E Core/Statewide	3,298	752	0.23	18,289,363	4,522,074	0.25
	Total Custom	**3,298**	**752**	**0.23**	**18,289,363**	**4,522,074**	**0.25**
SDG&E Deemed	SDG&E Deemed Com	119,451	30,190	0.25	542,734,064	184,975,357	0.34
	SDG&E Deemed Ind/Ag	17,311	4,740	0.27	59,320,090	20,431,405	0.34
	Total Deemed	**136,762**	**34,930**	**0.26**	**602,054,153**	**205,406,762**	**0.34**
SDG&E DI	SDG&E Direct Install	47,485	26,153	0.55	195,127,245	105,273,591	0.54
	Total DI	**47,485**	**26,153**	**0.55**	**195,127,245**	**105,273,591**	**0.54**
SDG&E LGP/ 3rd Party	SDG&E BID	69,180	23,736	0.34	413,844,019	121,649,445	0.29
	SDG&E MEC	616	144	0.23	3,205,669	1,206,258	0.38
	Total LGP/3rd Party	**69,797**	**23,879**	**0.34**	**417,049,688**	**122,855,703**	**0.29**
SDG&E Total		**257,342**	**85,714**	**0.33**	**1,232,520,450**	**438,058,130**	**0.36**

Table G-213: Aggregate Lifecycle Net kW and kWh Savings and Realization Rates by Net Program Group for Evaluated Population Statewide

Gross Program Group	Net Program Group	kW			kWh		
		Ex-Ante Lifecycle Savings	Ex-Post Lifecycle Savings	Lifecycle NRR	Ex-Ante Lifecycle Savings	Ex-Post Lifecycle Savings	Life-cycle NRR
Statewide							
Statewide	Total Custom	211,451	62,947	0.30	1,181,469,753	378,369,540	0.32
	Total Deemed	1,440,834	707,124	0.49	5,453,978,990	3,316,587,119	0.61
	Total DI	515,408	245,513	0.48	1,911,689,032	959,871,272	0.50
	Total LGP	682,830	207,877	0.30	3,170,098,498	998,114,251	0.31
	Total 3rd Party	211,855	92,307	0.44	1,432,178,803	684,658,480	0.48
Statewide Total		**3,062,377**	**1,315,767**	**0.43**	**13,149,415,076**	**6,337,600,664**	**0.48**

G.11 Comparison with 2006-08 Small Commercial Impact Evaluation

Table G-214 presents a comparison of key evaluation results between this and the 2006-08 Small Commercial Impact Evaluation. The 2006-08 evaluation studied CFL, high bay and linear fluorescent measures. For the most part, the installation rates and gross realization rates (GRR) compare well. CFL installation rates increased from 70% to 77%, while high bay and linear fluorescent measures changed by only 2-3%. The GRRs were also very close for high bay and linear fluorescent measures, differing by only 1% and 4%, respectively. The CFL basic GRR, however, increased from 0.21 to 0.38. The NTGRs for CFLs was very similar, differing by only 1%, while the NTGRs dropped significantly for high bay and linear fluorescent measures by about 14 to 17 percentage points.

Table G-214: Comparison Between 2006-08 and 2010-12 Impact Evaluation Results for CFL, High Bay and Linear Fluorescent Measures

HIM	Installation Rate		GRR		NTGR	
	2006-08	2010-12	2006-08	2010-12	2006-08	2010-12
CFL Basic	70%	77%	0.21	0.38	0.61	0.60
High Bay Fluorescent	94%	97%	0.64	0.63	0.73	0.59
Linear Fluorescent	93%	91%	0.59	0.55	0.79	0.62

Appendix H

Net-to-Gross Analysis

Net-to-Gross Overview

This appendix discusses the net-to-gross analysis that was conducted for the Nonresidential Downstream Lighting Evaluation. The approach was based on the large nonresidential free ridership approach developed by the Net-to-Gross Ratio (NTGR) Working Group and documented in Appendix C, Methodological Framework for Using the Self-Report Approach to Estimating Net-to-Gross Ratios for Nonresidential Customers.

The following paragraphs describe the phone survey and on-site survey disposition as well as the NTG algorithm, the data sources used, and the results of the NTG analysis.

Table H-1 and Table H-2 provide the percentage completes from both the phone survey and on-site survey process. Also included are reasons why a survey was not completed.

Table H-1: Phone Survey Disposition by IOU

Call Status	PG&E	SCE	SDG&E	Total
Survey Complete	25%	23%	20%	23%
Max Attempts	23%	23%	26%	24%
Refuse	9%	10%	13%	10%
Not Available	9%	10%	11%	10%
Unobtainable	8%	8%	8%	8%
Appointment	13%	11%	8%	12%
Other Language	3%	5%	4%	4%
Fax/Cell	2%	3%	3%	2%
Spanish Speaking	1%	2%	3%	2%
Other	6%	6%	5%	6%
Total	**100%**	**100%**	**100%**	**100%**

Table H-2: NTG Only and On-site Survey Disposition by IOU

On-Site Status	PG&E	SCE	SDG&E	Total
NTG Only	62%	34%	43%	50%
Refused on-site	5%	8%	6%	6%
On-site Complete	20%	39%	34%	28%
Not completed	11%	17%	13%	13%
Lost	2%	2%	4%	2%
Total	**100%**	**100%**	**100%**	**100%**

Net-to-Gross Algorithm

The NTGR is calculated as the average of three program attribution indices (PAI) known as PAI-1, PAI-2, and PAI-3. Each of these scores represents the highest response or the average of several responses given to one or more questions about the decision to install a program measure.

- **Program attribution index 1 (PAI–1)** is a score that reflects the influence of the most important of various program-related elements in the customer's decision to select a given program measure. The PAI-1 score is calculated as the highest program influence factor divided by the sum of the highest program influence factor and the highest non-program influence factor. Some example non-program factors are: previous experience with the measure, recommendation from an engineer, standard practice, corporate policy, compliance with rules or regulations, organizational maintenance or equipment replacement policies and "other – specify." Payback is treated as a program influence factor if the rebate/incentives played a major role in meeting payback criteria but is treated as a non-program influence factor if it did not play a major role in meeting payback criteria.
- **Program attribution index 2 (PAI–2)** is a score that captures the perceived importance of program factors (including rebate/incentives, recommendation, and training) relative to non-program factors in the decision to implement the specific measure that was eventually adopted or installed. This score is determined by asking respondents to assign importance values to the program and most important non-program influences so that the two total 10. The program influence score is adjusted (i.e., divided by 2) if respondents had made the decision to install the measure before learning about the program. The final score is divided by 10 to be put into decimal form, thus making it consistent with PAI-1.
- **Program attribution index 3 (PAI–3)** is a score that captures the likelihood of various actions the customer might have taken at the given time and in the future if the program had not been available (the counterfactual). This score is calculated as 10 minus the

likelihood that the respondent would have installed the same measure in the absence of the program. The final score is divided by 10 to put into decimal form, thus making it consistent with PAI-1 and PAI-2.

When multiple questions feed into the scoring algorithm, as is the case for both the **PAI-1** and **PAI-3** scores, the maximum score is chosen to capture the most important element in the participant's decision making. Thus, each score is always based on the strongest influence indicated by the respondent. However, scores that are inconsistent with previous responses may trigger consistency checks and lead to follow-up questions to clarify and resolve the discrepancy.

The NTGR is estimated as an average of these three scores. If one of the scores is not available (generally due to respondents giving a "don't know" or "refusal" response), then the NTGR is estimated as the average of the two available scores. If two or more scores were missing, results are discarded from the calculation.

Data Sources and Sample Design

The NTG results are based on the participant phone survey in which respondents are asked a battery of questions supporting the NTG algorithm. As discussed in the body of the report, a primary goal of the NTG analysis is to provide results at the IOU and Net Program Group levels. Precision targets for NTGRs were set at the Net Program Group level, not at the Measure Group and Net Program Group level. These precision targets and corresponding sample sizes were developed as part of the research plan when only 2010 participation data was available. Three different levels of precision were targeted (90/10, 90/15 and 90/20) based on current level of savings contributed by the segment.[1] Because the sample design was developed when only 2010 participation data was available, many segment-specific targets were not reached because fewer than expected customers participated, so a census was attempted for these segments. A number of segments have been collapsed for reporting purposes due to low sample sizes. Table H-3 below summarizes the initial sample design and corresponding precision targets.

[1] A 90/10 precision was targeted for those segments with savings above 10,000 GWh, 90/15 precision was targeted for those segments with savings between 5,000-10,000 GWh, and 90/20 precision was targeted for those segments with less than 5,000 GWh of savings (where savings were measured only for the 2010 program year as that was all that was available at the time).

Table H-3: Net-to-Gross Initial Sample Design by Net Program Group

IOU Net Program Group	Unique Sites	Total Savings		Savings as a % of Nonres Downstream Lighting		Precision Target	Sample Size
	N	GWh	MW	kWh	kW		
PG&E							
PGE Calculated Ag	108	14	2	1%	0%	90/20	60
PGE Calculated Com	2,171	63	9	3%	2%	90/10	130
PGE Calculated Ind	55	7	1	0%	0%	90/20	40
PGE NRNC	99	5	1	0%	0%	90/20	40
PGE Deemed	11,254	276	63	13%	13%	90/10	260
PGE LGP East Bay	3,218	79	12	4%	2%	90/10	130
PGE LGP LGEAR	2,118	12	2	1%	1%	90/20	40
PGE LGP Marin	537	6	1	0%	0%	90/20	40
PGE LGP Redwood	718	6	1	0%	0%	90/20	40
PGE LGP SF	2,791	54	11	2%	2%	90/10	130
PGE 3P Other	5,478	102	14	5%	3%	90/10	130
PGE Energy Fitness	8,051	64	17	3%	4%	90/15	60
PGE RightLights	3,899	56	11	3%	2%	90/15	60
PGE SW Partnership	233	30	6	1%	1%	90/20	40
PGE DI Ecology	1,587	34	5	2%	1%	90/15	60
PGE DI RHA	3,410	47	10	2%	2%	90/15	60
PGE DI Staples	4,343	23	4	1%	1%	90/15	60
PGE DI Staples and RHA*	1,914	15	3	1%	1%		
PGE DI Synergy	762	4	1	0%	0%	90/20	40
PGE DI TEAA	792	8	1	0%	0%	90/20	40
PG&E Total	**53,538**	**905**	**174**	**41%**	**37%**		**1,460**
SCE							
SCE Calculated Com	1,705	87	12	4%	3%	90/10	130
SCE Calculated Ind_Ag	137	28	4	1%	1%	90/10	130
SCE NRNC	243	31	5	1%	1%	90/10	130
SCE Deemed Ag	214	6	1	0%	0%	90/20	40
SCE Deemed Com	17,321	379	107	17%	23%	90/10	130
SCE Deemed Ind	4,985	116	33	5%	7%	90/10	130
SCE Direct Install	149,474	293	76	13%	16%	90/10	130
SCE LGP ELP	2,908	22	3	1%	1%	90/20	40
SCE LGP Institutional	293	25	4	1%	1%	90/15	60
SCE 3P	979	41	8	2%	2%	90/20	40
SCE 3P Mgmt Affiliates	270	7	2	0%	0%	90/20	40
SCE 3P Preschool	1,056	6	2	0%	0%	90/20	40
SCE 3P Schools	1,935	46	7	2%	1%	90/20	40
SCE Total	**181,520**	**1,087**	**264**	**50%**	**56%**		**1,080**

Table H-3 (Cont'd): Net-to-Gross Sample Design by Net Program Group

IOU Net Program Group	Unique Sites	Total Savings		Savings as a % of Nonres Downstream Lighting		Precision Target	Sample Size
	N	GWh	MW	kWh	kW		
SDG&E							
SDGE BID	585	52	8	2%	2%	90/10	130
SDGE Calculated	426	16	2	1%	0%	90/15	60
SDGE NRNC	48	6	1	0%	0%	90/20	40
SDGE Deemed COM	4,939	79	13	4%	3%	90/10	130
SDGE Deemed IND_AG	472	7	2	0%	0%	90/20	40
SDGE Direct Install	10,474	32	8	1%	2%	90/10	130
SDGE MEC	1,040	2	0	0%	0%	90/20	40
SDGE Total	**17,984**	**194**	**35**	**9%**	**7%**		**570**
Grand Total	**253,042**	**2,185**	**472**	**100%**	**100%**		**3,110**

* Note that this segment (PGE2144) was originally planned to be split and reallocated to PGE DI Staples and PGE DI RHA based on the vendor performing the retrofit, so no sample size is prescribed for this segment. However, this information was not available for the majority of the tracking system records and was left as its own segment.

As discussed, due to lower than expected participation, a number of segments were collapsed for reporting purposes. Table H-4 presents the phone surveys completed by HIM, IOU and Net Program Group. Although the sample was not designed to develop results at the HIM level, they are reported below, and results are noted if there was not sufficient sample size to develop a statistically reliable result.

A total of 2,424 participants were interviewed. As shown above, the targeted number of completes was 3,110, which was based on having unlimited sample to meet the Net Program Group targets. These sample size targets were developed in 2010, before the final number of participants was available. Many of the net program groups did not have sufficient populations to meet the desired sample sizes. As a result, some of the Net Program Groups have been combined. Specifically, the industrial, commercial, and agricultural calculated segments, and the new construction segment were all combined into a single group, and even then, the combined sample is limited.

Table H-4: Net-to-Gross Completed Sample Sizes for Analysis by Net Program Group

Net Program Group	CFL Basic	CFL Reflector	Linear	Delamp	High Bay	Occ Sensors	HIDs	Total
PG&E								
PGE Core/SW Custom	0	0	38	0	0	7	0	**45**
PGE Deemed Ag	0	3	7	1	5	3	0	**19**
PGE Deemed Com	0	11	47	21	57	49	4	**189**
PGE Deemed Ind	0	1	8	6	26	9	0	**50**
PGE LGP East Bay	7	0	66	24	0	9	34	**140**
PGE LGP LGEAR	7	3	16	10	3	5	0	**44**
PGE LGP Marin	16	0	19	0	0	0	4	**39**
PGE LGP Redwood	22	0	14	0	0	4	0	**40**
PGE LGP SF	22	0	69	0	2	7	0	**100**
PGE 3P Other	19	0	52	25	22	13	4	**135**
PGE Energy Fitness	5	0	9	21	16	4	3	**58**
PGE RightLights	50	0	93	0	0	5	8	**156**
PGE SW Partnership	0	1	4	0	0	0	0	**5**
PGE DI Ecology	15	0	32	0	1	5	4	**57**
PGE DI RHA	8	6	26	19	3	1	0	**63**
PGE DI Staples	18	5	19	7	9	1	1	**60**
PGE DI Staples and RHA	3	3	6	3	2	1	0	**18**
PGE DI Synergy	5	2	19	5	0	4	0	**35**
PGE DI TEAA	11	0	15	10	1	1	4	**42**
PG&E Total	**208**	**35**	**559**	**152**	**147**	**128**	**66**	**1,295**
SCE								
SCE Core/SW Custom	0	0	42	0	2	8	3	**55**
SCE Deemed Ag	0	1	4	7	15	1	0	**28**
SCE Deemed Com	0	10	31	22	35	31	7	**136**
SCE Deemed Ind	0	2	48	26	43	17	0	**136**
SCE Direct Install	24	33	81	27	13	16	0	**194**
SCE LGP ELP	0	4	39	10	0	7	3	**63**
SCE LGP Institutional	0	0	10	3	1	4	0	**18**
SCE 3P	4	0	29	14	0	8	1	**56**
SCE 3P Mgmt Affiliates	0	0	6	3	0	2	0	**11**
SCE 3P Preschool	7	0	14	17	0	8	0	**46**
SCE 3P Schools	0	0	3	7	0	2	0	**12**
SCE Total	**35**	**50**	**307**	**136**	**109**	**104**	**14**	**755**
SDG&E								
SDGE Core/SW Custom	2	0	9	0	0	2	0	**13**
SDGE BID	0	0	40	0	0	1	0	**41**
SDGE Deemed COM	8	2	50	14	16	21	2	**113**
SDGE Deemed IND_AG	2	0	12	3	4	5	1	**27**
SDGE Direct Install	24	17	86	2	0	3	0	**132**
SDGE MEC	67	0	0	0	0	0	0	**67**
SDGE Total	**103**	**19**	**197**	**19**	**20**	**32**	**3**	**393**
Grand Total	**346**	**104**	**1,063**	**307**	**276**	**264**	**83**	**2,443**

Table H-5 through Table H-8 present the phone surveys completed for each IOU by HIM, Gross Program Group, and Claim Basis, in which results are disaggregated into sites that have measures that are deemed, small/medium calculated, or large calculated.

Table H-5: NTG Sample Sizes by HIM, Gross Program Group and Claim Basis for PG&E[2]

IOU Gross Program Group		CFL Basic	CFL Reflector	Linear	Delamp	High Bay	Occ Sensors	HIDs	Total
PG&E									
PG&E Custom	Sm/Med Calculated			33			4		**37**
	Large Calculated			5			3		**8**
	Total			**38**			**7**		**45**
PG&E – Total Deemed			**15**	**62**	**28**	**88**	**61**	**4**	**258**
PG&E 3rd Party	Deemed	17		43	25	22	12		**119**
	Sm/Med Calculated	1		6				4	**11**
	Large Calculated	1		3			1		**5**
	Total	**19**		**52**	**25**	**22**	**13**	**4**	**135**
PG&E Local Govt Partner	Deemed	123	20	273	99	36	37	42	**630**
	Sm/Med Calculated	64		128		1	9	14	**216**
	Large Calculated	2		6			1	2	**11**
	Total	**189**	**20**	**407**	**99**	**37**	**47**	**58**	**857**
PG&E Total	**Deemed**	**140**	**35**	**378**	**152**	**146**	**110**	**46**	**1,007**
	Sm/Med Calculated	**65**		**167**		**1**	**13**	**18**	**264**
	Large Calculated	**3**		**14**			**5**	**2**	**24**
PG&E Total		**208**	**35**	**559**	**152**	**147**	**128**	**66**	**1,295**

[2] The Sm/Med Calculated segment is defined as those participants whose project level savings is less than 250,000 kWh across all the calculated measures for that project, whereas the Large Calculated segment has savings greater than or equal to 250,000 kWh.

Table H-6: NTG Sample Sizes by HIM, Gross Program Group and Claim Basis for SCE

IOU Gross Program Group		CFL Basic	CFL Reflector	Linear	Delamp	High Bay	Occ Sensors	HIDs	Total
SCE									
SCE Custom	Sm/Med Calculated			29			5	1	**35**
	Large Calculated			13		2	3	2	**20**
	Total			**42**		**2**	**8**	**3**	**55**
SCE – Total Direct Install		**24**	**33**	**81**	**27**	**13**	**16**		**194**
SCE – Total Deemed			**13**	**83**	**55**	**93**	**49**	**7**	**300**
SCE 3rd Party	Deemed	11		43	41		17	1	**113**
	Sm/Med Calculated			4			1		**5**
	Large Calculated			5			2		**7**
	Total	**11**		**52**	**41**		**20**	**1**	**125**
SCE Local Govt Partner	Deemed		4	36	13	1	8	2	**64**
	Sm/Med Calculated			11			1	1	**13**
	Large Calculated			2			2		**4**
	Total		**4**	**49**	**13**	**1**	**11**	**3**	**81**
SCE Total	**Deemed**	**35**	**50**	**243**	**136**	**107**	**90**	**10**	**671**
	Sm/Med Calculated			**44**			**7**	**2**	**53**
	Large Calculated			**20**		**2**	**7**	**2**	**31**
SCE Total		**35**	**50**	**307**	**136**	**109**	**104**	**14**	**755**

Table H-7: NTG Sample Sizes by HIM, Gross Program Group and Claim Basis for SDG&E

IOU Gross Program Group		CFL Basic	CFL Reflector	Linear	Delamp	High Bay	Occ Sensors	HIDs	Total
SDG&E									
SDG&E Custom	Sm/Med Calculated	2		7			2		**11**
	Large Calculated			2					**2**
	Total	**2**		**9**			**2**		**13**
SDG&E – Direct Install		**24**	**17**	**86**	**2**		**3**		**132**
SDG&E – Deemed		**10**	**2**	**62**	**17**	**20**	**26**	**3**	**140**
SDG&E LGP/ 3rd Party	Deemed	67							**67**
	Sm/Med Calculated			32			1		**33**
	Large Calculated			8					**8**
	Total	**67**		**40**			**1**		**108**
SDG&E Total	**Deemed**	**101**	**19**	**148**	**19**	**20**	**29**	**3**	**339**
	Sm/Med Calculated	**2**		**39**			**3**		**44**
	Large Calculated			**10**					**10**
SDG&E Total		**103**	**19**	**197**	**19**	**20**	**32**	**3**	**393**

Table H-8: NTG Sample Sizes by HIM, Gross Program Group and Claim Basis, Statewide

Gross Program Group		CFL Basic	CFL Reflector	Linear	Delamp	High Bay	Occ Sensors	HIDs	Total
Statewide									
Statewide Custom	Sm/Med Calculated	2		69			11	1	**83**
	Large Calculated			20		2	6	2	**30**
	Total	**2**		**89**		**2**	**17**	**3**	**113**
Statewide – Direct Install		**48**	**50**	**167**	**29**	**13**	**19**		**326**
Statewide – Deemed		**10**	**30**	**207**	**100**	**201**	**136**	**14**	**698**
Statewide 3rd Party	Deemed	95		86	66	22	29	1	**299**
	Sm/Med Calculated	1		42			2	4	**49**
	Large Calculated	1		16			3		**20**
	Total	**97**		**144**	**66**	**22**	**34**	**5**	**368**
Statewide Local Govt Partner	Deemed	123	24	309	112	37	45	44	**694**
	Sm/Med Calculated	64		139		1	10	15	**229**
	Large Calculated	2		8			3	2	**15**
	Total	**189**	**24**	**456**	**112**	**38**	**58**	**61**	**938**
Statewide Total	**Deemed**	**276**	**104**	**769**	**307**	**273**	**229**	**59**	**2,017**
	Sm/Med Calculated	**67**		**250**		**1**	**23**	**20**	**361**
	Large Calculated	**3**		**44**		**2**	**12**	**4**	**65**
Statewide Total		**346**	**104**	**1,063**	**307**	**276**	**264**	**83**	**2,443**

Table H-9 presents the phone surveys completed for the participants that have the dual baseline approach applied, which include linear fluorescents, high bay fluorescents, delamping and HIDs. Sample sizes are presented by HIM, IOU, Gross Program Group, and whether participants are classified as ER or ROB.

