

Ex Post Load Impacts for San Diego Gas &
Electric's Commercial and Industrial Peak Day
Credit Program

Final Report

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Abstract

This report describes the ex post load impacts for San Diego Gas & Electric's ("SDG&E's") Commercial and Industrial Peak Day Credit Program for the 2006 and 2007 program years. The load impacts were estimated using fixed effects models, where a separate model was developed for each hour of the day and for eight different industry groups. The average event-day load impacts were approximately 665 kW (0.9 percent) in 2006 and 3,500 kW (3.9 percent) in 2007. The report also examined the correspondence between econometrically estimated load impacts and those estimated using the 3-in-10 baseline method. For the 87.8 percent of the enrolled load, both methods conclude that a credit *should not* have been paid; for 6.7 percent of the enrolled load, both methods conclude that a credit *should* have been paid; and for 4.8 percent of the enrolled load, the 3-in-10 baseline method concludes that a credit should have been paid while the econometric method does not. The 3-in-10 baseline method performed well in that it came to the same conclusion as the more sophisticated econometric model for 94.5 percent of the enrolled load. However, among only customers who were paid a credit, the two baseline methods disagreed on whether the credit should have been paid about half of the time. Assuming that the econometric method provides a better estimate of the baseline, this result implies that about half of the customers who were paid a credit did not deserve it. Finally, the study found no effect associated with the change in the program design for 2007. While program-level load impacts were significantly higher in 2007, the underlying data do not reveal any changes in behavior that are related to reducing the minimum load reduction required to receive a credit from 20 percent to 10 percent.

Executive Summary

This report documents the results of an ex post analysis of load impacts for San Diego Gas & Electric's ("SDG&E's") Commercial and Industrial Peak Day Credit Program for the 2006 and 2007 program years.

This report has four primary research objectives:

- Quantify the hourly load impacts of the program on event days in 2006 and 2007 using regression analysis.
- Compare the estimated load impact results by year to the load impacts that are estimated using the program baseline methodology.
- Characterize program participants and report results by key customer characteristics, such as size, business type, and measures of load variability.
- Evaluate the effect of modifying the program incentive qualifications in 2007 to allow smaller credits for load reductions ranging from 10% to 20%, rather than the 20% requirement that was imposed in 2006.

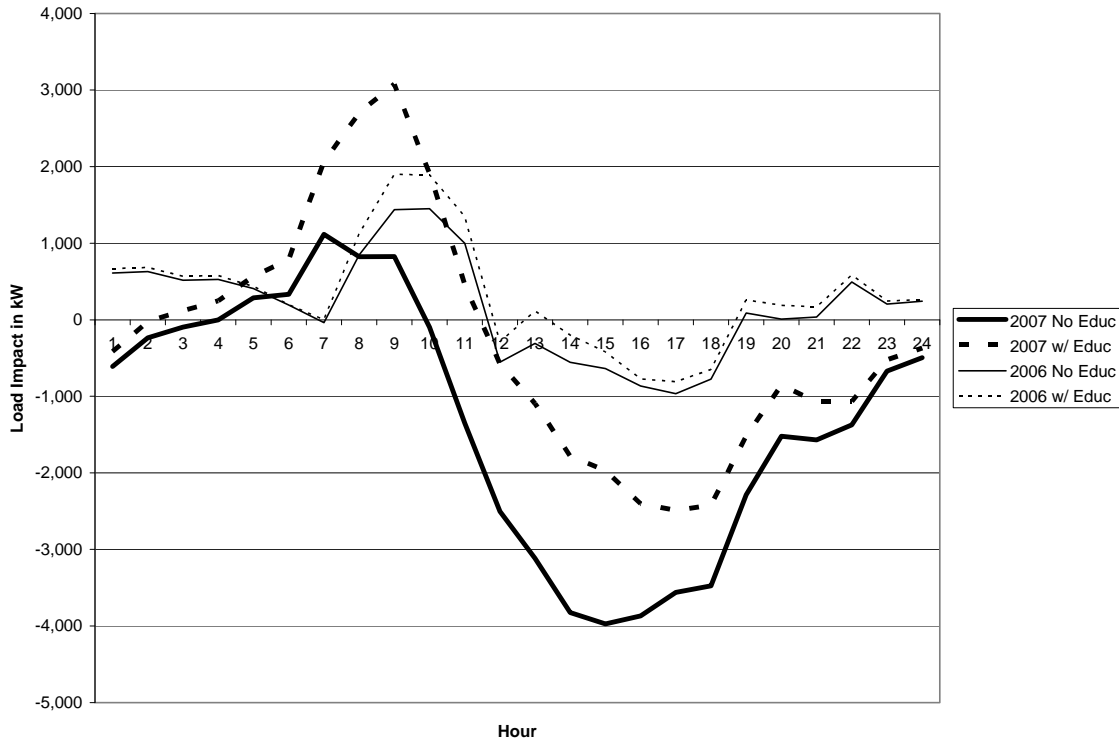
In order to estimate the Peak Day ex post load impacts, separate models were estimated for each hour of the day and for eight industry groups. Fixed effects models, which control for customer-specific effects that do not vary over time, were specified to include variables designed to control for factors affecting consumers' hourly usage levels, such as:

- Seasonal and time patterns (*e.g.*, month, and day-of-week);
- Weather (*e.g.*, cooling degree days, including a heat build-up component); and
- Event days, specified using indicator variables.

The models use the natural log of the customer's hourly usage as the dependent variable. The R-squared values from the estimated models indicate that the explanatory power of the models is generally quite high, with the Pipelines & Water Utilities group serving as an exception in some hours.

Figure ES.1 illustrates the aggregate load impacts. As the figure reflects, the inclusion of Educational Services customers appears to produce an upward bias in the load impact estimates (*i.e.*, leading to smaller load reductions or larger load increases). This effect is not prominent in the 2006 load impact estimates.

Figure ES.1: Average Load Impacts by Year



We then compared the econometrically estimated load impacts to those generated from the 3-in-10 baseline method. The results indicate mixed results for the 3-in-10 baseline method. On the one hand, the overwhelming share of customer load (over 80 percent in both years) was correctly not paid a credit (assuming that the results of the regression models are correct). On the other hand, conditional on being paid a Peak Day credit, there is only about a 50-50 chance that the customer deserved it.

Finally, we attempted to determine whether a change in the Peak Day program design resulted in a change in customer behavior. In 2007, Peak Day was modified so that enrolled customers could receive credits for load reductions of 10 percent or more, where the previous minimum load reduction required in order to receive a credit was 20 percent.

We found no evidence that the change in program design affected enrolled customer behavior, or caused a different type of customer to enroll. These conclusions are based on the fact that the share of customers reducing load between 10 and 20 percent did not increase between 2006 and 2007 (for customers enrolled in both years); and that the share of customers reducing load between 10 and 20 percent was not higher for customers who were only enrolled in 2007.

Ex Post Load Impacts for San Diego Gas & Electric's Commercial and Industrial Peak Day Credit Program

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October 3, 2008

1. Introduction and Purpose of the Study

This report documents the results of an ex post analysis of load impacts for San Diego Gas & Electric's ("SDG&E's") Commercial and Industrial Peak Day Credit Program for the 2006 and 2007 program years.

1.1 Description of the Program

The Peak Day Credit Program ("Peak Day") is available to C&I customers of size > 20 kW, and appears targeted at customers of relatively small size (*e.g.*, 20 to 200 kW). Other DR programs, such as CPP and DBP are targeted at customers larger than 200 kW. Program event days are called by 3 p.m. on the previous day, based primarily on a temperature (84 degrees Fahrenheit) and system load (3,620 MW) threshold. Events may only occur in summer months, from May through September, and a maximum of 15 events may be called in each program year. Enrolled customers who reduce usage by an average of 10 percent or more (relative to a customer-specific baseline load) across the events during a billing month receive a matching reduction in the peak-period bill for that month, up to a maximum of a 20 percent reduction. The Peak Day Credit Program does not penalize enrolled customers for failing to reduce load during event hours.

The program changed between 2006 and 2007 in terms of the on-peak load reduction requirements and the amount of the credits paid. For the summer of 2006, customers received a 20% reduction in on-peak energy and demand charges if they achieved an average 20% or more reduction in on-peak energy usage on days of the billing period for which peak-day events were announced. For the summer of 2007, the program was modified to allow customers to receive proportionately smaller credits for on-peak energy usage reductions of at least 10%. That is, for reductions between 10 and 20% during a given billing month, customers received credits of a comparable percentage on their on-peak energy and demand charges, up to 20%. Load reductions were calculated relative to a baseline load that was estimated as the average on-peak consumption of the highest three days of the previous 10 weekday, non-event days, where on-peak hours are defined as 11 a.m. to 6 p.m. (or hours-ending 12 through 18).

1.2 Event Days

Table 1.2.1 shows the Peak Day Credit Program event days during 2006 and 2007. Ten event days were called in 2006 and nine were declared in 2007.

Table 1.2.1: Event Days in 2006 and 2007

Event Number	2006 Events	2007 Events
1	June 29, 2006	August 15, 2007
2	June 30, 2006	August 16, 2007
3	July 12, 2006	August 17, 2007
4	July 13, 2006	August 21, 2007
5	July 14, 2006	August 29, 2007
6	July 18, 2006	August 30, 2007
7	July 21, 2006	August 31, 2007
8	July 24, 2006	September 4, 2007
9	July 25, 2006	September 5, 2007
10	September 6, 2006	

2. Study Methodology

2.1 Overview and questions addressed

This report has four primary research objectives:

- Quantify the hourly load impacts of the program on event days in 2006 and 2007 using regression analysis.
- Compare the estimated load impact results by year to the load impacts that are estimated using the program baseline methodology.
- Characterize program participants and report results by key customer characteristics, such as size, business type, and measures of load variability.
- Evaluate the effect of modifying the program incentive qualifications in 2007 to allow smaller credits for load reductions ranging from 10% to 20%, rather than the 20% requirement that was imposed in 2006.

The following section will describe the methods that we used to address each of these issues.

2.2 Description of methods

2.2.1 Methods to estimate program-level ex post hourly load impacts

In order to estimate the Peak Day ex post load impacts, separate models were estimated for each hour of the day and for eight industry groups. The industry groups are defined using the 2-digit NAICS codes shown below (the exception is group 4, which is defined as a sub-set of 6-digit NAICS groups):

1. Agriculture, Mining & Construction: 11, 21, 23
2. Manufacturing: 31-33
3. Wholesale, Transport, other utilities: 22, 42, 48, 49 (excluding 6-digit codes below)
4. Pipelines & Water utilities: 221310, 221320, 486110, 486910, 486990
5. Retail stores: 44, 45
6. Offices, Hotels, Finance, Services: 51-56, 62, 72
7. Educational Services: 61

8. Institutional/Government: 71, 81, 92

Fixed effects models, which control for customer-specific effects that do not vary over time, were specified to include variables designed to control for factors affecting consumers' hourly usage levels, such as:

- Seasonal and time patterns (e.g., month, and day-of-week);
- Weather (e.g., cooling degree days, including a heat build-up component); and
- Event days, specified using indicator variables.

The models use the natural log of the customer's hourly usage as the dependent variable. The use of the natural log transformation allows for the coefficients on the explanatory variables to be interpreted as percentage changes in hourly load due to changes in the explanatory variable in question. For example, an event hour coefficient of -0.05 means that customers in that industry group reduced load by an average of 5 percent in that hour the Peak Day event.

The regression model is shown below.

$$\ln Q_{t,c} = a_i + b^{LAG} \times \ln Q_{t-1,c} + \sum_{i=1}^9 (b_i^{PeakDay} \times PeakDay_t) + b^{CDD} \times CDDBLD_{t,c} + \sum_{i=2}^5 (b_i^{DayType} \times DayType_{i,t}) + \sum_{i=6}^9 (b_i^{MTH} \times MTH_{i,t}) + e_{t,c}$$

In this equation, $Q_{t,c}$ represents the hourly usage for customer c ; a_i are the customer-specific intercept terms (i.e., the fixed effects); the b 's are estimated parameters on the explanatory variables; $PeakDay_t$ is an indicator variable for a Peak Day event; $CDDBLD_t$ is the number of cooling degree days (reflecting heat build-up) in hour t for customer c ; $DTYPE_{i,t}$ is a series of dummy variables for each day of the week; $MTH_{i,t}$ is a series of dummy variables for every month in the sample (e.g., June 2007); and $e_{t,c}$ is the error term.

Because the dependent variable is the natural load of load, the estimated load impacts are expressed in percentage terms. In order to derive an estimate of the reference loads, we applied the percentage load impacts to the observed loads. This method is illustrated in the equation below.

$$Reference\ Load_{t,c} = \exp\{\ln(Observed\ Load_{t,c}) - b_i^{PeakDay}\}$$

The *level* (as opposed to percentage) load impacts are then calculated as the difference between the observed load and the reference load. Therefore, a negative value represents a load reduction.

¹ Cooling degree days are defined as $\text{MAX}[0, (\text{maxT} + \text{minT}) / 2 - 65]$, where maxT is the maximum daily temperature in degrees Fahrenheit and minT is the minimum daily temperature. The variable is then transformed to reflect heat build-up effect as follows: $CDDBLD_t = (40/75) \times CDD_t + (20/75) \times CDD_{t-1} + (10/75) \times CDD_{t-3} + (5/75) \times CDD_{t-4}$.

The uncertainty-adjusted load impacts are simulated using the estimated standard errors for each event-day indicator variable. Because separate models are estimated for each hour of the day and industry group, we could not explicitly account for the covariances between the hourly load impacts. However, we calculated weighted variances based on the relative size of the industrial groups. That is, the variance of each hour's load impact was calculated on the weighted average of the variances (*i.e.*, the square of the standard error) from each industry's load impact estimate. We then calculated the 10th, 30th, 50th, 70th, and 90th percentile load impacts separately for each hour.

2.2.2 Methods to compare load impacts from statistical models to those of the program's 3-in-10 baseline methodology

One objective of this project is to compare load impacts estimated from econometric models to the load impacts estimated using the program's 3-in-10 baseline method. In order to make this comparison, we estimated a separate statistical model for each enrolled customer. The regression equation models the customer's hourly load as a function of a list of variables designed to control for factors affecting consumers' hourly usage levels, such as:

- Seasonal and hourly time patterns (*e.g.*, month, day-of-week, and hour, plus various hour/day-type interactions);
- Weather (*e.g.*, cooling degree days, including hour-specific weather coefficients);
- Event variables. An event-day indicator variable is interacted with the 24 hours of the day. These interactions with hour-specific dummy variables allow the models to estimate program impacts for each hour of an event day.

Separate models were run estimated for the 2006 and 2007 program years. A formal description of the statistical model for the 2007 program year is shown below. (The 2006 model is identical in form, with only the specification of the specific event days differing.)

$$\begin{aligned}
 Q_t = & a + \sum_{Evt=1}^9 \sum_{i=1}^{24} (b_{i,Evt}^{PeakDay} \times h_{i,t} \times PeakDay_t) + \sum_{i=1}^{24} (b_i^{CDD} \times h_{i,t} \times CDD_t) + \\
 & + \sum_{i=2}^{24} (b_i^{MON} \times h_{i,t} \times MON_t) + \sum_{i=2}^{24} (b_i^{FRI} \times h_{i,t} \times FRI_t) + \sum_{i=2}^{24} (b_i^{WE} \times h_{i,t} \times WE_t) + \sum_{i=2}^{24} (b_i^h \times h_{i,t}) \\
 & + \sum_{i=2}^7 (b_i^{DTYPE} \times DTYPE_{i,t}) + \sum_{i=7}^9 (b_i^{MONTH} \times MONTH_{i,t}) + e_t
 \end{aligned}$$

In this equation, Q_t represents the aggregated hourly usage for the customers enrolled in Peak Day prior to the last event date; the b 's are estimated parameters; $h_{i,t}$ is a dummy variable for hour i ; $PeakDay_t$ is an indicator variable for Peak Day event days; CDD_t is cooling degree days;² MON_t is a dummy variable for Monday; FRI_t is a dummy variable for Friday; WE_t is a dummy variable for Weekends and holidays; $DTYPE_{i,t}$ is a series of dummy variables for each day of the week; $MONTH_{i,t}$ is a series of dummy variables for

² The build-up version of CDDs was not used in the customer-specific regression models.

each month; and e_t is the error term. The terms are assumed to be auto-correlated and are estimated with appropriate time-series techniques.³

The hourly coefficients on the *PeakDay* variable are estimates of the customer-specific load impacts for each event day. These values are extracted from the statistical output and compared to the average load reduction estimated during event hours using the 3-in-10 baseline method. Because the statistical models explicitly account for customer-specific load changes due to weather conditions, day type, etc., we would expect that the statistical models would produce a more accurate estimate of the load impacts than the 3-in-10 method.

2.2.3 Methods to determine whether the change in Peak Day program design affected customer behavior

In 2007, the Peak Day program was changed so that credits were paid for load reductions of 10 percent or more, where it had previously required load reductions of 20 percent or more. In order to determine whether this change in program design affected customer behavior, we compared the estimated customer-level load impact estimates across years. The first comparison was for customers who were enrolled in both years, to see whether the behavior for existing customers was altered by the change in program design. Second, we compared load impacts for customers who enrolled in 2007 to customers who were enrolled in both 2006 and 2007 to determine whether the change in program design attracted a different segment of customers (*i.e.*, customers who could reduce load by 10 to 20 percent, but not by 20 percent or more).

2.3 How the study meets the Load Impact Protocols

The study meets the key requirements of the Load Impact (LI) protocols, as follows:

- Program load response is estimated/forecast for each hour of an event day;
- Forecast scenarios are produced that account for uncertainty in weather conditions and the estimated parameters; and
- The results account for differences in load response across different customer types, where customers are categorized by their industry type and rate code.

We are not aware of any way in which the methods used in this study fail to meet the LI protocols.

4. Detailed Study Findings

4.1 Description of Enrolled Customers

Tables 4.1.1, 4.1.2, and 4.1.3 show the characteristics of customers enrolled in the Peak Day Program in 2007. Table 4.1.1 shows the distribution of customers by size, as measured by the average summer monthly maximum demand values. As expected, the majority of the enrolled customers fall in the smaller demand categories.

³ The STATA PRAIS command is used, which uses the Prais-Winsten method of correcting for serial correlation.

Table 4.1.1: Share of Participants by Average Summer Maximum Demand

Maximum Demand	Share of Enrolled Customers
Under 25 kW	13.6%
25 to 50 kW	25.2%
50 to 100 kW	20.0%
100 to 200 kW	18.3%
200 to 500 kW	15.1%
500 to 750 kW	3.3%
750 to 1,000 kW	1.6%
1,000 to 5,000 kW	2.7%

Table 4.1.2 shows the distribution of enrolled customers across industry groups. By load, the most highly represented industry groups are: educational services; health care and social assistance; professional, scientific, and technical services; and manufacturing. Together, these four industry groups account for over 70 percent of the enrolled load.

