

APPENDIX

IN CONCERT WITH THE ENVIRONMENT

ENERGY SURVEY

Identification

Enter **E N I G Y S I**

HELP
Information

Energy Information



In Concert With The Environment[®]

Energy Survey

Getting Started

You are about to begin the process of collecting information about energy use in your home. "HELP" screens have been provided in this booklet to assist you in determining the best answers for completing the survey. Accuracy is very important, so be especially careful in researching the energy users in your household.

Account Information

Part of the data needed for the survey may be found on your monthly energy bills. So you may want to discuss your project with the person who pays your energy bills before you begin gathering information. If a copy of your electric bill is not available, you may obtain the information by calling your electric utility.


Gathering Information

The entire process of collecting information should take no more than one hour. The other members of your household should be able to assist you in collecting some of the information. Most of your activities will involve writing down information from equipment in your home. Before you begin, it will be helpful to gather any owners' manuals you may have on your water heater, refrigerator/freezer, and pool equipment. Answers to some of the questions can be found in these manuals.

Recording Information

Record ALL information which applies to your household energy use lifestyle. Record the correct NUMBERED RESPONSE for each question. REMEMBER THAT THE ACCURACY OF THIS ANALYSIS WILL ONLY BE AS ACCURATE AS THE RESPONSES AND THE INFORMATION WHICH YOU INPUT INTO THE COMPUTER.

If you need additional assistance in answering the survey or using the computer, you may call this special HELP number between 9 a.m. and 9 p.m.

 1-800-756-9770



In Concert With The Environment

Identification Information

Enter your first and last name _____

Enter your electric utility account number < _____ >

Head of Household name _____

Your street address _____

City _____ ZIP code _____

HELP

Enter your Southern California Edison (SCE) account number with NO spaces or dashes. The account number information is on your monthly electric bill. If you are served by a utility company other than SCE, please enter your telephone number (without the area code).

Energy Information

_____ 1. Which utility supplies electricity to your home?

1. Southern California Edison

2. Other

_____ 2. If you are served by Southern California Edison (SCE), which rate schedule are you on (indicated on bill)?

1. Domestic (D)

4. Time-of-Use (TOU-D-2)

2. Domestic Seasonal (DS)

5. DLI Service

3. Time-of-Use (TOU-D-1)

6. Not served by SCE

Information About Your Home

_____ 3. In which type home do you live?

1. Single story

2. Two or more stories/Split level

3. Townhouse/Condo

4. Multifamily (2 to 4 units)

5. Apartment (5 units or more)

6. Manufactured home (mobile home)

_____ 4. Including yourself, how many people live in your home?

_____ 5. Including yourself, how many people are usually home between 10 a.m. and 6 p.m. during the weekdays?

_____ 6. About how many square feet of HEATED and COOLED living space does your residence have (exclude garages and porches, but INCLUDE conditioned basements)?

1. 800 square feet (sq. ft.) or less

4. 1801 to 2400 sq. ft.

2. 801 to 1200 sq. ft.

5. 2401 to 3000 sq. ft.

3. 1201 to 1800 sq. ft.

6. More than 3000 sq. ft.

HELP (3)

Do not count a basement as a separate story.

HELP (6)

If your home is new, the sales information probably includes a floor plan which shows the livable square feet. Make sure YOU DO NOT INCLUDE UNHEATED OR UNCOOLED AREAS like garages, porches or unconditioned basements.



- ___ 7. When was your home built?
- | | |
|----------------|-------------------|
| 1. Pre - 1975 | 3. 1979 - 1982 |
| 2. 1975 - 1978 | 4. 1983 - Present |
- ___ 8. Does your family own or rent this home?
- | | |
|--------|---------|
| 1. Own | 2. Rent |
|--------|---------|

Heating Your Home

- ___ 9. What is your home's main source of heat?

Gas Heating

1. Gas furnace only (forced air)
2. Gas wall heater
3. Gas boiler/radiator (hot water or steam)

Electric Heating

4. Electric furnace only
5. Electric heat pump
6. Electric baseboard/wall heating units
7. Radiant ceiling/floor system

Other Types of Heating

8. Wood stove or fireplace
9. Propane
10. Solar
11. Other
12. None/Heating system rarely or never used

- ___ 10. If your home has a secondary (supplemental) heating system, which one of the main types listed above is used? Note: If you do not use a secondary heating system, enter "12."