Table H-9: NTG Sample Sizes by HIM, IOU, Gross Program Group and ER versus ROB

Gross Program Group	ER or ROB	Linear	Delamp	High Bay	HIDs	Total
PG&E Deemed	ER	20	22	43	4	89
	ROB	42	6	45		93
PG&E Custom	ER	25				**25**
	ROB	13				**13**
PG&E 3P	ER	30	20	14		**64**
	ROB	22	5	8	4	**39**
PG&E LGP/DI	ER	166	82	15	25	**288**
	ROB	241	17	22	33	**313**
PG&E TOTAL	**ER**	**241**	**124**	**72**	**29**	**466**
	ROB	**318**	**28**	**75**	**37**	**458**
SCE DI	ER	37	26	6		**69**
	ROB	44	1	7		**52**
SCE Deemed	ER	30	44	40	5	**119**
	ROB	53	11	53	2	**119**
SCE Custom	ER	27			3	**30**
	ROB	15		2		**17**
SCE 3P	ER	22	33		1	**56**
	ROB	30	8			**38**
SCE LGP	ER	24	11			**35**
	ROB	25	2	1	3	**31**
SCE TOTAL	**ER**	**140**	**114**	**46**	**9**	**309**
	ROB	**167**	**22**	**63**	**5**	**257**
SDG&E DI	ER	37	1			**38**
	ROB	37	1			**38**
SDG&E Deemed	ER	40	15	8	1	**64**
	ROB	22	2	12	2	**38**
SDG&E Custom	ER					
	ROB	9				**9**
SDG&E 3P/LGP	ER	25				**25**
	ROB	15				**15**
SDG&E TOTAL	**ER**	**114**	**16**	**8**	**1**	**139**
	ROB	**83**	**3**	**12**	**2**	**100**
Statewide DI	ER	86	27	6		**119**
	ROB	81	2	7		**90**
Statewide Deemed	ER	90	81	91	10	**272**
	ROB	117	19	110	4	**250**
Statewide Custom	ER	52			3	**55**
	ROB	37		2		**39**
Statewide 3P	ER	77	53	14	1	**145**
	ROB	67	13	8	4	**92**
Statewide LGP	ER	190	93	15	25	**323**
	ROB	266	19	23	36	**344**
Statewide	**ER**	**495**	**254**	**126**	**39**	**914**
	ROB	**568**	**53**	**150**	**44**	**815**

NTGR Results

Table H-10 and Table H-11 present NTGRs by HIM and Net Program Group, weighted by ex-post kWh and kW savings, respectively. There is not a tremendous amount of variation across programs and measures, and the majority of NTGR values are within 20% of the overall statewide average. Most of the values outside of this range correspond to segments with low sample sizes, so values corresponding to sample sizes of six or less have been italicized.

Comparing NTGRs by HIM, there is little variation at the statewide and IOU levels. The HIM level NTGRs weighted by kWh savings range from 0.59 to 0.65 at the statewide level, with the exception of HIDs, which are at 0.53. Across IOUs, there is also little variation overall with IOU level NTGRs of 0.60 for PG&E, 0.61 for SCE and 0.58 for SDG&E.

The most significant variation occurs across gross program groups. But even with this comparison, there is not that much variation. Of the 36 Net Program Groups, only nine have NTGRs that differ from their IOU average by more than 10%. There does appear to be some correlation among NTGRs across the program types. For example, the Core/Statewide Custom programs tend to have lower NTGRs and the Direct Install programs tend to have higher NTGRs. Deemed programs tend to have NTGRs very close to the overall statewide average. The LGP and 3P programs have a bit more variation across program, some with higher and some with lower than average NTGRs.

Table H-10: NTGRs by Net Program Group, Weighted by kWh Savings

Net Program Group	CFL Basic	CFL Reflector	Linear	Delamp	High Bay	Occ Sensors	HIDs	Total
PG&E								
PGE 3P Other	0.62		0.66	0.52	0.65	0.50	*0.50*	**0.61**
PGE Core/SW Custom			0.46			0.59		**0.48**
PGE Deemed Ag		*0.59*	0.71	*0.76*	*0.57*	*0.61*		**0.59**
PGE Deemed Com		0.43	0.59	0.62	0.65	0.60	*0.61*	**0.62**
PGE Deemed Ind		*0.47*	0.53	*0.54*	0.50	0.61		**0.51**
PGE DI Ecology	0.68		0.54		*0.21*	*0.44*	*0.60*	**0.57**
PGE DI RHA	0.67	*0.59*	0.73	0.54	*0.77*	*0.67*		**0.70**
PGE DI Staples	0.64	*0.56*	0.63	0.64	0.67	*0.26*	*0.28*	**0.61**
PGE DI Staples and RHA	*0.62*	*0.74*	*0.72*	*0.66*	*0.56*	*0.76*		**0.68**
PGE DI Synergy	*0.54*	*0.59*	0.69	*0.68*		*0.66*		**0.64**
PGE DI TEAA	0.63		0.51	0.58	*0.65*	*0.55*	*0.50*	**0.55**
PGE Energy Fitness	*0.87*		0.62	0.64	0.62	*0.78*	*0.69*	**0.64**
PGE LGP East Bay	0.58		0.63	0.64		0.56	0.68	**0.65**
PGE LGP LGEAR	0.57	*0.50*	0.60	0.62	*0.59*	*0.40*		**0.58**
PGE LGP Marin	0.63		0.58				*0.70*	**0.60**
PGE LGP Redwood	0.59		0.63			*0.73*		**0.64**
PGE LGP SF	0.47		0.64		*0.49*	0.60		**0.57**
PGE RightLights	0.62		0.64			*0.63*	0.58	**0.63**
PGE SW Partnership		*0.30*	*0.54*					***0.54***
PG&E Average	**0.61**	**0.56**	**0.59**	**0.61**	**0.61**	**0.59**	**0.63**	**0.60**
SCE								
SCE 3P	*0.54*		0.49	0.60		0.62	*0.68*	**0.52**
SCE 3P Mgmt Affiliates			*0.66*	*0.46*		*0.53*		**0.57**
SCE 3P Preschool	0.71		0.57	0.75		0.76		**0.69**
SCE 3P Schools			*0.71*	0.67		*0.54*		**0.66**
SCE Core/SW Custom			0.56		*0.29*	0.30	*0.35*	**0.50**
SCE Deemed Ag		*0.62*	*0.44*	0.60	0.66	*0.83*		**0.63**
SCE Deemed Com		0.56	0.56	0.59	0.62	0.60	0.55	**0.60**
SCE Deemed Ind		*0.67*	0.64	0.64	0.63	0.60		**0.63**
SCE Direct Install	0.59	0.65	0.65	0.73	0.82	0.69		**0.69**
SCE LGP ELP		*0.69*	0.51	0.69		0.20	*0.36*	**0.53**
SCE LGP Institutional			0.65	*0.48*	*0.73*	*0.42*		**0.62**
SCE Average	**0.60**	**0.64**	**0.59**	**0.66**	**0.62**	**0.59**	**0.50**	**0.61**
SDG&E								
SDGE BID			0.57			*0.62*		**0.57**
SDGE Core/SW Custom	*0.26*		0.65			*0.59*		**0.61**
SDGE Deemed COM	0.57	*0.54*	0.54	0.64	0.67	0.63	*0.20*	**0.55**
SDGE Deemed IND_AG	*0.65*		0.53	*0.55*	*0.64*	*0.63*	*0.65*	**0.59**
SDGE Direct Install	0.61	0.63	0.63	*0.74*		*0.79*		**0.64**
SDGE MEC	0.62							**0.62**
SDGE Average	**0.56**	**0.61**	**0.58**	**0.65**	**0.67**	**0.63**	***0.20***	**0.58**
Grand Average	**0.60**	**0.61**	**0.59**	**0.65**	**0.62**	**0.59**	**0.53**	**0.61**

* Italics indicate segment level results that are supported by small sample sizes of 6 or less.

Table H-11: NTGRs by Net Program Group, Weighted by kW Savings

Net Program Group	CFL Basic	CFL Reflector	Linear	Delamp	High Bay	Occ Sensors	HIDs	Total
PG&E								
PGE 3P Other	0.63		0.65	0.47	0.64	0.50	*0.50*	**0.59**
PGE Core/SW Custom			0.44			0.51		**0.44**
PGE Deemed Ag		*0.60*	0.72	*0.76*	*0.57*	*0.61*		**0.60**
PGE Deemed Com		0.45	0.58	0.60	0.65	0.60	*0.60*	**0.62**
PGE Deemed Ind		*0.47*	0.52	*0.53*	0.51	0.60		**0.52**
PGE DI Ecology	0.69		0.52		*0.21*	*0.44*	*0.65*	**0.56**
PGE DI RHA	0.67	*0.58*	0.73	0.54	*0.76*	*0.67*		**0.70**
PGE DI Staples	0.63	*0.57*	0.62	0.65	0.68	*0.26*	*0.28*	**0.61**
PGE DI Staples and RHA	*0.61*	*0.74*	*0.72*	*0.67*	*0.39*			**0.67**
PGE DI Synergy	*0.52*	*0.59*	0.69	*0.68*		*0.66*		**0.65**
PGE DI TEAA	0.60		0.49	0.56	*0.65*	*0.55*	*0.50*	**0.54**
PGE Energy Fitness	*0.82*		0.62	0.65	0.62	*0.76*	*0.69*	**0.64**
PGE LGP East Bay	0.56		0.63	0.65		0.55	0.68	**0.65**
PGE LGP LGEAR	0.55	*0.50*	0.60	0.61	*0.59*	*0.41*		**0.58**
PGE LGP Marin	0.63		0.58				*0.70*	**0.60**
PGE LGP Redwood	0.59		0.63			*0.74*		**0.65**
PGE LGP SF	0.44		0.64		*0.46*	0.60		**0.55**
PGE RightLights	0.61		0.63			*0.63*	0.60	**0.63**
PGE SW Partnership		*0.30*	*0.52*					***0.52***
PG&E Average	**0.59**	**0.57**	**0.59**	**0.60**	**0.61**	**0.58**	**0.62**	**0.60**
SCE								
SCE 3P	*0.54*		0.49	0.66		0.67	*0.68*	**0.58**
SCE 3P Mgmt Affiliates			*0.65*	*0.46*		*0.53*		**0.55**
SCE 3P Preschool	0.71		0.58	0.75		0.69		**0.69**
SCE 3P Schools			*0.69*	0.49		*0.53*		**0.53**
SCE Core/SW Custom			0.58		*0.30*	0.41	*0.36*	**0.53**
SCE Deemed Ag			*0.44*	0.60	0.67	*0.83*		**0.64**
SCE Deemed Com		0.54	0.56	0.59	0.63	0.65	0.45	**0.61**
SCE Deemed Ind		*0.67*	0.64	0.62	0.63	0.63		**0.63**
SCE Direct Install	0.61	0.64	0.65	0.73	0.85	0.70		**0.70**
SCE LGP ELP		*0.69*	0.51	0.69		0.21	*0.35*	**0.47**
SCE LGP Institutional			0.66	*0.50*	*0.73*	*0.45*		**0.63**
SCE Average	**0.61**	**0.64**	**0.60**	**0.65**	**0.64**	**0.62**	**0.44**	**0.62**
SDG&E								
SDGE BID			0.60			*0.62*		**0.60**
SDGE Core/SW Custom	*0.26*		0.64			*0.70*		**0.57**
SDGE Deemed COM	0.66	*0.54*	0.54	0.50	0.67	0.64	*0.20*	**0.55**
SDGE Deemed IND_AG	*0.66*		0.53	*0.55*	*0.65*	*0.67*	*0.65*	**0.60**
SDGE Direct Install	0.61	0.62	0.63	*0.74*		*0.80*		**0.64**
SDGE MEC	0.62							**0.62**
SDGE Average	**0.54**	**0.60**	**0.60**	**0.56**	**0.67**	**0.65**	***0.21***	**0.59**
Grand Average	**0.59**	**0.61**	**0.60**	**0.63**	**0.63**	**0.61**	**0.51**	**0.61**

* Italics indicate segment level results that are supported by small sample sizes of 6 or less.

Table H-12 through Table H-19 present NTGRs for each HIM by Net Program Group, and include the sample size, the NTGR and the corresponding relative precision for results weighted by ex-post kWh and kW, respectively. Table H-19 presents the statewide level results. Overall, the achieved relative precisions met or beat the target level of precisions in the sample design. The only exception was for the SDG&E Core/Statewide Custom segment, where participation was limited and the desired sample sizes could not be achieved.

Table H-12: CFL Basic NTGRs by Net Program Group

Net Program Group	n	NTGR kWh	Relative Precision	NTGR kW	Relative Precision
PG&E					
PGE 3P	19	0.62	5%	0.63	5%
PGE DI Ecology	15	0.68	9%	0.69	8%
PGE DI RHA	8	0.67	5%	0.67	5%
PGE DI Staples	18	0.64	8%	0.63	8%
PGE DI Staples/RHA **	3	0.62	18%	0.61	19%
PGE DI Synergy	5	0.54	41%	0.52	42%
PGE DI TEAA	11	0.63	14%	0.60	16%
PGE Energy Fitness	5	0.87	13%	0.82	21%
PGE LGP East Bay	7	0.58	14%	0.56	15%
PGE LGP LGEAR	7	0.57	25%	0.55	26%
PGE LGP Marin	16	0.63	15%	0.63	15%
PGE LGP Redwood	22	0.59	8%	0.59	8%
PGE LGP SF	22	0.47	10%	0.44	10%
PGE RightLights	50	0.62	4%	0.61	5%
PG&E Total	**208**	**0.61**	**3%**	**0.59**	**3%**
SCE					
SCE 3P	4	0.54	18%	0.54	18%
SCE 3P Preschool	7	0.71	9%	0.71	9%
SCE Direct Install	24	0.59	9%	0.61	9%
SCE Total	**35**	**0.60**	**7%**	**0.61**	**7%**
SDG&E					
SDGE Core/Statewide Custom	2	0.26	132%	0.26	130%
SDGE Deemed COM	8	0.57	23%	0.66	7%
SDGE Deemed IND_AG	2	0.65	16%	0.66	14%
SDGE Direct Install	24	0.61	7%	0.61	8%
SDGE MEC	67	0.62	5%	0.62	5%
SDGE Total	**103**	**0.56**	**5%**	**0.54**	**6%**
Grand Total	**346**	**0.60**	**2%**	**0.59**	**2%**

Table H-13: CFL Reflector NTGRs by Net Program Group

Net Program Group	n	NTGR kWh	Relative Precision	NTGR kW	Relative Precision
PG&E					
PGE Deemed Ag	3	0.59	19%	0.60	15%
PGE Deemed Com	11	0.43	20%	0.45	17%
PGE Deemed Ind	1	0.47		0.47	
PGE DI RHA	6	0.59	17%	0.58	17%
PGE DI Staples	5	0.56	8%	0.57	7%
PGE DI Staples/RHA **	3	0.74	17%	0.74	16%
PGE DI Synergy	2	0.59	101%	0.59	101%
PGE LGP LGEAR	3	0.50	42%	0.50	42%
PGE SW Partnership	1	0.30		0.30	
PG&E Total	**35**	**0.56**	**5%**	**0.57**	**5%**
SCE					
SCE Deemed Ag	1	0.62			
SCE Deemed Com	10	0.60	12%	0.54	10%
SCE Deemed Ind	2	0.67	18%	0.67	16%
SCE Direct Install	33	0.65	4%	0.64	4%
SCE LGP ELP	4	0.69	30%	0.69	29%
SCE Total	**50**	**0.64**	**3%**	**0.64**	**3%**
SDG&E					
SDGE Core/Statewide Custom	2	0.54	66%	0.54	64%
SDGE Direct Install	17	0.63	8%	0.62	8%
SDGE Total	**19**	**0.61**	**7%**	**0.60**	**7%**
Grand Total	**104**	**0.61**	**3%**	**0.61**	**3%**

Table H-14: Linear Fluorescent NTGRs by Net Program Group

Net Program Group	n	NTGR kWh	Relative Precision	NTGR kW	Relative Precision
PG&E					
PGE 3P	52	0.66	3%	0.65	4%
PGE Core/Statewide Custom	38	0.46	9%	0.44	10%
PGE Deemed Ag	7	0.71	8%	0.72	7%
PGE Deemed Com	47	0.59	7%	0.58	7%
PGE Deemed Ind	8	0.53	21%	0.52	20%
PGE DI Ecology	32	0.54	12%	0.52	13%
PGE DI RHA	26	0.73	5%	0.73	5%
PGE DI Staples	19	0.63	7%	0.62	9%
PGE DI Staples/RHA **	6	0.72	10%	0.72	10%
PGE DI Synergy	19	0.69	9%	0.69	9%
PGE DI TEAA	15	0.51	9%	0.49	9%
PGE Energy Fitness	9	0.62	6%	0.62	6%
PGE LGP East Bay	66	0.63	5%	0.63	5%
PGE LGP LGEAR	16	0.60	10%	0.60	9%
PGE LGP Marin	19	0.58	8%	0.58	8%
PGE LGP Redwood	14	0.63	11%	0.63	11%
PGE LGP SF	69	0.64	4%	0.64	4%
PGE RightLights	93	0.64	4%	0.63	4%
PGE SW Partnership	4	0.54	15%	0.52	18%
PG&E Total	**559**	**0.59**	**2%**	**0.59**	**2%**
SCE					
SCE 3P	29	0.49	12%	0.49	12%
SCE 3P Mgmt Affiliates	6	0.66	10%	0.65	10%
SCE 3P Preschool	14	0.57	15%	0.58	14%
SCE 3P Schools	3	0.71	23%	0.69	20%
SCE Core/Statewide Custom	42	0.56	7%	0.58	7%
SCE Deemed Ag	4	0.44	34%	0.44	34%
SCE Deemed Com	31	0.56	10%	0.56	9%
SCE Deemed Ind	48	0.64	5%	0.64	5%
SCE Direct Install	81	0.65	4%	0.65	4%
SCE LGP ELP	39	0.51	9%	0.51	9%
SCE LGP Institutional	10	0.65	11%	0.66	10%
SCE Total	**307**	**0.59**	**3%**	**0.60**	**2%**
SDG&E					
SDGE BID	40	0.57	6%	0.60	5%
SDGE Core/Statewide Custom	9	0.65	18%	0.64	20%
SDGE Deemed COM	50	0.54	6%	0.54	6%
SDGE Deemed IND_AG	12	0.53	10%	0.53	9%
SDGE Direct Install	86	0.63	4%	0.63	4%
SDGE Total	**197**	**0.58**	**3%**	**0.60**	**3%**
Grand Total	**1,063**	**0.59**	**1%**	**0.60**	**1%**

Table H-15: Delamping NTGRs by Net Program Group

Net Program Group	n	NTGR kWh	Relative Precision	NTGR kW	Relative Precision
PG&E					
PGE 3P	25	0.52	11%	0.47	15%
PGE Deemed Ag	1	0.76		0.76	
PGE Deemed Com	21	0.62	7%	0.60	8%
PGE Deemed Ind	6	0.54	25%	0.53	27%
PGE DI RHA	19	0.54	14%	0.54	14%
PGE DI Staples	7	0.64	13%	0.65	11%
PGE DI Staples/RHA **	3	0.66	21%	0.67	17%
PGE DI Synergy	5	0.68	16%	0.68	17%
PGE DI TEAA	10	0.58	10%	0.56	8%
PGE Energy Fitness	21	0.64	7%	0.65	6%
PGE LGP East Bay	24	0.64	7%	0.65	6%
PGE LGP LGEAR	10	0.62	9%	0.61	10%
PG&E Total	**152**	**0.61**	**3%**	**0.60**	**3%**
SCE					
SCE 3P	14	0.60	10%	0.66	9%
SCE 3P Mgmt Affiliates	3	0.46	83%	0.46	84%
SCE 3P Preschool	17	0.75	7%	0.75	7%
SCE 3P Schools	7	0.67	19%	0.49	31%
SCE Deemed Ag	7	0.60	15%	0.60	15%
SCE Deemed Com	22	0.59	9%	0.59	8%
SCE Deemed Ind	26	0.64	8%	0.62	9%
SCE Direct Install	27	0.73	5%	0.73	5%
SCE LGP ELP	10	0.69	6%	0.69	6%
SCE LGP Institutional	3	0.48	28%	0.50	26%
SCE Total	**136**	**0.66**	**3%**	**0.65**	**3%**
SDG&E					
SDGE Deemed COM	14	0.64	13%	0.50	12%
SDGE Deemed IND_AG	3	0.55	27%	0.55	27%
SDGE Direct Install	2	0.74	69%	0.74	69%
SDGE Total	**19**	**0.65**	**10%**	**0.56**	**11%**
Grand Total	**307**	**0.65**	**2%**	**0.63**	**2%**

Table H-16: High Bay NTGRs by Net Program Group

Net Program Group	n	NTGR kWh	Relative Precision	NTGR kW	Relative Precision
PG&E					
PGE 3P	22	0.65	9%	0.64	9%
PGE Deemed Ag	5	0.57	12%	0.57	12%
PGE Deemed Com	57	0.65	4%	0.65	4%
PGE Deemed Ind	26	0.50	12%	0.51	12%
PGE DI Ecology	1	0.21		0.21	
PGE DI RHA	3	0.77	25%	0.76	27%
PGE DI Staples	9	0.67	9%	0.68	10%
PGE DI Staples/RHA **	2	0.56	272%	0.39	168%
PGE DI TEAA	1	0.65		0.65	
PGE Energy Fitness	16	0.62	6%	0.62	5%
PGE LGP LGEAR	3	0.59	51%	0.59	51%
PGE LGP SF	2	0.49	180%	0.46	150%
PG&E Total	**147**	**0.61**	**3%**	**0.61**	**3%**
SCE					
SCE Core/Statewide Custom	2	0.29	112%	0.30	100%
SCE Deemed Ag	15	0.66	6%	0.67	6%
SCE Deemed Com	35	0.62	7%	0.63	7%
SCE Deemed Ind	43	0.63	6%	0.63	6%
SCE Direct Install	13	0.82	8%	0.85	8%
SCE LGP Institutional	1	0.73		0.73	
SCE Total	**109**	**0.62**	**4%**	**0.64**	**4%**
SDG&E					
SDGE Deemed COM	16	0.67	10%	0.67	10%
SDGE Deemed IND_AG	4	0.64	32%	0.65	32%
SDGE Total	**20**	**0.67**	**9%**	**0.67**	**9%**
Grand Total	**276**	**0.62**	**3%**	**0.63**	**2%**

Table H-17: Occupancy Sensor NTGRs by Net Program Group

Net Program Group	n	NTGR kWh	Relative Precision	NTGR kW	Relative Precision
PG&E					
PGE 3P	13	0.50	7%	0.50	7%
PGE Core/Statewide Custom	7	0.59	30%	0.51	19%
PGE Deemed Ag	3	0.61	18%	0.61	16%
PGE Deemed Com	49	0.60	8%	0.60	9%
PGE Deemed Ind	9	0.61	9%	0.60	11%
PGE DI Ecology	5	0.44	24%	0.44	24%
PGE DI RHA	1	0.67		0.67	
PGE DI Staples	1	0.26		0.26	
PGE DI Staples/RHA **	1	0.76			
PGE DI Synergy	4	0.66	17%	0.66	17%
PGE DI TEAA	1	0.55		0.55	
PGE Energy Fitness	4	0.78	13%	0.76	17%
PGE LGP East Bay	9	0.56	19%	0.55	19%
PGE LGP LGEAR	5	0.40	31%	0.41	32%
PGE LGP Redwood	4	0.73	17%	0.74	17%
PGE LGP SF	7	0.60	13%	0.60	13%
PGE RightLights	5	0.63	10%	0.63	10%
PG&E Total	**128**	**0.59**	**5%**	**0.58**	**5%**
SCE					
SCE 3P	8	0.62	18%	0.67	19%
SCE 3P Mgmt Affiliates	2	0.53	99%	0.53	99%
SCE 3P Preschool	8	0.76	15%	0.69	22%
SCE 3P Schools	2	0.54	60%	0.53	
SCE Core/Statewide Custom	8	0.30	48%	0.41	47%
SCE Deemed Ag	1	0.83		0.83	
SCE Deemed Com	31	0.60	8%	0.65	6%
SCE Deemed Ind	17	0.60	9%	0.63	8%
SCE Direct Install	16	0.69	5%	0.70	5%
SCE LGP ELP	7	0.20	58%	0.21	41%
SCE LGP Institutional	4	0.42	21%	0.45	28%
SCE Total	**104**	**0.59**	**5%**	**0.62**	**4%**
SDG&E					
SDGE BID	1	0.62		0.62	
SDGE Core/Statewide Custom	2	0.59	192%	0.70	
SDGE Deemed COM	21	0.63	7%	0.64	6%
SDGE Deemed IND_AG	5	0.63	17%	0.67	9%
SDGE Direct Install	3	0.79	24%	0.80	20%
SDGE Total	**32**	**0.63**	**6%**	**0.65**	**5%**
Grand Total	**264**	**0.59**	**3%**	**0.61**	**3%**