Table 4.1.2: Enrolled Customers by NAICS Group

2-Digit NAICS Code	Description	Share of Enrolled Customers	Share of Enrolled Load
11	Agriculture, Forestry, Fishing and Hunting	0.1%	0.0%
22	Utilities	0.8%	1.0%
23	Construction	0.7%	0.3%
31-33	Manufacturing	10.1%	13.9%
42	Wholesale Trade	1.9%	1.9%
44-45	Retail Trade	11.7%	3.8%
48-49	Transportation and Warehousing	0.6%	0.2%
51	Information	0.7%	0.4%
52	Finance and Insurance	0.4%	0.1%
53	Real Estate and Rental and Leasing	5.1%	2.5%
54	Professional, Scientific, and Technical Services	5.7%	14.7%
55	Management of Companies and Enterprises	0.1%	0.0%
56	Administrative and Support and Waste Management and Remediation Services	0.6%	1.6%
61	Educational Services	24.7%	22.0%
62	Health Care and Social Assistance	10.6%	20.5%
71	Arts, Entertainment, and Recreation	3.1%	4.0%
72	Accommodation and Food Services	14.1%	9.6%
81	Other Services (except Public Administration)	8.2%	3.1%
92	Public Administration	0.6%	0.3%

Table 4.1.3 illustrates the load variability of the customers, represented by the coefficient of variation (CV). We calculated the CV as the standard deviation of load divided by the mean hourly load, using data from non-event day weekdays during the summer months.

The differences in the CV between the share of enrolled customers and the share of enrolled load reflect the fact that the larger customers tend to have less variable loads. For example, the lowest variability category (a CV of 0.1 or less) has 12 percent of the enrolled customers but 34.3 percent of the enrolled load.

Table 4.1.3: Coefficient of Variation for Enrolled Customers

Coefficient of Variation	Share of Enrolled Customers	Share of Enrolled Load
Under 0.10	12.0%	34.3%
0.10 to 0.20	27.3%	33.7%
0.20 to 0.30	15.4%	6.1%
0.30 to 0.40	9.7%	5.7%
0.40 to 0.50	11.9%	6.3%
0.50 to 0.60	9.6%	6.5%
0.60 to 0.70	6.0%	2.1%
0.70 to 0.80	3.1%	1.1%
0.80 to 0.90	1.5%	2.4%
0.90 to 1.00	0.6%	1.3%
Over 1.00	3.0%	0.5%

4.2 Program-Level Load Impact Estimates

Separate models were estimated by year, hour and industry group. Because of the large number of models estimated ($2 \times 24 \times 8 = 384$), we do not report all of the model coefficients and standard errors in this report. Summary statistics for each regression are reported in Tables 4.2.1 through 4.2.4. Recall that eight industry groups were specified. They are listed below, along with the abbreviation used for each in the tables below.

1. Agriculture, Mining & Construction: Ag
2. Manufacturing: Manuf
3. Wholesale, Transport, other utilities: Whole
4. Pipelines & Water utilities: Util
5. Retail stores: Retail
6. Offices, Hotels, Finance, Services: Office
7. Educational Services: Schools
8. Institutional/Government: Govt

Tables 4.2.1 and 4.2.2 show the number of observations for each of the models, while Tables 4.2.3 and 4.2.4 show the R-squared values for each of the regression models. The R-squared values indicate that the explanatory power of the models is generally quite high, with the Pipelines & Water Utilities group serving as an exception in some hours.

**Table 4.2.1: Number of Observations by Regression Model
2006 Models**

Hour	Ag	Manuf	Whole	Util	Retail	Office	Schools	Govt
1	627	6,532	1,776	373	8,198	22,406	16,289	7,859
2	627	6,534	1,776	373	8,198	22,406	16,292	7,859
3	627	6,534	1,776	373	8,198	22,406	16,282	7,857
4	627	6,534	1,776	373	8,198	22,398	16,295	7,859
5	627	6,535	1,776	373	8,198	22,398	16,287	7,859
6	627	6,535	1,774	373	8,196	22,400	16,289	7,853
7	627	6,535	1,776	373	8,198	22,430	16,286	7,859
8	627	6,535	1,776	373	8,200	22,434	16,321	7,859
9	627	6,529	1,776	373	8,198	22,436	16,353	7,859
10	627	6,535	1,776	373	8,198	22,438	16,316	7,857
11	627	6,535	1,776	373	8,202	22,443	16,326	7,855
12	627	6,536	1,776	373	8,202	22,443	16,357	7,857
13	627	6,537	1,776	373	8,203	22,443	16,387	7,857
14	628	6,538	1,772	373	8,203	22,441	16,361	7,858
15	628	6,536	1,776	373	8,201	22,435	16,376	7,860
16	628	6,536	1,777	373	8,204	22,441	16,360	7,861
17	628	6,537	1,777	373	8,204	22,441	16,360	7,862
18	628	6,537	1,777	373	8,204	22,443	16,352	7,862
19	628	6,537	1,777	373	8,207	22,436	16,385	7,862
20	628	6,537	1,777	373	8,207	22,432	16,292	7,862
21	629	6,537	1,777	373	8,207	22,428	16,294	7,862
22	629	6,533	1,775	373	8,207	22,426	16,283	7,862
23	629	6,533	1,775	373	8,205	22,423	16,296	7,862
24	629	6,533	1,773	373	8,201	22,418	16,287	7,862

**Table 4.2.2: Number of Observations by Regression Model
2007 Models**

Hour	Ag	Manuf	Whole	Util	Retail	Office	Schools	Govt
1	693	8,083	2,025	436	9,418	27,367	17,963	9,289
2	693	8,085	2,025	437	9,418	27,361	17,975	9,289
3	693	8,085	2,025	436	9,420	27,357	17,978	9,289
4	693	8,083	2,025	437	9,420	27,359	17,974	9,289
5	693	8,085	2,025	436	9,418	27,357	17,971	9,289
6	693	8,085	2,025	437	9,420	27,363	17,973	9,291
7	693	8,085	2,025	437	9,420	27,382	17,972	9,291
8	693	8,085	2,025	438	9,420	27,356	18,007	9,292
9	693	8,087	2,025	437	9,420	27,370	18,056	9,292
10	693	8,085	2,025	438	9,420	27,388	18,057	9,291
11	693	8,087	2,025	436	9,420	27,391	18,082	9,291
12	693	8,087	2,025	440	9,416	27,408	18,077	9,291
13	693	8,087	2,025	436	9,420	27,425	18,090	9,291
14	693	8,087	2,025	439	9,421	27,422	18,078	9,291
15	693	8,086	2,025	441	9,421	27,423	18,080	9,289
16	693	8,086	2,025	430	9,421	27,418	18,091	9,289
17	693	8,084	2,025	442	9,419	27,398	18,065	9,287
18	693	8,084	2,025	437	9,419	27,395	18,150	9,289
19	693	8,084	2,025	435	9,421	27,387	18,049	9,289
20	693	8,084	2,025	440	9,421	27,393	17,975	9,289
21	693	8,086	2,025	434	9,421	27,391	17,970	9,289
22	693	8,084	2,025	433	9,421	27,393	17,972	9,289
23	693	8,084	2,025	432	9,421	27,388	17,974	9,289
24	693	8,084	2,025	435	9,421	27,382	17,969	9,287

**Table 4.2.3: R-Squared by Regression Model
2006 Models**

Hour	Ag	Manuf	Whole	Util	Retail	Office	Schools	Govt
1	0.952	0.141	0.927	0.341	0.041	0.978	0.975	0.904
2	0.959	0.164	0.934	0.390	0.810	0.980	0.975	0.921
3	0.967	0.294	0.936	0.573	0.822	0.980	0.976	0.936
4	0.961	0.376	0.943	0.592	0.834	0.981	0.976	0.935
5	0.947	0.481	0.950	0.316	0.898	0.979	0.973	0.938
6	0.937	0.619	0.953	0.346	0.955	0.978	0.974	0.946
7	0.951	0.878	0.967	0.432	0.947	0.977	0.968	0.929
8	0.948	0.884	0.963	0.023	0.914	0.975	0.955	0.923
9	0.954	0.881	0.954	0.396	0.928	0.974	0.932	0.909
10	0.965	0.904	0.926	0.438	0.896	0.974	0.940	0.873
11	0.954	0.915	0.925	0.001	0.905	0.972	0.930	0.837
12	0.955	0.921	0.936	0.425	0.919	0.970	0.911	0.829
13	0.940	0.926	0.927	0.498	0.926	0.970	0.911	0.849
14	0.937	0.920	0.907	0.431	0.933	0.969	0.897	0.849
15	0.912	0.898	0.924	0.424	0.875	0.967	0.892	0.851
16	0.932	0.923	0.893	0.301	0.785	0.965	0.915	0.840
17	0.918	0.909	0.861	0.440	0.716	0.950	0.902	0.826
18	0.894	0.907	0.862	0.439	0.704	0.953	0.886	0.777
19	0.888	0.915	0.909	0.645	0.687	0.956	0.873	0.718
20	0.883	0.919	0.878	0.365	0.878	0.953	0.903	0.735
21	0.702	0.872	0.891	0.283	0.002	0.957	0.920	0.716
22	0.448	0.866	0.921	0.001	0.303	0.959	0.944	0.789
23	0.690	0.856	0.907	0.004	0.730	0.965	0.964	0.798
24	0.920	0.872	0.921	0.485	0.707	0.972	0.973	0.828

**Table 4.2.4: R-Squared by Regression Model
2007 Models**

Hour	Ag	Manuf	Whole	Util	Retail	Office	Schools	Govt
1	0.928	0.775	0.943	0.654	0.358	0.979	0.976	0.914
2	0.955	0.809	0.947	0.655	0.827	0.979	0.976	0.919
3	0.956	0.808	0.952	0.670	0.828	0.982	0.976	0.932
4	0.964	0.821	0.961	0.652	0.826	0.982	0.975	0.936
5	0.964	0.733	0.967	0.659	0.889	0.981	0.975	0.943
6	0.967	0.783	0.960	0.690	0.947	0.981	0.975	0.950
7	0.972	0.888	0.956	0.728	0.946	0.977	0.969	0.943
8	0.963	0.901	0.953	0.515	0.940	0.973	0.955	0.933
9	0.968	0.917	0.928	0.458	0.942	0.969	0.931	0.902
10	0.966	0.919	0.901	0.433	0.931	0.970	0.908	0.865
11	0.958	0.917	0.826	0.394	0.934	0.967	0.907	0.804
12	0.956	0.924	0.833	0.353	0.923	0.966	0.907	0.800
13	0.961	0.928	0.845	0.375	0.939	0.968	0.903	0.812
14	0.954	0.924	0.827	0.714	0.937	0.967	0.899	0.831
15	0.953	0.912	0.847	0.681	0.900	0.967	0.887	0.826
16	0.918	0.923	0.901	0.391	0.881	0.965	0.897	0.842
17	0.890	0.879	0.869	0.193	0.851	0.952	0.895	0.827
18	0.892	0.879	0.902	0.141	0.847	0.955	0.882	0.721
19	0.548	0.890	0.903	0.062	0.864	0.954	0.886	0.606
20	0.777	0.901	0.907	0.410	0.860	0.948	0.912	0.669
21	0.626	0.864	0.830	0.495	0.681	0.948	0.927	0.640
22	0.438	0.875	0.932	0.561	0.018	0.958	0.948	0.793
23	0.933	0.883	0.923	0.640	0.504	0.967	0.969	0.805
24	0.942	0.882	0.943	0.679	0.452	0.973	0.977	0.883

The industry-level models generally performed well. However, the Educational Services models estimated implausible load impacts for some of the 2007 event days.

Specifically, large *positive* load impacts (i.e., increases in loads on event days, all else equal) were estimated for event days in late August. This appears to be due to the fact that loads are generally increasing through late August, probably because schools are beginning to return to session. Because the models do not include a variable that explicitly accounts for this effect, the event-day variables “pick up” some of this increase in load, leading to positive coefficients on the event-day variables. Because we do not believe that these load impacts represent customer behavior that is caused by declaring an event day, we have reported the results with and without the Educational Services customers included.

Tables 4.2.5 through 4.2.8 show the program-level load impacts for 2006 and 2007 with and without the inclusion of the Educational Services customers. The tables show the reference loads, observed loads, and load impacts aggregated across the industry groups.

Table 4.2.5
Utility: San Diego Gas & Electric
DR Program: Peak Day Credit Program
Load Impacts for: Average of 2006 Event Days
Type of Results: Total for All Enrolled Customers, Including Educational Services

Hour Ending	Estimated Reference Load (kWh)	Actual Event Day Load (kWh)	Estimated Load Impact (kWh/hour)	Weighted Average Temperature (°F)	Uncertainty Adjusted Impact (kWh/ hr)- Percentiles				
					10th%ile	30th%ile	50th%ile	70th%ile	90th%ile
1	52,269	52,937	669	70.9	1,617	1,054	669	285	-263
2	50,495	51,177	681	70.8	1,560	1,039	681	326	-182
3	49,533	50,103	570	70.5	1,427	919	570	224	-272
4	49,507	50,084	576	70.4	1,424	921	576	234	-257
5	50,790	51,223	433	70.0	1,339	802	433	67	-458
6	55,495	55,693	198	71.1	1,214	611	198	-213	-800
7	62,422	62,422	0	73.2	1,070	435	0	-433	-1,052
8	71,570	72,690	1,120	75.5	2,349	1,620	1,120	623	-89
9	79,271	81,169	1,898	78.0	3,240	2,445	1,898	1,356	579
10	83,438	85,329	1,890	79.2	3,243	2,441	1,890	1,343	558
11	86,833	88,182	1,349	80.1	2,750	1,919	1,349	782	-30
12	88,185	87,897	-288	81.2	1,152	299	-288	-870	-1,704
13	87,974	88,087	113	81.3	1,541	694	113	-465	-1,293
14	88,212	88,011	-201	81.3	1,255	392	-201	-790	-1,633
15	87,274	86,853	-421	80.7	1,071	186	-421	-1,025	-1,888
16	84,690	83,917	-773	79.9	705	-171	-773	-1,370	-2,225
17	81,335	80,526	-810	78.8	808	-152	-810	-1,462	-2,395
18	74,139	73,488	-651	76.7	894	-23	-651	-1,274	-2,164
19	68,486	68,747	261	74.9	1,754	868	261	-341	-1,200
20	65,858	66,048	190	73.3	1,622	772	190	-387	-1,211
21	64,246	64,414	168	72.5	1,500	710	168	-369	-1,137
22	61,171	61,755	584	72.0	1,833	1,092	584	80	-641
23	58,791	59,037	245	71.4	1,398	715	245	-220	-885
24	55,736	55,999	263	71.0	1,299	684	263	-156	-754
Daily	Reference Energy Use (kWh)	Actual Event Day Energy Use (kWh)	Change in Energy Use (kWh)	Cooling Degree Hours (Base 75 °F)	Uncertainty Adjusted Impact (kWh/ hour) - Percentiles				
	1,657,722	1,665,786	8,064	47.7	10th	30th	50th	70th	90th
					n/a	n/a	n/a	n/a	n/a

Table 4.2.6
Utility: San Diego Gas & Electric
DR Program: Peak Day Credit Program
Load Impacts for: Average of 2006 Event Days
Type of Results: Total for All Enrolled Customers, Excluding Educational Services

Hour Ending	Estimated Reference Load (kWh)	Actual Event Day Load (kWh)	Estimated Load Impact (kWh/hour)	Weighted Average Temperature (°F)	Uncertainty Adjusted Impact (kWh/ hr)- Percentiles				
					10th%ile	30th%ile	50th%ile	70th%ile	90th%ile
1	48,503	49,115	612	70.9	1,559	997	612	230	-316
2	46,792	47,422	631	70.8	1,507	987	631	277	-230
3	45,873	46,389	516	70.5	1,371	864	516	171	-323
4	45,841	46,367	526	70.4	1,372	870	526	184	-304
5	46,906	47,315	409	70.0	1,313	777	409	44	-479
6	50,731	50,924	192	71.1	1,205	604	192	-216	-801
7	56,332	56,295	-37	73.2	1,024	395	-37	-466	-1,079
8	62,860	63,707	846	75.5	2,047	1,335	846	362	-332
9	68,599	70,035	1,436	78.0	2,718	1,958	1,436	918	177
10	71,904	73,356	1,452	79.2	2,747	1,979	1,452	928	179
11	74,749	75,749	1,000	80.1	2,331	1,542	1,000	462	-308
12	76,220	75,668	-552	81.2	802	0	-552	-1,099	-1,882
13	76,478	76,167	-311	81.3	1,035	237	-311	-855	-1,634
14	77,138	76,582	-556	81.3	815	2	-556	-1,109	-1,902
15	76,774	76,138	-637	80.7	779	-61	-637	-1,209	-2,027
16	75,845	74,980	-865	79.9	572	-281	-865	-1,445	-2,275
17	74,254	73,290	-964	78.8	626	-317	-964	-1,605	-2,520
18	68,352	67,577	-774	76.7	752	-154	-774	-1,389	-2,266
19	63,420	63,509	89	74.9	1,566	689	89	-505	-1,354
20	61,036	61,044	9	73.3	1,428	585	9	-563	-1,378
21	59,477	59,514	37	72.5	1,359	574	37	-496	-1,256
22	56,895	57,386	491	72.0	1,735	997	491	-10	-727
23	54,572	54,776	204	71.4	1,354	671	204	-260	-922
24	51,749	51,991	242	71.0	1,276	663	242	-175	-772
Daily	Reference Energy Use (kWh)	Actual Event Day Energy Use (kWh)	Change in Energy Use (kWh)	Cooling Degree Hours (Base 75 °F)	Uncertainty Adjusted Impact (kWh/ hour) - Percentiles				
	1,491,301	1,495,298	3,997	47.7	10th	30th	50th	70th	90th
					n/a	n/a	n/a	n/a	n/a

Table 4.2.7
Utility: San Diego Gas & Electric
DR Program: Peak Day Credit Program
Load Impacts for: Average of 2007 Event Days
Type of Results: Total for All Enrolled Customers, Including Educational Services