- ___ 11. What is the approximate age of your main heating system?

- | | |
|--------------------------|---|
| 1. Less than 2 years old | 5. 15 years or older |
| 2. 2 to 4 years old | 6. Don't know |
| 3. 5 to 9 years old | 7. None/Heating system rarely or never used |
| 4. 10 to 14 years old | |

- ___ 12. If your home has a natural gas or propane heating system, does it have an electronic or instant-on ignition, or is the pilot light on all the time during the heating season?

1. Pilot light on all the time during the heating season
2. Electronic/Instant-on ignition
3. No natural gas or propane gas heating system

- ___ 13. If your heating system has a thermostat, what is your normal DAYTIME setting DURING THE WINTER (degrees Fahrenheit)? If you do not have a heating thermostat, or do not use it, enter a zero "0."

- ___ 14. If you set back (lower) your thermostat at NIGHT DURING THE WINTER, at what temperature do you set it? If you have no heating thermostat, do not use it, or do not set back your thermostat during the night, enter a zero "0."

HELP (9)

An electric furnace (response #4) uses heating coils (resistance heat) which distributes heat throughout your home. An electric heat pump will be located either on the ground outside your home or on your roof, and usually has a backup source (second fuel) for heating. It is used for both heating and cooling. When the heat or air conditioning is on, you will be able to hear the outside fan running. Electric baseboard heating units (response #6) are placed in each room in the house and are located along the baseboards (where the wall meets the floor). A gas furnace uses a flame to heat the air and is usually found in a garage, basement, crawl-space, laundry room or closet. Choose wood (response #8) if you heat with it more than half the time.



___ 25. How many water heaters do you have?
Please answer the following questions for EACH water heater.

Water heater #1

___ 26.1 Type of fuel used

1. Natural gas
2. Electric
3. Propane gas
4. Heat pump
5. Solar with natural gas or propane gas backup
6. Solar with electric backup

___ 27.1 Water heater tank size (number of gallons)

1. Small—less than 45 gallons
2. Medium—45 to 80 gallons
3. Large—over 80 gallons

___ 28.1 Is it in an area that is heated and cooled with the rest of the home (exclude garages and porches, but INCLUDE conditioned spaces)?

1. Yes
2. No

___ 29.1 Is this water heater a high-efficiency model or covered with an insulating blanket?

1. Yes
2. No

___ 30.1 Is this water heater less than two years old?

1. Yes
2. No

___ 31.1 What is the temperature setting of this water heater?

1. Less than 130 degrees Fahrenheit (low setting)
2. 130 degrees to 149 degrees Fahrenheit (medium setting)
3. 150 degrees Fahrenheit or greater (high setting)

___ 32.1 Does this water heater have a timer?

1. Yes – has water heater timer
2. No – has no water heater timer

HELP (25)

A water heater is a cylindrical tank which contains either electric elements or a gas burner to heat water. It is usually located in the garage, closet, laundry room or basement. If you share a water heater with other households, or you do not have a water heater, enter zero "0" and skip to question 33.

HELP (26.1)

A natural gas or propane gas water heater has a vent stack which comes out the top of the unit. A heat pump water heater extracts heat from the air surrounding the water heater by using a compressor. You can hear the compressor running when the unit is heating water.

HELP (27.1)

The label affixed to the water tank should show the number of gallons of water which the tank holds. Typically, homes have 52 gallon electric or 40 gallon gas water heaters.

HELP (29.1)

An easy way to see if your water heater is a high efficiency model is to check for a label on its side that says, "High Efficiency" or "Energy Saver." The Use & Care Manual will often tell you if the water heater is an efficient model that does not require an insulation jacket. Some manufacturers recommend NOT using the insulating blanket on the newer, more efficient model water heaters.

HELP (31.1)

If your water heater has no temperature setting, fill a glass of hot water from your kitchen faucet and use a cooking thermometer to measure the hottest water temperature.



Water heater #2

(If you do not have a second standard type water heater, go to question 33.)

26.2 Type of fuel used

1. Natural gas
2. Electric
3. Propane gas
4. Heat pump
5. Solar with natural gas or propane gas backup
6. Solar with electric backup

27.2 Water heater tank size (number of gallons)

1. Small—less than 45 gallons
2. Medium—45 to 80 gallons
3. Large—over 80 gallons

28.2 Is it in an area that is heated and cooled with the rest of the home (exclude garages and porches, but INCLUDE conditioned spaces)?