Table H-18: HID NTGRs by Net Program Group

Net Program Group	n	NTGR kWh	Relative Precision	NTGR kW	Relative Precision
PG&E					
PGE 3P	4	0.50	45%	0.50	45%
PGE Deemed Com	4	0.61	20%	0.60	22%
PGE DI Ecology	4	0.60	18%	0.65	15%
PGE DI Staples	1	0.28		0.28	
PGE DI TEAA	4	0.50	9%	0.50	14%
PGE Energy Fitness	3	0.69	19%	0.69	17%
PGE LGP East Bay	34	0.68	7%	0.68	7%
PGE LGP Marin	4	0.70	5%	0.70	5%
PGE RightLights	8	0.58	20%	0.60	16%
PG&E Total	**66**	**0.63**	**6%**	**0.62**	**5%**
SCE					
SCE 3P	1	0.68		0.68	
SCE Core/Statewide Custom	3	0.35	4%	0.36	4%
SCE Deemed Com	7	0.55	29%	0.45	39%
SCE LGP ELP	3	0.36	9%	0.35	10%
SCE Total	**14**	**0.50**	**19%**	**0.44**	**23%**
SDG&E					
SDGE Deemed COM	2	0.20	132%	0.20	205%
SDGE Deemed IND_AG	1	0.65		0.65	
SDGE Total	**3**	**0.20**	**58%**	**0.21**	**78%**
Grand Total	**83**	**0.53**	**8%**	**0.51**	**8%**

Table H-19: Total NTGRs by Net Program Group

Net Program Group	n	NTGR kWh	Relative Precision	NTGR kW	Relative Precision
PG&E					
PGE 3P	135	0.61	3%	0.59	4%
PGE Core/Statewide Custom	45	0.48	9%	0.44	9%
PGE Deemed Ag	19	0.59	5%	0.60	5%
PGE Deemed Com	189	0.62	3%	0.62	3%
PGE Deemed Ind	50	0.51	8%	0.52	8%
PGE DI Ecology	57	0.57	8%	0.56	8%
PGE DI RHA	63	0.70	4%	0.70	4%
PGE DI Staples	60	0.61	4%	0.61	4%
PGE DI Staples/RHA **	18	0.68	8%	0.67	9%
PGE DI Synergy	35	0.64	7%	0.65	7%
PGE DI TEAA	42	0.55	5%	0.54	5%
PGE Energy Fitness	58	0.64	3%	0.64	3%
PGE LGP East Bay	140	0.65	3%	0.65	3%
PGE LGP LGEAR	44	0.58	6%	0.58	6%
PGE LGP Marin	39	0.60	6%	0.60	6%
PGE LGP Redwood	40	0.64	6%	0.65	6%
PGE LGP SF	100	0.57	4%	0.55	5%
PGE RightLights	156	0.63	3%	0.63	3%
PGE SW Partnership	5	0.54	12%	0.52	14%
PG&E Total	**1,295**	**0.60**	**1%**	**0.60**	**1%**
SCE					
SCE 3P	56	0.52	8%	0.58	8%
SCE 3P Mgmt Affiliates	11	0.57	15%	0.55	14%
SCE 3P Preschool	46	0.69	6%	0.69	6%
SCE 3P Schools	12	0.66	12%	0.53	11%
SCE Core/Statewide Custom	55	0.50	8%	0.53	8%
SCE Deemed Ag	28	0.63	7%	0.64	7%
SCE Deemed Com	136	0.60	4%	0.61	4%
SCE Deemed Ind	136	0.63	3%	0.63	3%
SCE Direct Install	194	0.69	2%	0.70	2%
SCE LGP ELP	63	0.53	8%	0.47	10%
SCE LGP Institutional	18	0.62	9%	0.63	9%
SCE Total	**755**	**0.61**	**2%**	**0.62**	**2%**
SDG&E					
SDGE BID	41	0.57	6%	0.60	5%
SDGE Core/Statewide Custom	13	0.61	17%	0.57	21%
SDGE Deemed COM	113	0.55	6%	0.55	5%
SDGE Deemed IND_AG	27	0.59	7%	0.60	7%
SDGE Direct Install	132	0.64	3%	0.64	3%
SDGE MEC	67	0.62	5%	0.62	5%
SDGE Total	**393**	**0.58**	**2%**	**0.59**	**2%**
Grand Total	**2,443**	**0.61**	**1%**	**0.61**	**1%**

Table H-20 compares the ex-ante and ex-post NTGRs by Net Program Group. Overall, at the statewide and IOU levels, the ex-ante NTGRs are more than a quarter larger than the ex-post values.

Table H-20: Comparison of Ex-ante and Ex-post NTGRs by Net Program Group, Weighted by kWh and kW Savings

Net Program Group	N	Ex-Ante NTGR kWh	Ex-Post NTGR kWh	Ex-Ante NTGR kW	Ex-Post NTGR kW
PG&E					
PGE 3P Other	135	0.78	0.61	0.78	0.59
PGE Core/SW Custom	45	0.71	0.48	0.70	0.44
PGE Deemed Ag	19	0.80	0.59	0.80	0.60
PGE Deemed Com	189	0.79	0.62	0.79	0.62
PGE Deemed Ind	50	0.78	0.51	0.79	0.52
PGE DI Ecology	57	0.79	0.57	0.78	0.56
PGE DI RHA	63	0.78	0.70	0.78	0.70
PGE DI Staples	60	0.70	0.61	0.70	0.61
PGE DI Staples and RHA*	18	0.71	0.68	0.70	0.67
PGE DI Synergy	35	0.70	0.64	0.70	0.65
PGE DI TEAA	42	0.79	0.55	0.79	0.54
PGE Energy Fitness	58	0.77	0.64	0.77	0.64
PGE LGP East Bay	140	0.70	0.65	0.70	0.65
PGE LGP LGEAR	44	0.73	0.58	0.74	0.58
PGE LGP Marin	39	0.70	0.60	0.70	0.60
PGE LGP Redwood	40	0.70	0.64	0.70	0.65
PGE LGP SF	100	0.70	0.57	0.70	0.55
PGE RightLights	156	0.78	0.63	0.78	0.63
PGE SW Partnership	5	0.64	0.54	0.64	0.52
PG&E Total	**1,295**	**0.76**	**0.60**	**0.76**	**0.60**
SCE					
SCE 3P	56	0.73	0.52	0.77	0.58
SCE 3P Mgmt Affiliates	11	0.80	0.57	0.82	0.55
SCE 3P Preschool	46	0.85	0.69	0.85	0.69
SCE 3P Schools	12	0.85	0.66	0.85	0.53
SCE Core/SW Custom	55	0.66	0.50	0.66	0.53
SCE Deemed Ag	28	0.79	0.63	0.78	0.64
SCE Deemed Com	136	0.79	0.60	0.79	0.61
SCE Deemed Ind	136	0.79	0.63	0.78	0.63
SCE Direct Install	194	0.85	0.69	0.85	0.70
SCE LGP ELP	63	0.77	0.53	0.80	0.47
SCE LGP Institutional	18	0.69	0.62	0.69	0.63
SCE Total	**755**	**0.79**	**0.61**	**0.80**	**0.62**
SDG&E					
SDGE BID	41	0.64	0.57	0.64	0.60
SDGE Core/SW Custom	13	0.67	0.61	0.68	0.57
SDGE Deemed COM	113	0.79	0.55	0.79	0.55
SDGE Deemed IND_AG	27	0.79	0.59	0.79	0.60
SDGE Direct Install	132	0.82	0.64	0.82	0.64
SDGE MEC	67	0.85	0.62	0.85	0.62
SDGE Total	**393**	**0.75**	**0.58**	**0.75**	**0.59**
Grand Total	**2,443**	**0.78**	**0.61**	**0.78**	**0.61**

Table H-21 through Table H-28 present the resulting NTGRs for each IOU by HIM, Gross Program Group, and Claim Basis. For Claim Basis, results are disaggregated based on whether measures are deemed, small/medium calculated or large calculated. The results have been weighted by kWh and kW savings. As expected, the large calculated sites tend to have the lowest NTGRs and the deemed sites tend to have the greatest NTGRs. To help identify results that are supported by small sample sizes, results corresponding to sample sizes of six or less have been italicized.

Table H-21: NTGRs by Gross Program Group and Claim Basis for PG&E, Weighted by kWh Savings

IOU / Gross Program Group		CFL Basic	CFL Reflector	Linear	Delamp	High Bay	Occ Sensors	HIDs	Total
PG&E									
PG&E Custom	Sm/Med Calculated			0.47			*0.79*		**0.49**
	Large Calculated			*0.44*			*0.45*		**0.44**
	All Calculated			0.46			0.59		**0.48**
	Average			**0.46**			**0.59**		**0.48**
PG&E – Total Deemed			**0.56**	**0.59**	**0.62**	**0.61**	**0.60**	***0.61***	**0.60**
PG&E 3rd Party	Deemed	0.67		0.72	0.52	0.65	0.51		**0.63**
	Sm/Med Calculated	*0.56*		*0.62*				*0.50*	**0.56**
	Large Calculated	*0.53*		*0.62*			*0.47*		***0.60***
	All Calculated	*0.55*		0.62			*0.47*	*0.50*	**0.58**
	Average	**0.62**		**0.66**	**0.52**	**0.65**	**0.50**	***0.50***	**0.61**
PG&E Local Govt Partner	Deemed	0.58	0.57	0.66	0.62	0.61	0.59	0.68	**0.64**
	Sm/Med Calculated	0.61		0.60		*0.75*	0.56	0.60	**0.60**
	Large Calculated	*0.77*		*0.59*			*0.60*	*0.54*	**0.60**
	All Calculated	0.66		0.59		*0.75*	0.57	0.58	**0.60**
	Average	**0.60**	**0.57**	**0.63**	**0.62**	**0.62**	**0.59**	**0.66**	**0.63**
PG&E Total	**Deemed**	**0.61**	**0.56**	**0.64**	**0.61**	**0.61**	**0.59**	**0.66**	**0.62**
	Sm/Med Calculated	**0.59**		**0.54**		***0.75***	**0.76**	**0.52**	**0.55**
	Large Calculated	***0.66***		**0.53**			***0.45***	***0.54***	**0.53**
	All Calculated	**0.61**		**0.54**		***0.75***	**0.58**	**0.53**	**0.54**
PG&E Average		**0.61**	**0.56**	**0.59**	**0.61**	**0.61**	**0.59**	**0.63**	**0.60**

* Italics indicate segment level results that are supported by small sample sizes of six or less.

Table H-22: NTGRs by Gross Program Group and Claim Basis for SCE, Weighted by kWh Savings

IOU Gross Program Group		CFL Basic	CFL Reflector	Linear	Delamp	High Bay	Occ Sensors	HIDs	Total
SCE									
SCE Custom	Sm/Med Calculated			0.55			*0.53*	*0.36*	**0.55**
	Large Calculated			0.57		*0.29*	*0.24*	*0.35*	**0.46**
	All Calculated			0.56		*0.29*	0.30	*0.35*	**0.50**
	Average			**0.56**		***0.29***	**0.30**	***0.35***	**0.50**
SCE – Direct Install		**0.59**	**0.65**	**0.65**	**0.73**	**0.82**	**0.69**		**0.69**
SCE – Deemed			**0.58**	**0.58**	**0.60**	**0.62**	**0.60**	**0.55**	**0.61**
SCE 3rd Party	Deemed	0.64		0.69	0.66		0.59	*0.68*	**0.66**
	Sm/Med Calculated			*0.39*			*0.58*		***0.40***
	Large Calculated			*0.44*			*0.49*		**0.45**
	All Calculated			0.42			*0.52*		**0.43**
	Average	**0.64**		**0.57**	**0.66**		**0.58**	***0.68***	**0.61**
SCE Local Govt Partner	Deemed		*0.69*	0.53	0.63	*0.73*	0.29	*0.37*	**0.57**
	Sm/Med Calculated			0.53			*0.37*	*0.33*	**0.51**
	Large Calculated			*0.66*			*0.39*		***0.62***
	All Calculated			0.62			*0.39*	*0.33*	**0.59**
	Average		***0.69***	**0.60**	**0.63**	***0.73***	**0.34**	***0.36***	**0.58**
SCE Total	**Deemed**	**0.60**	**0.64**	**0.61**	**0.66**	**0.64**	**0.61**	**0.55**	**0.63**
	Sm/Med Calculated			**0.53**			**0.53**	***0.36***	**0.53**
	Large Calculated			**0.56**		***0.29***	**0.30**	***0.35***	**0.48**
	All Calculated			**0.55**		***0.29***	**0.35**	***0.35***	**0.50**
SCE Average		**0.60**	**0.64**	**0.59**	**0.66**	**0.62**	**0.59**	**0.50**	**0.61**

* Italics indicate segment level results that are supported by small sample sizes of six or less.

Table H-23: NTGRs by Gross Program Group and Claim Basis for SDG&E, Weighted by kWh Savings

IOU Gross Program Group		CFL Basic	CFL Reflector	Linear	Delamp	High Bay	Occ Sensors	HIDs	Total
SDG&E									
SDG&E Custom	Sm/Med Calculated	*0.26*		0.65			*0.59*		**0.60**
	Large Calculated			*0.67*					***0.67***
	All Calculated	*0.26*		0.65			*0.59*		**0.61**
	Average	***0.26***		**0.65**			***0.59***		**0.61**
SDG&E – Direct Install		**0.61**	**0.63**	**0.63**	***0.74***		***0.79***		**0.64**
SDG&E – Deemed		**0.57**	***0.54***	**0.54**	**0.63**	**0.67**	**0.63**	***0.20***	**0.55**
SDG&E LGP/3rd Party	Deemed	**0.62**							**0.62**
	Sm/Med Calculated			0.58			*0.62*		**0.58**
	Large Calculated			0.57					**0.57**
	All Calculated			0.57			*0.62*		**0.57**
	Average	**0.62**		**0.57**			***0.62***		**0.57**
SDG&E Total	**Deemed**	**0.60**	**0.61**	**0.58**	**0.65**	**0.67**	**0.63**	***0.20***	**0.58**
	Sm/Med Calculated	***0.26***		**0.60**			***0.59***		**0.59**
	Large Calculated			**0.57**					**0.57**
	All Calculated	***0.26***		**0.59**			***0.59***		**0.58**
SDG&E Average		**0.56**	**0.61**	**0.58**	**0.65**	**0.67**	**0.63**	***0.20***	**0.58**

* Italics indicate segment level results that are supported by small sample sizes of six or less.

Table H-24: NTGRs by Gross Program Group and Claim Basis, Statewide, Weighted by kWh Savings

Gross Program Group		CFL Basic	CFL Reflector	Linear	Delamp	High Bay	Occ Sensors	HIDs	Total
Statewide									
Statewide Custom	Sm/Med Calculated	*0.26*		0.53			0.66	*0.36*	**0.53**
	Large Calculated			0.53		*0.29*	*0.32*	*0.35*	**0.46**
	All Calculated	*0.26*		0.53		*0.29*	0.44	*0.35*	**0.50**
	Average	***0.26***		**0.53**		***0.29***	**0.44**	***0.35***	**0.50**
Statewide – Direct Install		**0.60**	**0.65**	**0.65**	**0.73**	**0.82**	**0.70**		**0.68**
Statewide – Deemed		**0.57**	**0.56**	**0.58**	**0.61**	**0.62**	**0.60**	**0.45**	**0.60**
Statewide 3rd Party	Deemed	0.66		0.70	0.64	0.65	0.57	*0.68*	**0.65**
	Sm/Med Calculated	*0.56*		0.55			*0.59*	*0.50*	**0.54**
	Large Calculated	*0.53*		0.55			*0.49*		**0.54**
	All Calculated	*0.55*		0.55			*0.52*	*0.50*	**0.54**
	Average	**0.63**		**0.59**	**0.64**	**0.65**	**0.56**	***0.51***	**0.60**
Statewide Local Govt Partner	Deemed	0.58	0.59	0.65	0.62	0.63	0.52	0.67	**0.63**
	Sm/Med Calculated	0.61		0.59		*0.75*	0.50	0.58	**0.59**
	Large Calculated	*0.77*		0.61			*0.40*	*0.54*	**0.60**
	All Calculated	0.66		0.60		*0.75*	0.43	0.57	**0.60**
	Average	**0.60**	**0.59**	**0.63**	**0.62**	**0.63**	**0.49**	**0.66**	**0.62**
Statewide Total	**Deemed**	**0.60**	**0.61**	**0.62**	**0.65**	**0.63**	**0.61**	**0.55**	**0.62**
	Sm/Med Calculated	**0.53**		**0.55**		***0.75***	**0.64**	**0.50**	**0.55**
	Large Calculated	***0.66***		**0.55**		***0.29***	**0.35**	***0.40***	**0.51**
	All Calculated	**0.57**		**0.55**		***0.32***	**0.45**	**0.47**	**0.53**
Statewide Average		**0.60**	**0.61**	**0.59**	**0.65**	**0.62**	**0.59**	**0.53**	**0.61**

* Italics indicate segment level results that are supported by small sample sizes of six or less.

Table H-25: NTGRs by Gross Program Group and Claim Basis for PG&E, Weighted by kW Savings

IOU Gross Program Group		CFL Basic	CFL Reflector	Linear	Delamp	High Bay	Occ Sensors	HIDs	Total
PG&E									
PG&E Custom	Sm/Med Calculated			0.45			*0.41*		**0.45**
	Large Calculated			*0.41*			*0.57*		**0.43**
	All Calculated			0.44			0.51		**0.44**
	Average			**0.44**			**0.51**		**0.44**
PG&E – Deemed			**0.57**	**0.58**	**0.59**	**0.61**	**0.60**	***0.60***	**0.60**
PG&E 3rd Party	Deemed	0.66		0.72	0.47	0.64	0.50		**0.60**
	Sm/Med Calculated	*0.56*		*0.57*				*0.50*	**0.54**
	Large Calculated	*0.53*		*0.62*			*0.47*		***0.60***
	All Calculated	*0.55*		0.60			*0.47*	*0.50*	**0.56**
	Average	**0.63**		**0.65**	**0.47**	**0.64**	**0.50**	***0.50***	**0.59**
PG&E Local Govt Partner	Deemed	0.54	0.58	0.66	0.63	0.59	0.57	0.68	**0.63**
	Sm/Med Calculated	0.60		0.59		*0.75*	0.56	0.64	**0.60**
	Large Calculated	*0.77*		*0.57*			*0.60*	*0.51*	**0.58**
	All Calculated	0.66		0.59		*0.75*	0.57	0.62	**0.59**
	Average	**0.56**	**0.58**	**0.63**	**0.63**	**0.59**	**0.57**	**0.66**	**0.62**
PG&E Total	**Deemed**	**0.59**	**0.57**	**0.64**	**0.60**	**0.61**	**0.59**	**0.65**	**0.61**
	Sm/Med Calculated	**0.57**		**0.54**		***0.75***	**0.48**	**0.55**	**0.54**
	Large Calculated	***0.69***		**0.52**			***0.56***	***0.51***	**0.53**
	All Calculated	**0.60**		**0.53**		***0.75***	**0.52**	**0.55**	**0.53**
PG&E Average		**0.59**	**0.57**	**0.59**	**0.60**	**0.61**	**0.58**	**0.62**	**0.60**

* Italics indicate segment level results that are supported by small sample sizes of six or less.

Table H-26: NTGRs by Gross Program Group and Claim Basis for SCE, Weighted by kW Savings

IOU Gross Program Group		CFL Basic	CFL Reflector	Linear	Delamp	High Bay	Occ Sensors	HIDs	Total
SCE									
SCE Custom	Sm/Med Calculated			0.55			*0.65*	*0.36*	**0.55**
	Large Calculated			0.61		*0.30*	*0.24*	*0.35*	**0.51**
	All Calculated			0.58		*0.30*	0.41	*0.36*	**0.53**
	Average			**0.58**		*0.30*	**0.41**	*0.36*	**0.53**
SCE – Direct Install		**0.61**	**0.64**	**0.65**	**0.73**	**0.85**	**0.70**		**0.70**
SCE – Deemed			**0.54**	**0.58**	**0.60**	**0.63**	**0.65**	**0.45**	**0.61**
SCE 3rd Party	Deemed	0.66		0.68	0.54		0.58	*0.68*	**0.58**
	Sm/Med Calculated			*0.41*					*0.41*
	Large Calculated			*0.44*			*0.49*		**0.45**
	All Calculated			0.43			*0.49*		**0.44**
	Average	**0.66**		**0.54**	**0.54**		**0.57**	***0.68***	**0.56**
SCE Local Govt Partner	Deemed		*0.69*	0.54	0.63	*0.73*	0.27	*0.37*	**0.51**
	Sm/Med Calculated			0.52				*0.33*	**0.51**
	Large Calculated			*0.66*			*0.39*		*0.63*
	All Calculated			0.63			*0.39*	*0.33*	**0.61**
	Average		***0.69***	**0.61**	**0.63**	***0.73***	**0.30**	***0.35***	**0.56**
SCE Total	**Deemed**	**0.61**	**0.64**	**0.61**	**0.65**	**0.64**	**0.63**	**0.45**	**0.63**
	Sm/Med Calculated			**0.53**			**0.65**	***0.35***	**0.53**
	Large Calculated			**0.59**		***0.30***	**0.32**	***0.35***	**0.53**
	All Calculated			**0.56**		***0.30***	**0.42**	***0.35***	**0.53**
SCE Average		**0.61**	**0.64**	**0.60**	**0.65**	**0.64**	**0.62**	**0.44**	**0.62**

* Italics indicate segment level results that are supported by small sample sizes of six or less.

Table H-27: NTGRs by Gross Program Group and Claim Basis for SDG&E, Weighted by kW Savings

IOU Gross Program Group		CFL Basic	CFL Reflector	Linear	Delamp	High Bay	Occ Sensors	HIDs	Total
SDG&E									
SDG&E Custom	Sm/Med Calculated	*0.26*		0.63			*0.70*		**0.56**
	Large Calculated			*0.68*					***0.68***
	All Calculated	*0.26*		0.64			*0.70*		**0.57**
	Average	***0.26***		**0.64**			***0.70***		**0.57**
SDG&E – Direct Install		**0.61**	**0.62**	**0.63**	***0.74***		***0.80***		**0.64**
SDG&E – Deemed		**0.66**	***0.54***	**0.54**	**0.50**	**0.67**	**0.64**	***0.21***	**0.55**
SDG&E LGP/3rd Party	Deemed	0.62							**0.62**
	Sm/Med Calculated			0.64			*0.62*		**0.64**
	Large Calculated			0.56					**0.56**
	All Calculated			0.60			*0.62*		**0.60**
	Average	**0.62**		**0.60**			*0.62*		**0.60**
SDG&E Total	**Deemed**	**0.62**	**0.60**	**0.59**	**0.56**	**0.67**	**0.65**	***0.21***	**0.58**
	Sm/Med Calculated	***0.26***		**0.64**			***0.66***		**0.61**
	Large Calculated			**0.56**					**0.56**
	All Calculated	***0.26***		**0.60**			***0.66***		**0.59**
SDG&E Average		**0.54**	**0.60**	**0.60**	**0.56**	**0.67**	**0.65**	***0.21***	**0.59**

* Italics indicate segment level results that are supported by small sample sizes of six or less.