Hour Ending	Estimated Reference Load (kWh)	Actual Event Day Load (kWh)	Estimated Load Impact (kWh/hour)	Weighted Average Temperature (°F)	Uncertainty Adjusted Impact (kWh/ hr)- Percentiles				
					10th%ile	30th%ile	50th%ile	70th%ile	90th%ile
1	65,895	65,480	-416	71.1	768	66	-416	-894	-1,578
2	63,649	63,625	-24	71.0	1,135	448	-24	-492	-1,162
3	62,469	62,587	118	70.6	1,238	574	118	-334	-981
4	62,186	62,431	246	70.4	1,349	695	246	-200	-838
5	63,587	64,157	570	70.3	1,708	1,033	570	110	-549
6	69,929	70,711	782	70.7	2,055	1,300	782	268	-468
7	78,071	80,133	2,063	72.4	3,339	2,583	2,063	1,546	806
8	88,895	91,595	2,700	74.8	4,154	3,292	2,700	2,111	1,269
9	99,486	102,563	3,077	77.5	4,634	3,712	3,077	2,447	1,544
10	107,375	109,288	1,913	79.2	3,546	2,578	1,913	1,251	303
11	113,341	113,800	459	80.4	2,169	1,156	459	-233	-1,225
12	116,607	116,032	-574	80.0	1,179	140	-574	-1,284	-2,302
13	117,651	116,558	-1,093	79.9	643	-385	-1,093	-1,796	-2,804
14	118,264	116,480	-1,784	79.8	-30	-1,069	-1,784	-2,494	-3,511
15	116,710	114,741	-1,968	79.9	-165	-1,234	-1,968	-2,698	-3,744
16	111,603	109,201	-2,402	78.5	-643	-1,685	-2,402	-3,114	-4,133
17	104,609	102,122	-2,487	77.4	-604	-1,721	-2,487	-3,248	-4,336
18	97,463	95,038	-2,425	75.0	-581	-1,675	-2,425	-3,169	-4,234
19	90,534	89,015	-1,519	72.8	259	-796	-1,519	-2,236	-3,262
20	86,504	85,648	-855	72.0	787	-187	-855	-1,518	-2,466
21	84,104	83,035	-1,069	71.5	498	-431	-1,069	-1,702	-2,607
22	79,546	78,478	-1,068	71.2	373	-482	-1,068	-1,650	-2,482
23	73,813	73,292	-521	70.8	808	20	-521	-1,058	-1,827
24	69,313	68,943	-370	71.8	865	132	-370	-869	-1,583
Daily	Reference Energy Use (kWh)	Actual Event Day Energy Use (kWh)	Change in Energy Use (kWh)	Cooling Degree Hours (Base 75 °F)	Uncertainty Adjusted Impact (kWh/ hour) - Percentiles				
	2,141,601	2,134,954	-6,647	37.6	10th	30th	50th	70th	90th
					n/a	n/a	n/a	n/a	n/a

Table 4.2.8
Utility: San Diego Gas & Electric
DR Program: Peak Day Credit Program
Load Impacts for: Average of 2007 Event Days
Type of Results: Total for All Enrolled Customers, Excluding Educational Services

Hour Ending	Estimated Reference Load (kWh)	Actual Event Day Load (kWh)	Estimated Load Impact (kWh/hour)	Weighted Average Temperature (°F)	Uncertainty Adjusted Impact (kWh/ hr)- Percentiles				
					10th%ile	30th%ile	50th%ile	70th%ile	90th%ile
					1	60,186	59,577	-610	71.1
2	58,111	57,875	-237	71.0	916	232	-237	-702	-1,367
3	56,961	56,865	-96	70.6	1,018	357	-96	-545	-1,188
4	56,600	56,599	-2	70.4	1,095	444	-2	-444	-1,077
5	57,687	57,973	286	70.3	1,417	746	286	-170	-823
6	62,771	63,103	332	70.7	1,592	845	332	-176	-903
7	68,278	69,394	1,116	72.4	2,364	1,624	1,116	611	-111
8	74,510	75,332	822	74.8	2,202	1,384	822	265	-532
9	81,266	82,089	824	77.5	2,239	1,400	824	252	-567
10	86,888	86,787	-100	79.2	1,334	484	-100	-680	-1,511
11	91,025	89,675	-1,350	80.4	137	-744	-1,350	-1,952	-2,814
12	93,671	91,168	-2,503	80.0	-979	-1,882	-2,503	-3,119	-4,001
13	95,003	91,888	-3,114	79.9	-1,612	-2,503	-3,114	-3,722	-4,593
14	95,662	91,840	-3,822	79.8	-2,304	-3,204	-3,822	-4,436	-5,315
15	95,169	91,195	-3,974	79.9	-2,408	-3,337	-3,974	-4,608	-5,514
16	93,737	89,869	-3,868	78.5	-2,262	-3,215	-3,868	-4,517	-5,446
17	91,117	87,557	-3,560	77.4	-1,761	-2,828	-3,560	-4,286	-5,324
18	86,708	83,234	-3,474	75.0	-1,693	-2,749	-3,474	-4,192	-5,217
19	81,132	78,844	-2,287	72.8	-554	-1,583	-2,287	-2,986	-3,984
20	77,330	75,810	-1,520	72.0	86	-867	-1,520	-2,168	-3,093
21	75,291	73,723	-1,568	71.5	-29	-942	-1,568	-2,188	-3,075
22	71,872	70,498	-1,374	71.2	49	-795	-1,374	-1,948	-2,769
23	67,181	66,508	-672	70.8	649	-135	-672	-1,206	-1,968
24	63,292	62,796	-495	71.8	734	5	-495	-991	-1,701
Daily	Reference Energy Use (kWh)	Actual Event Day Energy Use (kWh)	Change in Energy Use (kWh)	Cooling Degree Hours (Base 75 °F)	Uncertainty Adjusted Impact (kWh/ hour) - Percentiles				
	1,841,448	1,810,201	-31,248	37.6	10th	30th	50th	70th	90th
					n/a	n/a	n/a	n/a	n/a

Relative to the 2007 results, the 2006 load impact estimates are not as sensitive to the inclusion of the Educational Services customers, and the load impacts are under 1 MW regardless of whether the group is included. In 2007, the load impacts excluding the Educational Services customers are nearly 4 MW. In both years, it appears that there are some load increases in the pre-event hours, possibly reflecting pre-cooling to compensate for load reductions during the event hours.

Figures 4.2.1 through 4.2.3 illustrate the load impacts.⁴ Figure 4.2.1 shows the load impacts in the Tables above. As the figure reflects, the inclusion of Educational Services customers appears to produce an upward bias in the load impact estimates (i.e., leading to

⁴ Figures 4.2.2 and 4.2.3 are best viewed in color.

smaller load reductions or larger load increases). This effect is not prominent in the 2006 load impact estimates.

Figure 4.2.1: Average Load Impacts by Year

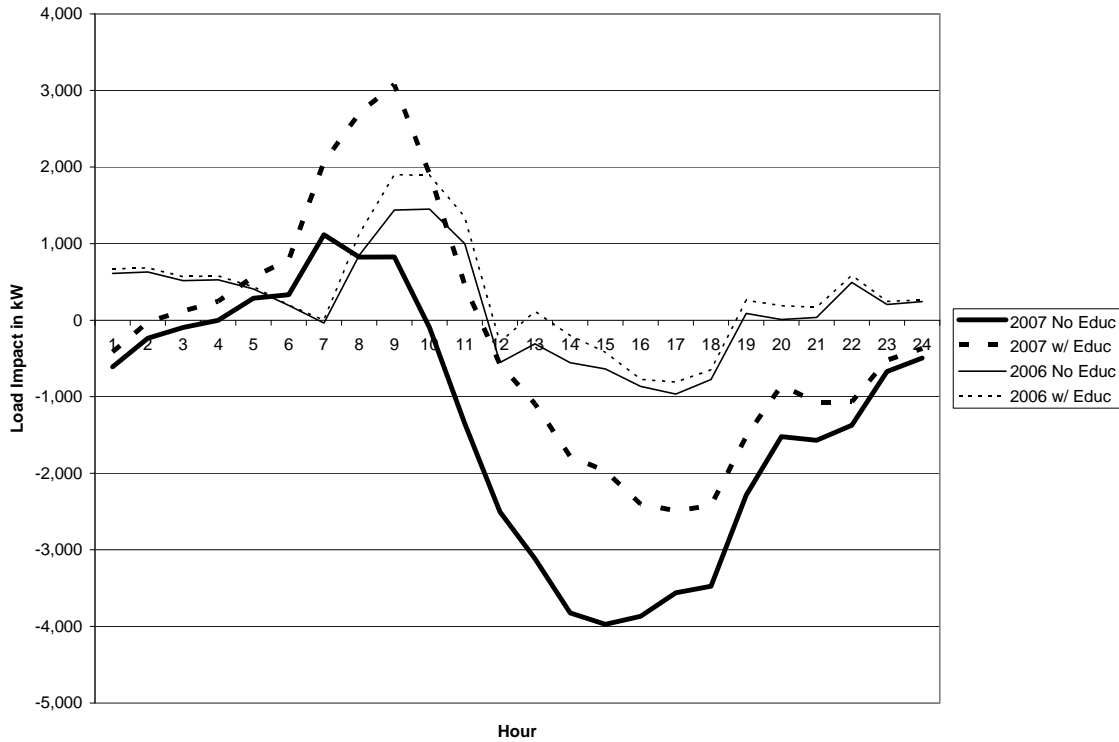


Figure 4.2.2 shows the average 2007 load impacts by industry group, reflecting the significant variation of load impacts across groups. This figure clearly shows the load *increases* that are estimated for the Educational Services customers. It also shows that the Manufacturing and Office customers provided the majority of the load response.

Figure 4.2.2: Average Load Impacts by Industry Group, 2007

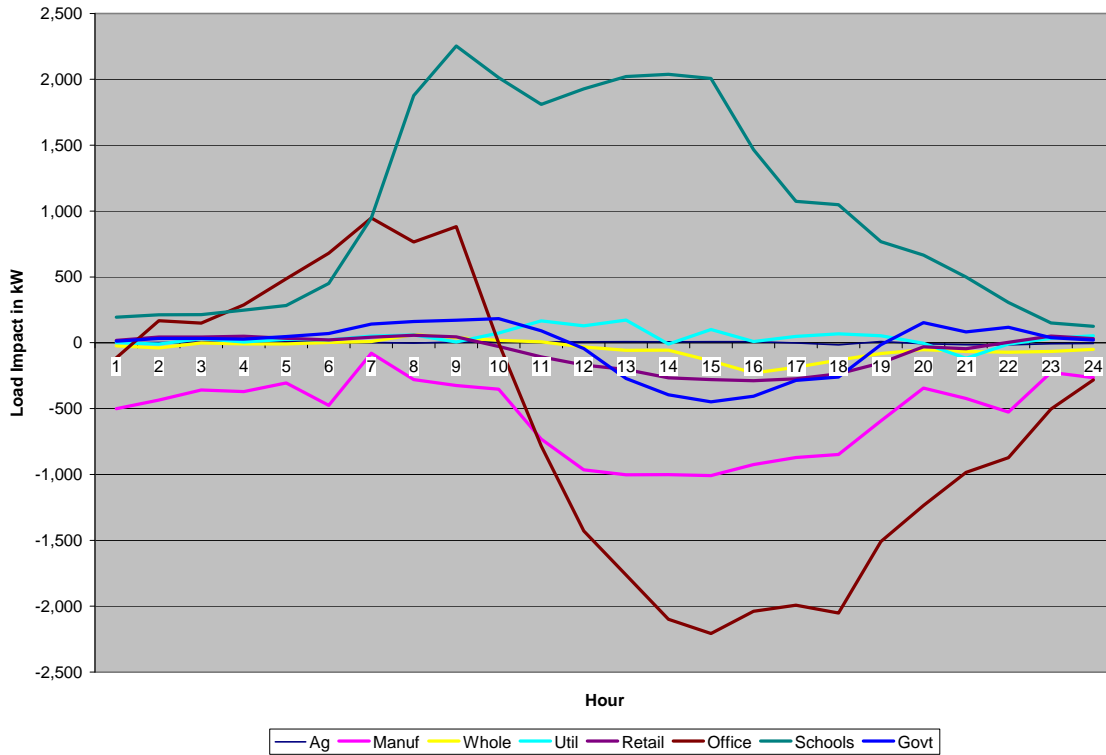
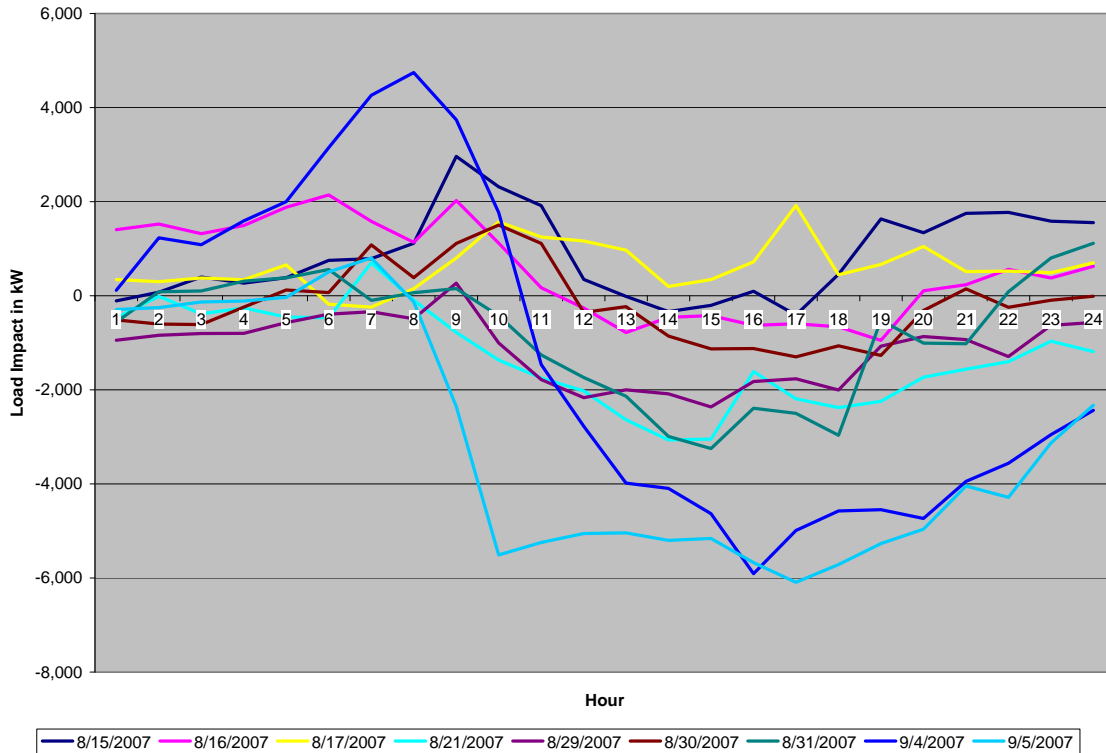


Figure 4.2.3 provides a more detailed view of the 2007 load response for Office customers. There is considerable variation in the load response by event for these customers. The largest response comes in the two events that occurred during the week of Labor Day (September 4th and 5th), which raises some questions as to whether the load impacts are over-estimated on those days (i.e., which could occur if the model does not adequately account for reductions in load that are due to the proximity to a holiday weekend). However, the fact that the pre-event hour load impacts for those days are near zero provides some indication that the estimated impacts during event hours reflect customer behavior in response to the Peak Day program.

Figure 4.2.3: Event-Specific Load Impacts, Office Customers in 2007



Relative to the size of the program, the load impacts range from less than 1 percent in 2006 to slightly over 4 percent in 2007 (when Educational Services customers are excluded). As the range of the uncertainty-adjusted load impacts shows, the load impacts are not very precisely estimated. In particular, the 10th percentile scenario in 2006 reflects 1 percent load *increases* during event hours on Peak Day event days.

4.3 Comparison of Load Impacts Estimated from Statistical Models and the 3-in-10 Baseline Methodology

We examined the difference between the Peak Day load impacts estimated from customer-specific regression models versus the impacts based on the 3-in-10 day baseline method used to determine the program credits. A high-level summary of the differences can be constructed by dividing each customer-month outcome⁵ into one of four categories:

1. “Incorrectly not paid”: the regression model finds that the customer **should** have been paid a credit, but the customer **was not** paid based on the 3-in-10 baseline.
2. “Incorrectly paid”: the regression model finds that the customer **should not** have been paid a credit, and the customer **was** paid based on the 3-in-10 baseline.

⁵ Peak Day determines the credits based on event-day responses during the entire billing month. Therefore, for this analysis, a data point consists of one customer’s outcome in a specific billing month.

3. “Correctly not paid”: the regression model finds that the customer **should not** have been paid a credit, and the customer **was not** paid based on the 3-in-10 baseline.
4. “Incorrectly paid”: the regression model finds that the customer **should** have been paid a credit, and the customer **was** paid based on the 3-in-10 baseline.

Table 4.3.1 shows the share of enrolled customers and load that was in each of these categories in 2006 and 2007. The results indicate mixed results for the 3-in-10 baseline method. On the one hand, the overwhelming share of customer load (over 80 percent in both years) was correctly not paid a credit (assuming that the results of the regression models are correct). On the other hand, conditional on being paid a Peak Day credit (i.e., the “incorrectly paid” and “correctly paid” groups), there is only about a 50-50 chance that the customer deserved it. For example, in 2006, about the same share of load is in the “correctly paid” and “incorrectly paid” groups.

Table 4.3.1: Comparison of Program Payments by Method

Group	2006		2007	
	Customer Share	Load Share	Customer Share	Load Share
Incorrectly not paid	3.0%	1.3%	3.6%	0.7%
Incorrectly paid	16.7%	8.2%	11.0%	4.8%
Correctly not paid	67.3%	82.5%	74.2%	87.8%
Correctly paid	13.0%	8.1%	11.2%	6.7%

Because membership in the “incorrectly paid” group implies that SDG&E paid out money it should not have, it might be interesting to examine it more closely. In general, members of this group had lower R-squared values than the average customer (0.60 versus 0.68 in 2006; and 0.64 versus 0.69 in 2007). This indicates the possibility that customers are classified in this group because the regression model does not estimate an accurate reference load (as opposed to a problem existing with the 3-in-10 baseline method).

The 2006 data do not show any large differences in “incorrectly paid” group membership by industry group. However, in 2007, Manufacturing and Government customers were more likely to be in the group, while Educational Services customers were much less likely to have been in this group. Again, this may indicate a problem in the regression models for Educational Services customers, as reflected in the aggregate program impacts reported in Section 4.2.