1. Yes
2. No

29.2 Is this water heater a high-efficiency model or covered with an insulating blanket?

1. Yes
2. No

30.2 Is this water heater less than two years old?

1. Yes
2. No

31.2 What is the temperature setting of this water heater?

1. Less than 130 degrees Fahrenheit (low setting)
2. 130 degrees to 149 degrees Fahrenheit (medium setting)
3. 150 degrees Fahrenheit or greater (high setting)

32.2 Does this water heater have a timer?

1. Yes – has water heater timer
2. No – has no water heater timer

Water-saving Devices

33. Are your showers fitted with low-flow showerheads or shower flow restrictors?

1. Yes – All showers have low-flow showerheads
2. Some – Some showers have low-flow showerheads
3. No – No showers or low-flow showerheads

34. Are your sinks equipped with water flow restrictors or faucet aerators?

1. Yes
2. No

HELP (33)

A low-flow showerhead or shower flow restrictor will limit the flow of water to no more than two and one half (2.5) gallons per minute at full pressure. If in doubt, run the water into a bucket at full pressure for 15 seconds, measure the amount collected, and multiply by four to get gallons per minute.



Refrigerators

46. How many PLUGGED IN electric refrigerators (including combined refrigerator/freezer units) do you have? If you do not have an electric refrigerator, please go to question 52.

Please answer the following questions for EACH of your refrigerators.

Refrigerator #1 – (Primary Use Unit—usually in kitchen)

47.1 When was it manufactured?
1. Before 1980 2. Between 1980–1987 3. Between 1988–1991 4. 1992 or later

48.1 Type of defrost.
1. Manual defrost 2. Partial defrost 3. Frost-free (automatic)

49.1 What style of refrigerator is this?
1. Single door 3. Top freezer
2. Side-by-side 4. Bottom freezer

50.1 Size of your refrigerator?
1. Small (less than 16 cubic feet [cu. ft.])
2. Medium (16–20 cu. ft.)
3. Large (over 20 cu. ft.)

51.1 Where is this refrigerator located?
1. Kitchen 3. Garage/Elsewhere
2. Basement

HELP (50.1)

Check your owner's manual or look at the nameplate in the refrigerator to determine the capacity of your refrigerator/freezer. You can also determine the capacity by using a tape measure to multiply the interior length times width times height.

Refrigerator #2 – (If you do not have a second refrigerator, go to question 52.)

47.2 When was it manufactured?
1. Before 1980 2. Between 1980–1987 3. Between 1988–1991 4. 1992 or later

48.2 Type of defrost.
1. Manual defrost 2. Partial defrost 3. Frost-free (automatic)

49.2 What style of refrigerator is this?
1. Single door 2. Side-by-side 3. Top freezer 4. Bottom freezer

50.2 Size of your refrigerator?
1. Small (less than 16 cubic feet [cu. ft.])
2. Medium (16–20 cu. ft.)
3. Large (over 20 cu. ft.)

51.2 Where is this refrigerator located?
1. Kitchen 2. Basement 3. Garage/Elsewhere



Freezers

52. How many **PLUGGED IN** full-size electric freezers (NOT including combination refrigerator/freezer units) do you have? (Enter a zero "0" and skip to question 57 if you do not have an electric freezer.)

Please answer the following questions for EACH of your freezers.

Freezer #1 – (Primary Use Unit)

- 53.1 When was it manufactured?

1. Before 1980 2. Between 1980–1987 3. Between 1988–1991 4. 1992 or later

- 54.1 Type of defrost

1. Chest—manual defrost
2. Upright—manual defrost
3. Upright—auto defrost

- 55.1 Size of this freezer?

1. Small (less than 16 cubic feet [cu. ft.])
2. Medium (16–20 cu. ft.)
3. Large (over 20 cu. ft.)

- 56.1 Where is this freezer located?

1. Kitchen 2. Basement 3. Garage/Elsewhere

HELP (54.1)

A chest type freezer opens from the top; an upright model opens from the front (i.e., like a typical refrigerator).

Freezer #2 – (If you do not have a second electric freezer, go to question 57.)

- 53.2 When was it manufactured?

1. Before 1980 2. Between 1980–1987 3. Between 1988–1991 4. 1992 or later

- 54.2 Type of defrost

1. Chest—manual defrost
2. Upright—manual defrost
3. Upright—auto defrost

- 55.2 Size of this freezer?