Table H-28: NTGRs by Gross Program Group and Claim Basis, Statewide, Weighted by kW Savings

Gross Program Group		CFL Basic	CFL Reflector	Linear	Delamp	High Bay	Occ Sensors	HIDs	Total
Statewide									
Statewide Custom	Sm/Med Calculated	*0.26*		0.51			0.60	*0.36*	**0.51**
	Large Calculated			0.54		*0.30*	*0.34*	*0.35*	**0.49**
	All Calculated	*0.26*		0.53		*0.30*	0.45	*0.36*	**0.50**
	Average	***0.26***		**0.53**		***0.30***	**0.45**	***0.36***	**0.50**
Statewide – Direct Install		**0.61**	**0.64**	**0.65**	**0.73**	**0.85**	**0.70**		**0.69**
Statewide – Deemed		**0.66**	**0.57**	**0.57**	**0.59**	**0.62**	**0.63**	**0.44**	**0.61**
Statewide 3rd Party	Deemed	0.66		0.69	0.52	0.64	0.57	*0.68*	**0.59**
	Sm/Med Calculated	*0.56*		0.59			*0.62*	*0.50*	**0.57**
	Large Calculated	*0.53*		0.54			*0.49*		**0.53**
	All Calculated	*0.55*		0.56			*0.54*	*0.50*	**0.55**
	Average	**0.64**		**0.59**	**0.52**	**0.64**	**0.57**	***0.50***	**0.58**
Statewide Local Govt Partner	Deemed	0.54	0.60	0.65	0.63	0.61	0.43	0.67	**0.62**
	Sm/Med Calculated	0.60		0.59		*0.75*	0.56	0.62	**0.59**
	Large Calculated	*0.77*		0.61			*0.40*	*0.51*	**0.60**
	All Calculated	0.66		0.60		*0.75*	0.45	0.60	**0.60**
	Average	**0.56**	**0.60**	**0.63**	**0.63**	**0.61**	**0.43**	**0.66**	**0.61**
Statewide Total	**Deemed**	**0.60**	**0.61**	**0.62**	**0.63**	**0.63**	**0.62**	**0.51**	**0.62**
	Sm/Med Calculated	**0.48**		**0.55**		***0.75***	**0.60**	**0.52**	**0.55**
	Large Calculated	***0.69***		**0.56**		***0.30***	**0.37**	***0.41***	**0.53**
	All Calculated	**0.53**		**0.56**		***0.33***	**0.46**	**0.50**	**0.54**
Statewide Average		**0.59**	**0.61**	**0.60**	**0.63**	**0.63**	**0.61**	**0.51**	**0.61**

* Italics indicate segment level results that are supported by small sample sizes of six or less.

Table H-29 and Table H-30 present the resulting NTGRs for each IOU by HIM, Gross Program Group, and whether the participant is classified as ER or ROB. Results have been weighted by kWh and kW savings, respectively. Again, to help identify results that are supported by small sample sizes, results that correspond to sample sizes of six or less have been italicized.

Table H-29: NTGRs by HIM, IOU, Gross Program Group and ER versus ROB, Weighted by kWh Savings

Gross Program Group	ER or ROB	Linear	Delamp	High Bay	HIDs	Total
PG&E Deemed	ER	0.49	0.62	0.63	*0.61*	**0.61**
	ROB	0.64	*0.52*	0.59		**0.60**
PG&E Custom	ER	0.42				**0.42**
	ROB	0.51				**0.51**
PG&E 3P	ER	0.64	0.52	0.60		**0.61**
	ROB	0.68	*0.52*	0.69	*0.50*	**0.62**
PG&E LGP/DI	ER	0.63	0.62	0.69	0.70	**0.65**
	ROB	0.63	0.62	0.58	0.60	**0.62**
PG&E TOTAL	**ER**	**0.56**	**0.61**	**0.63**	**0.68**	**0.60**
	ROB	**0.61**	**0.58**	**0.59**	**0.56**	**0.60**
SCE DI	ER	0.66	0.74	*0.85*		**0.73**
	ROB	0.64	*0.57*	0.79		**0.66**
SCE Deemed	ER	0.57	0.61	0.68	*0.31*	**0.62**
	ROB	0.59	0.56	0.59	*0.67*	**0.59**
SCE Custom	ER	0.56			*0.35*	**0.55**
	ROB	0.57		*0.29*		**0.45**
SCE 3P	ER	0.63	0.71		*0.68*	**0.68**
	ROB	0.52	0.38			**0.49**
SCE LGP	ER	0.55	0.63			**0.60**
	ROB	0.61	*0.60*	*0.73*	*0.36*	**0.61**
SCE TOTAL	**ER**	**0.59**	**0.68**	**0.70**	**0.34**	**0.64**
	ROB	**0.59**	**0.53**	**0.59**	***0.65***	**0.59**
SDG&E DI	ER	0.62	*0.63*			**0.62**
	ROB	0.62	*0.63*			**0.62**
SDG&E Deemed	ER	0.51	0.64	0.71	*0.19*	**0.50**
	ROB	0.58	*0.61*	0.64	*0.71*	**0.60**
SDG&E Custom	ER					
	ROB	0.65				**0.65**
SDG&E 3P/LGP	ER	0.57				**0.57**
	ROB	0.58				**0.58**
SDG&E TOTAL	**ER**	**0.57**	**0.65**	**0.71**	***0.19***	**0.55**
	ROB	**0.61**	***0.62***	**0.64**	***0.71***	**0.61**
Statewide DI	ER	0.66	0.75	*0.85*		**0.72**
	ROB	0.63	*0.58*	0.79		**0.66**
Statewide Deemed	ER	0.55	0.62	0.66	0.34	**0.61**
	ROB	0.60	0.56	0.59	*0.67*	**0.60**
Statewide Custom	ER	0.51			*0.35*	**0.51**
	ROB	0.56		*0.29*		**0.51**
Statewide 3P	ER	0.60	0.68	0.60	*0.68*	**0.63**
	ROB	0.57	0.40	0.69	*0.50*	**0.55**
Statewide LGP	ER	0.63	0.63	0.69	0.70	**0.64**
	ROB	0.62	0.62	0.60	0.58	**0.62**
Statewide	**ER**	**0.58**	**0.67**	**0.67**	**0.49**	**0.62**
	ROB	**0.60**	**0.54**	**0.59**	**0.60**	**0.59**

* Italics indicate segment level results that are supported by small sample sizes of six or less.

Table H-30: NTGRs by HIM, IOU, Gross Program Group and ER versus ROB, Weighted by kW Savings

Gross Program Group	ER or ROB	Linear	Delamp	High Bay	HIDs	Total
PG&E Deemed	ER	0.47	0.60	0.64	*0.60*	**0.61**
	ROB	0.63	*0.54*	0.58		**0.60**
PG&E Custom	ER	0.40				**0.40**
	ROB	0.50				**0.50**
PG&E 3P	ER	0.66	0.48	0.60		**0.58**
	ROB	0.63	*0.36*	0.68	*0.50*	**0.58**
PG&E LGP/DI	ER	0.63	0.63	0.68	0.69	**0.64**
	ROB	0.63	0.62	0.54	0.63	**0.62**
PG&E TOTAL	**ER**	**0.56**	**0.60**	**0.64**	**0.65**	**0.60**
	ROB	**0.61**	**0.56**	**0.58**	**0.58**	**0.60**
SCE DI	ER	0.66	0.74	*0.91*		**0.73**
	ROB	0.64	*0.57*	0.78		**0.66**
SCE Deemed	ER	0.55	0.61	0.67	*0.31*	**0.61**
	ROB	0.61	0.56	0.60	*0.67*	**0.60**
SCE Custom	ER	0.59			*0.36*	**0.57**
	ROB	0.55		*0.30*		**0.46**
SCE 3P	ER	0.58	0.64		*0.68*	**0.61**
	ROB	0.52	0.37			**0.48**
SCE LGP	ER	0.57	0.63			**0.61**
	ROB	0.62	*0.61*	*0.73*	*0.35*	**0.63**
SCE TOTAL	**ER**	**0.60**	**0.67**	**0.70**	**0.32**	**0.64**
	ROB	**0.60**	**0.52**	**0.60**	***0.65***	**0.60**
SDG&E DI	ER	0.62	*0.63*			**0.62**
	ROB	0.62	*0.63*			**0.62**
SDG&E Deemed	ER	0.50	0.49	0.72	*0.19*	**0.47**
	ROB	0.58	*0.61*	0.64	*0.74*	**0.61**
SDG&E Custom	ER					
	ROB	0.64				**0.64**
SDG&E 3P/LGP	ER	0.57				**0.57**
	ROB	0.65				**0.65**
SDG&E TOTAL	**ER**	**0.57**	**0.55**	**0.72**	***0.19***	**0.55**
	ROB	**0.62**	***0.63***	**0.64**	***0.74***	**0.62**
Statewide DI	ER	0.66	0.74	*0.91*		**0.72**
	ROB	0.64	*0.57*	0.78		**0.65**
Statewide Deemed	ER	0.53	0.60	0.66	0.37	**0.60**
	ROB	0.61	0.56	0.60	*0.67*	**0.60**
Statewide Custom	ER	0.52			*0.36*	**0.51**
	ROB	0.55		*0.30*		**0.50**
Statewide 3P	ER	0.60	0.57	0.60	*0.68*	**0.59**
	ROB	0.58	0.37	0.68	*0.50*	**0.55**
Statewide LGP	ER	0.63	0.63	0.68	0.69	**0.64**
	ROB	0.63	0.62	0.58	0.62	**0.62**
Statewide	**ER**	**0.58**	**0.65**	**0.67**	**0.45**	**0.62**
	ROB	**0.61**	**0.53**	**0.60**	**0.60**	**0.60**

* Italics indicate segment level results that are supported by small sample sizes of six or less.

Appendix I

IEPEC Paper on Self-Report Adjustment Factors

Is The Customer Always Right? A Cost-Effective Method for Estimating Lighting Usage in Commercial Buildings

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ABSTRACT

The California Public Utilities Commission recently released the *Small Commercial Contract Group Direct Impact Evaluation Report*. This evaluation included the largest lighting end use monitoring study of its kind, with the installation of nearly 7,000 lighting loggers in over 1,200 commercial buildings throughout California. As part of the on-site visit for this study, participants were asked to estimate their lighting usage by activity area within their building, as well as provide their business operating hours. Lighting loggers were then installed on rebated CFLs and linear fluorescent fixtures. This allowed for a comparison of participants' actual lighting usage to both their self-reported lighting usage and their business operating hours.

This paper establishes a method for estimating lighting usage in commercial buildings without the cost of installing on-site metering equipment. The method leverages on-site monitoring data from the *Small Commercial Report* by using business operating hours as a predictor to estimate daily lighting usage profiles by building type and activity area. As a secondary approach, the usage estimates can be further refined using site-level self-reported usage data, if available.

Introduction

How does one estimate lighting usage profiles for commercial buildings? Ideally, lighting logger equipment can be installed to monitor the usage, but this is an expensive approach. A less costly option may be to ask customers to estimate their own lighting usage. But, how accurate are these self-reported usage values? Do customers tend to over- or under-estimate their usage? Do these trends vary by building type and activity area?[1] Are there certain times of the day that customers are simply unable to accurately estimate their own usage?

Another option may be to use business hours as a proxy for lighting usage. In its simplest form, this method would assume that all lights in a business were ON when the business was open, and OFF when the business was closed. However, some lights are left ON after businesses have closed, and not all lights are turned ON during open hours.

The purpose of this study was to develop a method for estimating lighting usage in commercial buildings that leverages existing monitoring data from the *Small Commercial Contract Group Direct Impact Evaluation Report*. The method developed requires only a building's business hours to develop accurate usage profiles. As a secondary approach, self-reported lighting usage information can also be used to further refine the estimation during times that businesses are open.

The primary results of this study are presented as lighting usage *rates*[2] that allow for the

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[1] Activity areas are defined as areas at the premise that have different activity types (e.g., office, dining room, and kitchen).

[2] In this context, a lighting usage *rate* is a percentage that can be thought of as a probability. For example, if the usage rate for a lamp is 50% in a certain period, then there is a 50% chance that the lamp will be on at any given time within that period.

development of simple 8760 lighting use shapes based on business open, closed, and shoulder hours[3] specific to building type and activity area. We refer to these primary results as the *business hour rates.* They are meant to be used to estimate lighting usage across an entire market segment or building type (such as Office buildings or Restaurants). To apply the business hour rates, a sample of sites and their business hours must be obtained (or assumed). Then, the rates are used to develop lighting usage profiles for each site in the sample based on their individual business hours. Finally, individual profiles are then averaged together to make an estimated usage profile for the entire sector.

As mentioned above, this paper also provides secondary results that use self-reported lighting usage to refine the business hour estimation. We refer to these secondary results as the *self-report adjustment factors,* since they are used to adjust self-reported usage to make it more accurate. Each self-report adjustment factor is the ratio of actual monitored lighting usage over self-reported usage. Although we began this study with the intention of presenting self-report adjustment factors as the primary method for estimating lighting usage, we found that customers too often self-reported zero or very little use during the times that the business was not open, making the ratios undefined or unreasonably large. Therefore, we present the self-report adjustment factors as a way to adjust self-reported usage during open times only.

Background

The analysis for this study was completed using data collected for the recently released *2006-2008 Small Commercial Contract Group Direct Impact Evaluation Report* (Small Com Report),[4] prepared by Itron, Inc., for the California Public Utilities Commission. The primary purpose of the Small Com Report was to provide an evaluation of the California investor owned utilities' claimed energy efficient accomplishments in the commercial sector for the 2006-2008 program cycle.[5] The majority of these claimed savings came by way of efficient lighting retrofit projects. Hence, an extensive statewide on-site survey and time-of-use data collection effort was undertaken by Itron to gather the lighting usage information needed to calculate the energy savings.

Data Collection

The three main components of the on-site survey utilized in this analysis were the site's business hours, the self-reported lighting usage, and the lighting logger data.

The business hours were collected over the phone during the initial telephone recruitment survey and then confirmed by the surveyor on-site. These business hours were recorded as the opening time and closing time for each day of the week. If a business kept a separate set of business hours for seasonal operation, that information was recorded as well.

The self-reported operating hours were collected as a percent of time on per hour for each hour in each day of the week. On-site surveyors collected these self-report estimates for each different lighting usage schedule within the building. Typically, different activity areas within a building had different lighting usage schedules.

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[3] As described in further detail below, the shoulder periods are defined as the two hours before opening and the two hours after closing.

[4] The Small Com Report can be found at www.CALMAC.org. Study ID: CPU0019.01.

[5] The scope of the Small Com Report included the evaluation of claimed lighting savings from all non-residential programs, *excluding* the custom programs. These non-custom programs were typically directed toward small- and medium-sized customers, while the custom programs typically served large customers. For this reasons, the Report was named "Small Commercial" even though the participants were not exclusively "small."

The time-of-use data were obtained through the installation of lighting loggers. A technical description of the lighting loggers and the installation/extraction procedures can be found in the Small Com Report, Appendix G. Once on-site, surveyors attempted to log every representative activity area where rebated CFLs and linear fluorescent lamps were installed.

Data Processing

After extraction, the lighting logger data were processed into a percent-ON-per-hour format. This allowed for a comparison of the actual lighting usage data with the business hours and secondarily with the self-reported hours of usage. Figure 1 demonstrates this comparison for an office area. The data shown represent CFL usage at an office activity area within a particular office building on an average Friday. The vertical axis represents the usage rate (i.e., percent ON for each hour of the day) for the self-reported and actual usage values. For the business hours, a value of 1 on the vertical axis means the business was open, and a value of 0 means the business was closed.

Figure 1: Example of Actual and Self-Reported Lighting Usage and Business Hours

This analysis was motivated by a desire to utilize these business hour and usage shapes to help estimate lighting usage in future studies. Understanding that buildings in future studies may have different business operating schedules, or self-reported usage, we provide our results at a level of granularity that allows future researchers to take those differences into account.

The next step in processing of the data was to identify each hour at each site as being in one of the following four periods (relative to business hours): Open, Opening Shoulder, Closing Shoulder, or Closed. The Open period was defined as all hours of the day for which the business was open. The Opening Shoulder and Closing Shoulder periods were defined as the two hours before opening and after closing, respectively. The Closed period was defined as all hours for which the business was closed and not in one of the two shoulder periods.

Once these periods were identified, the actual and self-reported usage rates were calculated for each period and each activity area at each site. The aggregation from individual loggers to activity areas

was done based on the number of lamps each logger was monitoring. The final calculation of the results is described in the Results section below.

Results

As mentioned in the Introduction, the primary results are the business hour rates. These results can be applied simply by knowing the business operating hours, building type, and activity areas. In case the activity area distributions within the buildings are not known, aggregated building type results are also provided.

The secondary results are the self-report adjustment factors. In order to apply these factors, one must also obtain self-reported usage rates during open times by activity area for the sample of buildings. The self-reported usage rates used in this analysis were collected on-site. We believe that the on-site visit is necessary to gather reliable self-report information and to properly label activity areas. Thus, we recommend that self-reported values used for future estimations also be collected on-site.

Business Hour Rates

The business hour rates represent the percent usage during each period of the day (Open, Closed, and the Shoulder periods). The dataset for the business hour rates included data from the seasonal business operation schedules and holidays. The usage rates for each logger were weighted by the total number of lamps represented and the total hours elapsed in each period.

Table 1 and Table 2 presented below contain the business hour rates by building type and activity area. Table 3 and Table 4 contain the business hour rates aggregated to the building type level. We chose to provide these building level estimation figures in addition to the activity area figures to offer additional flexibility to future evaluators.

Self-Report Adjustment Factors

As mentioned above, the original intent of this analysis was to produce adjustment factors (i.e., multipliers) that could be applied to self-reported usage for each of the four periods in the day. An adjustment factor is defined as actual metered usage divided by self-reported use. However, we found that many sites self-reported that they had zero or very little usage during the shoulder or closed periods. Since the denominator in the multiplier was zero or nearly zero, this made the adjustment factors either undefined or extremely large. Therefore, adjusting self-reported usage is not a good way to estimate lighting use during the closed and shoulder periods. For those periods, we recommend using the business hour rates as presented in the previous section.

Table 5 and Table 6 contain the self-report adjustment factors that can be applied to self-reported usage during the Open period. The results are presented by building type and activity area, separately for CFL and linear fluorescent lighting. The building level figures were not provided for the self-report factors because we assume that future evaluators will gather self-report usage information at the activity area detailed level.

Table 1: Business Hour Rates - CFL

Building Type	Activity Area	Num Sites	Closed		Opening Shoulder		Open		Closing Shoulder	
			Usage Rate	90% C.I.	Usage Rate	90% C.I.	Usage Rate	90% C.I.	Usage Rate	90% C.I.
Assembly	Assembly	32	0.03	(0.02, 0.05)[6]	0.04	(0.02, 0.06)	0.14	(0.11, 0.17)	0.09	(0.05, 0.13)
	HallwayLobby	54	0.13	(0.08, 0.17)	0.22	(0.13, 0.31)	0.43	(0.32, 0.54)	0.20	(0.13, 0.28)
	Kitchen/Break	12	0.04	(0.01, 0.07)	0.03	(0.01, 0.04)	0.12	(0.06, 0.18)	0.10	(0.02, 0.18)
	Office	23	0.04	(0.01, 0.07)	0.07	(0.02, 0.12)	0.30	(0.19, 0.41)	0.16	(0.09, 0.22)
	OtherMisc	35	0.03	(0.02, 0.04)	0.08	(0.04, 0.11)	0.43	(0.31, 0.55)	0.12	(0.08, 0.16)
	Restrooms	43	0.08	(0.04, 0.13)	0.12	(0.05, 0.18)	0.31	(0.2, 0.42)	0.17	(0.09, 0.26)
	Storage	31	0.04	(0.01, 0.07)	0.05	(0, 0.1)	0.16	(0.05, 0.27)	0.07	(0.01, 0.12)
Health/ Medical - Clinic	HallwayLobby	40	0.18	(0.05, 0.31)	0.32	(0.17, 0.47)	0.63	(0.47, 0.8)	0.38	(0.2, 0.55)
	Office	24	0.03	(0.02, 0.05)	0.12	(0.08, 0.16)	0.43	(0.25, 0.62)	0.21	(0.11, 0.31)
	OtherMisc	26	0.04	(0, 0.08)	0.09	(0, 0.2)	0.15	(0.1, 0.21)	0.21	(0, 0.44)
	Restrooms	24	0.01	(0, 0.01)	0.02	(0, 0.05)	0.16	(0.04, 0.27)	0.05	(0.02, 0.08)
Lodging	Guest Rooms	91	0.07	(0.04, 0.11)	0.10	(0.06, 0.15)	0.08	(0.07, 0.09)	0.05	(0.02, 0.08)
	HallwayLobby	54	0.25	(0.16, 0.33)	0.21	(0.13, 0.29)	0.64	(0.56, 0.73)	0.19	(0.13, 0.26)
	Kitchen/Break	12	0.13	(0, 0.38)	0.40	(0, 0.92)	0.34	(0.12, 0.57)	0.27	(0, 0.66)
	Mechanical/Elec. Room	16	0.01	(0, 0.01)	0.05	(0.02, 0.07)	0.31	(0.11, 0.51)	0.01	(0, 0.04)
	Office	13	0.07	(0, 0.18)	0.05	(0, 0.11)	0.32	(0.22, 0.42)	0.09	(0, 0.17)
	OtherMisc	18	0.08	(0, 0.19)	0.05	(0, 0.1)	0.61	(0.5, 0.72)	0.13	(0.07, 0.19)
	Restrooms	39	0.09	(0.03, 0.15)	0.16	(0.03, 0.3)	0.07	(0.06, 0.09)	0.15	(0.01, 0.29)
	Storage	13	0.14	(0, 0.48)	0.43	(0, 1.16)	0.18	(0.06, 0.3)	0.22	(0, 0.65)
Office - Small	HallwayLobby	46	0.29	(0.15, 0.44)	0.39	(0.25, 0.53)	0.64	(0.53, 0.76)	0.40	(0.28, 0.53)
	Office	32	0.04	(0.02, 0.06)	0.14	(0.08, 0.2)	0.57	(0.48, 0.67)	0.16	(0.11, 0.22)
	OtherMisc	23	0.04	(0.01, 0.07)	0.05	(0.02, 0.07)	0.32	(0.18, 0.46)	0.14	(0.08, 0.21)
	Restrooms	72	0.04	(0.01, 0.07)	0.06	(0.02, 0.1)	0.15	(0.08, 0.21)	0.09	(0.03, 0.14)
	Storage	20	0.06	(0, 0.11)	0.14	(0.06, 0.22)	0.20	(0.06, 0.33)	0.15	(0.06, 0.25)
Other	HallwayLobby	31	0.25	(0.17, 0.33)	0.11	(0.02, 0.2)	0.61	(0.42, 0.81)	0.57	(0.26, 0.88)
	Office	20	0.17	(0.03, 0.31)	0.23	(0.1, 0.36)	0.51	(0.42, 0.6)	0.31	(0.11, 0.52)
	OtherMisc	32	0.13	(0.11, 0.16)	0.08	(0.04, 0.13)	0.14	(0, 0.33)	0.04	(0, 0.09)
	Restrooms	62	0.08	(0.05, 0.11)	0.18	(0.09, 0.27)	0.45	(0.3, 0.6)	0.25	(0.12, 0.38)
	Storage	29	0.19	(0, 0.4)	0.22	(0, 0.46)	0.52	(0.28, 0.76)	0.27	(0.05, 0.5)
Restaurant	Dining	67	0.06	(0.03, 0.1)	0.23	(0.17, 0.3)	0.78	(0.71, 0.85)	0.30	(0.24, 0.35)
	HallwayLobby	36	0.33	(0.17, 0.49)	0.42	(0.23, 0.6)	0.64	(0.38, 0.9)	0.42	(0.23, 0.61)
	Kitchen/Break	26	0.13	(0.04, 0.22)	0.54	(0.4, 0.68)	0.84	(0.72, 0.96)	0.36	(0.23, 0.49)
	Office	14	0.10	(0.04, 0.16)	0.27	(0.14, 0.4)	0.40	(0.28, 0.53)	0.26	(0.13, 0.38)
	OtherMisc	8	0.23	(0.02, 0.45)	0.47	(0.22, 0.72)	0.70	(0.56, 0.84)	0.41	(0.25, 0.58)
	Restrooms	52	0.16	(0.09, 0.24)	0.31	(0.23, 0.4)	0.52	(0.42, 0.62)	0.32	(0.2, 0.43)
	Storage	42	0.09	(0.05, 0.14)	0.30	(0.2, 0.39)	0.45	(0.31, 0.6)	0.19	(0.11, 0.26)
Retail - Small	HallwayLobby	21	0.17	(0.06, 0.28)	0.31	(0.19, 0.43)	0.59	(0.43, 0.75)	0.28	(0.17, 0.4)
	Office	27	0.31	(0.08, 0.54)	0.44	(0.25, 0.62)	0.75	(0.57, 0.92)	0.36	(0.15, 0.57)
	OtherMisc	26	0.04	(0.01, 0.07)	0.18	(0.08, 0.28)	0.54	(0.33, 0.76)	0.13	(0.08, 0.18)
	Restrooms	104	0.03	(0.02, 0.04)	0.05	(0.03, 0.08)	0.17	(0.12, 0.22)	0.07	(0.04, 0.1)
	RetailSales	59	0.22	(0.08, 0.36)	0.29	(0.18, 0.4)	0.81	(0.74, 0.87)	0.31	(0.21, 0.42)
	Storage	31	0.04	(0, 0.1)	0.14	(0.05, 0.24)	0.37	(0.13, 0.62)	0.07	(0.01, 0.13)

[6] The lower confidence limits for all confidence intervals in this paper have been restricted to a minimum value of zero.