A separate analysis was conducted to determine if any factors explain the difference between the econometrically estimated load impacts and the 3-in-10 load impacts. We ran Ordinary Least Squares (OLS) regressions with the absolute value of the difference between the two load impacts as the dependent variable (where a 10 percentage point difference is represented as “10”) and the following explanatory variables:

- The R-squared from the customer-specific regression model;

- The p-value associated with F-statistic on the joint probability that the CDD, hour interaction variables are different from zero (this ranges from 0 to 1, with higher values indicating less weather sensitive customers);
- A dummy variable for weather zone 1 (with zone 4 as the omitted category); and
- Industry-group dummy variables (with Agriculture, etc. as the omitted category).

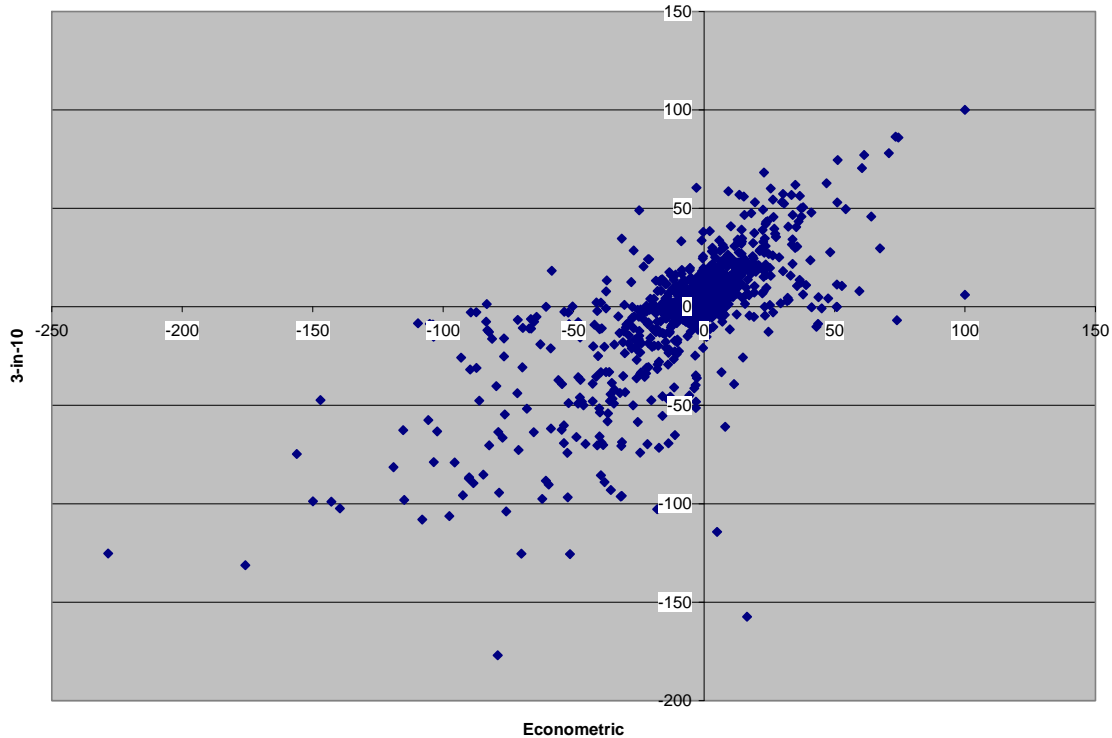
Separate models were estimated for 2006 and 2007. Table 4.3.2 shows the estimated coefficients. The relatively low R-squared values (0.16 and 0.28) indicate that the models do not explain a very large share of the variation in the differences. However, some of the variables are statistically significant. Specifically, the results for the R-squared variable indicate that the difference between the econometric and 3-in-10 load impacts is larger where the customer-specific regression model has lower explanatory power. The CDD p-value coefficients indicate that less weather sensitive customers have larger differences. Finally, Educational Services customers have larger differences in estimated load impacts than other industrial groups, perhaps reflecting the difficulty in accounting for when school is in session.

Table 4.3.2: OLS Regression Results
Dependent Variable = | Econometric Load Impact – 3-in-10 Load Impact |

Variable	2006		2007	
	Coefficient	Standard Error	Coefficient	Standard Error
Intercept	30.862	5.023	22.401	5.117
R-squared	-25.831	2.990	-15.410	2.761
CDD p-value	19.437	4.061	13.441	3.670
Zone 1	-2.278	0.999	-0.786	0.881
Manuf	-1.498	4.805	-1.166	4.868
Whole	-1.877	5.308	-2.788	5.244
Util	-3.056	7.599	-3.663	8.700
Retail	-4.253	4.743	-6.037	4.810
Office	-3.513	4.601	-5.151	4.700
Schools	13.543	4.661	15.662	4.728
Govt	-2.296	4.750	-1.832	4.835
Regression Model Statistics				
Observations	1,596		1,230	
R-squared	0.16		0.28	

Figure 4.3.1 shows a scatter plot of the 2007 load impacts estimated using the two methods (econometric and 3-in-10 baselines). The figure shows that a positive relationship exists between the two (i.e., they tend to either both be positive or both be negative), but there are significant deviations from the 45 degree line (that defines a perfect match between the results of the two methods).

Figure 4.3.1: Scatter Plot of Load Impacts based on Econometric Methods and 3-in-10 Baselines, 2007



4.4 Analysis of Whether the Change in Peak Day Program Design Altered Customer Behavior

In 2007, Peak Day was modified so that enrolled customers could receive credits for load reductions of 10 percent or more, where the previous minimum load reduction required in order to receive a credit was 20 percent. In this section, we attempt to determine whether this change in program design resulted in a change in customer behavior.

We first examined the load impacts for customers who were enrolled in the program in both 2006 and 2007. Using the load impacts based on both the econometric models and the 3-in-10 baselines, we determined the share of customers whose load reductions fell into the following categories:

- 20 percent or more (the pre-2007 requirement to receive a credit);
- 10 to 20 percent (which merited a credit in 2007);
- 0 to 10 percent; and
- Load increases.

Table 4.4.1 shows the results of this comparison. If the change in program design affected enrolled customer behavior, we would expect that the share of customers reducing load by 10 to 20 percent would increase from 2006 to 2007 (reflecting either customers who do a little more to reach the lowered threshold, or do a little less than they

did in 2006 because of the less stringent requirement). We examine both the econometric and 3-in-10 methods because it is not possible to know with certainty which method produces a better estimate of load impacts.

Table 4.4.1: Comparison of Load Reductions in 2006 and 2007, Only Customers Enrolled in Both Years

Load Reduction	Econometric Models		3-in-10 Baselines	
	2006	2007	2006	2007
20 percent or more	8.5%	7.8%	15.7%	10.5%
10 to 20 percent	6.9%	6.9%	13.4%	11.8%
0 to 10 percent	26.4%	32.7%	40.8%	35.5%
Load increase	58.2%	52.6%	30.1%	42.2%

The results in Table 4.4.1 indicate that enrolled customers did not significantly alter their behavior in response to the change in the program design. That is, the share of customers who reduced load by 10 to 20 percent (which would merit a credit in 2007, but not 2006) either stayed the same (according to the econometric model results) or declined (according to the 3-in-10 baseline results).

While these results indicate that currently enrolled customers did not change their behavior in response to the change in program design, it is also possible that the change in program design attracted customers who could reduce usage by 10 percent, but not 20 percent during event hours. To test this, we compared the load reductions for customers who were enrolled in only 2007 to those of customers who were enrolled in both 2006 and 2007. The results are shown in Table 4.4.2.

Table 4.4.2: Comparison of 2007 Load Reductions, Customers Enrolled in 2006 & 2007 vs. Customers Enrolled in Only 2007

Load Reduction	Econometric Models		3-in-10 Baselines	
	Enrolled in 2006 & 2007	Enrolled Only in 2007	Enrolled in 2006 & 2007	Enrolled Only in 2007
20 percent or more	7.8%	8.8%	10.5%	11.3%
10 to 20 percent	6.9%	5.4%	11.8%	10.4%
0 to 10 percent	32.7%	30.0%	35.5%	32.9%
Load increase	52.6%	55.8%	42.2%	45.4%

Notice that the share of customers in the 10 to 20 percent load reduction range actually goes down when examining customers who were only enrolled in 2007. Therefore, the results again do not support the hypothesis that the change in the Peak Day program design attracted customers who could respond 10 percent or more, but not 20 percent or more.

5. Validity Assessment

The most significant threat to the validity of the study is specification bias due to omitted variables in the regression equations. One manifestation of this bias can be found in the 2007 load impact estimates for the Educational Services, which appear to be caused by an inability of the model to adequately account for schools being in session. In addition, it appears that the load impacts are somewhat small relative to the size of the program, particularly in 2006, which can add to the difficulty in obtaining good estimates of the load impacts that occur.

We used a lagged dependent variable in order to account for missing factors. For example, the lagged dependent variable could help explain usage on days when a plant is shut down, so that usage levels are low for an extended period of time. However, there are clearly some instances (e.g., the aforementioned Educational Services models) in which this method does not eliminate the concern over omitted variables.

We estimated a variety of models in an attempt to refine the load impact estimates. These included first differencing the data (an alternative method to the fixed effects models), estimating models on aggregated data (as opposed to panel data), and estimating models that combined customers across the eight industry groups that we specified. Based on criteria of reasonableness of results (i.e., do the load impacts have the correct sign and a realistic time pattern) and statistical significance, we selected the methods presented in this report.

6. Recommendations

The primary goal of this report was to estimate the ex post load impacts from the Peak Day Credit Program. A secondary goal was to determine whether the change in program design in 2007 affected customer behavior. In the future, analyses of the Peak Day program could examine whether customers behave differently depending upon when the events are called in their billing cycle. For example, a customer may be more likely to reduce usage if no event days have been called during a customer's current billing month and the billing month is coming to an end. That is, Peak Day credits are based on a customer's average response across all of the event days in their billing month. If they know that there is only one day on which they will need to respond (but they get a credit applied to *all* of the peak-period usage during the billing month), the program may be perceived as an easy win for that particular month.

7. Appendix Tables, 2006 Program-Level Load Impacts

Table 7.1
Utility: San Diego Gas & Electric
DR Program: Peak Day Credit Program
Load Impacts for: June 29, 2006
Type of Results: Total for All Enrolled Customers

Hour Ending	Estimated Reference Load (kWh)	Actual Event Day Load (kWh)	Estimated Load Impact (kWh/hour)	Weighted Average Temperature (°F)	Uncertainty Adjusted Impact (kWh/ hr)- Percentiles				
					10th%ile	30th%ile	50th%ile	70th%ile	90th%ile
1	47,286	47,802	517	68.3	1,421	884	517	151	-371
2	45,635	46,319	683	67.9	1,516	1,022	683	347	-134
3	44,589	45,253	664	68.6	1,477	995	664	336	-135
4	44,550	45,002	452	67.6	1,257	779	452	126	-339
5	46,340	46,389	49	67.3	918	402	49	-302	-804
6	50,411	49,549	-862	69.2	97	-472	-862	-1,249	-1,803
7	55,473	54,307	-1,166	72.3	-170	-761	-1,166	-1,569	-2,145
8	62,176	61,349	-828	75.8	289	-373	-828	-1,279	-1,925
9	67,880	67,597	-283	78.5	918	206	-283	-768	-1,462
10	73,464	71,876	-1,589	79.8	-357	-1,087	-1,589	-2,087	-2,800
11	73,916	73,697	-219	78.5	1,041	294	-219	-728	-1,457
12	74,390	73,221	-1,169	80.5	119	-645	-1,169	-1,690	-2,435
13	74,531	72,705	-1,826	80.9	-559	-1,311	-1,826	-2,339	-3,072
14	75,715	72,388	-3,327	80.2	-2,043	-2,804	-3,327	-3,846	-4,589
15	75,348	71,426	-3,923	81.4	-2,608	-3,388	-3,923	-4,454	-5,213
16	73,264	70,017	-3,248	81.2	-1,927	-2,710	-3,248	-3,781	-4,544
17	70,786	68,141	-2,645	77.4	-1,179	-2,049	-2,645	-3,236	-4,080
18	65,993	65,153	-840	73.8	617	-248	-840	-1,427	-2,265
19	60,909	61,149	241	71.7	1,650	813	241	-326	-1,136
20	58,250	58,742	492	70.4	1,849	1,044	492	-54	-835
21	57,357	57,236	-121	69.6	1,140	392	-121	-630	-1,356
22	54,455	54,419	-36	69.6	1,141	443	-36	-510	-1,187
23	52,166	52,244	78	68.6	1,166	520	78	-361	-988
24	50,355	50,219	-136	68.6	850	266	-136	-534	-1,103
Daily	Reference Energy Use (kWh)	Actual Event Day Energy Use (kWh)	Change in Energy Use (kWh)	Cooling Degree Hours (Base 75 °F)	Uncertainty Adjusted Impact (kWh/ hour) - Percentiles				
					10th	30th	50th	70th	90th
	1,455,240	1,436,199	-19,041	44.2	n/a	n/a	n/a	n/a	n/a

Table 7.2
Utility: San Diego Gas & Electric
DR Program: Peak Day Credit Program
Load Impacts for: June 30, 2006
Type of Results: Total for All Enrolled Customers

Hour Ending	Estimated Reference Load (kWh)	Actual Event Day Load (kWh)	Estimated Load Impact (kWh/hour)	Weighted Average Temperature (°F)	Uncertainty Adjusted Impact (kWh/ hr)- Percentiles				
					10th%ile	30th%ile	50th%ile	70th%ile	90th%ile
1	48,395	47,963	-431	68.2	469	-65	-431	-795	-1,315
2	46,468	46,131	-337	67.9	493	1	-337	-672	-1,152
3	45,210	44,973	-237	67.6	569	91	-237	-563	-1,029
4	45,099	44,567	-532	67.1	257	-211	-532	-851	-1,307
5	45,849	45,227	-622	67.3	214	-282	-622	-960	-1,443
6	49,808	49,308	-500	68.4	449	-114	-500	-883	-1,431
7	55,226	53,634	-1,592	71.3	-610	-1,192	-1,592	-1,988	-2,555
8	62,558	60,025	-2,533	73.8	-1,446	-2,090	-2,533	-2,972	-3,600
9	69,077	65,725	-3,352	77.2	-2,189	-2,879	-3,352	-3,822	-4,495
10	71,748	69,363	-2,385	79.5	-1,211	-1,907	-2,385	-2,860	-3,539
11	74,091	72,118	-1,974	81.2	-756	-1,478	-1,974	-2,467	-3,172
12	74,267	71,584	-2,682	81.5	-1,441	-2,177	-2,682	-3,184	-3,903
13	75,009	71,710	-3,299	80.2	-2,063	-2,796	-3,299	-3,799	-4,514
14	74,949	71,022	-3,926	81.1	-2,676	-3,417	-3,926	-4,432	-5,155
15	74,374	69,826	-4,547	80.1	-3,251	-4,020	-4,547	-5,071	-5,819
16	72,272	67,997	-4,276	80.1	-2,991	-3,753	-4,276	-4,794	-5,536
17	69,400	65,941	-3,459	78.6	-2,053	-2,887	-3,459	-4,027	-4,837
18	66,045	62,903	-3,142	78.0	-1,739	-2,572	-3,142	-3,707	-4,514
19	61,172	59,232	-1,941	76.0	-576	-1,386	-1,941	-2,490	-3,275
20	58,373	57,151	-1,223	72.0	101	-685	-1,223	-1,756	-2,516
21	58,050	56,032	-2,018	71.2	-780	-1,515	-2,018	-2,517	-3,229
22	55,598	53,985	-1,613	69.9	-448	-1,139	-1,613	-2,083	-2,754
23	53,870	52,035	-1,835	69.6	-751	-1,394	-1,835	-2,272	-2,897
24	51,382	49,804	-1,579	68.9	-602	-1,181	-1,579	-1,973	-2,537
Daily	Reference Energy Use (kWh)	Actual Event Day Energy Use (kWh)	Change in Energy Use (kWh)	Cooling Degree Hours (Base 75 °F)	Uncertainty Adjusted Impact (kWh/ hour) - Percentiles				
	1,458,291	1,408,256	-50,034	48.5	10th	30th	50th	70th	90th
					n/a	n/a	n/a	n/a	n/a

Table 7.3
Utility: San Diego Gas & Electric
DR Program: Peak Day Credit Program
Load Impacts for: July 12, 2006
Type of Results: Total for All Enrolled Customers

Hour Ending	Estimated Reference Load (kWh)	Actual Event Day Load (kWh)	Estimated Load Impact (kWh/hour)	Weighted Average Temperature (°F)	Uncertainty Adjusted Impact (kWh/ hr)- Percentiles				
					10th%ile	30th%ile	50th%ile	70th%ile	90th%ile
1	51,845	50,863	-982	68.6	-75	-613	-982	-1,349	-1,874
2	49,548	49,165	-384	68.3	456	-42	-384	-723	-1,210
3	48,946	48,148	-798	67.1	22	-464	-798	-1,130	-1,605
4	48,781	47,683	-1,097	67.9	-292	-769	-1,097	-1,423	-1,890
5	49,827	48,536	-1,291	67.9	-434	-942	-1,291	-1,638	-2,134
6	54,346	52,493	-1,853	68.3	-892	-1,462	-1,853	-2,241	-2,796
7	62,352	58,904	-3,448	69.3	-2,435	-3,035	-3,448	-3,857	-4,444
8	70,672	68,993	-1,679	73.0	-506	-1,201	-1,679	-2,153	-2,832
9	76,612	76,945	332	77.1	1,612	854	332	-185	-927
10	80,582	82,059	1,477	79.9	2,789	2,011	1,477	946	185
11	84,504	86,305	1,801	81.2	3,177	2,361	1,801	1,244	446
12	87,850	87,062	-788	82.7	638	-207	-788	-1,364	-2,190
13	85,137	86,639	1,501	82.2	2,904	2,073	1,501	934	121
14	84,071	86,633	2,562	81.9	3,990	3,143	2,562	1,985	1,157
15	83,782	85,264	1,482	82.7	2,947	2,079	1,482	890	42
16	81,943	83,714	1,771	80.7	3,253	2,374	1,771	1,172	315
17	78,694	80,757	2,063	79.6	3,694	2,727	2,063	1,405	465
18	71,163	72,401	1,237	79.3	2,760	1,857	1,237	623	-254
19	65,542	67,023	1,481	77.4	2,932	2,071	1,481	896	60
20	63,206	64,050	844	74.7	2,231	1,408	844	285	-514
21	62,715	62,267	-448	72.6	837	75	-448	-966	-1,707
22	59,763	60,239	476	72.3	1,695	972	476	-16	-720
23	56,555	58,052	1,496	72.3	2,629	1,957	1,496	1,039	386
24	53,382	55,215	1,833	69.3	2,849	2,247	1,833	1,423	837
Daily	Reference Energy Use (kWh)	Actual Event Day Energy Use (kWh)	Change in Energy Use (kWh)	Cooling Degree Hours (Base 75 °F)	Uncertainty Adjusted Impact (kWh/ hour) - Percentiles				
	1,611,819	1,619,409	7,590	59.7	10th	30th	50th	70th	90th
					n/a	n/a	n/a	n/a	n/a