1. Small (less than 16 cubic feet [cu. ft.])
2. Medium (16–20 cu. ft.)
3. Large (over 20 cu. ft.)

- 56.2 Where is this freezer located?

1. Kitchen 2. Basement 3. Garage/Elsewhere



In Concert With The Environment

Ranges, Ovens and Microwave Ovens

- ___ 57. What type of energy does your RANGE (STOVE TOP) use?
1. Electric
 2. Natural gas (without a pilot light)
 3. Natural gas (with a pilot light)
 4. Propane (without a pilot light)
 5. Propane (with a pilot light)
 6. No range (stove top)
- ___ 58. Approximately how many MINUTES PER DAY do you use the burners on your RANGE? (Provide the COMBINED total MINUTES PER BURNER PER DAY that the burners are on.)
- ___ 59. What type of energy does your OVEN use?
1. Electric
 2. Natural gas (without a pilot light)
 3. Natural gas (with a pilot light)
 4. Propane (without a pilot light)
 5. Propane (with a pilot light)
 6. No oven
- ___ 60. Approximately how many HOURS PER WEEK do you use your oven (baking and broiling)?
- ___ 61. Approximately how many MINUTES PER DAY do you use your microwave oven? (Enter a zero "0" if you do not have a microwave oven.)
- ___ 62. Do you cook ON A REGULAR BASIS between the hours of 10 a.m. and 6 p.m. during the weekdays?
1. Yes – Often cook between 10 a.m. and 6 p.m. during weekdays
 2. No – Do not regularly cook between 10 a.m. and 6 p.m. during the weekdays

HELP (58)

The best way to determine this answer is by asking the person in your household who does most of the cooking. It will be acceptable to ESTIMATE this answer.

Waterbeds

- ___ 63. How many HEATED waterbeds do you have? (Enter a zero "0" and skip to question 66 if you do not have any HEATED waterbeds.)

Please answer the following questions for EACH of your waterbeds.

Waterbed #1

- ___ 64.1 Size of waterbed #1
1. King or Queen
 2. Full or Twin
- ___ 65.1 Is this waterbed normally covered with a bedspread, blanket or comforter when not being used?
1. Yes
 2. No



Waterbed #2 – If you do not have a second HEATED waterbed, go to question 66.

___ **64.2** Size of waterbed #2

1. King or Queen 2. Full or Twin

___ **65.2** Is this waterbed normally covered with a bedspread, blanket or comforter when not being used?

1. Yes 2. No

Waterbed #3 – If you do not have a third HEATED waterbed, go to question 66.

___ **64.3** Size of waterbed #3

1. King or Queen 2. Full or Twin

___ **65.3** Is this waterbed normally covered with a bedspread, blanket or comforter when not being used?

1. Yes 2. No

Televisions, VCR's, Stereos and Home Computers

(Enter a zero "0" if you do not have that specific electronic device.)

___ **66.** How many HOURS PER DAY is television (including video games) on in your home? (Provide the combined total HOURS PER DAY that all of your color and black & white televisions are on.)

___ **67.** How many HOURS PER DAY is big screen television (including video games) on in your home? (Provide the combined total HOURS PER DAY that all of your big screen televisions are on.)

___ **68.** How many HOURS PER DAY do you use your video cassette recorder (VCR)?

___ **69.** How many HOURS PER DAY do you use your stereo, tape player, and compact disc player? (Do not include battery operated appliances.)

___ **70.** How many HOURS PER DAY do you use your home computer?

HELP (66)

If three televisions are each on 2 hours per day, the combined total HOURS PER DAY is 6 hours.

Small Appliances

71. Do you use any of these appliances in your home ON A DAILY BASIS?

1. Yes 2. No

___ 1. Blow dryer

___ 2. Radio

___ 3. Curling iron/Electric curlers

___ 4. Toaster oven

___ 5. Toaster

___ 6. Slow cooker (Crock pot)

___ 7. Coffeemaker

___ 8. Electric fry pan

___ 9. Iron

___ 10. Rice cooker

HELP (71)

If you use an appliance almost every day, enter a one "1." If you rarely or never use the appliance, enter a two "2."



