CFL METERING STUDY

FINAL REPORT

Volume 2, Load Shape Data

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LOAD SHAPE DATA

This document is the second volume of the CFL Metering Study, prepared for the California investor-owned utilities. The purpose of this document is to provide the data underlying the load shape figures in Section 4 of the main report.

The series of tables that follows provides CFL load profile data over a 24-hour period. Table 1-1 presents the data for indoor CFL load shapes, showing the average percentage that fixtures with CFLs are used for each hour of the day, averaged across the entire year. The first column denotes the hour of the day, where 1 = 12 Midnight to 1:00 AM and 24 = 11:00 PM to 12 Midnight. CFL usage peaks between 8:00 and 9:00 PM. The time period associated with the lowest usage of CFLs is between 3:00 and 4:00 AM.

Hour	Weekday	Weekend	All Days
1	6%	8%	7%
2	4%	5%	5%
3	3%	4%	4%
4	3%	4%	3%
5	4%	3%	3%
6	5%	4%	5%
7	7%	5%	6%
8	7%	7%	7%
9	8%	8%	8%
10	8%	9%	9%
11	8%	10%	9%
12	9%	10%	9%
13	8%	10%	9%
14	9%	10%	9%
15	9%	11%	10%
16	9%	10%	9%
17	9%	10%	9%
18	10%	11%	10%
19	13%	14%	13%
20	19%	19%	19%
21	23%	23%	23%
22	21%	21%	21%
23	17%	17%	17%
24	11%	12%	11%

Table 1-1
Indoor CFL Load Shapes by Day Type

Table 1-2 provides data for indoor CFL load shapes by season and day type. For this table, winter refers to the month with the highest usage, which is December, and summer to the lowest usage month, which is June.

	Winter (December)		Summer (June)	
Hour	Weekday	Weekend	Weekday	Weekend
1	7%	8%	5%	6%
2	4%	5%	3%	4%
3	3%	4%	3%	3%
4	3%	4%	3%	3%
5	4%	3%	3%	2%
6	5%	4%	4%	3%
7	7%	6%	6%	4%
8	8%	7%	6%	6%
9	8%	9%	6%	7%
10	9%	11%	7%	8%
11	10%	12%	7%	9%
12	10%	13%	7%	8%
13	10%	12%	7%	8%
14	10%	12%	7%	8%
15	10%	12%	7%	8%
16	10%	12%	7%	8%
17	10%	12%	8%	8%
18	11%	13%	8%	9%
19	16%	17%	10%	10%
20	22%	22%	14%	13%
21	25%	25%	19%	18%
22	23%	23%	19%	17%
23	17%	19%	14%	13%
24	11%	13%	9%	9%

Table 1-2Indoor CFL Load Shapes by Season and Day Type

Table 1-3 provides data for CFL load shapes by utility service territory.

	I E Eou	a Bhapes	by come
Hour	SDG&E	PG&E	SCE
1	7%	5%	7%
2	2 4%	3%	5%
с.)	2%	2%	4%
4	2%	3%	4%
45	2%	3%	4%
Ű	4 %	4%	4%
7	6%	6%	6%
8	7%	7%	6%
υ,	9%	8%	6%
10	10%	9%	8%
11	12%	10%	8%
12	12%	10%	8%
13	11%	9%	8%
14	13%	9%	7%
15	13%	9%	8%
16	12%	9%	8%
17	11%	10%	7%
18	1 1%	11%	6%
19	16%	14%	10%
20	26%	18%	17%
21	28%	22%	21%
22	25%	20%	20%
23	18%	15%	16%
24	12%	9%	11%

Table 1-3
Indoor CFL Load Shapes by Utility