Table 7.4
Utility: San Diego Gas & Electric
DR Program: Peak Day Credit Program
Load Impacts for: July 13, 2006
Type of Results: Total for All Enrolled Customers

Hour Ending	Estimated Reference Load (kWh)	Actual Event Day Load (kWh)	Estimated Load Impact (kWh/hour)	Weighted Average Temperature (°F)	Uncertainty Adjusted Impact (kWh/ hr)- Percentiles				
					10th%ile	30th%ile	50th%ile	70th%ile	90th%ile
1	51,945	52,652	707	70.8	1,640	1,087	707	330	-210
2	50,099	50,392	292	70.3	1,146	640	292	-53	-547
3	48,995	49,249	253	69.8	1,085	592	253	-83	-565
4	48,989	49,307	318	70.1	1,141	653	318	-15	-492
5	50,391	49,987	-403	68.5	472	-47	-403	-758	-1,264
6	54,932	53,829	-1,102	71.4	-129	-706	-1,102	-1,496	-2,059
7	61,338	60,339	-1,000	74.0	24	-583	-1,000	-1,414	-2,006
8	70,872	71,365	493	76.6	1,690	980	493	9	-684
9	76,994	79,471	2,477	79.7	3,777	3,007	2,477	1,952	1,199
10	81,314	84,735	3,421	81.7	4,750	3,962	3,421	2,883	2,112
11	83,757	87,436	3,679	82.8	5,056	4,240	3,679	3,121	2,323
12	84,250	87,925	3,675	83.4	5,097	4,254	3,675	3,100	2,275
13	84,589	87,726	3,137	83.2	4,543	3,709	3,137	2,568	1,752
14	85,323	87,886	2,563	83.4	4,001	3,148	2,563	1,981	1,147
15	84,293	87,510	3,216	83.7	4,697	3,819	3,216	2,618	1,760
16	82,040	85,316	3,276	81.7	4,762	3,881	3,276	2,675	1,815
17	78,667	81,844	3,177	79.8	4,804	3,839	3,177	2,520	1,582
18	70,756	74,149	3,393	78.3	4,928	4,017	3,393	2,774	1,889
19	66,120	69,314	3,194	76.0	4,672	3,795	3,194	2,598	1,747
20	63,579	65,717	2,137	73.7	3,533	2,705	2,137	1,575	771
21	62,459	64,127	1,668	72.9	2,971	2,198	1,668	1,142	391
22	60,278	61,872	1,593	72.3	2,831	2,097	1,593	1,094	380
23	58,343	58,981	638	71.6	1,779	1,102	638	177	-481
24	55,136	56,062	927	70.8	1,948	1,342	927	514	-77
Daily	Reference Energy Use (kWh)	Actual Event Day Energy Use (kWh)	Change in Energy Use (kWh)	Cooling Degree Hours (Base 75 °F)	Uncertainty Adjusted Impact (kWh/ hour) - Percentiles				
	1,615,460	1,657,190	41,729	70.2	10th	30th	50th	70th	90th
					n/a	n/a	n/a	n/a	n/a

Table 7.5
Utility: San Diego Gas & Electric
DR Program: Peak Day Credit Program
Load Impacts for: July 14, 2006
Type of Results: Total for All Enrolled Customers

Hour Ending	Estimated Reference Load (kWh)	Actual Event Day Load (kWh)	Estimated Load Impact (kWh/hour)	Weighted Average Temperature (°F)	Uncertainty Adjusted Impact (kWh/ hr) - Percentiles				
					10th%ile	30th%ile	50th%ile	70th%ile	90th%ile
1	52,859	52,741	-118	71.2	823	265	-118	-499	-1,043
2	50,862	50,449	-414	70.9	449	-63	-414	-763	-1,262
3	49,666	49,473	-193	69.9	647	149	-193	-532	-1,018
4	49,979	49,756	-223	69.9	616	119	-223	-562	-1,047
5	50,675	50,612	-63	68.9	829	300	-63	-423	-939
6	54,698	53,896	-802	69.9	183	-402	-802	-1,200	-1,770
7	62,095	60,975	-1,121	72.0	-79	-697	-1,121	-1,542	-2,145
8	71,805	72,613	809	76.3	2,032	1,307	809	314	-395
9	78,710	79,980	1,270	79.6	2,587	1,806	1,270	738	-25
10	83,245	84,178	933	82.2	2,263	1,474	933	394	-377
11	87,043	87,379	335	82.2	1,717	898	335	-224	-1,024
12	88,344	87,635	-709	83.2	711	-131	-709	-1,284	-2,107
13	86,516	86,961	445	82.1	1,843	1,015	445	-120	-930
14	86,779	87,059	280	82.4	1,706	861	280	-297	-1,123
15	85,201	85,780	579	81.4	2,038	1,173	579	-11	-856
16	83,226	82,414	-811	80.8	634	-223	-811	-1,395	-2,231
17	79,346	76,995	-2,351	80.8	-809	-1,724	-2,351	-2,973	-3,862
18	74,104	72,075	-2,029	78.6	-510	-1,411	-2,029	-2,642	-3,517
19	68,305	67,564	-742	76.6	728	-144	-742	-1,334	-2,180
20	65,530	64,840	-690	75.4	719	-117	-690	-1,258	-2,069
21	64,508	63,238	-1,270	73.9	44	-736	-1,270	-1,800	-2,557
22	60,950	61,418	468	72.6	1,709	973	468	-33	-749
23	59,243	59,360	117	71.9	1,272	587	117	-349	-1,016
24	55,644	55,777	133	71.1	1,166	553	133	-285	-882
Daily	Reference Energy Use (kWh)	Actual Event Day Energy Use (kWh)	Change in Energy Use (kWh)	Cooling Degree Hours (Base 75 °F)	Uncertainty Adjusted Impact (kWh/ hour) - Percentiles				
	1,649,335	1,643,167	-6,167	66.6	10th	30th	50th	70th	90th
					n/a	n/a	n/a	n/a	n/a

Table 7.6
Utility: San Diego Gas & Electric
DR Program: Peak Day Credit Program
Load Impacts for: July 18, 2006
Type of Results: Total for All Enrolled Customers

Hour Ending	Estimated Reference Load (kWh)	Actual Event Day Load (kWh)	Estimated Load Impact (kWh/hour)	Weighted Average Temperature (°F)	Uncertainty Adjusted Impact (kWh/ hr)- Percentiles				
					10th%ile	30th%ile	50th%ile	70th%ile	90th%ile
1	53,967	54,413	446	71.9	1,408	837	446	57	-499
2	52,274	52,639	365	71.9	1,256	728	365	5	-511
3	51,587	51,589	2	71.9	871	356	2	-350	-853
4	51,474	51,637	163	71.9	1,021	513	163	-184	-680
5	52,986	52,703	-282	71.9	636	92	-282	-653	-1,185
6	57,622	57,842	219	72.2	1,252	640	219	-198	-796
7	65,766	64,614	-1,152	73.4	-69	-711	-1,152	-1,590	-2,218
8	74,841	76,532	1,691	75.3	2,952	2,204	1,691	1,180	450
9	82,081	84,468	2,387	76.8	3,757	2,945	2,387	1,833	1,039
10	84,606	89,128	4,521	77.1	5,910	5,087	4,521	3,959	3,154
11	87,562	91,819	4,257	78.8	5,695	4,843	4,257	3,675	2,841
12	89,686	91,120	1,435	79.4	2,900	2,032	1,435	842	-8
13	89,239	91,550	2,312	78.4	3,776	2,908	2,312	1,719	870
14	90,037	91,061	1,024	78.4	2,508	1,628	1,024	423	-437
15	88,314	88,831	517	78.3	2,023	1,130	517	-92	-963
16	86,231	86,324	92	77.6	1,598	705	92	-516	-1,387
17	83,215	82,894	-322	77.0	1,331	351	-322	-989	-1,942
18	74,893	74,666	-226	74.7	1,330	406	-226	-854	-1,751
19	69,222	70,099	877	73.4	2,380	1,488	877	271	-594
20	67,226	67,182	-44	72.4	1,390	539	-44	-623	-1,449
21	65,055	65,995	940	72.2	2,281	1,485	940	399	-375
22	61,685	63,085	1,400	72.2	2,653	1,909	1,400	894	171
23	57,984	59,366	1,382	71.9	2,521	1,845	1,382	922	265
24	55,562	56,218	656	71.9	1,680	1,073	656	242	-350
Daily	Reference Energy Use (kWh)	Actual Event Day Energy Use (kWh)	Change in Energy Use (kWh)	Cooling Degree Hours (Base 75 °F)	Uncertainty Adjusted Impact (kWh/ hour) - Percentiles				
	1,693,115	1,715,773	22,658	27.1	n/a	n/a	n/a	n/a	n/a

Table 7.7
Utility: San Diego Gas & Electric
DR Program: Peak Day Credit Program
Load Impacts for: July 21, 2006
Type of Results: Total for All Enrolled Customers

Hour Ending	Estimated Reference Load (kWh)	Actual Event Day Load (kWh)	Estimated Load Impact (kWh/hour)	Weighted Average Temperature (°F)	Uncertainty Adjusted Impact (kWh/ hr)- Percentiles				
					10th%ile	30th%ile	50th%ile	70th%ile	90th%ile
1	54,354	55,456	1,103	72.9	2,072	1,497	1,103	711	150
2	52,623	53,503	880	72.9	1,780	1,246	880	516	-5
3	51,237	52,112	875	72.2	1,745	1,229	875	523	20
4	51,559	52,604	1,044	72.6	1,911	1,397	1,044	694	192
5	53,762	54,980	1,218	71.9	2,161	1,602	1,218	837	291
6	58,911	60,418	1,507	72.9	2,573	1,941	1,507	1,076	460
7	65,966	67,134	1,169	74.9	2,283	1,622	1,169	718	72
8	75,645	78,854	3,209	77.4	4,500	3,735	3,209	2,687	1,939
9	81,577	86,967	5,390	78.3	6,778	5,955	5,390	4,828	4,024
10	87,271	91,928	4,657	79.8	6,061	5,229	4,657	4,088	3,273
11	93,444	95,728	2,284	79.8	3,759	2,885	2,284	1,687	831
12	93,372	95,068	1,696	80.6	3,204	2,310	1,696	1,086	211
13	92,991	94,337	1,346	81.1	2,832	1,952	1,346	745	-117
14	92,882	94,091	1,209	82.1	2,718	1,823	1,209	598	-276
15	90,597	94,015	3,418	81.1	4,980	4,054	3,418	2,786	1,881
16	87,205	90,351	3,146	81.1	4,691	3,775	3,146	2,521	1,626
17	83,652	86,863	3,212	80.1	4,908	3,902	3,212	2,527	1,548
18	80,276	77,698	-2,578	77.8	-990	-1,932	-2,578	-3,218	-4,134
19	69,346	72,730	3,384	76.3	4,930	4,013	3,384	2,761	1,871
20	66,782	69,655	2,873	75.4	4,356	3,476	2,873	2,275	1,420
21	65,664	68,620	2,956	75.4	4,344	3,521	2,956	2,396	1,595
22	63,285	66,395	3,110	74.7	4,415	3,641	3,110	2,582	1,829
23	61,101	63,920	2,819	74.2	4,028	3,311	2,819	2,331	1,632
24	57,975	60,646	2,672	72.9	3,756	3,113	2,672	2,233	1,606
Daily	Reference Energy Use (kWh)	Actual Event Day Energy Use (kWh)	Change in Energy Use (kWh)	Cooling Degree Hours (Base 75 °F)	Uncertainty Adjusted Impact (kWh/ hour) - Percentiles				
	1,731,477	1,784,073	52,596	56.5	10th	30th	50th	70th	90th
					n/a	n/a	n/a	n/a	n/a

Table 7.8
Utility: San Diego Gas & Electric
DR Program: Peak Day Credit Program
Load Impacts for: July 24, 2006
Type of Results: Total for All Enrolled Customers

Hour Ending	Estimated Reference Load (kWh)	Actual Event Day Load (kWh)	Estimated Load Impact (kWh/hour)	Weighted Average Temperature (°F)	Uncertainty Adjusted Impact (kWh/ hr)- Percentiles				
					10th%ile	30th%ile	50th%ile	70th%ile	90th%ile
1	52,342	54,436	2,094	74.6	3,043	2,480	2,094	1,710	1,161
2	50,951	53,841	2,890	74.6	3,789	3,256	2,890	2,527	2,006
3	50,623	53,530	2,907	74.9	3,798	3,270	2,907	2,547	2,031
4	50,411	53,283	2,872	74.2	3,748	3,229	2,872	2,518	2,010
5	52,180	54,733	2,553	74.2	3,489	2,934	2,553	2,174	1,632
6	58,531	60,044	1,513	75.7	2,575	1,945	1,513	1,084	470
7	65,967	67,751	1,784	78.1	2,913	2,244	1,784	1,327	673
8	77,339	78,534	1,195	75.6	2,483	1,719	1,195	674	-73
9	89,897	88,345	-1,552	77.1	-116	-967	-1,552	-2,133	-2,965
10	94,375	91,288	-3,086	77.6	-1,664	-2,507	-3,086	-3,662	-4,487
11	97,316	93,342	-3,974	79.7	-2,507	-3,376	-3,974	-4,567	-5,417
12	98,007	92,577	-5,429	84.7	-3,931	-4,819	-5,429	-6,036	-6,904
13	98,083	94,719	-3,364	87.6	-1,838	-2,742	-3,364	-3,981	-4,866
14	97,012	96,116	-896	86.8	688	-251	-896	-1,536	-2,453
15	98,170	94,664	-3,507	82.7	-1,886	-2,847	-3,507	-4,162	-5,100
16	94,949	90,061	-4,887	82.1	-3,309	-4,245	-4,887	-5,526	-6,439
17	92,188	86,820	-5,368	84.1	-3,631	-4,661	-5,368	-6,069	-7,071
18	78,862	79,247	385	81.3	2,045	1,060	385	-285	-1,242
19	74,233	74,795	561	78.7	2,180	1,220	561	-91	-1,023
20	71,410	72,272	861	76.2	2,433	1,500	861	228	-677
21	69,975	70,318	343	75.4	1,798	935	343	-244	-1,083
22	65,486	67,119	1,633	75.2	2,988	2,184	1,633	1,086	305
23	63,541	63,710	170	74.4	1,414	676	170	-333	-1,051
24	60,295	60,648	353	74.7	1,475	810	353	-100	-748
Daily	Reference Energy Use (kWh)	Actual Event Day Energy Use (kWh)	Change in Energy Use (kWh)	Cooling Degree Hours (Base 75 °F)	Uncertainty Adjusted Impact (kWh/ hour) - Percentiles				
	1,802,144	1,792,194	-9,950	83.4	10th	30th	50th	70th	90th
					n/a	n/a	n/a	n/a	n/a

Table 7.9
Utility: San Diego Gas & Electric
DR Program: Peak Day Credit Program
Load Impacts for: July 25, 2006
Type of Results: Total for All Enrolled Customers

Hour Ending	Estimated Reference Load (kWh)	Actual Event Day Load (kWh)	Estimated Load Impact (kWh/hour)	Weighted Average Temperature (°F)	Uncertainty Adjusted Impact (kWh/ hr)- Percentiles				
					10th%ile	30th%ile	50th%ile	70th%ile	90th%ile
1	56,842	57,682	840	73.4	1,850	1,251	840	432	-153
2	54,941	55,601	661	73.4	1,592	1,040	661	284	-255
3	54,124	54,560	436	72.7	1,348	807	436	67	-461
4	53,734	54,796	1,062	73.7	1,966	1,430	1,062	696	172
5	54,672	55,783	1,110	73.4	2,076	1,504	1,110	720	160
6	59,676	60,582	906	73.4	1,985	1,345	906	469	-155
7	66,180	68,389	2,209	74.3	3,355	2,676	2,209	1,746	1,083
8	75,557	76,660	1,103	75.4	2,367	1,618	1,103	591	-141
9	85,783	86,688	905	74.9	2,303	1,474	905	339	-472
10	89,184	88,914	-270	73.3	1,104	289	-270	-827	-1,623
11	93,896	90,525	-3,371	74.3	-1,967	-2,799	-3,371	-3,939	-4,753
12	93,708	89,305	-4,403	75.8	-2,979	-3,823	-4,403	-4,980	-5,805
13	95,260	89,522	-5,738	76.1	-4,317	-5,160	-5,738	-6,313	-7,137
14	97,124	90,158	-6,966	76.1	-5,507	-6,372	-6,966	-7,556	-8,402
15	95,912	88,709	-7,203	76.1	-5,715	-6,597	-7,203	-7,804	-8,666
16	92,270	84,835	-7,434	77.1	-5,967	-6,837	-7,434	-8,027	-8,876
17	87,581	82,128	-5,453	75.6	-3,840	-4,796	-5,453	-6,104	-7,035
18	80,237	75,373	-4,864	74.3	-3,312	-4,233	-4,864	-5,489	-6,384
19	75,901	70,479	-5,422	73.4	-3,920	-4,811	-5,422	-6,028	-6,893
20	73,746	68,024	-5,722	73.4	-4,273	-5,133	-5,722	-6,307	-7,141
21	70,102	66,515	-3,587	73.2	-2,243	-3,040	-3,587	-4,130	-4,905
22	66,760	63,329	-3,430	73.2	-2,173	-2,919	-3,430	-3,937	-4,663
23	64,234	60,895	-3,339	71.6	-2,175	-2,865	-3,339	-3,809	-4,482
24	60,525	57,759	-2,767	73.4	-1,722	-2,341	-2,767	-3,189	-3,794
Daily	Reference Energy Use (kWh)	Actual Event Day Energy Use (kWh)	Change in Energy Use (kWh)	Cooling Degree Hours (Base 75 °F)	Uncertainty Adjusted Impact (kWh/ hour) - Percentiles				
	1,797,950	1,737,211	-60,739	7.2	10th	30th	50th	70th	90th
					n/a	n/a	n/a	n/a	n/a

Table 7.10
Utility: San Diego Gas & Electric
DR Program: Peak Day Credit Program
Load Impacts for: September 6, 2006
Type of Results: Total for All Enrolled Customers