Table 2: Business Hour Rates- Linear Fluorescent

Building Type	Activity Area	Num Sites	Closed		Opening Shoulder		Open		Closing Shoulder	
			Usage Rate	90% C.I.	Usage Rate	90% C.I.	Usage Rate	90% C.I.	Usage Rate	90% C.I.
Assembly	Assembly	16	0.03	(0.02, 0.04)	0.06	(0.01, 0.11)	0.28	(0.13, 0.42)	0.08	(0.05, 0.12)
	HallwayLobby	9	0.13	(0.09, 0.17)	0.12	(0, 0.27)	0.24	(0.04, 0.44)	0.21	(0.05, 0.37)
	Kitchen/Break	10	0.06	(0.03, 0.09)	0.16	(0.03, 0.29)	0.37	(0.23, 0.52)	0.18	(0.08, 0.28)
	Office	14	0.03	(0.02, 0.04)	0.14	(0.07, 0.2)	0.44	(0.39, 0.5)	0.11	(0.06, 0.15)
	OtherMisc	20	0.04	(0.02, 0.05)	0.12	(0.07, 0.16)	0.27	(0.17, 0.37)	0.11	(0.06, 0.16)
Health/ Medical - Clinic	Comm/Ind Work	10	0.04	(0.01, 0.07)	0.06	(0.01, 0.12)	0.64	(0.3, 0.99)	0.30	(0.13, 0.47)
	HallwayLobby	27	0.20	(0.1, 0.29)	0.26	(0.15, 0.36)	0.81	(0.75, 0.88)	0.47	(0.36, 0.58)
	Kitchen/Break	12	0.03	(0, 0.07)	0.17	(0.06, 0.28)	0.61	(0.51, 0.7)	0.30	(0.18, 0.42)
	Office	25	0.07	(0.03, 0.11)	0.18	(0.11, 0.25)	0.64	(0.51, 0.76)	0.29	(0.22, 0.36)
	OtherMisc	16	0.01	(0, 0.02)	0.04	(0, 0.08)	0.41	(0.33, 0.49)	0.28	(0.15, 0.4)
	Patient Rooms	10	0.02	(0, 0.05)	0.06	(0.02, 0.1)	0.30	(0.13, 0.47)	0.20	(0.07, 0.34)
	Storage	10	0.01	(0, 0.02)	0.02	(0, 0.04)	0.45	(0, 0.92)	0.03	(0, 0.06)
Grocery	OtherMisc	6	0.18	(0.03, 0.33)	0.29	(0, 0.64)	0.69	(0.43, 0.95)	0.23	(0.07, 0.39)
	RetailSales	10	0.17	(0.03, 0.31)	0.57	(0.17, 0.96)	0.95	(0.88, 1.02)	0.32	(0.18, 0.46)
Office - Small	Comm/Ind Work	25	0.22	(0.04, 0.4)	0.37	(0.14, 0.61)	0.65	(0.56, 0.75)	0.41	(0.22, 0.6)
	Conference Room	23	0.02	(0.01, 0.04)	0.12	(0, 0.27)	0.35	(0.18, 0.52)	0.15	(0.05, 0.25)
	HallwayLobby	47	0.14	(0.06, 0.22)	0.27	(0.13, 0.42)	0.78	(0.71, 0.86)	0.41	(0.28, 0.55)
	Kitchen/Break	34	0.16	(0, 0.31)	0.31	(0.07, 0.56)	0.52	(0.31, 0.73)	0.31	(0.08, 0.55)
	Office	88	0.10	(0.01, 0.19)	0.23	(0.12, 0.35)	0.68	(0.61, 0.75)	0.33	(0.21, 0.46)
	OtherMisc	12	0.05	(0.01, 0.08)	0.21	(0, 0.46)	0.42	(0.22, 0.62)	0.15	(0.05, 0.25)
	Restrooms	9	0.04	(0.01, 0.08)	0.04	(0, 0.08)	0.34	(0.08, 0.61)	0.14	(0.02, 0.27)
	Storage	31	0.01	(0, 0.02)	0.05	(0.02, 0.09)	0.30	(0.16, 0.43)	0.07	(0.03, 0.11)
Other	Comm/Ind Work	30	0.09	(0.02, 0.16)	0.20	(0.11, 0.29)	0.67	(0.59, 0.74)	0.27	(0.11, 0.43)
	HallwayLobby	30	0.21	(0.08, 0.33)	0.41	(0.26, 0.56)	0.85	(0.82, 0.87)	0.49	(0.32, 0.66)
	Office	47	0.04	(0.02, 0.06)	0.11	(0.06, 0.16)	0.55	(0.42, 0.67)	0.19	(0.14, 0.24)
	OtherMisc	47	0.02	(0.02, 0.03)	0.11	(0.03, 0.19)	0.39	(0.25, 0.53)	0.13	(0.09, 0.16)
	Restrooms	13	0.03	(0.01, 0.04)	0.12	(0.05, 0.2)	0.27	(0, 0.62)	0.19	(0.03, 0.36)
	Storage	24	0.07	(0, 0.15)	0.14	(0, 0.27)	0.52	(0.37, 0.67)	0.19	(0.04, 0.34)
Retail - Small	Auto Repair Workshop	27	0.02	(0.01, 0.04)	0.12	(0.06, 0.18)	0.75	(0.63, 0.86)	0.31	(0.2, 0.42)
	Comm/Ind Work	33	0.06	(0.02, 0.11)	0.27	(0.13, 0.41)	0.83	(0.73, 0.92)	0.31	(0.22, 0.4)
	HallwayLobby	31	0.05	(0, 0.1)	0.16	(0.06, 0.26)	0.77	(0.65, 0.88)	0.22	(0.14, 0.3)
	Kitchen/Break	24	0.04	(0, 0.09)	0.11	(0.02, 0.19)	0.39	(0.24, 0.54)	0.18	(0.08, 0.28)
	Office	67	0.01	(0.01, 0.02)	0.09	(0.05, 0.13)	0.67	(0.59, 0.76)	0.15	(0.11, 0.2)
	OtherMisc	18	0.07	(0, 0.15)	0.17	(0.06, 0.29)	0.76	(0.6, 0.92)	0.30	(0, 0.61)
	Restrooms	15	0.02	(0.01, 0.03)	0.05	(0.01, 0.08)	0.26	(0.11, 0.4)	0.12	(0.04, 0.21)
	RetailSales	102	0.03	(0.02, 0.04)	0.15	(0.11, 0.18)	0.92	(0.9, 0.94)	0.14	(0.11, 0.17)
	Storage	62	0.04	(0.01, 0.06)	0.12	(0.07, 0.17)	0.72	(0.64, 0.79)	0.16	(0.08, 0.25)
Restaurant	Dining	12	0.03	(0, 0.07)	0.08	(0, 0.16)	0.58	(0.43, 0.74)	0.17	(0, 0.34)
	Kitchen/Break	13	0.28	(0.05, 0.51)	0.63	(0.35, 0.92)	0.80	(0.59, 1.01)	0.58	(0.34, 0.82)
	OtherMisc	8	0.01	(0, 0.03)	0.35	(0.26, 0.43)	0.83	(0.58, 1.07)	0.19	(0.14, 0.23)
Warehouse	Office	18	0.06	(0.02, 0.1)	0.20	(0.12, 0.28)	0.61	(0.56, 0.66)	0.13	(0.05, 0.2)
	OtherMisc	16	0.02	(0.01, 0.03)	0.18	(0.06, 0.29)	0.43	(0.28, 0.57)	0.05	(0.02, 0.07)
	Storage	14	0.10	(0, 0.22)	0.14	(0.02, 0.25)	0.48	(0.3, 0.65)	0.13	(0, 0.26)

Table 3: Business Hour Rates. Overall Building Type - CFLs

Building Type	Num Sites	Closed		Opening Shoulder		Open		Closing Shoulder	
		Usage Rate	90% C.I.	Usage Rate	90% C.I.	Usage Rate	90% C.I.	Usage Rate	90% C.I.
Assembly	230	0.06	(0.04, 0.07)	0.09	(0.07, 0.12)	0.31	(0.26, 0.37)	0.13	(0.11, 0.15)
Health/Medical - Clinic	114	0.11	(0.04, 0.19)	0.23	(0.12, 0.33)	0.21	(0.14, 0.28)	0.29	(0.17, 0.41)
Lodging	256	0.08	(0.06, 0.11)	0.11	(0.08, 0.14)	0.14	(0.11, 0.17)	0.08	(0.05, 0.11)
Office - Small	193	0.13	(0.07, 0.19)	0.19	(0.14, 0.25)	0.43	(0.36, 0.49)	0.22	(0.17, 0.28)
Other	174	0.15	(0.13, 0.17)	0.12	(0.06, 0.17)	0.30	(0.07, 0.53)	0.16	(0, 0.31)
Restaurant	245	0.11	(0.08, 0.15)	0.30	(0.25, 0.35)	0.72	(0.66, 0.77)	0.32	(0.27, 0.36)
Retail - Small	268	0.16	(0.08, 0.23)	0.24	(0.18, 0.31)	0.63	(0.56, 0.69)	0.24	(0.18, 0.3)

Table 4: Business Hour Rates. Overall Building Type - Linear Fluorescent

Building Type	Num Sites	Closed		Opening Shoulder		Open		Closing Shoulder	
		Usage Rate	90% C.I.	Usage Rate	90% C.I.	Usage Rate	90% C.I.	Usage Rate	90% C.I.
Assembly	69	0.04	(0.03, 0.05)	0.10	(0.07, 0.13)	0.30	(0.24, 0.37)	0.11	(0.09, 0.13)
Grocery	16	0.17	(0.06, 0.28)	0.51	(0.18, 0.85)	0.90	(0.81, 1)	0.30	(0.19, 0.41)
Health/Medical - Clinic	110	0.08	(0.05, 0.12)	0.16	(0.1, 0.21)	0.53	(0.41, 0.66)	0.33	(0.27, 0.38)
Office - Small	269	0.12	(0.06, 0.18)	0.25	(0.17, 0.33)	0.64	(0.59, 0.69)	0.33	(0.25, 0.41)
Other	191	0.06	(0.04, 0.09)	0.16	(0.11, 0.2)	0.54	(0.4, 0.68)	0.21	(0.16, 0.27)
Restaurant	33	0.10	(0.01, 0.18)	0.30	(0.14, 0.45)	0.70	(0.56, 0.83)	0.29	(0.15, 0.44)
Retail - Small	379	0.03	(0.02, 0.04)	0.14	(0.12, 0.17)	0.81	(0.78, 0.84)	0.18	(0.15, 0.21)
Warehouse	48	0.06	(0.02, 0.09)	0.18	(0.12, 0.24)	0.52	(0.46, 0.59)	0.11	(0.06, 0.15)

Table 5: Self-Report Adjustment Factor for Usage during Business Open Hours - CFLs

Building Type	Activity Area	Num Sites	Self-Reported Usage	Self-Report Adjustment Factor	90% C.I. for the Adj. Factor
Assembly	Assembly	32	28%	0.55	(0.37, 0.74)
	HallwayLobby	54	54%	0.83	(0.64, 1.02)
	Kitchen/Break Room	12	23%	0.45	(0.09, 0.8)
	Office	23	63%	0.53	(0.34, 0.71)
	OtherMisc	35	55%	0.70	(0.51, 0.89)
	Restrooms	43	34%	0.88	(0.66, 1.11)
	Storage	31	23%	0.58	(0.34, 0.81)
Health/Medical - Clinic	HallwayLobby	38	74%	0.80	(0.67, 0.92)
	Office	23	82%	0.63	(0.38, 0.89)
	OtherMisc	23	65%	0.22	(0, 0.44)
	Restrooms	22	16%	1.35	(0.29, 2.42)
Lodging	Guest Rooms	82	33%	0.22	(0.16, 0.27)
	HallwayLobby	46	84%	0.86	(0.77, 0.95)
	Kitchen/Break Room	12	55%	0.65	(0.36, 0.95)
	Mechanical/Electrical Room	14	32%	0.76	(0.4, 1.12)
	Office	10	80%	0.41	(0.25, 0.58)
	OtherMisc	17	57%	0.91	(0.73, 1.09)
	Restrooms	34	25%	0.30	(0.18, 0.42)
	Storage	12	26%	0.61	(0.21, 1.01)
Office - Small	HallwayLobby	45	74%	0.83	(0.72, 0.94)
	Office	31	75%	0.75	(0.66, 0.83)
	OtherMisc	23	43%	0.80	(0.63, 0.96)
	Restrooms	68	19%	0.76	(0.55, 0.96)
	Storage	20	34%	0.45	(0.16, 0.74)
Other	HallwayLobby	30	77%	0.72	(0.56, 0.87)
	Office	18	80%	0.60	(0.54, 0.67)
	OtherMisc	31	9%	0.97	(0.84, 1.1)
	Restrooms	61	28%	1.29	(0.83, 1.75)
	Storage	27	54%	0.86	(0.66, 1.06)
Restaurant	Dining	66	87%	0.88	(0.8, 0.97)
	HallwayLobby	35	81%	0.83	(0.69, 0.97)
	Kitchen/Break Room	25	91%	0.91	(0.83, 0.99)
	Office	13	34%	1.18	(0.65, 1.71)
	OtherMisc	8	72%	0.91	(0.68, 1.14)
	Restrooms	49	51%	1.02	(0.87, 1.17)
	Storage	40	44%	1.14	(0.88, 1.39)
Retail - Small	HallwayLobby	19	85%	0.62	(0.42, 0.82)
	Office	27	64%	1.11	(0.74, 1.48)
	OtherMisc	25	65%	0.70	(0.47, 0.93)
	Restrooms	99	14%	1.36	(0.85, 1.87)
	RetailSales	58	80%	1.02	(0.88, 1.17)
	Storage	29	59%	0.84	(0.68, 1.01)

Table 6: Self-Report Adjustment Factor for Usage during Business Open Hours - Linear Fluorescent

Building Type	Activity Area	Num Sites	Self-Reported Usage	Self-Report Adjustment Factor	90% C.I. for the Adj. Factor
Assembly	Assembly	16	53%	0.35	(0.08, 0.62)
	HallwayLobby	8	54%	0.43	(0.2, 0.66)
	Kitchen/Break Room	10	43%	0.92	(0.29, 1.55)
	Office	13	55%	0.78	(0.55, 1)
	OtherMisc	20	54%	0.49	(0.41, 0.58)
Grocery	OtherMisc	6	70%	0.97	(0.71, 1.24)
	RetailSales	10	95%	0.97	(0.86, 1.08)
Health/Medical - Clinic	Comm/Ind Work	9	77%	0.87	(0.55, 1.19)
	HallwayLobby	26	89%	0.89	(0.81, 0.98)
	Kitchen/Break Room	12	70%	0.91	(0.67, 1.14)
	Office	24	75%	0.77	(0.56, 0.99)
	OtherMisc	16	55%	0.80	(0.63, 0.98)
	Patient Rooms	10	73%	0.45	(0.35, 0.54)
	Storage	10	45%	1.05	(0, 2.14)
Office - Small	Comm/Ind Work	25	83%	0.78	(0.71, 0.85)
	Conference Room	23	45%	0.85	(0.47, 1.23)
	HallwayLobby	47	93%	0.83	(0.76, 0.9)
	Kitchen/Break Room	33	70%	0.80	(0.63, 0.97)
	Office	87	82%	0.81	(0.74, 0.87)
	OtherMisc	12	69%	0.73	(0.49, 0.97)
	Restrooms	9	43%	0.82	(0.49, 1.15)
	Storage	30	44%	0.70	(0.54, 0.87)
Other	Comm/Ind Work	29	69%	1.00	(0.84, 1.17)
	HallwayLobby	29	60%	1.47	(0.61, 2.33)
	Office	46	61%	0.88	(0.74, 1.01)
	OtherMisc	46	40%	1.06	(0.83, 1.29)
	Restrooms	12	22%	1.69	(0, 4.35)
	Storage	24	51%	1.02	(0.66, 1.39)
Restaurant	Dining	12	73%	0.83	(0.7, 0.95)
	Kitchen/Break Room	13	82%	0.96	(0.8, 1.13)
	OtherMisc	7	80%	0.86	(0.57, 1.15)
Retail - Small	Auto Repair Workshop	26	87%	0.88	(0.78, 0.98)
	Comm/Ind Work	33	93%	0.85	(0.75, 0.95)
	HallwayLobby	29	82%	0.96	(0.86, 1.05)
	Kitchen/Break Room	21	60%	0.69	(0.48, 0.9)
	Office	65	74%	0.91	(0.82, 0.99)
	OtherMisc	17	81%	0.93	(0.87, 0.99)
	Restrooms	15	34%	0.87	(0.49, 1.24)
	RetailSales	100	94%	0.98	(0.95, 1.02)
	Storage	59	72%	0.98	(0.9, 1.05)
Warehouse	Office	15	88%	0.71	(0.64, 0.79)
	OtherMisc	15	73%	0.73	(0.64, 0.81)
	Storage	12	50%	0.95	(0.78, 1.13)

Application of Results

In this section, we provide an example to give guidance on the application of the results. We apply the two methods to our own data to estimate CFL usage at office activity areas within office buildings. We start with an application of the business hour rates and then show how the self-report factors can offer an additional refinement. It is important to note that the estimation techniques presented in this paper are meant to be applied to a large survey sample; they are not meant to accurately predict usage at a single site. Since the estimation techniques are sensitive to business hours at the individual sites, they must first be applied to each site in the sample and then aggregated to represent the desired population-wide lighting usage.

Application of Business Hour Rates

For each site in the sample, apply the business hour rates to each appropriate business hour period. The dotted line in Figure 2 is an example of this application to a single site. The dashed line shows the business's opening and closing times.

Figure 2: Application of the Business Hour Rates to a Single Site

Once the business hour rate estimates have been applied individually to all sites in the sample, the estimated usage profiles should be aggregated to create the desired population-wide lighting usage estimate. This population-wide estimation is shown in Figure 3. The Actual usage is also shown on Figure 3 to allow for a comparison with the estimate.

Figure 3: Population-Wide Actual Usage, Business Hours, and the Business Hour Rate Estimate

Application of Self-Report Adjustment Factors

As discussed in the Results section of this paper, the self-report adjustment factors can only be applied to self-reported usage during Open periods. In Figure 1, we saw a self-reported usage rate of 80% during the Open period. Table 6 tells us that this usage rate should be multiplied by a factor of 0.68. Thus, the estimated usage at this particular site during the Open period would be 54%. The estimates for the Closed and Shoulder periods are the same as the business hour rates.

Once these estimates have been applied individually to each site in the sample, they should be aggregated together to produce the desired population-wide estimate. This is shown in Figure 4.

Figure 4: Population-Wide Actual Usage, Business Hours, and the Self-Report Adjustment Estimate

Conclusion

This paper provides evaluators with a cost-effective method for obtaining accurate lighting usage estimates in commercial buildings. With the business hour rates, evaluators can leverage simple business operating hours into reliable estimates of lighting use shapes. With the self-report method, evaluators can further refine their estimates to contour their lighting load shapes to the unique characteristics of the buildings under their study. Because these results are provided at a detailed level, evaluators have the flexibility to apply them based on the specific building type, activity area, and business hour characteristics of the population under their study.

References

Cochran, W. 1963. *Sampling Techniques*. New York: John Wiley & Sons.

Itron, Inc., et. al., 2010. *Small Commercial Contract Group Direct Impact Evaluation Report*. Prepared for the California Public Utilities Commission, Energy Division.