Lighting

- ___ 72. What wattage are most of your light bulbs?
1. Less than 100 watts 2. 100 watts or more
- ___ 73. Do you use lighting more than 6 hours per day?
1. Yes 2. No
- ___ 74. Is fluorescent lighting (including compact fluorescent light bulbs) used throughout most of your house?
1. Yes 2. No
- ___ 75. If you have landscape or outdoor security lighting, how many bulbs does your system use? (Enter a zero "0" if you do not have outdoor lighting.)
- ___ 76. What is the average bulb wattage for your outdoor security lighting system? (If you have no security or landscape lighting system, enter six "6" and go to the next question.)
1. Less than 50 watt 4. 150 watt
2. 50 watt 5. 200 watt
3. 100 watt 6. None

HELP (72)

Check the wattages of the light bulbs in your home. If most of them are less than 100 watts, choose response #1. If most are 100 watts or more, choose response #2. Remember that a light bulb which is turned on will be hot to the touch, so we recommend you turn the light off and record the wattage without touching the lamp.

HELP (73)

If indoor lighting is regularly used more than 6 hours per day, choose response #1. If lighting is usually on less than 6 hours per day, choose response #2.

HELP (74)

If fluorescent lighting is used only in your kitchen and bathroom(s), choose response #2. If fluorescent is also used in your family and/or living room, choose response #1.

HELP (75)

Security lighting is outdoor lighting which stays on EVERY NIGHT for most of the nighttime hours. Enter a zero "0" if you use outdoor lighting for only a few hours a night, or the lighting is controlled by movement (motion sensing).

HELP (77)

Average size pools use a 1 horsepower filter pump motor. If the pool at your household is much larger than the average pool, the motor horsepower will be larger (i.e., 1.5 or 2 horsepower).

Pools, Spas and Hot Tubs

- ___ 77. If your home has a swimming pool, what is the horsepower rating of the filter pump? (Enter a zero "0" if you do not have a pool or you share a community pool, and skip to question 83.) The horsepower [HP] number is found on the nameplate of the pump. Enter the number as a decimal. For example, three-quarter horsepower would be entered as .75, and one-and-a-half horsepower would be entered as 1.5.



- ___ **78.** How many HOURS PER DAY do you run your pool filter?
- ___ **79.** How many HOURS PER DAY do you run your pool sweep? (Enter a zero "0" if your pool does not have a pool sweep.)
- ___ **80.** If you heat your swimming pool, what type of fuel do you use to heat it?
1. Natural gas 4. Solar with natural gas backup
2. Electric 5. Solar with electric backup
3. Propane 7. Not heated/No pool
- ___ **81.** If you heat your pool, do you heat it 7 days a week or just on weekends?
1. 7 Days a week 3. Not heated/No pool
2. Weekends only
- ___ **82.** Do you cover your swimming pool when not in use?
1. Yes 2. No 3. No pool
- ___ **83.** If your home has a spa (hot tub), how many HOURS PER WEEK do you use it? (Enter a zero "0" if you do not have a spa or if your spa and pool use the same filter pump and skip to question 90.)
- ___ **84.** Indicate the SEASONS OF THE YEAR when you run your spa. (Enter a one "1" by the season in which you run your spa MOST OF THE TIME and a two "2" by the season when you rarely or never run your spa.)
1. Yes – spa is used during this season
2. No – spa is not used during this season
- ___ Spring (March through May)
___ Summer (June through August)
___ Fall (September through November)
___ Winter (December through February)
- ___ **85.** How many HOURS PER WEEK do you use your spa or hot tub?
- ___ **86.** How many DAYS PER WEEK is your spa heated for use? (Enter "7" if it is heated continuously; enter a zero "0" if you do not have a spa or if you don't heat it.)
- ___ **87.** How many HOURS PER DAY is your spa heated? (Enter "24" if it is heated all the time, or zero "0" if you do not have a spa or if you have a spa but don't heat it.)

HELP (78)

The recommended running time for pool filter motors is 8 to 10 HOURS PER DAY. An easy way to get this answer is by checking the timer which turns the pool filter motor on and off.

HELP (83)

A spa can also be called a "Jacuzzi" or "hot tub." DO NOT INCLUDE the use of whirlpool bath tub systems. The average spa filter motor should run 2 to 3 hours per day. An easy way to check this is by observing the run time setting on the spa filter timer and counting the number of hours between the time it turns the filter on and the time it turns it off.