Hour Ending	Estimated Reference Load (kWh)	Actual Event Day Load (kWh)	Estimated Load Impact (kWh/hour)	Weighted Average Temperature (°F)	Uncertainty Adjusted Impact (kWh/ hr) - Percentiles				
					10th%ile	30th%ile	50th%ile	70th%ile	90th%ile
1	52,853	55,365	2,512	68.7	3,516	2,920	2,512	2,106	1,525
2	51,552	53,726	2,174	70.0	3,120	2,559	2,174	1,792	1,245
3	50,355	52,145	1,790	70.4	2,704	2,162	1,790	1,420	891
4	50,498	52,204	1,706	69.6	2,613	2,075	1,706	1,339	814
5	51,223	53,285	2,062	69.2	3,031	2,456	2,062	1,670	1,110
6	56,011	58,964	2,953	69.4	4,047	3,398	2,953	2,511	1,879
7	63,857	68,171	4,314	72.8	5,486	4,791	4,314	3,840	3,161
8	74,236	81,974	7,738	76.1	9,127	8,303	7,738	7,176	6,372
9	84,097	95,506	11,409	80.5	12,972	12,045	11,409	10,777	9,872
10	88,594	99,817	11,224	81.2	12,788	11,861	11,224	10,590	9,683
11	92,804	103,473	10,669	82.5	12,285	11,327	10,669	10,015	9,077
12	97,974	103,474	5,499	80.5	7,200	6,192	5,499	4,811	3,826
13	98,383	104,996	6,613	81.2	8,290	7,296	6,613	5,934	4,962
14	98,225	103,694	5,469	81.0	7,160	6,158	5,469	4,785	3,806
15	96,753	102,506	5,753	79.2	7,483	6,457	5,753	5,054	4,052
16	93,496	98,140	4,644	76.4	6,310	5,323	4,644	3,971	3,006
17	89,823	92,874	3,051	74.6	4,850	3,783	3,051	2,324	1,285
18	79,063	81,218	2,155	71.3	3,813	2,829	2,155	1,486	530
19	74,112	75,087	975	69.7	2,564	1,621	975	334	-581
20	70,474	72,846	2,371	68.7	3,878	2,984	2,371	1,764	895
21	66,571	69,788	3,218	68.4	4,605	3,782	3,218	2,658	1,857
22	63,452	65,691	2,238	67.7	3,522	2,761	2,238	1,720	979
23	60,877	61,806	929	67.4	2,101	1,406	929	456	-221
24	57,107	57,643	536	68.7	1,585	963	536	113	-493
Daily	Reference Energy Use (kWh)	Actual Event Day Energy Use (kWh)	Change in Energy Use (kWh)	Cooling Degree Hours (Base 75 °F)	Uncertainty Adjusted Impact (kWh/ hour) - Percentiles				
	1,762,390	1,864,391	102,002	43.8	10th	30th	50th	70th	90th
					n/a	n/a	n/a	n/a	n/a

Table 7.11
Utility: San Diego Gas & Electric
DR Program: Peak Day Credit Program
Load Impacts for: June 29, 2006
Type of Results: Average per Enrolled Customer

Hour Ending	Estimated Reference Load (kWh)	Actual Event Day Load (kWh)	Estimated Load Impact (kWh/hour)	Weighted Average Temperature (°F)	Uncertainty Adjusted Impact (kWh/ hr)- Percentiles				
					10th%ile	30th%ile	50th%ile	70th%ile	90th%ile
1	91.3	92.3	1.0	68.3	2.7	1.7	1.0	0.3	-0.7
2	88.1	89.4	1.3	67.9	2.9	2.0	1.3	0.7	-0.3
3	86.1	87.4	1.3	68.6	2.9	1.9	1.3	0.6	-0.3
4	86.0	86.9	0.9	67.6	2.4	1.5	0.9	0.2	-0.7
5	89.5	89.6	0.1	67.3	1.8	0.8	0.1	-0.6	-1.6
6	97.3	95.7	-1.7	69.2	0.2	-0.9	-1.7	-2.4	-3.5
7	107.1	104.8	-2.3	72.3	-0.3	-1.5	-2.3	-3.0	-4.1
8	120.0	118.4	-1.6	75.8	0.6	-0.7	-1.6	-2.5	-3.7
9	131.0	130.5	-0.5	78.5	1.8	0.4	-0.5	-1.5	-2.8
10	141.8	138.8	-3.1	79.8	-0.7	-2.1	-3.1	-4.0	-5.4
11	142.7	142.3	-0.4	78.5	2.0	0.6	-0.4	-1.4	-2.8
12	143.6	141.4	-2.3	80.5	0.2	-1.2	-2.3	-3.3	-4.7
13	143.9	140.4	-3.5	80.9	-1.1	-2.5	-3.5	-4.5	-5.9
14	146.2	139.7	-6.4	80.2	-3.9	-5.4	-6.4	-7.4	-8.9
15	145.5	137.9	-7.6	81.4	-5.0	-6.5	-7.6	-8.6	-10.1
16	141.4	135.2	-6.3	81.2	-3.7	-5.2	-6.3	-7.3	-8.8
17	136.7	131.5	-5.1	77.4	-2.3	-4.0	-5.1	-6.2	-7.9
18	127.4	125.8	-1.6	73.8	1.2	-0.5	-1.6	-2.8	-4.4
19	117.6	118.0	0.5	71.7	3.2	1.6	0.5	-0.6	-2.2
20	112.5	113.4	1.0	70.4	3.6	2.0	1.0	-0.1	-1.6
21	110.7	110.5	-0.2	69.6	2.2	0.8	-0.2	-1.2	-2.6
22	105.1	105.1	-0.1	69.6	2.2	0.9	-0.1	-1.0	-2.3
23	100.7	100.9	0.1	68.6	2.3	1.0	0.1	-0.7	-1.9
24	97.2	96.9	-0.3	68.6	1.6	0.5	-0.3	-1.0	-2.1
Daily	Reference Energy Use (kWh)	Actual Event Day Energy Use (kWh)	Change in Energy Use (kWh)	Cooling Degree Hours (Base 75 °F)	Uncertainty Adjusted Impact (kWh/ hour) - Percentiles				
	2,809.3	2,772.6	-36.8	44.2	10th	30th	50th	70th	90th
					n/a	n/a	n/a	n/a	n/a

Table 7.12
Utility: San Diego Gas & Electric
DR Program: Peak Day Credit Program
Load Impacts for: June 30, 2006
Type of Results: Average per Enrolled Customer

Hour Ending	Estimated Reference Load (kWh)	Actual Event Day Load (kWh)	Estimated Load Impact (kWh/hour)	Weighted Average Temperature (°F)	Uncertainty Adjusted Impact (kWh/ hr)- Percentiles				
					10th%ile	30th%ile	50th%ile	70th%ile	90th%ile
1	92.2	91.4	-0.8	68.2	0.9	-0.1	-0.8	-1.5	-2.5
2	88.5	87.9	-0.6	67.9	0.9	0.0	-0.6	-1.3	-2.2
3	86.1	85.7	-0.5	67.6	1.1	0.2	-0.5	-1.1	-2.0
4	85.9	84.9	-1.0	67.1	0.5	-0.4	-1.0	-1.6	-2.5
5	87.3	86.1	-1.2	67.3	0.4	-0.5	-1.2	-1.8	-2.7
6	94.9	93.9	-1.0	68.4	0.9	-0.2	-1.0	-1.7	-2.7
7	105.2	102.2	-3.0	71.3	-1.2	-2.3	-3.0	-3.8	-4.9
8	119.2	114.3	-4.8	73.8	-2.8	-4.0	-4.8	-5.7	-6.9
9	131.6	125.2	-6.4	77.2	-4.2	-5.5	-6.4	-7.3	-8.6
10	136.7	132.1	-4.5	79.5	-2.3	-3.6	-4.5	-5.4	-6.7
11	141.1	137.4	-3.8	81.2	-1.4	-2.8	-3.8	-4.7	-6.0
12	141.5	136.4	-5.1	81.5	-2.7	-4.1	-5.1	-6.1	-7.4
13	142.9	136.6	-6.3	80.2	-3.9	-5.3	-6.3	-7.2	-8.6
14	142.8	135.3	-7.5	81.1	-5.1	-6.5	-7.5	-8.4	-9.8
15	141.7	133.0	-8.7	80.1	-6.2	-7.7	-8.7	-9.7	-11.1
16	137.7	129.5	-8.1	80.1	-5.7	-7.1	-8.1	-9.1	-10.5
17	132.2	125.6	-6.6	78.6	-3.9	-5.5	-6.6	-7.7	-9.2
18	125.8	119.8	-6.0	78.0	-3.3	-4.9	-6.0	-7.1	-8.6
19	116.5	112.8	-3.7	76.0	-1.1	-2.6	-3.7	-4.7	-6.2
20	111.2	108.9	-2.3	72.0	0.2	-1.3	-2.3	-3.3	-4.8
21	110.6	106.7	-3.8	71.2	-1.5	-2.9	-3.8	-4.8	-6.2
22	105.9	102.8	-3.1	69.9	-0.9	-2.2	-3.1	-4.0	-5.2
23	102.6	99.1	-3.5	69.6	-1.4	-2.7	-3.5	-4.3	-5.5
24	97.9	94.9	-3.0	68.9	-1.1	-2.2	-3.0	-3.8	-4.8
Daily	Reference Energy Use (kWh)	Actual Event Day Energy Use (kWh)	Change in Energy Use (kWh)	Cooling Degree Hours (Base 75 °F)	Uncertainty Adjusted Impact (kWh/ hour) - Percentiles				
	2,777.7	2,682.4	-95.3	48.5	10th	30th	50th	70th	90th
					n/a	n/a	n/a	n/a	n/a

Table 7.13
Utility: San Diego Gas & Electric
DR Program: Peak Day Credit Program
Load Impacts for: July 12, 2006
Type of Results: Average per Enrolled Customer

Hour Ending	Estimated Reference Load (kWh)	Actual Event Day Load (kWh)	Estimated Load Impact (kWh/hour)	Weighted Average Temperature (°F)	Uncertainty Adjusted Impact (kWh/ hr)- Percentiles				
					10th%ile	30th%ile	50th%ile	70th%ile	90th%ile
1	89.2	87.5	-1.7	68.6	-0.1	-1.1	-1.7	-2.3	-3.2
2	85.3	84.6	-0.7	68.3	0.8	-0.1	-0.7	-1.2	-2.1
3	84.2	82.9	-1.4	67.1	0.0	-0.8	-1.4	-1.9	-2.8
4	84.0	82.1	-1.9	67.9	-0.5	-1.3	-1.9	-2.4	-3.3
5	85.8	83.5	-2.2	67.9	-0.7	-1.6	-2.2	-2.8	-3.7
6	93.5	90.3	-3.2	68.3	-1.5	-2.5	-3.2	-3.9	-4.8
7	107.3	101.4	-5.9	69.3	-4.2	-5.2	-5.9	-6.6	-7.6
8	121.6	118.7	-2.9	73.0	-0.9	-2.1	-2.9	-3.7	-4.9
9	131.9	132.4	0.6	77.1	2.8	1.5	0.6	-0.3	-1.6
10	138.7	141.2	2.5	79.9	4.8	3.5	2.5	1.6	0.3
11	145.4	148.5	3.1	81.2	5.5	4.1	3.1	2.1	0.8
12	151.2	149.8	-1.4	82.7	1.1	-0.4	-1.4	-2.3	-3.8
13	146.5	149.1	2.6	82.2	5.0	3.6	2.6	1.6	0.2
14	144.7	149.1	4.4	81.9	6.9	5.4	4.4	3.4	2.0
15	144.2	146.8	2.6	82.7	5.1	3.6	2.6	1.5	0.1
16	141.0	144.1	3.0	80.7	5.6	4.1	3.0	2.0	0.5
17	135.4	139.0	3.6	79.6	6.4	4.7	3.6	2.4	0.8
18	122.5	124.6	2.1	79.3	4.8	3.2	2.1	1.1	-0.4
19	112.8	115.4	2.5	77.4	5.0	3.6	2.5	1.5	0.1
20	108.8	110.2	1.5	74.7	3.8	2.4	1.5	0.5	-0.9
21	107.9	107.2	-0.8	72.6	1.4	0.1	-0.8	-1.7	-2.9
22	102.9	103.7	0.8	72.3	2.9	1.7	0.8	0.0	-1.2
23	97.3	99.9	2.6	72.3	4.5	3.4	2.6	1.8	0.7
24	91.9	95.0	3.2	69.3	4.9	3.9	3.2	2.4	1.4
Daily	Reference Energy Use (kWh)	Actual Event Day Energy Use (kWh)	Change in Energy Use (kWh)	Cooling Degree Hours (Base 75 °F)	Uncertainty Adjusted Impact (kWh/ hour) - Percentiles				
	2,774.2	2,787.3	13.1	59.7	10th	30th	50th	70th	90th
					n/a	n/a	n/a	n/a	n/a

Table 7.14
Utility: San Diego Gas & Electric
DR Program: Peak Day Credit Program
Load Impacts for: July 13, 2006
Type of Results: Average per Enrolled Customer

Hour Ending	Estimated Reference Load (kWh)	Actual Event Day Load (kWh)	Estimated Load Impact (kWh/hour)	Weighted Average Temperature (°F)	Uncertainty Adjusted Impact (kWh/ hr)- Percentiles				
					10th%ile	30th%ile	50th%ile	70th%ile	90th%ile
1	88.8	90.0	1.2	70.8	2.8	1.9	1.2	0.6	-0.4
2	85.6	86.1	0.5	70.3	2.0	1.1	0.5	-0.1	-0.9
3	83.8	84.2	0.4	69.8	1.9	1.0	0.4	-0.1	-1.0
4	83.7	84.3	0.5	70.1	2.0	1.1	0.5	0.0	-0.8
5	86.1	85.4	-0.7	68.5	0.8	-0.1	-0.7	-1.3	-2.2
6	93.9	92.0	-1.9	71.4	-0.2	-1.2	-1.9	-2.6	-3.5
7	104.9	103.1	-1.7	74.0	0.0	-1.0	-1.7	-2.4	-3.4
8	121.1	122.0	0.8	76.6	2.9	1.7	0.8	0.0	-1.2
9	131.6	135.8	4.2	79.7	6.5	5.1	4.2	3.3	2.0
10	139.0	144.8	5.8	81.7	8.1	6.8	5.8	4.9	3.6
11	143.2	149.5	6.3	82.8	8.6	7.2	6.3	5.3	4.0
12	144.0	150.3	6.3	83.4	8.7	7.3	6.3	5.3	3.9
13	144.6	150.0	5.4	83.2	7.8	6.3	5.4	4.4	3.0
14	145.9	150.2	4.4	83.4	6.8	5.4	4.4	3.4	2.0
15	144.1	149.6	5.5	83.7	8.0	6.5	5.5	4.5	3.0
16	140.2	145.8	5.6	81.7	8.1	6.6	5.6	4.6	3.1
17	134.5	139.9	5.4	79.8	8.2	6.6	5.4	4.3	2.7
18	120.9	126.7	5.8	78.3	8.4	6.9	5.8	4.7	3.2
19	113.0	118.5	5.5	76.0	8.0	6.5	5.5	4.4	3.0
20	108.7	112.3	3.7	73.7	6.0	4.6	3.7	2.7	1.3
21	106.8	109.6	2.9	72.9	5.1	3.8	2.9	2.0	0.7
22	103.0	105.8	2.7	72.3	4.8	3.6	2.7	1.9	0.7
23	99.7	100.8	1.1	71.6	3.0	1.9	1.1	0.3	-0.8
24	94.2	95.8	1.6	70.8	3.3	2.3	1.6	0.9	-0.1
Daily	Reference Energy Use (kWh)	Actual Event Day Energy Use (kWh)	Change in Energy Use (kWh)	Cooling Degree Hours (Base 75 °F)	Uncertainty Adjusted Impact (kWh/ hour) - Percentiles				
	2,761.5	2,832.8	71.3	70.2	10th	30th	50th	70th	90th
					n/a	n/a	n/a	n/a	n/a

Table 7.15
Utility: San Diego Gas & Electric
DR Program: Peak Day Credit Program
Load Impacts for: July 14, 2006
Type of Results: Average per Enrolled Customer

Hour Ending	Estimated Reference Load (kWh)	Actual Event Day Load (kWh)	Estimated Load Impact (kWh/hour)	Weighted Average Temperature (°F)	Uncertainty Adjusted Impact (kWh/ hr)- Percentiles				
					10th%ile	30th%ile	50th%ile	70th%ile	90th%ile
1	90.0	89.8	-0.2	71.2	1.4	0.5	-0.2	-0.8	-1.8
2	86.6	85.9	-0.7	70.9	0.8	-0.1	-0.7	-1.3	-2.2
3	84.6	84.3	-0.3	69.9	1.1	0.3	-0.3	-0.9	-1.7
4	85.1	84.8	-0.4	69.9	1.0	0.2	-0.4	-1.0	-1.8
5	86.3	86.2	-0.1	68.9	1.4	0.5	-0.1	-0.7	-1.6
6	93.2	91.8	-1.4	69.9	0.3	-0.7	-1.4	-2.0	-3.0
7	105.8	103.9	-1.9	72.0	-0.1	-1.2	-1.9	-2.6	-3.7
8	122.3	123.7	1.4	76.3	3.5	2.2	1.4	0.5	-0.7
9	134.1	136.3	2.2	79.6	4.4	3.1	2.2	1.3	0.0
10	141.8	143.4	1.6	82.2	3.9	2.5	1.6	0.7	-0.6
11	148.3	148.9	0.6	82.2	2.9	1.5	0.6	-0.4	-1.7
12	150.5	149.3	-1.2	83.2	1.2	-0.2	-1.2	-2.2	-3.6
13	147.4	148.1	0.8	82.1	3.1	1.7	0.8	-0.2	-1.6
14	147.8	148.3	0.5	82.4	2.9	1.5	0.5	-0.5	-1.9
15	145.1	146.1	1.0	81.4	3.5	2.0	1.0	0.0	-1.5
16	141.8	140.4	-1.4	80.8	1.1	-0.4	-1.4	-2.4	-3.8
17	135.2	131.2	-4.0	80.8	-1.4	-2.9	-4.0	-5.1	-6.6
18	126.2	122.8	-3.5	78.6	-0.9	-2.4	-3.5	-4.5	-6.0
19	116.4	115.1	-1.3	76.6	1.2	-0.2	-1.3	-2.3	-3.7
20	111.6	110.5	-1.2	75.4	1.2	-0.2	-1.2	-2.1	-3.5
21	109.9	107.7	-2.2	73.9	0.1	-1.3	-2.2	-3.1	-4.4
22	103.8	104.6	0.8	72.6	2.9	1.7	0.8	-0.1	-1.3
23	100.9	101.1	0.2	71.9	2.2	1.0	0.2	-0.6	-1.7
24	94.8	95.0	0.2	71.1	2.0	0.9	0.2	-0.5	-1.5
Daily	Reference Energy Use (kWh)	Actual Event Day Energy Use (kWh)	Change in Energy Use (kWh)	Cooling Degree Hours (Base 75 °F)	Uncertainty Adjusted Impact (kWh/ hour) - Percentiles				
	2,809.8	2,799.3	-10.5	66.6	10th	30th	50th	70th	90th
					n/a	n/a	n/a	n/a	n/a