Appendix J

Responses to Public Comments

Subject:	Page:	Question / Comment	Comment or Question:	Response
Use of Industry Standard Practice as a Baseline Should Be Net Savings	Over-Arching	Question	Ridge et al. (2013) describes the use of Industry Standard Practice (ISP) as the baseline for calculating gross savings to produce an estimate of net kWh (and of kW) that needs no further adjustment using the estimated NTGR. This reference provides further guidance on this issue. It is our firm belief that the evaluation's use of the NTGR in conjunction with the use of ISP as the baseline for estimating gross savings results in an inappropriate double reduction in IOU net savings. Could the final report please correct this double reduction, or provide a detailed justification for the use of ISPs as a baseline and its use of a subsequent reduction to savings through an application of a NTGR multiplier? Stated another way, could the report please explain why the use of ISP as the baseline for calculating gross savings does not produce an estimate of net kWh (and of kW) that needs further adjustment using the estimated Net to Gross Ratio (NTGR)?	The CPUC's guidance is to generally set ISP at a level that reflects what efficiency level the market typically meets or beats, in the absence of the program. The extent and direction of any gap or overlap between the gross and net analyses depends principally on the distribution of efficiency levels across the entire market (not just participants) in the absence of the program. The NTG end user questionnaire addresses whether the respondent is likely or not to have installed the high efficiency measure in the absence of the program; it does not address the question of what baseline is most appropriate for the gross savings estimation. That determination was made using customer responses to establish baseline and then determine industry standard practice from the CMST data. The NTG algorithm used for the 2010-12 WO029 evaluation purposefully excluded an adjustment for partial free ridership due to intermediate efficiency. If ISP or significant elements of dual baselines are set at an efficiency level that eliminates or virtually eliminates gross savings, then double counting with zero or very low NTG estimates can occur. Conversely, setting all gross baselines at code or market minimums can result in overestimating net savings, even after application of a NTG ratio, if the entire market's typical practice absent the program is well above code or market minimums. Actions that our evaluation team took to avoid underestimation were to set ISP conservatively and exclude the partial free ridership adjustment associated with intermediate efficiency adoption from the NTG algorithm. Additionally NTGRs were weighted by site and measure specific ex post kW and kWh values. Therefore, if the ISP baseline resulted in a zero savings value, then the weight corresponding to that NTGR would be zero. Therefore, site-measure specific results with zero ex post savings did not affect the NTGR. For HID measures, the baseline was retained as the existing fixture type for early retirement and ROB cases; therefore, potential impact of ISP determination on net savings is a non-issue. All installations in which screw-in CFLs were replacing incandescent bulbs were assigned the ROB baseline as the remaining useful life of incandescent bulbs used in commercial buildings did not support the assignment of the early retirement baseline. The ISP baseline, however, was established from the CSS data (mix of incandescent and CFL bulbs) which the evaluation team believes was a conservative assignment that favored higher gross savings and would not have material impact on net savings.
				For T12 projects that were assigned the ROB baseline based on customer responses, the ISP baseline was assigned using the data from the CMST surveys in which only 1-2% of recent installations were reported as using T12 fixtures. Since the T12 technology was being phased out by EISA and the market practice was overwhelming suggesting that T12s were not the typical practice replacement, it would not be appropriate to consider T12s as a viable ISP baseline. The evaluation team believes that the risk of overstating gross savings by using T12s, which were not going to be available, as the ISP baseline would have been far more as compared to assigning a more efficient ISP baseline from the CMST data. For these reasons, the evaluation team used ISP baselines for linear fluorescents and high bay applications from the CMST survey data collected during the 2010-12 period. These data suggested that roughly 11 % of recent linear fluorescent installations were using the second generation T8s, 49% of recent installations were still being done using the 700-series T8 fixtures, and 33% were using high efficiency T8s. While this evidence suggested that typical market practice could be to install second or later generation T8 fixtures, the evaluation team considered the prevalence of recent 700-series installations and established an ISP baseline that was conservative but not the lowest efficiency available in the market. This way, gross savings were not overestimated and customer responses capture net savings appropriately. The evaluation team believes that the selection of ISP baseline approaches used in this evaluation still require a net adjustment and no further action needs to be taken. The evaluation team notes that assigning an appropriate baseline and reporting dual baseline savings in the IOU claims could facilitate a further refinement to the current NTG methods.
Savings Adjustment Due to Use of Commercial Market Share Tracking Data Containing Spillover in its Estimates	Over-Arching	Question	The Commercial Market Share Tracking (CMST) data were used to develop the industry standard practice (ISP) for the baseline wattages. The estimates in the CMST study include normal adoption as well as participant spillover (which may have been influenced by previous program participation), and nonparticipant spillover (as noted by the CMST authors). Consequently, savings from the nonresidential downstream lighting impact evaluation is underestimated. Could the final report provide an adjustment to savings to account for its use of baseline wattages that contain participant and nonparticipant spillover?	The effects of spillover are expected to be negligible. First of all, participants are not included in the ISP wattage estimates, so participant spillover would not affect this result. Secondly, it is likely that at most, only a small number observations used to develop the ISP wattages would be affected by nonparticipant spillover and removing these observations would likely have very little impact on the final wattage values used.
Net to Gross Ratio Methodology Omissions	Over-Arching	Question	The draft report states that "the approach for estimating net- to-gross ratios (NTGRs) was based on the large non-residential free ridership approach developed by the Net-to-Gross Ratio (NTGR) Working Group and documented in Appendix C, Methodological Framework for Using the Self-Report Approach to Estimating Net-to-Gross Ratios for Non-residential Customers." However it does not appear that the report follows this methodology (page 439). In particular, Appendix C calls for the Basic NTGR methodology to use decision maker surveys in addition to file reviews, vendor surveys, and utility and program staff interviews (Appendix C, page 5, Table 1). Can the report explain why this evaluation used only self-reported values and did not follow other key aspects of the methodological framework? If that is the case, what are the possible impacts on the results?	The NTGR approach for lighting only utilized the basic approach. In this approach, the vendor influence only is used in the PA1 score, which only affects one third of the overall score. The only time the vendor influence affects the PA1 score is if it was rated higher than any other program factor. Participants were asked to rate the vendor influence on a 1-10 scale, and then this score would be adjusted by asking the vendor their influence from the program on recommending certain equipment. The participant only scored the vendor influence higher than any other program factor less than 5% of the time. We did perform a sensitivity analysis using the participant vendor influence score and assuming a rating of 10 by the vendor (so that the participant score received full credit) and the overall NTGR hardly changed, by only 0.1%. Therefore, not conducting vendor surveys had negligible effect on the impact evaluation results. Regarding the use of account representitive information, this was not gathered. For small deemed projects, the influence of account representatives is not applicable, and for larger projects, documentation was not always available that would allow for the account representative to be identified.
Use of Independent EUL Methodology Necessary for Updating DEER	Over-Arching	Question	The evaluation estimated Effective Useful Life (EULs) using the DEER EUL methodology which includes a 15-year lighting measure life maximum. However a fundamental purpose of impact evaluation is to provide independent savings and parameter estimates, which are generally used to update DEER. This renders the evaluation's EUL methodology as non-independent. As noted in the report, there is an increasing downward trend for average hours of use for efficient lighting technologies due to increased saturation of energy efficient lighting technology into lower-use sockets. Using DEER's 15- year cap will further bias lifecycle saving estimates downward. The joint electric utilities request the evaluators: (1) use an EUL method not tied to DEER to provide the evaluator's best estimates of EULs, (2) update the reports' EULs and lifecycle savings if necessary, and (3) provide a recommendation as to whether the DEER EUL methodology should be modified, specifically the EUL cap of 15 years.	This independent evaluation was conducted within the framework of the CPUC policies. Developing a new EUL algorithm and estimating EULs outside the use of the DEER algorithm were not part of the scope of this evaluation. Therefore, the evaluated lifecycle savings are not necessary to update. We cannot make any recommendation on modifying the DEER methodology or change the EUL cap of 15 years since the study was not designed and implemented to address this research question.
Greater Detail on Report Recommendations	Over-Arching	Question	Could the report specify the findings which led to the recommendations provided in Chapter Six? This detail will allow the utilities to make targeted actions and avoid spending resources to track down problems in areas where they may not apply.	We believe the recommendations that are offered in Section 6 are supported by findings. Additionally, the evaluation team has added references to each recommendation in Section 6 that specify what subsections within the report have data that support these findings and subsequent recommendations.
Request for High- Level Summary Table of Key Parameters	Over-Arching	Question	We appreciate all of the results contained in this report, but as we review values we are challenged to understand why some realization rates are high and others are low. To assist us in gaining this understanding, could the report add a summary table that shows high-level results for key parameters for each utility's gross program group (e.g., PG&E deemed, PG&E custom, PG&E 3P, PG&E LGP/DI, etc.)? These parameters could include installation rates, hours of use, delta watts, and others the authors feel are most explanatory in affecting the Gross Realization Rates (GRRs) for each key HIM (e.g., CFL Basic, CFL Reflector, High Bay, HID, Delamping, Linear Fluorescent, Occupancy Sensor). The addition of this summary table would enable program managers to identify parameters needing improvement in future program cycles.	Appendix G.9 provides a detailed discussion on how differences in ex ante and ex post parameters lead to differences in the realization rates. As stated in the appendix, ex ante parameter values were not know for all measures, so our comparison was limited to those that we had ex ante data on. However, we did have data on the large majority of sites. We have added tables to Appendix G.9.1 that summarize these values at the IOU-gross program group-measure level, although they are placed in ranges rather than absolute values because of the reason mentioned above. We have also added a table in Section 5.1.1 that summarizes these same values at the statewide and measure level.
Discussion of Sampling Methods, Sample Dispositions, Study Biases and Limitations	Over-Arching	Question	Could the final report include a discussion of the sampling methods and the resulting response rates? The joint electric utilities believe that it would be useful for the Energy Division to develop a set of sample disposition reporting standards that could be required for inclusion in all future impact evaluations. This would allow for response rate comparisons to be made across multiple impact studies. While this study succeeded in collecting a large amount of data, the draft report does not provide a discussion of possible study limitations or biases that are inherent to any study of this size, nor does the report provide the confidence intervals for the point estimates that are provided. Can a discussion of the biases and data gaps that may exist, and the resulting possible impacts on the results and conclusions be provided? Can the final report provide confidence intervals for the point estimates?	Appendix G.3 discusses the sample design and also references the research plan which discussed this in more detail, which is a public document and was posted on Basecamp. We have also provided tables in Appendix H that contain the survey disposition and response rates. Relative precisions (from which confidence intervals can easily be calculated) are provided for key results throughout Section 4, Section 5 and Appendix G, and most importantly for the GRR and NRRs. Regarding the effects of potential biases, we feel that results that are based on very small samples sizes are more likely to be affected by potential biases. As stated in the report, results that were based on small samples were italicized so the reader was aware of this. Furthermore, final realization rates were not developed for any segments based on small sample sizes. We do discuss data gaps, such as incomplete participant applications, but it is not known how these data gaps may have affected results.

Subject:	Page:	Question / Comment	Comment or Question:	Response
Clarity and Consistency on How Install Rates are Determined and Used to Estimate Gross Realization Rate (GRR)	Over-Arching	Question	Could the report indicate which of the results provided in Section 4.2 ("Installation Rate Analysis") were used to estimate GRR values in Chapter 5? Specifically, did the analysis use the "installation rate" (in this report defined as the ratio of "Quantity of measures installed and operable from on-site visit" to "Quantity of measures reported installed in tracking system") or the "received rate" (that adds to the numerator the incented measures found in storage, other locations and/or failed/removed)? If the analysis was based on the "installation rate", can the impact of the measures stored, placed in other locations, and/or failed/removed be added to this report's GRR to make it consistent with the 2010-2012 Upstream Lighting Program (ULP) Evaluation (see section 3.1.4 in the ULP report)? Alternatively, can the impact of measures found in storage from the last cycle's evaluation be added to this evaluation's results? The report states: "In addition to identifying the amount of equipment that was installed and operable, the auditor also identified the amount of equipment that was placed in storage, sent to another location, or had either failed or been removed for other reasons" (see page 4-4). These reductions to installed measures were used in past persistence studies to develop EULs. If the EULs already include a reduction for stored, removed, and/or failed measures, aren't savings estimates being adjusted twice for these factors? Did the research explore and find possible explanations for measures with "received rates" smaller than 95 percent? Some of these missing measures may have been stored or installed elsewhere, or burned out/removed by personnel other than the respondents contacted by evaluators. Absent such explanations, the report could be underestimating savings.	It is important to note that installation rates are not explicitly used because this is not a UES approach, but rather a realization rate approach. Therefore for every site and measure in the analysis sample frame, a site-specific estimate of ex post energy savings was developed based on the quantity of equipment found to be installed and operable. Therefore an installation rate is not explicit, but is implicit in the realization rates. The installation rates provided in Section 4.2 are for informational purposes only. As mentioned, ex post savings is only based on downstream rebated equipment found to be in place and operable. It is also important to note that only about one quarter of one percent of ex-ante claimed installations are associated with stored equipment. Regarding past EUL studies, those studies were done over a 9 year period using a retention panel that was created from on-site data gathered a year or more after the equipment was installed. The failure analysis performed on the retention panel data to develop the EULs was only based on the equipment found to be in place and operable during that first on-site visit. Any equipment that had failed or been removed prior to that on-site visit was not included in the EUL analysis. Therefore, the EUL analysis does not incorporate any failures or removals that occurred during the first year or so after installation. Therefore, the fact that this evaluation does not included failures and removals in the installation rate does not double count the effects of the EUL. Every attempt was made to identify rebated equipment. Reasons why installations differ from 100% are documented in Section 4 and Appendix G.5. However, because only equipment in place and operable are counted towards savings, if equipment had been received and not identified as such in the evaluation, it would not affect the final results.
Executive Summary, goal of evaluation	Page 1-1	Question	Can the executive summary clarify that the goal of the impact evaluation did not include estimation of spillover?	Yes, a footnote was added to the Executive Summary and Section 2.
Summary of results: lifecycle savings	Pages 1-6 and 1-7	Question	The description on p. 1-3 shows that tables 1-1 thru 1-4 will present first year and lifecycle savings. Table 1-3 is titled, "Lifecycle MW Savings", but the column headings are all for first year. Is this a typo? Similarly, Table 1-4 is labeled "First year GWh Savings", and all column headings are for first year, but should the table title and column headings be lifecycle savings?	Yes, this was a typo. It has been corrected.
Summary of results	Pages 1-4 through 1-7	Question	There are several line items in Tables 1-1 through 1-4 where there are significant variations among IOUs from the rest of the group. Can these items be addressed in the report, to explain the differences among IOUs? For example, in Table 1-2, why is SDG&E's CFL Basic GRR .71, while PG&E's is .28? It would be extremely helpful to the IOUs to understand what caused the differences? Why are they so different from IOU to IOU?	As discussed in the comment above, we have added tables to Appendix G.9.1 that summarize these values at the IOU-gross program group-measure level, although they are placed in ranges rather than absolute values because of the reason mentioned above. We have also added a table in Section 5.1.1 that summarizes these same values at the statewide and measure level.
Recommendations	Page 1-9	Comment	The evaluators recommended that the industry standard practice wattages should exclude the 700 series T-8 fixtures for future unit energy savings values. The ban on 700-series T8 lamps was delayed to July 2014, and there will be a lag time between when this ban on manufacturing and importing takes effect, and when all 700 series T8s are no longer available for purchase. We recommend that future evaluations continue to include 700 series T8s as part of the baseline until market studies (e.g., shelf surveys, contractor and distributor interviews) indicate that these products are no longer being installed.	Comment noted. We have revised this recommendation.
Recommendations	Page 6-1 through 6-5.	Comment	Some of the recommendations are already being implemented in the 2013-14 program cycle and/or are not in accordance with Ex-Ante Team guidance received. Would the evaluation team consider closer review of or coordination with the ex-ante team guidance, to ensure that recommendations are meaningful and do not create uncertainty due to conflicting guidance received?	The comment does not specifically cite the recommendations that are in conflict with guidance received from the ex ante team. This report presents recommendations for consideration. The program administrators should confer with the CPUC for implementation of these recommendations.
Calculated program documentation	Page 1-10	Question	In the report it is recommended that the Investor Owned Utilities collect more data. The programs are already collecting a considerable amount of information per project. Additional data collection may result in a greater burden on customers and trade allies (e.g., contractors). The programs must balance evaluation needs with streamlining the application process. Can the report include the recommended new fields, as well as the fields not used with current applications (for potential elimination)? We also recommend that these data needs are identified at the beginning of the program cycle and remain constant, as much as possible.	The recommendations for calculated program documentation focus more on the format and process by which information is delivered to the evaluation team rather than the amount of data collected by the Investor Owned Utilities. The majority of application documentation that was supplied throughout the data request process was sufficient which suggests that these data are already being collected. Calculation workbooks that detail the inputs, assumptions and parameter estimates that went into savings calculations were sometimes lacking and should always be included in the data request. The recommendations outline ways in which that can be achieved.
Gross program grouping	Page 2-5	Question	For PG&E, local government partnership (LGP) programs were combined with direct install (DI) programs for the "gross program group". But these types of programs were grouped separately for SCE and SDG&E. LGP and DI programs are different program delivery methods, and the results for LGP programs are substantially different from results for DI programs for the SCE and SDG&E. Can the report explain why LGP and DI programs were grouped together for PG&E? Also, can the report state what impact this has on the overall results?	The DI program group was created only for the IOU run direct installation programs, which only SCE and SDG&E had. The PG&E programs classified as DI under the DI/LGP segment were run by third parties. PG&E assisted the evaluator in developing these segments, and classifying their programs into the various gross program groups during the research planning phase of this project. The gross program group was initially just referred to as LGP, but the additional designation of DI was added because many of these programs utilized a direct installation approach. Realization rates are developed at the measure, IOU and Gross Program Group level, and samples are drawn randomly within a segment. Therefore a random sample of participants that correspond to various programs are selected within a gross program group. For PG&E, their IOU level results should not be affected because they would be weighted to represent the fact that the DI/LGP segment contains all of these programs.
EEMs & Programs evaluated	Table 2-3 (Page 2-5)	Question	Can the report add discussion to clarify what energy efficiency measures (EEMs) were evaluated and reported on in this effort versus in WO033? This table is confusing as it includes core custom measures that we thought were included in the WO033 report.	This evaluation only evaluated nonresidential downstream lighting, including participants in the core custom programs. WO033 did not evaluate any lighting measures. Therefore, any lighting measures found in the core custom programs would only be evaluated in this study, not the WO033 study.
Energy savings equation	Page 2-10, Page 4-27, and Appendix G	Question	The equation shows that the "percent on pre hour" was determined separately from the "percent on post hour", although notes after the equation state that these values are often equal. In the appendix, it appears that these values are equal for all measures, except for occupancy sensors. Can this be explicitly stated on page 4-27 and in the corresponding sections of Appendix G? Alternatively, can the report provide two different equations - one for all HIMs except occupancy sensors, showing the "percent on hour" outside of the parentheses (to illustrate that it is the same value pre and post), and the second equation just for occupancy sensors?	We have modified the report to state that for all measures, except occupancy sensors, the pre-retrofit hours were assumed to be equal to the post-retrofit hours.
Interactive effects	Page 2-10	Question	Can the report state the impacts of the interactive effects on the results, at the HIM level, and aggregated for all programs evaluated here? Please provide: 1. the resulting therm "savings" (which will be negative), and 2. the MW and GWh savings with and without the interactive effects. By providing information at the HIM level, it will help the IOUs understand how each value was calculated. By providing the aggregated interactive effects, the IOUs can better understand the total impact of the interactive effects on these programs.	Evaluating therm savings was not under the scope of this evaluation, however, because the therm savings are a linear function of the kWh savings, the realization rates developed for kWh can be directly applied to the ex ante therm savings. We cannot generate the MW and GWh savings values without interactive effects. Aggregate savings values presented in this report are generated by multiplying the corresponding realization rates by the ex ante savings claimed in the tracking data. The tracking data do not provide savings estimates without interactive effects applied, and the interactive effects used to develop the ex ante savings values are not provided in the tracking data, so we cannot "back out" the savings values without interactive effects.
Sample design	Pages 3-1 through 3-3	Question	Can the report indicate if the on-site sample design presented in Table 3-1 is the original sample developed based on 2010 participation, or the revised sample based on the "quarterly revisits"? The description on page 3-2 suggests it is the original sample designed in 2010, but the introduction to Table 3-1 states, "Table 3-1 below summarizes the resulting sample	Table 3-1 contains the final sample design. The research plan referenced in the report contains the initial sample design. This is a public document that was posted on basecamp. We will modify the description on page 3-2 to clarify this.
Sample Disposition	Chapter 3 (Pages 3-1 - 3-13)	Question	Can the report provide tables that compare the sample the study sought to get versus actual sample and the percent of the savings claim for each EE measure and/or program covered by each actual sample?	Table 3-1 contains the final sample design, or what we sought to achieve. Table 3-5 contains what was actually achieved. Regarding the final question, over 100,000 sites participated in one or more of the various HIMs studied in this evaluation, so it would not be meaningful to provide the percent of the population covered by each segment's sample as these values are typically less than one percent.
HOU adjustment	Sections 3.1.4 & 4.4.2 (Pages 3-2 through page 4-20)	Question	Does this study have evidence to support its assumption that any self-report bias on HOU will not change over time, and can this be explained in the report? Large shifts in self-report bias have been found (for example under-reporting to over- reporting CFLs in homes by 50% over a three year period in MASS). The report assumes that the self-report bias found in 2006-08 is still applicable to 2010-12. Did the research gather data to support this assumption? Also, how large was the adjustment to HOU?	The evaluation did test to validate this approach as was documented in the report in Appendix G.6.2. We cannot say how reliable these estimates will be over long periods of time, but in the short term, based on the results presented in Appendix G.6.2, the approach was very successful. While the adjustments varied based on the measure/building type/space type, overall, we found that actual operating hours were about 15% less than the self reported values for both CFL and linear measures. Likewise, we compared the 06-08 adjustments to the combined 06-08 and 10-12 adjustments and they compared very well.