HELP (85)

Enter the number of HOURS PER WEEK you or the members of your household use the spa.

HELP (86)

Count the number of DAYS PER WEEK your spa heater thermostat is turned up to the temperature you normally use. For example, if you turn the thermostat up twice a week to use the spa, enter a "2."

HELP (87)

On those days that you heat your spa, how many hours is your heater thermostat turned up to the temperature you normally use?



In Concert With The Environment

- ___ 88. Where is your spa located?
1. Outside ABOVE the ground 4. Indoor IN the floor
 2. Outside IN the ground 5. No spa
 3. Indoor ON the floor
- ___ 89. Does your spa use an insulated cover when not in use?
1. Yes 2. No 3. No spa
- ___ 90. What type of fuel is used to heat your spa?
1. Natural gas 4. Solar w/gas backup
 2. Electricity 5. Solar w/electric backup
 3. Propane 6. Spa not heated/No spa

Other Appliances

91. If you use any of the following pieces of equipment on a REGULAR BASIS, please indicate the average number of HOURS PER WEEK that they are used. Enter a zero "0" if you do not use a particular appliance.

- | | |
|--------------------------|------------------------------------|
| ___ Electric blankets | ___ Electric welder |
| ___ Aquarium/Terrarium | ___ Portable/ceiling fan |
| ___ Humidifier | ___ Whole house/Attic fan |
| ___ Outdoor gas lighting | ___ Electric kiln |
| ___ Power saw | ___ Portable electric space heater |
| ___ Drill press | ___ Kerosene space heater |
| | ___ Gas fireplace |

HELP (91)

The key word in this question is "regular." If an appliance is used only now and then, do not include it here.

- ___ 92. Does your home use a water well pump?
1. Yes 2. No

HELP (92)

A water well pump is normally used to pump water from a well on your property. If you have a water well pump that is on a separate electric meter, enter two "2."

Landscaping

- ___ 93. During the summertime, do trees provide shading for the western and southwestern sides of your home?
1. Yes 2. No
- ___ 94. Do you use a drip irrigation system, automatic controls, low water use trees, shrubs and ground covers, or other water-efficient methods in your yard's landscape?
1. Yes 2. No 3. No yard

HELP (95)

Enter the number of vehicles your household uses ON A REGULAR BASIS throughout the year.

Transportation

- ___ 95. How many fuel powered vehicles are used in your household?

If a car, truck, or van is used in your household for transportation, answer the questions for EACH of your vehicles. If you have no vehicle, enter zero "0" and skip to question 99.



Vehicle #1

- ___ 96.1 Average miles driven per day
- ___ 97.1 Average number of miles per gallon (mpg)
- ___ 98.1 Average number of riders per trip (include driver as 1 rider)
- ___ 99.1 Type of fuel used

1. Gasoline 2. Diesel 3. Electric 4. Natural gas 5. Propane

HELP (97.1)

If this is an electric, natural gas, or propane-powered vehicle, enter zero "0" for miles per gallon (mpg).

Vehicle #2 – If you do not have a second vehicle, go to question 100.

- ___ 96.2 Average miles driven per day
- ___ 97.2 Average number of miles per gallon (mpg)
- ___ 98.2 Average number of riders per trip (include driver as 1 rider)
- ___ 99.2 Type of fuel used

1. Gasoline 2. Diesel 3. Electric 4. Natural gas 5. Propane

Vehicle #3 – If you do not have a third vehicle, go to question 100.

- ___ 96.3 Average miles driven per day
- ___ 97.3 Average number of miles per gallon (mpg)
- ___ 98.3 Average number of riders per trip (include driver as 1 rider)
- ___ 99.3 Type of fuel used

1. Gasoline 2. Diesel 3. Electric 4. Natural gas 5. Propane

Vehicle #4 – If you do not have a fourth vehicle, go to question 100.

- ___ 96.4 Average miles driven per day
- ___ 97.4 Average number of miles per gallon (mpg)
- ___ 98.4 Average number of riders per trip (include driver as 1 rider)
- ___ 99.4 Type of fuel used

1. Gasoline 2. Diesel 3. Electric 4. Natural gas 5. Propane

Vehicle #5 – If you do not have a fifth vehicle, go to question 100.