Table 7.16
Utility: San Diego Gas & Electric
DR Program: Peak Day Credit Program
Load Impacts for: July 18, 2006
Type of Results: Average per Enrolled Customer

Hour Ending	Estimated Reference Load (kWh)	Actual Event Day Load (kWh)	Estimated Load Impact (kWh/hour)	Weighted Average Temperature (°F)	Uncertainty Adjusted Impact (kWh/ hr) - Percentiles				
					10th%ile	30th%ile	50th%ile	70th%ile	90th%ile
1	89.8	90.5	0.7	71.9	2.3	1.4	0.7	0.1	-0.8
2	87.0	87.6	0.6	71.9	2.1	1.2	0.6	0.0	-0.9
3	85.8	85.8	0.0	71.9	1.4	0.6	0.0	-0.6	-1.4
4	85.6	85.9	0.3	71.9	1.7	0.9	0.3	-0.3	-1.1
5	88.2	87.7	-0.5	71.9	1.1	0.2	-0.5	-1.1	-2.0
6	95.9	96.2	0.4	72.2	2.1	1.1	0.4	-0.3	-1.3
7	109.4	107.5	-1.9	73.4	-0.1	-1.2	-1.9	-2.6	-3.7
8	124.5	127.3	2.8	75.3	4.9	3.7	2.8	2.0	0.7
9	136.6	140.5	4.0	76.8	6.3	4.9	4.0	3.0	1.7
10	140.8	148.3	7.5	77.1	9.8	8.5	7.5	6.6	5.2
11	145.7	152.8	7.1	78.8	9.5	8.1	7.1	6.1	4.7
12	149.2	151.6	2.4	79.4	4.8	3.4	2.4	1.4	0.0
13	148.5	152.3	3.8	78.4	6.3	4.8	3.8	2.9	1.4
14	149.8	151.5	1.7	78.4	4.2	2.7	1.7	0.7	-0.7
15	146.9	147.8	0.9	78.3	3.4	1.9	0.9	-0.2	-1.6
16	143.5	143.6	0.2	77.6	2.7	1.2	0.2	-0.9	-2.3
17	138.5	137.9	-0.5	77.0	2.2	0.6	-0.5	-1.6	-3.2
18	124.6	124.2	-0.4	74.7	2.2	0.7	-0.4	-1.4	-2.9
19	115.2	116.6	1.5	73.4	4.0	2.5	1.5	0.5	-1.0
20	111.9	111.8	-0.1	72.4	2.3	0.9	-0.1	-1.0	-2.4
21	108.2	109.8	1.6	72.2	3.8	2.5	1.6	0.7	-0.6
22	102.6	105.0	2.3	72.2	4.4	3.2	2.3	1.5	0.3
23	96.5	98.8	2.3	71.9	4.2	3.1	2.3	1.5	0.4
24	92.4	93.5	1.1	71.9	2.8	1.8	1.1	0.4	-0.6
Daily	Reference Energy Use (kWh)	Actual Event Day Energy Use (kWh)	Change in Energy Use (kWh)	Cooling Degree Hours (Base 75 °F)	Uncertainty Adjusted Impact (kWh/ hour) - Percentiles				
	2,817.2	2,854.9	37.7	27.1	10th	30th	50th	70th	90th
					n/a	n/a	n/a	n/a	n/a

Table 7.17
Utility: San Diego Gas & Electric
DR Program: Peak Day Credit Program
Load Impacts for: July 21, 2006
Type of Results: Average per Enrolled Customer

Hour Ending	Estimated Reference Load (kWh)	Actual Event Day Load (kWh)	Estimated Load Impact (kWh/hour)	Weighted Average Temperature (°F)	Uncertainty Adjusted Impact (kWh/ hr) - Percentiles				
					10th%ile	30th%ile	50th%ile	70th%ile	90th%ile
1	88.4	90.2	1.8	72.9	3.4	2.4	1.8	1.2	0.2
2	85.6	87.0	1.4	72.9	2.9	2.0	1.4	0.8	0.0
3	83.3	84.7	1.4	72.2	2.8	2.0	1.4	0.9	0.0
4	83.8	85.5	1.7	72.6	3.1	2.3	1.7	1.1	0.3
5	87.4	89.4	2.0	71.9	3.5	2.6	2.0	1.4	0.5
6	95.8	98.2	2.5	72.9	4.2	3.2	2.5	1.8	0.7
7	107.3	109.2	1.9	74.9	3.7	2.6	1.9	1.2	0.1
8	123.0	128.2	5.2	77.4	7.3	6.1	5.2	4.4	3.2
9	132.6	141.4	8.8	78.3	11.0	9.7	8.8	7.9	6.5
10	141.9	149.5	7.6	79.8	9.9	8.5	7.6	6.6	5.3
11	151.9	155.7	3.7	79.8	6.1	4.7	3.7	2.7	1.4
12	151.8	154.6	2.8	80.6	5.2	3.8	2.8	1.8	0.3
13	151.2	153.4	2.2	81.1	4.6	3.2	2.2	1.2	-0.2
14	151.0	153.0	2.0	82.1	4.4	3.0	2.0	1.0	-0.4
15	147.3	152.9	5.6	81.1	8.1	6.6	5.6	4.5	3.1
16	141.8	146.9	5.1	81.1	7.6	6.1	5.1	4.1	2.6
17	136.0	141.2	5.2	80.1	8.0	6.3	5.2	4.1	2.5
18	130.5	126.3	-4.2	77.8	-1.6	-3.1	-4.2	-5.2	-6.7
19	112.8	118.3	5.5	76.3	8.0	6.5	5.5	4.5	3.0
20	108.6	113.3	4.7	75.4	7.1	5.7	4.7	3.7	2.3
21	106.8	111.6	4.8	75.4	7.1	5.7	4.8	3.9	2.6
22	102.9	108.0	5.1	74.7	7.2	5.9	5.1	4.2	3.0
23	99.4	103.9	4.6	74.2	6.5	5.4	4.6	3.8	2.7
24	94.3	98.6	4.3	72.9	6.1	5.1	4.3	3.6	2.6
Daily	Reference Energy Use (kWh)	Actual Event Day Energy Use (kWh)	Change in Energy Use (kWh)	Cooling Degree Hours (Base 75 °F)	Uncertainty Adjusted Impact (kWh/ hour) - Percentiles				
	2,815.4	2,900.9	85.5	56.5	10th	30th	50th	70th	90th
					n/a	n/a	n/a	n/a	n/a

Table 7.18
Utility: San Diego Gas & Electric
DR Program: Peak Day Credit Program
Load Impacts for: July 24, 2006
Type of Results: Average per Enrolled Customer

Hour Ending	Estimated Reference Load (kWh)	Actual Event Day Load (kWh)	Estimated Load Impact (kWh/hour)	Weighted Average Temperature (°F)	Uncertainty Adjusted Impact (kWh/ hr) - Percentiles				
					10th%ile	30th%ile	50th%ile	70th%ile	90th%ile
1	84.8	88.2	3.4	74.6	4.9	4.0	3.4	2.8	1.9
2	82.6	87.3	4.7	74.6	6.1	5.3	4.7	4.1	3.3
3	82.0	86.8	4.7	74.9	6.2	5.3	4.7	4.1	3.3
4	81.7	86.4	4.7	74.2	6.1	5.2	4.7	4.1	3.3
5	84.6	88.7	4.1	74.2	5.7	4.8	4.1	3.5	2.6
6	94.9	97.3	2.5	75.7	4.2	3.2	2.5	1.8	0.8
7	106.9	109.8	2.9	78.1	4.7	3.6	2.9	2.2	1.1
8	125.3	127.3	1.9	75.6	4.0	2.8	1.9	1.1	-0.1
9	145.7	143.2	-2.5	77.1	-0.2	-1.6	-2.5	-3.5	-4.8
10	153.0	148.0	-5.0	77.6	-2.7	-4.1	-5.0	-5.9	-7.3
11	157.7	151.3	-6.4	79.7	-4.1	-5.5	-6.4	-7.4	-8.8
12	158.8	150.0	-8.8	84.7	-6.4	-7.8	-8.8	-9.8	-11.2
13	159.0	153.5	-5.5	87.6	-3.0	-4.4	-5.5	-6.5	-7.9
14	157.2	155.8	-1.5	86.8	1.1	-0.4	-1.5	-2.5	-4.0
15	159.1	153.4	-5.7	82.7	-3.1	-4.6	-5.7	-6.7	-8.3
16	153.9	146.0	-7.9	82.1	-5.4	-6.9	-7.9	-9.0	-10.4
17	149.4	140.7	-8.7	84.1	-5.9	-7.6	-8.7	-9.8	-11.5
18	127.8	128.4	0.6	81.3	3.3	1.7	0.6	-0.5	-2.0
19	120.3	121.2	0.9	78.7	3.5	2.0	0.9	-0.1	-1.7
20	115.7	117.1	1.4	76.2	3.9	2.4	1.4	0.4	-1.1
21	113.4	114.0	0.6	75.4	2.9	1.5	0.6	-0.4	-1.8
22	106.1	108.8	2.6	75.2	4.8	3.5	2.6	1.8	0.5
23	103.0	103.3	0.3	74.4	2.3	1.1	0.3	-0.5	-1.7
24	97.7	98.3	0.6	74.7	2.4	1.3	0.6	-0.2	-1.2
Daily	Reference Energy Use (kWh)	Actual Event Day Energy Use (kWh)	Change in Energy Use (kWh)	Cooling Degree Hours (Base 75 °F)	Uncertainty Adjusted Impact (kWh/ hour) - Percentiles				
	2,920.8	2,904.7	-16.1	83.4	10th	30th	50th	70th	90th
					n/a	n/a	n/a	n/a	n/a

Table 7.19
Utility: San Diego Gas & Electric
DR Program: Peak Day Credit Program
Load Impacts for: July 25, 2006
Type of Results: Average per Enrolled Customer

Hour Ending	Estimated Reference Load (kWh)	Actual Event Day Load (kWh)	Estimated Load Impact (kWh/hour)	Weighted Average Temperature (°F)	Uncertainty Adjusted Impact (kWh/ hr) - Percentiles				
					10th%ile	30th%ile	50th%ile	70th%ile	90th%ile
1	91.8	93.2	1.4	73.4	3.0	2.0	1.4	0.7	-0.2
2	88.8	89.8	1.1	73.4	2.6	1.7	1.1	0.5	-0.4
3	87.4	88.1	0.7	72.7	2.2	1.3	0.7	0.1	-0.7
4	86.8	88.5	1.7	73.7	3.2	2.3	1.7	1.1	0.3
5	88.3	90.1	1.8	73.4	3.4	2.4	1.8	1.2	0.3
6	96.4	97.9	1.5	73.4	3.2	2.2	1.5	0.8	-0.3
7	106.9	110.5	3.6	74.3	5.4	4.3	3.6	2.8	1.7
8	122.1	123.8	1.8	75.4	3.8	2.6	1.8	1.0	-0.2
9	138.6	140.0	1.5	74.9	3.7	2.4	1.5	0.5	-0.8
10	144.1	143.6	-0.4	73.3	1.8	0.5	-0.4	-1.3	-2.6
11	151.7	146.2	-5.4	74.3	-3.2	-4.5	-5.4	-6.4	-7.7
12	151.4	144.3	-7.1	75.8	-4.8	-6.2	-7.1	-8.0	-9.4
13	153.9	144.6	-9.3	76.1	-7.0	-8.3	-9.3	-10.2	-11.5
14	156.9	145.7	-11.3	76.1	-8.9	-10.3	-11.3	-12.2	-13.6
15	154.9	143.3	-11.6	76.1	-9.2	-10.7	-11.6	-12.6	-14.0
16	149.1	137.1	-12.0	77.1	-9.6	-11.0	-12.0	-13.0	-14.3
17	141.5	132.7	-8.8	75.6	-6.2	-7.7	-8.8	-9.9	-11.4
18	129.6	121.8	-7.9	74.3	-5.4	-6.8	-7.9	-8.9	-10.3
19	122.6	113.9	-8.8	73.4	-6.3	-7.8	-8.8	-9.7	-11.1
20	119.1	109.9	-9.2	73.4	-6.9	-8.3	-9.2	-10.2	-11.5
21	113.3	107.5	-5.8	73.2	-3.6	-4.9	-5.8	-6.7	-7.9
22	107.9	102.3	-5.5	73.2	-3.5	-4.7	-5.5	-6.4	-7.5
23	103.8	98.4	-5.4	71.6	-3.5	-4.6	-5.4	-6.2	-7.2
24	97.8	93.3	-4.5	73.4	-2.8	-3.8	-4.5	-5.2	-6.1
Daily	Reference Energy Use (kWh)	Actual Event Day Energy Use (kWh)	Change in Energy Use (kWh)	Cooling Degree Hours (Base 75 °F)	Uncertainty Adjusted Impact (kWh/ hour) - Percentiles				
	2,904.6	2,806.5	-98.1	7.2	10th	30th	50th	70th	90th
					n/a	n/a	n/a	n/a	n/a

Table 7.20
Utility: San Diego Gas & Electric
DR Program: Peak Day Credit Program
Load Impacts for: September 6, 2006
Type of Results: Average per Enrolled Customer

Hour Ending	Estimated Reference Load (kWh)	Actual Event Day Load (kWh)	Estimated Load Impact (kWh/hour)	Weighted Average Temperature (°F)	Uncertainty Adjusted Impact (kWh/ hr) - Percentiles				
					10th%ile	30th%ile	50th%ile	70th%ile	90th%ile
1	81.8	85.7	3.9	68.7	5.4	4.5	3.9	3.3	2.4
2	79.8	83.2	3.4	70.0	4.8	4.0	3.4	2.8	1.9
3	77.9	80.7	2.8	70.4	4.2	3.3	2.8	2.2	1.4
4	78.2	80.8	2.6	69.6	4.0	3.2	2.6	2.1	1.3
5	79.3	82.5	3.2	69.2	4.7	3.8	3.2	2.6	1.7
6	86.7	91.3	4.6	69.4	6.3	5.3	4.6	3.9	2.9
7	98.9	105.5	6.7	72.8	8.5	7.4	6.7	5.9	4.9
8	114.9	126.9	12.0	76.1	14.1	12.9	12.0	11.1	9.9
9	130.2	147.8	17.7	80.5	20.1	18.6	17.7	16.7	15.3
10	137.1	154.5	17.4	81.2	19.8	18.4	17.4	16.4	15.0
11	143.7	160.2	16.5	82.5	19.0	17.5	16.5	15.5	14.1
12	151.7	160.2	8.5	80.5	11.1	9.6	8.5	7.4	5.9
13	152.3	162.5	10.2	81.2	12.8	11.3	10.2	9.2	7.7
14	152.1	160.5	8.5	81.0	11.1	9.5	8.5	7.4	5.9
15	149.8	158.7	8.9	79.2	11.6	10.0	8.9	7.8	6.3
16	144.7	151.9	7.2	76.4	9.8	8.2	7.2	6.1	4.7
17	139.0	143.8	4.7	74.6	7.5	5.9	4.7	3.6	2.0
18	122.4	125.7	3.3	71.3	5.9	4.4	3.3	2.3	0.8
19	114.7	116.2	1.5	69.7	4.0	2.5	1.5	0.5	-0.9
20	109.1	112.8	3.7	68.7	6.0	4.6	3.7	2.7	1.4
21	103.1	108.0	5.0	68.4	7.1	5.9	5.0	4.1	2.9
22	98.2	101.7	3.5	67.7	5.5	4.3	3.5	2.7	1.5
23	94.2	95.7	1.4	67.4	3.3	2.2	1.4	0.7	-0.3
24	88.4	89.2	0.8	68.7	2.5	1.5	0.8	0.2	-0.8
Daily	Reference Energy Use (kWh)	Actual Event Day Energy Use (kWh)	Change in Energy Use (kWh)	Cooling Degree Hours (Base 75 °F)	Uncertainty Adjusted Impact (kWh/ hour) - Percentiles				
	2,728.2	2,886.1	157.9	43.8	10th	30th	50th	70th	90th
					n/a	n/a	n/a	n/a	n/a

8. Appendix Tables, 2007 Program-Level Load Impacts

Table 8.1
Utility: San Diego Gas & Electric
DR Program: Peak Day Credit Program
Load Impacts for: August 15, 2007
Type of Results: Total for All Enrolled Customers

Hour Ending	Estimated Reference Load (kWh)	Actual Event Day Load (kWh)	Estimated Load Impact (kWh/hour)	Weighted Average Temperature (°F)	Uncertainty Adjusted Impact (kWh/ hr)- Percentiles				
					10th%ile	30th%ile	50th%ile	70th%ile	90th%ile
1	64,934	65,128	193	70.8	1,324	653	193	-264	-918
2	62,982	63,304	323	70.8	1,434	775	323	-126	-769
3	61,716	62,447	731	70.2	1,812	1,171	731	295	-331
4	61,779	62,202	423	69.9	1,496	860	423	-10	-630
5	62,773	63,646	873	69.6	1,964	1,317	873	432	-199
6	68,566	69,546	980	69.4	2,215	1,482	980	481	-234
7	76,619	78,199	1,581	72.0	2,826	2,088	1,581	1,077	355
8	86,374	88,305	1,931	74.2	3,350	2,509	1,931	1,357	535
9	93,816	98,614	4,798	76.1	6,294	5,407	4,798	4,192	3,325
10	101,170	104,690	3,520	79.2	5,064	4,149	3,520	2,894	1,998
11	107,009	109,277	2,268	82.1	3,873	2,922	2,268	1,618	686
12	111,286	110,901	-385	81.8	1,258	285	-385	-1,050	-2,004
13	112,374	111,715	-659	81.3	972	5	-659	-1,320	-2,267
14	112,896	111,922	-974	80.7	680	-300	-974	-1,644	-2,603
15	112,059	110,563	-1,496	80.7	217	-798	-1,496	-2,189	-3,183
16	108,000	106,570	-1,430	78.4	317	-719	-1,430	-2,137	-3,149
17	102,898	101,091	-1,807	77.1	143	-1,014	-1,807	-2,594	-3,719
18	94,956	94,831	-125	74.5	1,761	642	-125	-886	-1,974
19	86,813	89,585	2,773	72.0	4,544	3,493	2,773	2,058	1,035
20	83,653	85,864	2,211	71.7	3,845	2,876	2,211	1,550	606
21	81,251	83,577	2,326	71.7	3,872	2,955	2,326	1,701	807
22	77,241	79,245	2,004	70.8	3,442	2,589	2,004	1,423	592
23	72,228	73,964	1,736	70.5	3,072	2,280	1,736	1,196	423
24	68,245	70,034	1,789	71.4	3,037	2,297	1,789	1,285	563
Daily	Reference Energy Use (kWh)	Actual Event Day Energy Use (kWh)	Change in Energy Use (kWh)	Cooling Degree Hours (Base 75 °F)	Uncertainty Adjusted Impact (kWh/ hour) - Percentiles				
	2,071,636	2,095,219	23,583	42.3	10th	30th	50th	70th	90th
					n/a	n/a	n/a	n/a	n/a