Subject:	Page:	Question / Comment	Comment or Question:	Response
Sample design	Page 3-2	Question	The report states that sample sizes needed to meet the relative precision targets were based on estimates of coefficients of variation obtained from the 2006-08 Small Commercial Contract Evaluation. Can the report include these coefficients of variation? Can the report explain how they were compared to the actual observed coefficients of variation?	Specific COVs were not used, but rather ranges of COVs were assumed to achieve results that would fall into a general range of precision, rather than achieve a specific value. This is discussed in the research plan which was referenced in the report and is a public document on basecamp. COVs were not compared, but relative precisions were provided and the report discusses the level of success the study had in meeting targeted levels of relative precision.
Sample design	Page 3-2	Question	The sample was stratified by measure, IOU and program groups. Can the report include how the weights were calculated?	The final results of this study are a set of net, gross, first year and lifecycle realization rates that are developed at the measure, IOU and program group. Samples were drawn randomly within each of these segments, so weights were not explicitly used to develop the segment level realization rates. However, because the calculation of a realization rate is a sum of site-specific ex post savings divided by the sum of the site-specific ex ante savings, customers with larger savings had more influence on the overall realization rate. Realization rates were then applied to the population, to get estimates of ex post savings for the entire population of nonresidential downstream lighting participants that participated in one of our evaluated segments. Aggregate results were based on just summing up these population ex post savings values, so again weights were not explicitly used, but segments with more savings had more influence on the overall population level results.
Sample design	Pages 3-3 through 3-4	Question	Can the report explain if business type or business size (beyond large calculated) was considered in sample design? The description on p. 3.3 does not indicate it was, but on p. 3-4, the report identifies "market segments". Do these refer to specific business types? The appendices also show a breakout by business types. Can the report describe if and how business type and facility size were accounted for in the sample design?	Business type and size were not considered in the sample design. Priority was given to providing results by IOU, measure and program group, rather than by measure and building type as was done in 2006-08. Given we have 7 measures, 3 IOUs, and up to 5 program groups, additional levels of segmentation were not feasible given the overall sample. However, at times we do present some operating hour results by building type, but this is more for informational purposes.
Coverage	Table 3-2 (page 3-5)	Question	Can the report provide more details on what % of the savings claim is covered by the sample used for each EE measure or program sample shown?	As mentioned above, over 100,000 sites participated in one or more of the various HIMs studied in this evaluation, so it would not be meaningful to provide the percent of the population covered by each segment's sample as these values are typically less than one percent.
Sampling	Table 3-5 (Page 3-7)	Question	Given that the evaluation had a limited number of unique sites, how did this evaluation test whether it was representative of the variety of premises that participated in 2010-12?	The study developed results for 50 segments, which ensured that, at a minimum, the population was represented by each of those 50 segments. Each segment was supported by a sample size of at least 9. Furthermore, every realization rate developed, except one, was found to be statistically significant at the 90% confidence level. Results were also presented in the report for more than these 50 segments. Additional segments, based on sample sizes of 6 or less, were italicized throughout the report to indicate that the sample size was small. Realization rates were not developed for these smaller segments, therefore, study results were only based on segments that were considered to have a sufficiently large sample size.
Sample Dispositions	Tables 3-5 through 3-9: pages. 3-7 through 3-11.	Question	Response rates for both on-sites and telephone samples are not reported. Can the report include tables for both telephone and on-site sample containing the detailed disposition of the sample consistent with *Standard Definitions: Final Dispositions of Case Codes and Outcome Rates for Surveys* developed by the American Association for Public Opinion Research (2009)? We recommend the following rates be reported: 1) Response Rate 1 (RR1) and 2) Response Rate 3 (RR3). Definitions of each are provided in the Standard Definitions. Evaluators may report any other measures of survey outcomes that they think are important such as refusal rates, cooperation rates and contact rates. Do the evaluators agree that it would be helpful to have a set of sample disposition reporting standards that could be used for all future impact evaluations? This would allow for response rate comparisons across multiple impact studies.	We have added two additional tables the Appendix H that detail the survey disposition.
On-sites used	Page 3-7	Question	Table 3-1 presents sample sizes based on 2010 participation data. Can the report include a comparison of the sample sizes in Table 3-1 to 2010-12 participation data? Can the report explain the reasons for large discrepancies between Table 3-1 and the actual number of on-sites in Table 3-5? Can the report explain what impact this may have on the overall results?	Table 3-1 is the final sample design based on 2010-12 participation. We added a table to Section 3.2.1 that presents each segment's percent contribution towards 2010-12 total nonresidential downstream lighting kWh savings by IOU. The report already explains why certain sample quotas were not met, due to insufficient levels of participation. Any deficiencies in achieving the sample size targets would result in higher values of relative precision than desired, or in one case, realization rate results not being generated (and therefore ex ante results would be passed through).
On-sites used - HIDs	Page 3-7	Question	The number of on-sites used generally equaled or exceeded the sample design for all HIMs, except for HIDs. Can the report describe why the total achieved was lower than the target, and how this may have affected the results? If the number of on- sites for HIDs was low because participation was lower than expected, was a census attempted, as was done for large Calculated sites?	A census was attempted for HID measures because of lower than expected participation. As mentioned above, deficiencies in meeting the sample size targets resulted in higher levels of relative precision values.
Non-response bias	Pages 3-7 through 3-11	Question	Assuming the telephone survey response rate was less than 100%, did the evaluation investigate whether there were any systematic differences between the respondents and non-respondents in the telephone surveys that might have produced biased estimates? If yes, can those results? If no, was it assumed that the data were missing at random and weighted for non-response?	Stratification is one technique that was used to reduce response bias. Segmenting by IOU, measure and program type, helps to eliminate response bias across these segmentations. No other analytical methods were employed, however.
Non-response bias	Pages 3-7 through 3-11	Question	Assuming the cooperation rate for on-sites was less than 100%, did this evaluation investigate whether there were any systematic differences between the customers who were willing to agree to on-site visits and those who weren't that might have resulted in biased estimates?	As mentioned above, stratification is one technique that was used to reduce response bias. Segmenting by IOU, measure and program type, helps to eliminate response bias across these segmentations. No other analytical methods were employed, however.
HOU estimate method	Page 3-8	Question	Can the report provide more detail on the lighting loggers? The report states that the average time they were installed was 7 months, but what was the minimum? How well was the full year covered? Was most of the metering done during a specific season?	A minimum of 2 weeks of data was used as a threshold for using logger data in the analysis. 94% of loggers had more than a month of data. Loggers were installed throughout different periods of the year and seasons were well represented including seasonal schedules for business types like schools. A figure has been added to Appendix G.3.4 that provides the distribution of logger installation periods (by months installed).
HOU estimate method	Page 3-9	Question	What percent of claim was subject to logger data?	We have provided a table that details what percentage of total nonresidential downstream lighting kWh is represented within each segment (by IOU). These data can easily be compared against Table 3-6.
Time-of-use	Page 3-13	Question	Concerned that 8760 TOU hours were aggregated for Ag/Comm/Ind custom. These sites tend to be very distinct. Could the report recognize this issue and include it in a list of caveats?	To develop the final realization rates, hours are not aggregated across customers, or even measures. Site-measure-activity area 8760s are developed and used to create ex post savings at that same level. Then savings values are aggregated within a segment to develop the GRRs. Op hours are presented in the report, but these average values are not being used to develop the realization rates.
Interactive effects	Page 4-2	Question	This section mentions an analysis of interactive effects, but we did not see any results. Nor do we see where they might have been used in this report. Can an analysis of interactive effects be included in the report?	An analysis of interactive effects was not conducted, nor was it part of the scope of the study. DEER values for interactive effects were used and applied to develop the ex post impacts that were then compared to ex ante to develop the GRRs. This is stated in Section 2.4, Section 4.1 and Appendix G.4.
Installation Rate Analysis	Page 4-2	Question	Did the evaluators use the IOU value of "installed" lamps based on post-install IOU verifications or the initial lamp incentive number to develop the denominator of the installation rate?	The installation rate denominator is the total number of units that were claimed in the tracking system for each measure.
Installation Rate	Page 4-3	Question	For the installation rate, can this evaluation include a Herfendahl index (HHI) type of measurement to show "market concentration" of how concentrated the number of units is in a small number of sites (vs having to report each site's number of units, though a thorough table like this would be useful as well)? If install rates are being used as performance measures to evaluate whether or not the market is adopting new lighting, this measurement is too aggregated. It hides the market structure. For example, we observe an installation rate of 95%. This rate can come from a number of different types of combinations of individual site sizes and site specific installation rates. Scenario (1): 10 sites, each installing 100 units (1000 total), each at a rate of 95%. Scenario (2) 10 sites, 1 installs 950 units (95% of 1000 total). The rest install the remaining 50 at 0%. Both scenarios yield the same installation rate, but arise from drastically different situations. Knowing these market structure differences is important for a proper evaluation of the program, but even more important for informing future design. Can a concentration measurement be reported?	Conducting this type of analysis was not considered as part of the scope of this study.

Subject:	Page:	Question / Comment	Comment or Question:	Response
Installation rate	Page 4-4	Question	Can the report further explain in section 4-4, or in Appendix G.5 (which is largely a repeat of this section of the main report) what the installation rate analysis, and what the receipt rate analysis entailed? As part of this discussion, can the report describe whether a site map was provided to the evaluator to assist him/ her in finding measures?	Appendix G.5 describes the received rates as "the percentage of rebated measures that were actually received by the participant…" which includes all those measures that were installed and operable at the time of the on-site audit plus all lamp/fixtures that had been removed/moved to another facility/burned out/replaced, etc. This measure quantity is then divided by the total number of rebated measures reported in the tracking system. Likewise, the installation rate is the percentage of lamps/fixtures that were installed and operable at the time of the on-site audit divided by the total number of measures reported in the tracking system. Calculated applications often described in detail where equipment was installed. Furthermore, Site Contacts also assisted our on-site auditors in identifying where measures had been installed.
Storage	Page 4-4	Question	It is unclear how the measures identified in storage were counted. Can the impact of these savings be added to this report (as will be done for the ULP 2010-12), so that the evaluations use a consistent methodology? Alternatively, can the impact of bulbs found in storage from the last evaluation to this current evaluation be added to the report? This will ensure that savings will not be lost simply due to differences in program cycles.	As discussed above, ex post savings is only based on downstream rebated equipment found to be in place and operable.
Measures in other locations	Page 4-4	Question	For program measures sent to another location, was there an attempt in this evaluation to understand if these were sent to another location in IOU territory, and if they were installed? It does not seem appropriate to assume that all of these measures should be counted as lost savings, if they were sent to and installed in another location within IOU territory. Can the report include an estimate for a fraction of these measures installed, based on any information collected about these measures sent off site?	The report presents the percentage of measures sent to another location in Section 4.2 and Appendix G.5. It is a very low percentage, less than 1%. Additional data was not collected for these measures installed in other locations.
Installation rates	Page 4-4	Question	The report states: "In addition to identifying the amount of equipment that was installed and operable, the auditor also identified the amount of equipment that was placed in storage, sent to another location, or had either failed or been removed for other reasons." Aren't at least some of these reasons already incorporated into the EUL? To the extent that they are, aren't the utility savings in effect being adjusted twice?	As discussed above, regarding past EUL studies, those studies were done over a 9 year period using a retention panel that was created from on-site data gathered a year or more after the equipment was installed. The failure analysis performed on the retention panel data to develop the EULs was only based on the equipment found to be in place and operable during that first on-site visit. Any equipment that had failed or had been removed prior to that on-site visit was not included in the EUL analysis. Therefore, the EUL analysis does not incorporate any failures or removals that occurred during the first year or so after installation. Therefore, the fact that this evaluation does not include failures and removals in the installation rate does not double count the effects of the EUL.
Install rates	Tables 4-1 to 4-7 (Pages 4-5 through 4-11)	Question	Can the report further clarify the installation rate? Is the installation rate in this report defined as the ratio of the number of widgets found by the evaluators to the number of widgets claimed after subtracting widgets in storage, other locations and/or failed/removed? Did the research explore and find an explanation for the remaining discrepancy between claimed and evaluated installations?	The report states that the installation rate is the quantity of measures installed and operable divided by the number reported in the tracking system. Equipment that is in storage, at other locations, failed, or removed is not considered in place or operable. Differences between claimed and evaluated are due to these factors (stored, failed, removed, other locations), as well as not having been received. Appendix G.5 and Section 4.2 in the report provide the disposition of each of these various factors that reduce the installed and operable quantity. Every attempt was made on site to determine the disposition of rebated equipment.
Statewide program group findings	Page 4-5 and others	Question	How are gross program groups rolled up to the statewide level, when the gross program groups are different for the IOUs? For example, for PG&E, LGP and DI programs are combined; for SCE, 3P and LGP programs are combined; for SDG&E, these program types are all separate.	The DI programs are only the IOU run DI programs. The DI programs under PG&E are considered LGP programs, but have a DI type of delivery mechanism. PG&E provided the evaluators with guidance on how to group programs into 3P and LGP. For SCE, DI, LGP and 3P are reported separately. For SDG&E there are no LGP programs, only 3P and DI. Therefore, DI contains the SCE and SDG&E IOU run DI programs; LGP contains the PG&E and SCE LGP programs; and 3P contains all three IOU's 3P programs. Section 2 provides a mapping of all IOU programs into these classifications. The IOUs were consulted during the research planning phase to help classify programs and create these various program groupings.
Response rate	Page 4-6	Question	Table 14 does not report a response rate. Can this be added to the table?	We have added two additional tables to Appendix H that detail the survey response rates.
Received rate	Page 4-7	Question	Can the report include an explanation of how the Received Rate for a Direct Install program can be <100%?	There are various reasons why this may be the case. It could be that there was a data entry in the tracking system. During the course of the installation, fewer amounts of lamps may have been installed than originally planned, but the original quantity was listed on the application. A vendor may have made an error overstating how much equipment was to be installed and though the application was correct when it was in error. These are just a few examples.
Extrapolating sampled results to general population	Page 4-11, 4-12, and other areas	Question	On pages 4-11 and 4-12, the report discusses that results were driven in some cases by 1 participant that accounted for a large fraction of the sample. Is it appropriate for this study to use the average value when extrapolating results, if results for that data set are not normally distributed, or to extrapolate results when the sample is very small? If so, please explain the rationale.	The average values for various parameters are not used in the actual calculation of the realization rates. Site-measure-activity area specific results are used to calculate ex post savings at that level.
Install rates	Page 4-12	Question	Was this evaluation able to gather data to explain why large calculated sites ended up with lower install rates when these are subject to post-install inspections whereas only a sample of small projects undergo post-install inspections?	Data was gathered to explain why installations rates differed from 100%, as presented in Appendix G.5. The primary reason the installations rates were not 100% was due to the received rate, which is true for both for Large Calculated and all other sites. However, the received rate for Large Calculated was slightly lower than for all other sites, resulting in a lower overall installation rate. It should be noted that the difference between installation rates typically is not large for segments with sample sizes greater than 6 as shown in Appendix G.5. For example, the installation rate for linear fluorescents for large calculated is 89% compared to 91% for small/medium calculated and 92% for deemed.
RUL and Early Retirement	Page 4-13	Question	Deemed projects are being treated as Early Replacement when they were actually Replace On Burnout. In 2010-12 the classification of Retrofit was often used interchangeably with Replace On Burnout (pre dual baseline implementation – so it did not trigger any different savings calculations as it does in 2013-14). Are the appropriate methods being applied as many cases the DEER values used already have code as the base case?	We examined every linear fluorescent, high bay, delamp and HID site as having the potential to be ER or ROB, regardless of being a deemed or calculated project. Site specific ER/ROB determinations were made and site specific EULs, RULs, and wattages were developed using on-site data which corresponded to the ER or ROB classification.
ROB/RUL and Early Retirement	Page 4-13 and Appendix G (page G160)	Comment	We are concerned that the early retirement analysis does not seem to consider that option of the customer continuing to repair the existing equipment. The survey does not ask if the customer would have replaced all of the equipment or simply replaced worn-out equipment. We have found a large number of customers that are currently able to replace magnetic ballasts and T-12 lamps. We believe that the early retirement percentages are under stated, particular for the DI program where customers generally will not even participate if there is a co-payment.	Noted. ER classification must follow the CPUC guidlines and there must be "a preponderance of evidence that an energy efficiency program activity induced or accelerated equipment replacement. Early retirement measures must provide justification that the existing equipment being replaced would have continued to function and perform its original design intent for a period of time in absence of the replacement."
ROB assumption	Page 4-13 and Appendix G (Page G160)	Comment	We are concerned by the assumption that if survey respondents say that equipment exceeds the 15 year EUL cap that a survey respondent's job is being classified as ROB. We have found a large number of customers that are currently able to replace magnetic ballasts and T-12 lamps. A fixture is mostly sheet metal and the lamps and ballasts can be replaced for a long period beyond the 15 year cap. At a minimum, these respondents should be re-classified as ER.	Noted. ER classification must follow the CPUC guidlines and there must be "a preponderance of evidence that an energy efficiency program activity induced or accelerated equipment replacement. Early retirement measures must provide justification that the existing equipment being replaced would have continued to function and perform its original design intent for a period of time in absence of the replacement."
EUL	Page 4-13	Comment	The study seems to present empirical evidence that the EUL for hardwired fixtures should be extended beyond the cap as operating hours in Table 4-15 (for example) average 3,331 and all of the installed equipment have electronic ballasts that are cited as having 70,000 operating hours. This calculates to 21 years. With a large number of sites in the study re-classified as ER or ROB, the 15 year cap should be raised to 20 years.	Noted. The data collected for this study are not sufficient to develop a new cap or approach for estimating the EUL.
Applicability of results	Chapter 4, e.g., Tables 4-13 to 4-21 (Pages 4-1 through 4-50)	Question	To enhance clarity, could the report show what was the total number of widgets or sites claimed (versus how many were evaluated) and % of the claim for that widget?	We added two tables to Section 3.2.1 that present each segment's number of unique participant sites and the percent contribution towards 2010-12 total nonresidential downstream lighting kWh savings by IOU.
RUL	Page 4-14	Question	Can the report clarify which questions in the customer survey were used and how they were scored to develop an RUL?	This is provided in Appendix G.8 Development of RUL
EUL	Page 4-14	Comment	The report states here (and in other sections) that, for many measures, the EUL used in the equation was the CPUC's cap of 15 years. (The ballast service life / annual operating hours exceeded 15 years, so the cap of 15 years was used instead.) We ask that the evaluation consider recalculating results based on a longer EUL. We hypothesize that the expected ballast service life is longer than the 15-year cap given the major reduction in operating hours due in large part to the increased use of lighting controls.	Noted. The data collected for this study are not sufficient to develop a new cap or approach for estimating the EUL.

Subject:	Page:	Question / Comment	Comment or Question:	Response
Project Basis	Page 4-14	Question	Appendix G also presents the distribution of all of the criteria used to classify customers into ROB, NR or ER. The most common reason for being classified as ROB is due to the age exceeding the EUL. This is true for the large majority of those classified as ROB. Can the report include the source data on customer equipment age to help SCE forecast future project savings?	The ER/ROB classification is based on participant phone survey data. The specific questions and algorithm are provided in Appendix G.8 Development of RUL.
RUL	Table 4-8 to 4-11 (Pages 4-15 through 4-18)	Question	Did the research find reasons for the large differences observed in results across IOUs and program interventions?	The RUL did not vary much by IOU, however the ER/ROB classification did. Customers are usually classified as ROB because the age of their equipment is near or beyond its useful life. Although we did not attempt to explain these differences, we assume that differences in the distribution of replaced equipment lead to differences in the ROB (and therefore ER) rates across IOU and program group. In other words, programs that had higher rates of ROB likely were replacing equipment that was older.
RUL	Page 4-19	Question	Was a sensitivity analysis done to examine whether RUL results might change if the analysis had used some other assumption than taking the mid-point of the 5-year bins? Given the experience gained in this research, would you recommend that future research ask respondents to indicate the age of the equipment rather than respond for 5-year range bins?	A sensitivity analysis was not conducted as suggested. The importance of age is to really identify if the equipment was at or beyond its useful life. In most instances the EUL is 15, and many customers reported the equipment being 15 years or older. So in these cases, the results would be insensitive to the approach taken to collect the data or apply the results of binned data. The only instances where there would be issues is when the customer self reported value was in a bin that also contained the EUL, which is not a frequent occurrence. Future data collection could try to gather the specific age and if a specific age can not be provided, then it should be assigned a bin.
DEER methodology RUL	Page 4-19	Comment	The report compares the DEER RUL to an estimated RUL based on customers' self-reported equipment age. The report states, "We find these results provide a good validation for the DEER methodology." Self-reported information is often unreliable; the evidence may not be sufficient to draw conclusions as to the validity of the DEER RUL.	Noted. We feel that, even though the data collected were self-reports, the results provided a validation of the current methodology.
Operating hours	Section 4.4, Page 4-19	Question	When referring to further details and/or data, could you please indicate where exactly in the report these details or data are?	We have provided more clarity as to which specific sub-section in the appendix these data can be found in .
Operating hours	Section 4.4.1, Page 4-19	Question	Given the consultants experience with the effort and cost of developing 8760 hourly load shapes, could they please comment on the value of such detail and uncertainty in the hourly estimates? In the view of the consultants, are there cheaper and less onerous options to estimate coincident peak load factors and peak impacts of the programs?	The CPUC policy requires cost effectiveness of electric energy efficiency measures to be evaluated based on the hourly impact on the grid. See Appendix G.6 for details on uncertainty in the hourly estimates and Appendix I for a paper on the methodology associated with adjusted self-report operating schedules.
Wattages	Section 4.5.2, Page 4-31	Question	Can the report clarify what portion of the savings claim analysis used which approach to estimate the pre-retrofit wattages? The second approach for example, could be affected by uninstalled or in storage. Also, the spare baseline lamps and ballasts in storage could have been purchased as a result of the program. For example, if 10% of the bulbs are in storage and the IR ~ 90%, then all the stored bulbs could be program induced purchases and not indicative of the pre-install baseline. Can the report explain how this study mitigated this issue?	It is difficult to discern what percentage of the pre-wattage observations were gathered from the first 4 approaches, but care was taken by the auditors to work with the participant in order to ensure that the right equipment was being classified as existing. The fifth approach, using average wattages, was implemented for roughly 30% (on average) of the pre-retrofit wattage sample of measures that were identifiable throughout the on-site inspection.
ISP Baseline for HID	Page 4-31 and 4-32, G-127	Question	Can the report clarify the role of pulse start metal halides as the ISP for HID measures? The report states that "there is no reliable estimate for ISP developed [for HID measures] for the 2010-2012 period." (Thus, pre-retrofit wattage is used for ROB customers.). However, the report continues, "for customers that are classified as ER, the post-RUL period utilizes a pulse start metal halides as the ISP." This would seem to imply that pulse start metal halides became the ISP sometime after the 2010-2012 period. If that is the assumption, can the report provide the basis & timeframe for that?	PSMH became required by code for lamps manufactured after January 1st, 2009, however, there were no data available to support that non-PSMH lamps were not still available on retail shelves during 2010-12. Therefore, for ROB cases, the baseline was considered to be the replaced equipment. But for the Post-RUL period, because this period would not begin until after 2012, the PSMH is used as the baseline as it is expected that the non-PSMH lamps would be phased out by then. We will note the Title 20 requirement in the report where relevant.
Presentation of results	4-33 to 4-39 and Throughout	Question	Throughout the report, "total" results (e.g., by IOU, or Statewide) are presented. What are these values? They are clearly not the numerical sums in many cases.	If averages are being presented in the table, it is the average for that total set of segments. If aggregate values are being presented, then it is a sum across that total set of segments. In many cases, 1 site can represent several measures, so the total site-measure count may not equal the unique site count. These occurrences are documented before the presentation of the tables.
Delta Watts in Table 4-23	Page 4-34	Question	For SDG&E Deemed, the pre-retrofit wattage for CFL reflectors seems low. The average of 37 watts is considerably lower that the value for PG&E/SCE and SDG&E's DI program. Can the report provide an explanation as to why the SDG&E deemed pre-retrofit wattage for CFLs is so low?	The SDG&E Deemed sample for CFL Reflectors included a site that had replaced low wattage CFLs (23W) with 15W reflectors. There were a couple of other sites that replaced lower wattage incandescents as well. These conditions were not seen in the PG&E or SCE sample.
NTGR	Section 4.6, starting on page 4-39; and Appendix C	Question	Do you have any recommendations to improve the scoring protocol for PAI-1, which we believe over-estimates free- ridership? The scoring factors (e.g., previous experience with measure, standard practice, corporate policy, compliance with rules or regulations, organizational maintenance or equipment replacement policies) can have varying degrees of program influence. They are partly reflections of spillover of previous years efforts and/or non-energy benefits (NEBs) used by the program to sell EE to the customer (recommendation from an engineer, "other"). Our programs rely on a variety of NEBs to convince the customer to adopt the EE measure, as E savings are seldom compelling enough to get customers to adopt an EE measure.	The program administrators should confer with the CPUC and the NTG working group to resolve concerns about the NTG approach.
NTGR	Section 4.6, starting on page 4-39	Question	How do the questions used for the PAI-2 score to identify the most important non-program influences ensure that these are indeed non-program? Customers do not always know how the program touches and affects what is available, accessible and/or affordable in the market. The amounts of $ the PPP puts into the market affect what is stocked and promoted by vendors. Customer self-report may not fully capture the impact of the program on the market and the customer's decisions.	The NTGR algorithm was developed by the Net-to-Gross Working group, which invested considerable time developing the approach, performed a significant amount of sensitivity analysis, and obtained input from other interested parties. We defer any questions regarding this approach to that working group and the CPUC.
NTGR	Section 4.6, starting on page 4-39	Question	How accurate is this score? It asks customers to provide a counterfactual; often years after they made the purchase and/or not necessarily hearing the response from the ultimate decision maker.	We assume the comment is referring to the question asked to compute PAI-3. The NTGR algorithm was developed by the Net-to-Gross Working group which invested considerable time developing the approach, performed a significant amount of sensitivity analysis, and obtained input from other interested parties. We defer any questions regarding this approach to that working group and the CPUC.
NTGR	Section 4.6, starting on page 4-39	Question	Can the report explain how averaging the 3 scores avoids a tendency towards a 0.5 value? Can the report also provide the individual PAI 1 to 3 score results by project and how these were combined to develop EEM, IOU, and/or program-level results? Appendix H has some results based on very small samples and with large relative precisions--which indicate large variability in the individual results. Can the report show in the results tables the total N (population) for a specific EEM and what percent of the total savings claim was captured by the final sample "n" used to determine the NTGR?	The NTGR algorithm was developed by the Net-to-Gross Working group, which invested considerable time developing the approach, performed a significant amount of sensitivity analysis, and obtained input from other interested parties. We defer any questions regarding this approach, such as the tendency towards a 0.5 value, to that working group and the CPUC. A simple average was taken across the PA1-3 scores to develop the final NTGR as discussed in Appendix H and Section 4. It is important to note that the NTGRs by program and measure were not used, these are provided for informational purposes. Only NTGRs developed at the net program group were used, as stated in the report. These estimates resulted in values that had relative precisions in the 1% to 19% range. The sample sizes used to develop these final NTGRs are also provided in the table with the relative precisions. The contribution of savings corresponding to each net program group is provided in Section 2.
NTGR	Section 4.6, starting on page 4-39 & Appendices H	Question	Can the data available be used to explain in the report the large differences across IOUs for similar program interventions and/or EEMs? This could provide actionable follow-up actions that may help future efforts to improve NTGRs.	Appendix B contains the phone survey banners for all questions used in the NTGR algorithm. Results are presented separately by IOU, also by program group, and also by HIM.
NTGR	Table 4-37 (Page 4-50)	Question	Can the tables also report how uncertain results are given the small samples? Also, what percent of savings claims were covered by the sample for each row?	Table 4-37 is a summary of the previous tables which list relative precisions and sample sizes. Section 2 presents the savings claims by net program group.
NTGR	Section 4.6 (Pages 4-39 through 4-50)	Question	Based on the NTGR survey results, can an analysis of item non- response be presented in the report?	Overall, participants provided responses to the phone survey that allowed us to calculate all three PAI scores 96.6% of the time. An additional 2.6% provided data that allowed us to calculate at least 2 of the scores, which meant a NTGR could be estimated. Therefore, NTGRs were estimated for over 99% of the surveyed population. Appendix B contains the participant phone survey banners for all questions used in the algorithm.
NTGR	Section 4.6 (Pages 4-39 through 4-50)	Question	Do the estimated NTGRs seem plausible in light of the incremental costs for the measures, their current market shares, their current positions on the product adoption curve, and their saturation?	We did not examine all of these factors, so we cannot comment.