- ___ 96.5 Average miles driven per day
- ___ 97.5 Average number of miles per gallon (mpg)
- ___ 98.5 Average number of riders per trip (include driver as 1 rider)
- ___ 99.5 Type of fuel used

1. Gasoline 2. Diesel 3. Electric 4. Natural gas 5. Propane



- ___ 100. Does your household regularly use "ridesharing" or other energy-saving methods (such as bicycling, walking or public transportation) when commuting to work or to school?
1. Yes 2. No

Recycling

- ___ 101. Does your family regularly recycle glass?
1. Yes 2. No 3. Don't use glass
- ___ 102. Does your family regularly recycle paper?
1. Yes 2. No 3. Don't use paper
- ___ 103. Does your family regularly recycle aluminum cans?
1. Yes 2. No 3. Don't use aluminum cans
- ___ 104. Does your family regularly recycle plastic?
1. Yes 2. No 3. Don't use plastic
- ___ 105. Does your family regularly recycle steel ("tin") cans?
1. Yes 2. No 3. Don't use steel cans
- ___ 106. Does your family regularly recycle vehicle fluids such as motor oil, transmission fluid and antifreeze?
1. Yes 2. No 3. Don't use
- ___ 107. Does your household regularly recycle (compost) yard waste?
1. Yes 2. No 3. No yard
- ___ 108. Does your household regularly purchase products made from recycled materials?
1. Yes 2. No

Printing Your Report

- ___ 109. In which language would you like your report printed?
1. English 2. Spanish



SUMMARY TABLE FOR COMPLETED LOAD IMPACT STUDY

3/23/95

SOUTHERN CALIFORNIA EDISON

1.	1993 In Concert with the Environment Program Impact Evaluation Study. Measurement & Evaluation Study #508(B)
2.	In Concert with the Environment Program (ICWE) 1993. Edison's ICWE Program is designed to educate high school students and their households about energy efficiency, resource management and the positive environmental results from efficient energy use. The participant students complete an energy use survey at home and process the collected data through a bill disaggregation software program. The students get back the bill disaggregation results in a report called the EcoWatt Benefit report which has household specific energy efficiency recommendations. In this way the level of involvement of the household in the energy audit process is significant.
3.	All end uses combined.
4.	Impact (A) Study type.
5.	Estimation of net energy savings is based on a variant of Conditional Demand Analysis that uses a 12-month change formulation. The regression analysis yields what is classified as difference of differences approach results as defined in Table 5 of the California Measurement and Evaluation Protocols.
6.	Participants are defined to be all participating students' households in the 1993 ICWE program year.
7.	Results are based on 1,253 participants and 1,369 non-participants. The participant group comes from a 2,772 students program database that was merged with SCE's billing records to produce good matches for the billing analysis. The non-participant sample comes from a Measurement and Evaluation study on the Residential Mail Audit Program.
8.	Billing data was used along with weather data and demographic information for both participant and non-participant groups.
9.	The results of the study indicate that participation in the program led to 334 kWh savings/year, with ± 1 standard deviation confidence band to be between 431 kWh and 246 kWh per year.
10.	Results of this study will be used as Edison's new estimate of the per savings of the ICWE Program participant.

STUDY DOCUMENTATION

Southern California Edison, Study 508 (B)

1993 In Concert with Environment Impact

Evaluation Study

A. DATABASE MANAGEMENT:

The study used a program database provided by Eco Group, Inc. for the 1993 program year. The machine readable text data was matched with the Company's billing records to get the billing histories. The match was based on students' last name, street address, city, zip code and, where available, service account numbers. Each premise was assigned a weather station based on zip codes to extract weather data from the Company's weather database. The program database was used to get information on demographics and appliance stock for the participants. The appliance stock information in SCE's customer database was matched with program data information for validation purposes.

B. DATA SCREENING AND ANALYSIS CRITERIA

Only unique premise numbers were selected which had a sufficient billing history. This process produced 1253 unique premise numbers with 36 months billing histories starting from January 1992 to December 1994. The analysis was based on first computing differences in average monthly energy consumption by participants and non-participants and then comparing the change in consumption between 1992 and 1994 between the participant and non-participant groups.

C. DATA INTERPRETATION:

The net energy savings estimate was computed after accounting for changes in consumption due to changes in factors such as cooling and heating degree days, square footage, and the number of occupants in the house. In addition, the analysis controlled for differences in weather zones to which the participant and non-participant household belong and also for ownership status of the house. After controlling for these differences a net estimate of 334 kWh is obtained.