Subject:	Page:	Question / Comment	Comment or Question:	Response
NTGR	Section 4.6 (Pages 4-39 through 4-50), Appendix C, Appendix H	Question	Appendix C presents the methodological framework for using the self-report approach for estimating NTGR's for nonresidential customers. Section 4.6 in the main report and Appendix H presents the NTG methodology and analysis used in this evaluation. Thus, our understanding is that Appendix C describes the proposed methodology for all nonresidential programs, while section 4.6 and Appendix H describes what was actually done in this evaluation. There are some significant differences between what was described in Appendix C, vs. what was done for this evaluation. In particular, Appendix C (p.2 - p. 5) shows that the Information Sources for the 3 indices includes program file reviews, decision maker surveys, vendor surveys, utility program staff interviews, and other research findings. Based on section 4.6 of the main report and Appendix H, it appears that only decision maker surveys were used. Is this correct? If so, can the report describe why these other data sources were not used and the potential impact on the results? If not (i.e., if data sources beyond decision maker surveys were used), please clarify this in the main report and in Appendix H.	As discussed above in the response to the over-arching comment titled "Net to Gross Ratio Methodology Omissions", only participant phone survey responses were used in the methodology.
NTGR	Pages 4-39 through 4-40	Question	On pages 6 and 7 of the Guidelines for Estimating Net-To-Gross Ratios Using the Self-Report Approaches (CPUC, 2007), it states: "In addition, the internal consistency (reliability) of multiple- item NTGR scales should not be assumed and should be tested. Testing the reliability of scales includes such techniques as split- half correlations, Kuder-Richardson, and Cronbach's alpha (Netemeyer, Bearden, and Sharma, 2003; Annually, 1978; Crocker & Algina, 1986; Cronbach, 1951; DeVellis, 1991). An evaluation using self-report methods should employ and document some or all of these tests or other suitable tests to evaluate reliability, including a description of why particular tests were used and others were considered inappropriate." Were any of these tests conducted? If yes, which ones and what were the results? For example, if Cronback's Alpha is less than 0.70, what are implications for uncertainty?	The NTGR algorithm was developed by the Net-to-Gross Working group, which invested considerable time developing the approach, performed a significant amount of sensitivity analysis, and obtained input from other interested parties. As stated in Appendix C, their "framework fully complies with all of the CPUC/ED and the MECT's Guidelines for Estimating Net-to-Gross Ratios Using the Self-Report Approach." We defer any questions regarding this approach to that working group and the CPUC.
NTGR	Page 4-40	Question	The examples of nonprogram factors include previous experience with the measure, recommendation from an engineer, and corporate policy. Previous experience could be influenced by previous program participation (i.e., participant spillover). Could "recommendation from an engineer" include recommendations from someone acting on behalf of the program, such as a utility staff member? Could corporate policy have been influenced by this or other programs? Can you please clarify how these results were treated in developing the NTGR?	The NTGR algorithm was developed by the Net-to-Gross Working group, which invested considerable time developing the approach, performed a significant amount of sensitivity analysis, and obtained input from other interested parties. We defer any questions regarding this approach to that working group and the CPUC.
NTGR	Page 4-41	Question	A sensitivity analysis (e.g., changing weights, changing the questions used in estimating the NTGR, changing the probabilities assigned to different response categories, etc.) of the NTGR algorithm is considered to be best practice (see p. 11 of the *Guidelines for Estimating Net-To-Gross Ratios Using the Self-Report Approaches* (CPUC, 2007). Was a sensitivity analyses conducted to assess the stability and possible bias of the estimated NTGRs? If yes, what were the results. If no, could one be conducted?	The net-to-gross working group performed a sensitivity analyses as part of the work they did in developing the NTGR approach. As stated in Appendix C, their "framework fully complies with all of the CPUC/ED and the MECT's Guidelines for Estimating Net-to-Gross Ratios Using the Self-Report Approach."
Gross first year realization rates	Page 5-1	Question	The first paragraph in section 5.1.1 states that these equations can be applied to develop "site specific estimates of gross energy savings". Is this actually "site-specific and measure specific estimates of gross energy savings"? If so, can this be clarified in this the text?	Yes, specific ex post results were developed by site and measures. We have clarified in the report.
Gross Realization Rate (GRR)	Page 5-1	Comment	The GRR takes into account the installation rate, and the hours of operation, but does not appear to take into account the observed delta watts. As an example, SDG&E's direct install CFL reflectors are listed in Table 4-2 and having an 87% installation rate (IR) and the observed hours of operation (HOU) are listed as 2,224 in Table 4-14. Assuming approximately 3,100 of average HOU, we derive the 62% GRR in table 5-4. What it does not take into account is the delta watts in Table 4-23. In this case, the wattage reduction ratio would be 83/20 = 4.15 as compared to the 3.57 from DEER that was used. Applying that factor to the RR would result in a RR of 72% as opposed to the 62% listed.	The average parameter values were not used explicitly to estimate savings, they are provided only for informational purposes. As mentioned, site and measure specific estimates of ex post energy savings were developed. This included site and measure specific estimates of every parameter (measure quantity, operating hours, and delta watts). Therefore, the GRRs do take into account delta watts. Given that each parameter estimates are site and measure specific, it is not possible to multiple across ratios when aggregating up. We have also added tables in Appendix G.9.1 and Section 5.1 that aim to explain how why the GRR differs from 1, given the ex-post parameter estimates and ex-ante assumptions.
Results	Chapter 5 (Starting on Page 5-1)	Question	The write up appears to communicate that the IOU- administered programs only achieved a fraction of what they claimed. Could the write-up instead communicate a more neutral stance and recognize that the IOU compliance claims have to use approved DEER and work paper values that are typically dated? The continued erosion in the UES values can be interpreted as a measure of the success of the programs at increasing the saturation of ever more energy efficient measures. Could the report add language at the beginning of Chapters 1 and 5 to this effect?	The executive summary and Section 6 provide recommendations regarding updates to default ex-ante operating hours as well as delta wattages. Section 5.1.1 and Appendix G.9.1 also detail why the GRR was less than 1 for each of the segments that were evaluated. These data are presented in a wholly objective manner.
GRR	Table 5-1 to 5-10 (Pages 5-2 through 5-11)	Question	Can the report include the amount of savings claimed in each program to enable clearer understanding of the GRR's? How were the average values for each row determined? Why are the results so different across IOUs and/or intervention strategies for similar EEMs?	An appendix of results in Excel format was added that allows the user to aggregate and compare results at this level of detail. An explanation of how GRRs are developed is provided on page 5.1. The segment level GRR is not really an average but a ratio of two aggregate values across the sample within a given segment. Differences in GRRs are due to how differences occur at the parameter level between an ex ante and an ex post value. These differences are discussed in detail in Appendix G.9. As discussed in the comment above, we have added tables to Appendix G.9.1 that summarize these differences at the IOU-gross program group-measure level, although they are placed in ranges rather than absolute values because of the reason mentioned above.
GRR results	Chapter 5 (Pages 5-1 through 5-50)	Question	Could the report add a simpler and clearer table that shows the results and main reasons for the GRR? For each IOU and the key EEMs, can the table show the total GRR and then highlight what percent of the savings discrepancy was due to changed HOU, delta Watts, and install rates? This would help IOUs know where to focus their efforts going forth and what values need adjustments in their future claims.	As discussed in the comment above, we have added tables to Appendix G.9.1 that summarize these values at the IOU-gross program group-measure level, although they are placed in ranges rather than absolute values because of the reason mentioned above. We have also added a table in Section 5.1.1 that summarizes these same values at the statewide and measure level.
GRR results	Chapter 5 (Pages 5-1 through 5-50)	Question	Can the report include tables that show what the IOUs claimed by EEM and the ex-post evaluation results in GWh? Can the results tables also show how much of the discrepancy between ex-ante and ex-post was due to various parameters that affected GRR and/or NTGR? This would provide more transparency and more actionable results.	As discussed in the comment above, we have added tables to Appendix G.9.1 that summarize these values at the IOU-gross program group-measure level, although they are placed in ranges rather than absolute values because of the reason mentioned above. We have also added a table in Section 5.1.1 that summarizes these same values at the statewide and measure level. Also, as mentioned above, an excel workbook of results has been added to the report that would allow the user to aggregate and compare results at this level of detail.
GRR discussions	Page 5-11	Question	Can the paragraph below Table 5-10 be reviewed and revised for accuracy? For example, it describes "random variables", but they are not random; they are important parameters to understand. Also, can you please clarify what is meant by segment?	The evaluators agree that these parameters are incredibly important to understand. The use of the term "random" is being used strictly by its definition. Segments refer to the specific IOU - gross program group - HIM combinations evaluated.
Net realization rates	Pages 5-30 through 5-37	Question	Does the calculation of net realization rates take into account the propagation of errors across the gross realization rates and net-to-gross ratios? If yes, what is the algorithm? For the most part, these relative precisions seem rather high (large uncertainty) given the large role net realization rates play in benefit-cost calculations. Can the report comment on this high level of uncertainty? For example, what do they imply for the trust that one should put into these net realization rates, net impacts, and the resulting TRCs? How confident can one be in making important decisions about the level of utility earnings and modifications of program designs?	The overall objective of the study was to develop aggregate ex post savings values across all nonresidential downstream measures at the IOU level. Section 5.1.1 and Appendix G.9.1 provides a discussion of the relative precisions and points out that "the ex-post savings values across all HIMs for an IOU produced GRRs with relative precision that ranged from 9% to 16% at the overall IOU level at 90% confidence." We therefore disagree that the report resulted in high levels of uncertainty. Relative precision values are primarily driven by the gross results, not the net results. As shown in Section 4.6 and Appendix H, NTGRs were estimated with a relative precison of 2% or less at the overall IOU level at 90% confidence. The calculation of aggregate net savings uses a ratio estimation approach where the ratio is the net realization rate. The calculation of the relative precision around the realization rate (or ratio estimate) follows the standard statistical formulas for ratio estimation.
Comparison with 2006-08	Section 5.3 (Page 5-60)	Question	Appreciate the effort to compare results with the previous 2006-08 evaluation, however, in 2006-08 the evaluation was done at the measure level. In 2010-12 it was done at the program level. These evaluations can be used to both understand program impacts for a specific period and also, how markets for specific EEMs are changing over time. Can the study recommend how to make future program cycle results more comparable with past experiences?	The report notes that the 06-08 evaluation was done at the measure level and the 10-12 evaluaton was done at the program level. Recommending that future program cycle results are developed such that they can be made comparable with past experiences may place unwanted restrictions on the study design. If this is considered an important objective of a future study it should be made an explicit objective of the study during the EM&V planning cycles and/or research planning phases.

Subject:	Page:	Question / Comment	Comment or Question:	Response
NTGR	Page 6-4	Comment	The report states: "Further research should also be done to consider a framework for NTGRs that can be applied to measures that have a dual baseline, where separate NTGRs are developed for the RUL and post-RUL periods." This recommendation seems susceptible to the charge of false precision. The estimated NTGR reflects the influence of the program on a customer's decision to purchase the energy efficiency measure at a specific point in time. At the end of the RUL, had the customer not installed the efficient measure through the program, the customer would have made another choice between the available options of program and standard efficiency models. The question is whether the influence of the program at this future point in time would be greater, the same or less than the influence of the program on the measure they actually purchased through the program. Let's assume that the efficiency of both the standard models and the program models at this future date will have changed but that the delta remains the same. Also, let's assume that the program intervention strategy, the economics of the firm and the regional economic conditions remain the same. Under these conditions, why not assume that the influence of the program remains stable over time (i.e., use the estimated NTGR as the measure of program influence at this hypothetical future point)? To assume otherwise and attempt to forecast the NTGR in a multi-variate environment is assuming far more than we can actually know and incurring an unknown, but likely very large, degree of uncertainty.	Noted.
Recommendations	Chapter 6	Comment	The report included a recommendation to update parameters for incorporation into DEER. Can this recommendation be expanded to include what values will be used and how to update DEER? This type of information would be helpful for improving the transparency of DEER.	These data will be reviewed by the DEER team and any specific comments as to what values will be used and updated can only be addressed by the DEER team. Section 6.2, however, provides the specific recommendations that the evaluation team have regarding updates to default ex-ante values.
Recommendations	Chapter 6	Comment	The IOUs have been developing midstream lighting programs, such as incentives aimed at lighting distributors and contractors. Future evaluations will need to develop a method to account for this influence when developing baseline and industry standard practice assumptions. Many end users may have been influenced by these programs without their knowledge and will be classified as "nonparticipants". We recommend that the evaluators determine a method for crediting programs for these high efficacy installations, such as by reducing the assumed base wattage in the baseline / ISP.	Noted.
Recommendations	Chapter 6 (Pages 6-1 through 6-7)	Question	Can the report provide recommendations that are IOU, intervention and/or EEM-specific? Can the report also prioritize which recommendations are most important to significantly improve future GRR and NTGR results? Also, can the report provide references to what section of the report has supporting evidence for these recommendations? For example--Appendix G, section G.6.3 appears to have useful values for operating hours by IOU, implementation strategy and EEM--yet it is buried in the report.	The recommendations that were provided were not IOU and program specific (except for a Deemed vs calculated distinction). EEM- specific recommendations, however, were addressed throughout Section 6 depending on what parameter was being discussed. The evaluation team has created tables that compare the ex-ante and ex-post parameter assumptions by IOU - Program group - EEM which may further explain where specific differences reside within each IOU and/or program. We have provided subsection references to the recommendations that detail where specific supporting evidence can be found. Furthermore, for some parameters, such as operating hours, we have not recommended that the interim results presented in this report be directly used, but instead that 2006-08 and 2010-12 data be used to update deemed operating hour values.
Recommendations: install rate	Section 6.1 (Page 6-1)	Question	The report states that IR are in some cases low. Can the report provide some indication as to where the missing EEMs might be?	Section 4 and Appendix G.5 provide results and analysis of the installation rates. Storage rates, Removal/Failure rates, and other location rates detail the reasons for missing EEM's.
Recommendations: Operating hours	Section 6.2 (Page 6-2)	Question	The report found the average coincident factor for linear fluorescents was only 59%. Can the report state if this was due to increased local lighting switches and/or controls? This could be seen as spillover from previous efforts to move from one switch per building or building floor to many more localized switches and/or occupancy sensors and other controls. It is important to see how the programs are helping improve the use of lights and reduce the energy and peak load; yet all too often we focus on the end result without realizing nor explaining how it might reflect the success of our efforts.	While the evaluators agree that there are a number of confounding factors that may influence energy and peak load, it was not in the scope of work to evaluate them all. Having said that, Section 4 and Appendix G.6 provide estimates of peak demand reduction from occupancy sensor measures. It is also important to note that if an occupancy sensor was installed in conjunction with a linear fluorescent fixture, the coincident factor was based on the pre-retrofit operating schedule. Therefore, the installation of the occupancy sensor did not reduce the CF associated with the rebated linear fluorescent fixture.
Recommendations: Operating hours	Section 6.2 (Page 6-2)	Question	Can the report provide links to the tables with the values found so that DEER and work papers can easily find and incorporate the new numbers? E.g., operating hours are in appendix G.6.3. Adding references to where the detailed results data resides in each of the sections of this chapter would be very useful.	The numbers presented in the report are interim results that were used to inform the site specific and measure specific realization rates. They are not to viewed as numbers that can be directly incorporated into DEER. We recommended that the 2006-08 and 2010-12 data be utilized to develop new operating hour parameter estimates for use in DEER. We have also provided subsection references to the recommendations that detail where specific supporting evidence can be found throughout the report.
RUL-EUL	Page 6-3	Question	This study compared the default RUL to the measure's RUL — calculated as its EUL minus the customer-reported age of the equipment — and found the calculated RUL was a close match with the CPUC-default RUL." Can the report include the source data to help SCE forecast future project savings with this important market data?	The methods by which these values were calculated can be found in Appendix G.8.
Recommendations: HID Measures	Page 6-4	Comment	The replacement for new HID fixtures should be pulse start; however, there is no ban on the sale of existing probe start lamps and ballasts, so the existing products should continue to be probe start primarily, e.g., for the post-ROB period for ER measures.	Noted. However, code requires that lamps manufactured after 2009 be pulse-start (for a certain wattage range). As stated, because lamps may still be available on retail markets during 2010-12, we did not impose a pulse-start baseline for ROB cases. However, we did impose a pulse-start baseline for ER cases during the post-RUL period, which is excepted to occur well after 2009 in time for those lamps to be phased out.
Recommendations	Page 6-6	Question	Recommendations on reporting and documentation: For funding cycle 2010-2012, SCE was directed to submit program tracking data using the "FEAv4" data spec provided by Energy Division Staff on November 21, 2012. Custom and Ex ante data sources were tracked in the Implementation table under data fields "SourceVersion", "SourceDesc", and "Source". All savings values were calculated using the latest values from DEER or an SCE work paper. Can the report provide clarity on which WP version was approved to report the correct parameters and references? As to documentation, all project documents must be uploaded to CRM upon completion before payment is made. All workbooks are unlocked for ED to review.	It is important to note that workpapers were only utilized to identify ex ante parameters that could be compared with ex post parameter values in order to help explain why gross realization rates differed from 100%. These workpaper values were not used in any analysis that affected results. During this process, issues were encountered in some instances with program tracking data records not matching the correct workpaper ID, which is why this recommendation was provided. We did not document every occurance of this issue, but do not recall it being the case of any of the SCE workpapers.
Program effects / NTGR	Page A-11	Question	If the respondent indicates that corporate policy was a major influencer, was there an attempt to interview corporate representatives for NTGR inputs?	No, only the participant phone survey responses were used.
Lighting satisfaction	Page A-31	Question	When reviewing the survey, we noted that interviewees were asked whether the amount of lighting is better, worse, or the same as before the delamping job. Can the report provide any analyses of the responses (i.e., any trends in results) to assist with program design?	Yes. The survey banners in Appendix D have that information available.
Program effects / NTGR	Pages A-49, A-17 and A-18	Question	The survey asked respondents about the effect of direct program influences, as well as the effect of other influences, such as audits or technical specialists' recommendations. Were these responses considered when developing the program attribution indices for the NTGR? Was anything else learned from these responses that might help guide these audit programs or other types of technical assistance?	Yes these influences were considered part of the program factors when deveoping the PAI1 score. We only asked follow-up questions of participants that rated factors as being highly influential. Individuals cited that the audit program increased their awareness of the amount of savings, the alternative technologies available and provided a focused plan of where to renovate.
NTGR	Appendix C, Page 5	Question	The NTGR Working Group Framework notes that there are three levels of NTGR rigor: 1) Basic NTGR, 2) Standard NTGR and 3) Standard NTGR - Very Large Projects. What is the frequency with which sampled participants received each of these three levels of rigor?	Only the Basic NTGR approach was utilized.
NTGR (Rules for Data Integration)	Appendix C, Page 11	Question	On p. 11 of the NTGR Working Group Framework, it states: "In all cases, in order to maximize reliability, it is essential that more than one person be involved in analyzing the data." In cases where two or more analysts were involved in estimating the NTGRs, was the inter-rater reliability score ever calculated? If yes, what was the score?	Only a single participant phone survey response was used.
NTGR	Appendix C, Page 12	Question	Appendix C notes that "Vendor interview data will be used at times in the direct calculation of the NTGR." How were the vendor interview data used in the direct calculation of the NTGR, i.e., what is the algorithm?	As discussed in more detail in another comment response, vendor data were not used.
Sample design	Page G-4	Question	Can the report include on-site sampling protocols that were used to make sure that the assignment of time-of-use lighting loggers was representative of the various populations?	Appendix E provides detailed descriptions of lighting logger on-site sampling protocols used throughout this evaluation.

Subject:	Page:	Question / Comment	Comment or Question:	Response
Dual Baseline for HIDs and High Bay Fluorescents replacing HIDs	Page G-64 and G-67	Question	In the description of the HID dual baseline, ROB Impact is calculated differently than the post-RUL Impact for ER. Page 4- 13 summarizes the calculations and implies post-RUL and ROB baselines are the same. Shouldn't the baseline for post-RUL be the same as ROB on pages G-64 and G-65? Can you please explain the significance of the 2010-2012 baseline assumptions and the 2013 PSMH baseline assumption as it applies to first year savings and lifecycle savings for 2010 participants vs 2012 participants? In other words, does the installation year influence the baseline basis? The same question applies to G-67 for High Bay Fluorescents replacing HIDs.	PSMH became required by code for lamps manufactured after January 1st, 2009, however, there were no data available to support that non-PSMH lamps were not still available on retail shelves during 2010-12. Therefore, for ROB cases, the baseline was considered to be the replaced equipment. But for the Post-RUL period, because this period would not begin until after 2012, the PSMH is used as the baseline as it is expected that the non-PSMH lamps would be phased out by then. As discussed in Section G.4, this is true for HID and High Bay Fluorescents replacing HIDs.
RUL-EUL	Page G-163	Question	"Overall, about 42% of the measures subjected to the dual baseline were considered to be ROB, 58% as ER, and just a fraction of a percent were identified as natural replacement (NR)." Were the NTG for these 58% of ER measures then estimated to be close to 100%? If not, can the report explain why not? This would be a good validation of the NTG estimates as the reasoning and line of questioning for ER determination closely mirrors the NTG assessment. Same validation can be done for direct install that has the highest rate of ER (70%) followed by third party programs (62%). "The most common reason for being classified as ROB is due to the age exceeding the EUL. This is true for the large majority of those classified as ROB." Comment: EUL by CPUC EE policy definition is a median estimate, hence it is quite plausible that equipment may exceed the listed EUL estimate, especially when such an estimate is a default assumption not necessarily based on empirical evidence. Can this be noted in the report?	Appendix H.4 presents NTGRs by ER and ROB classifications. The NTGR approach examines many factors, not all of which are directly related to the classification of ER verus ROB. Comment regarding EUL is noted here in this appendix.
RUL-EUL	Page G173	Question	Table G-133: Average RUL for Early Replacers by HIM, IOU, Gross Program Group, and Claim Basis for SCE: Can the table include the phone survey based average age reported for these HIM measures in order to calculate the RUL = 15 – Reported average age? Late on Page G-179, it is reported: One of the survey questions used in the above algorithm to determine if a customer is ROB is the self-reported current age of the equipment: LI22: "Approximately how old was the equipment that were removed and replaced with &Prgm_LT1_Desc?"	The average RULs provided in Table G-133 use the DEER formula of EUL/3 and are not based on the phone survey based self-reported age of equipment.