Table 8.2
Utility: San Diego Gas & Electric
DR Program: Peak Day Credit Program
Load Impacts for: August 16, 2007
Type of Results: Total for All Enrolled Customers

Hour Ending	Estimated Reference Load (kWh)	Actual Event Day Load (kWh)	Estimated Load Impact (kWh/hour)	Weighted Average Temperature (°F)	Uncertainty Adjusted Impact (kWh/ hr)- Percentiles				
					10th%ile	30th%ile	50th%ile	70th%ile	90th%ile
					1	64,573	66,438	1,865	70.5
2	62,807	64,592	1,785	70.5	2,937	2,254	1,785	1,320	654
3	61,457	63,189	1,731	69.9	2,837	2,181	1,731	1,284	644
4	61,038	62,903	1,864	70.5	2,958	2,310	1,864	1,422	789
5	61,854	64,380	2,526	70.5	3,637	2,979	2,526	2,077	1,434
6	67,991	70,534	2,544	70.2	3,793	3,052	2,544	2,039	1,316
7	76,168	78,291	2,123	72.0	3,369	2,630	2,123	1,619	897
8	86,379	88,182	1,802	75.6	3,211	2,376	1,802	1,233	416
9	95,504	97,994	2,489	78.4	3,955	3,086	2,489	1,896	1,045
10	103,220	103,598	378	80.9	1,898	997	378	-237	-1,120
11	108,661	107,379	-1,283	80.0	292	-641	-1,283	-1,920	-2,835
12	112,053	109,802	-2,251	79.0	-636	-1,593	-2,251	-2,904	-3,842
13	113,596	110,297	-3,299	80.0	-1,691	-2,644	-3,299	-3,950	-4,883
14	113,378	110,613	-2,764	79.8	-1,139	-2,102	-2,764	-3,422	-4,366
15	112,287	109,856	-2,432	79.4	-745	-1,745	-2,432	-3,115	-4,093
16	108,129	105,952	-2,177	80.1	-507	-1,496	-2,177	-2,853	-3,821
17	102,724	101,217	-1,507	79.4	334	-758	-1,507	-2,251	-3,315
18	95,675	94,805	-870	76.7	926	-139	-870	-1,595	-2,633
19	89,857	89,365	-492	73.6	1,246	215	-492	-1,193	-2,197
20	84,114	84,845	731	72.0	2,319	1,377	731	90	-827
21	82,573	82,661	88	71.4	1,612	708	88	-527	-1,408
22	78,056	78,772	715	71.4	2,121	1,288	715	147	-666
23	72,660	73,294	633	70.5	1,937	1,164	633	107	-648
24	68,321	69,163	841	70.8	2,052	1,334	841	352	-349
Daily	Reference Energy Use (kWh)	Actual Event Day Energy Use (kWh)	Change in Energy Use (kWh)	Cooling Degree Hours (Base 75 °F)	Uncertainty Adjusted Impact (kWh/ hour) - Percentiles				
					10th	30th	50th	70th	90th
	2,083,076	2,088,120	5,044	44.3	n/a	n/a	n/a	n/a	n/a

Table 8.3
Utility: San Diego Gas & Electric
DR Program: Peak Day Credit Program
Load Impacts for: August 17, 2007
Type of Results: Total for All Enrolled Customers

Hour Ending	Estimated Reference Load (kWh)	Actual Event Day Load (kWh)	Estimated Load Impact (kWh/hour)	Weighted Average Temperature (°F)	Uncertainty Adjusted Impact (kWh/ hr)- Percentiles				
					10th%ile	30th%ile	50th%ile	70th%ile	90th%ile
1	64,466	64,911	445	70.2	1,578	906	445	-13	-669
2	62,423	62,719	296	70.2	1,400	745	296	-151	-790
3	61,104	61,606	502	69.9	1,561	933	502	74	-539
4	60,844	61,304	460	69.6	1,497	882	460	41	-559
5	62,335	63,297	963	69.1	2,044	1,403	963	525	-101
6	68,072	68,120	48	69.7	1,209	521	48	-422	-1,094
7	76,744	76,677	-67	70.5	1,121	417	-67	-548	-1,237
8	85,804	86,620	815	73.1	2,156	1,362	815	273	-505
9	95,116	96,360	1,244	75.6	2,665	1,823	1,244	669	-156
10	101,041	103,282	2,241	78.1	3,727	2,846	2,241	1,638	775
11	106,084	108,217	2,133	78.5	3,713	2,776	2,133	1,493	575
12	108,300	110,102	1,802	79.4	3,428	2,465	1,802	1,144	200
13	109,997	110,796	799	77.9	2,406	1,454	799	149	-784
14	111,016	110,306	-710	78.2	896	-56	-710	-1,361	-2,294
15	109,647	109,174	-473	78.2	1,188	204	-473	-1,145	-2,109
16	105,733	105,496	-237	78.2	1,426	440	-237	-910	-1,874
17	98,027	99,789	1,762	76.7	3,593	2,507	1,762	1,023	-35
18	93,661	93,808	147	75.1	1,956	883	147	-584	-1,628
19	86,791	87,261	470	73.0	2,192	1,171	470	-225	-1,219
20	82,604	83,693	1,089	72.0	2,676	1,735	1,089	448	-468
21	81,228	81,636	408	71.4	1,927	1,026	408	-206	-1,084
22	77,542	78,047	505	71.4	1,920	1,081	505	-66	-884
23	72,644	73,490	846	70.5	2,137	1,372	846	324	-423
24	67,678	68,808	1,130	70.5	2,319	1,614	1,130	649	-39
Daily	Reference Energy Use (kWh)	Actual Event Day Energy Use (kWh)	Change in Energy Use (kWh)	Cooling Degree Hours (Base 75 °F)	Uncertainty Adjusted Impact (kWh/ hour) - Percentiles				
	2,048,899	2,065,517	16,618	25.9	10th	30th	50th	70th	90th
					n/a	n/a	n/a	n/a	n/a

Table 8.4
Utility: San Diego Gas & Electric
DR Program: Peak Day Credit Program
Load Impacts for: August 21, 2007
Type of Results: Total for All Enrolled Customers

Hour Ending	Estimated Reference Load (kWh)	Actual Event Day Load (kWh)	Estimated Load Impact (kWh/hour)	Weighted Average Temperature (°F)	Uncertainty Adjusted Impact (kWh/ hr)- Percentiles				
					10th%ile	30th%ile	50th%ile	70th%ile	90th%ile
					1	64,894	64,907	13	70.5
2	62,401	63,044	644	70.3	1,755	1,096	644	195	-448
3	61,393	61,781	388	69.6	1,452	821	388	-42	-658
4	61,013	61,519	506	69.1	1,552	932	506	83	-523
5	63,016	63,195	178	69.9	1,259	618	178	-258	-884
6	68,812	68,681	-131	70.5	1,071	359	-131	-617	-1,312
7	75,523	77,466	1,943	71.7	3,163	2,440	1,943	1,449	741
8	87,697	88,017	320	74.2	1,706	885	320	-240	-1,044
9	100,064	98,652	-1,412	77.6	47	-818	-1,412	-2,003	-2,850
10	107,391	106,040	-1,351	80.7	201	-719	-1,351	-1,980	-2,881
11	112,526	110,352	-2,174	83.2	-564	-1,518	-2,174	-2,826	-3,760
12	115,266	112,206	-3,060	83.5	-1,401	-2,384	-3,060	-3,731	-4,694
13	117,058	113,484	-3,574	84.8	-1,927	-2,903	-3,574	-4,242	-5,198
14	117,946	113,984	-3,962	82.6	-2,286	-3,279	-3,962	-4,641	-5,614
15	116,375	112,092	-4,282	82.0	-2,561	-3,581	-4,282	-4,980	-5,978
16	110,822	106,810	-4,013	79.8	-2,312	-3,320	-4,013	-4,700	-5,686
17	104,205	100,592	-3,614	77.1	-1,826	-2,886	-3,614	-4,336	-5,370
18	97,420	93,918	-3,503	74.5	-1,726	-2,780	-3,503	-4,220	-5,246
19	91,042	87,929	-3,113	72.0	-1,392	-2,413	-3,113	-3,808	-4,802
20	87,047	84,102	-2,944	71.1	-1,351	-2,296	-2,944	-3,588	-4,508
21	85,309	82,441	-2,868	71.1	-1,332	-2,243	-2,868	-3,488	-4,375
22	79,390	77,088	-2,302	70.5	-907	-1,734	-2,302	-2,865	-3,672
23	73,593	72,100	-1,493	69.6	-205	-969	-1,493	-2,014	-2,759
24	70,056	68,045	-2,010	71.6	-804	-1,519	-2,010	-2,498	-3,196
Daily	Reference Energy Use (kWh)	Actual Event Day Energy Use (kWh)	Change in Energy Use (kWh)	Cooling Degree Hours (Base 75 °F)	Uncertainty Adjusted Impact (kWh/ hour) - Percentiles				
	2,130,258	2,088,444	-41,813	56.2	n/a	n/a	n/a	n/a	n/a

Table 8.5
Utility: San Diego Gas & Electric
DR Program: Peak Day Credit Program
Load Impacts for: August 29, 2007
Type of Results: Total for All Enrolled Customers

Hour Ending	Estimated Reference Load (kWh)	Actual Event Day Load (kWh)	Estimated Load Impact (kWh/hour)	Weighted Average Temperature (°F)	Uncertainty Adjusted Impact (kWh/ hr)- Percentiles				
					10th%ile	30th%ile	50th%ile	70th%ile	90th%ile
					1	65,296	63,601	-1,695	70.5
2	63,119	61,671	-1,448	70.2	-343	-998	-1,448	-1,894	-2,533
3	61,844	60,598	-1,246	69.4	-167	-807	-1,246	-1,681	-2,305
4	61,305	60,162	-1,143	69.4	-98	-718	-1,143	-1,565	-2,170
5	63,174	62,127	-1,047	67.9	55	-599	-1,047	-1,493	-2,131
6	69,690	69,064	-626	70.2	618	-120	-626	-1,129	-1,848
7	76,489	77,648	1,160	73.0	2,379	1,656	1,160	666	-41
8	87,017	89,571	2,554	75.9	3,957	3,125	2,554	1,986	1,172
9	96,101	100,746	4,644	78.6	6,136	5,252	4,644	4,040	3,174
10	104,515	107,606	3,091	78.4	4,649	3,726	3,091	2,460	1,556
11	110,941	112,728	1,787	78.7	3,441	2,461	1,787	1,118	158
12	114,363	116,536	2,173	80.7	3,883	2,869	2,173	1,480	487
13	114,974	118,501	3,527	81.3	5,244	4,226	3,527	2,831	1,834
14	116,119	119,600	3,481	80.4	5,240	4,198	3,481	2,768	1,747
15	114,666	118,477	3,811	81.2	5,637	4,554	3,811	3,072	2,013
16	110,037	112,575	2,538	79.4	4,296	3,254	2,538	1,826	806
17	104,583	104,612	28	77.1	1,929	802	28	-740	-1,838
18	98,028	97,080	-948	74.8	923	-187	-948	-1,704	-2,785
19	89,845	90,063	218	73.9	2,000	943	218	-501	-1,529
20	85,775	87,000	1,225	73.3	2,869	1,894	1,225	561	-388
21	83,865	83,874	9	72.3	1,566	643	9	-619	-1,519
22	79,648	78,794	-854	72.0	571	-274	-854	-1,430	-2,253
23	73,835	73,110	-726	71.7	600	-186	-726	-1,261	-2,027
24	69,592	69,108	-484	71.1	746	17	-484	-981	-1,692
Daily	Reference Energy Use (kWh)	Actual Event Day Energy Use (kWh)	Change in Energy Use (kWh)	Cooling Degree Hours (Base 75 °F)	Uncertainty Adjusted Impact (kWh/ hour) - Percentiles				
	2,114,824	2,134,852	20,029	41.7	10th	30th	50th	70th	90th
					n/a	n/a	n/a	n/a	n/a

Table 8.6
Utility: San Diego Gas & Electric
DR Program: Peak Day Credit Program
Load Impacts for: August 30, 2007
Type of Results: Total for All Enrolled Customers

Hour Ending	Estimated Reference Load (kWh)	Actual Event Day Load (kWh)	Estimated Load Impact (kWh/hour)	Weighted Average Temperature (°F)	Uncertainty Adjusted Impact (kWh/ hr)- Percentiles				
					10th%ile	30th%ile	50th%ile	70th%ile	90th%ile
1	65,910	65,584	-326	70.5	833	146	-326	-795	-1,465
2	63,996	63,672	-325	70.5	807	136	-325	-782	-1,437
3	62,972	62,651	-321	70.2	783	128	-321	-768	-1,407
4	62,562	62,434	-127	70.2	960	315	-127	-567	-1,196
5	63,638	64,294	656	69.1	1,762	1,107	656	209	-431
6	71,364	71,379	15	70.3	1,287	533	15	-499	-1,234
7	78,720	80,671	1,951	72.0	3,229	2,472	1,951	1,434	694
8	89,734	92,516	2,782	73.6	4,204	3,361	2,782	2,206	1,380
9	99,268	104,986	5,719	76.4	7,269	6,350	5,719	5,091	4,190
10	105,644	112,265	6,620	78.5	8,258	7,287	6,620	5,957	5,006
11	111,774	117,297	5,523	79.5	7,245	6,225	5,523	4,825	3,826
12	116,627	119,694	3,067	79.5	4,825	3,783	3,067	2,354	1,333
13	118,241	120,635	2,394	80.4	4,156	3,112	2,394	1,680	658
14	119,268	121,432	2,164	82.6	3,955	2,894	2,164	1,438	398
15	117,918	120,458	2,540	80.0	4,394	3,295	2,540	1,790	715
16	113,315	114,888	1,573	78.1	3,360	2,301	1,573	850	-186
17	105,890	106,725	835	80.6	2,722	1,603	835	72	-1,019
18	98,259	99,036	777	77.6	2,629	1,530	777	29	-1,041
19	93,900	95,143	1,244	74.5	3,098	1,998	1,244	495	-575
20	88,392	91,572	3,180	73.9	4,888	3,875	3,180	2,490	1,503
21	85,995	87,370	1,375	73.0	2,974	2,026	1,375	729	-195
22	82,320	82,492	173	72.7	1,625	764	173	-415	-1,255
23	75,861	76,721	859	73.1	2,200	1,405	859	317	-458
24	71,063	71,770	706	71.7	1,944	1,210	706	206	-511
Daily	Reference Energy Use (kWh)	Actual Event Day Energy Use (kWh)	Change in Energy Use (kWh)	Cooling Degree Hours (Base 75 °F)	Uncertainty Adjusted Impact (kWh/ hour) - Percentiles				
	2,162,631	2,205,683	43,052	43.3	10th	30th	50th	70th	90th
					n/a	n/a	n/a	n/a	n/a

Table 8.7
Utility: San Diego Gas & Electric
DR Program: Peak Day Credit Program
Load Impacts for: August 31, 2007
Type of Results: Total for All Enrolled Customers

Hour Ending	Estimated Reference Load (kWh)	Actual Event Day Load (kWh)	Estimated Load Impact (kWh/hour)	Weighted Average Temperature (°F)	Uncertainty Adjusted Impact (kWh/ hr)- Percentiles				
					10th%ile	30th%ile	50th%ile	70th%ile	90th%ile
					1	68,364	68,083	-281	72.7
2	65,487	65,751	264	72.5	1,425	737	264	-205	-877
3	64,303	64,777	474	71.7	1,592	929	474	22	-624
4	63,625	64,262	637	71.7	1,746	1,088	637	188	-454
5	64,527	65,550	1,023	72.5	2,153	1,483	1,023	567	-87
6	71,183	72,906	1,723	71.4	2,969	2,230	1,723	1,219	497
7	80,707	83,147	2,439	73.7	3,712	2,958	2,439	1,924	1,186
8	90,978	93,901	2,923	77.0	4,390	3,520	2,923	2,329	1,478
9	100,992	105,467	4,475	82.1	6,065	5,122	4,475	3,831	2,908
10	107,955	113,166	5,211	82.9	6,890	5,895	5,211	4,531	3,556
11	114,414	118,761	4,347	86.2	6,125	5,071	4,347	3,627	2,595
12	117,182	122,036	4,854	82.9	6,663	5,591	4,854	4,121	3,071
13	117,565	121,805	4,239	81.3	6,021	4,965	4,239	3,518	2,483
14	118,974	121,223	2,250	82.7	4,041	2,980	2,250	1,524	484
15	117,558	119,078	1,520	83.7	3,355	2,267	1,520	777	-288
16	113,128	112,771	-357	82.7	1,473	388	-357	-1,097	-2,158
17	105,026	103,488	-1,539	82.1	343	-773	-1,539	-2,299	-3,387
18	98,032	95,590	-2,442	79.8	-581	-1,685	-2,442	-3,193	-4,267
19	89,387	89,138	-249	76.5	1,551	483	-249	-975	-2,013
20	86,542	86,634	93	76.2	1,756	769	93	-579	-1,539
21	84,733	84,609	-124	75.6	1,479	529	-124	-771	-1,697
22	79,758	80,919	1,161	73.9	2,644	1,765	1,161	562	-295
23	74,515	76,469	1,954	73.7	3,318	2,510	1,954	1,403	614
24	69,915	71,633	1,718	73.4	2,985	2,234	1,718	1,206	473
Daily	Reference Energy Use (kWh)	Actual Event Day Energy Use (kWh)	Change in Energy Use (kWh)	Cooling Degree Hours (Base 75 °F)	Uncertainty Adjusted Impact (kWh/ hour) - Percentiles				
					10th	30th	50th	70th	90th
	2,164,850	2,201,163	36,313	81.7	n/a	n/a	n/a	n/a	n/a

Table 8.8
Utility: San Diego Gas & Electric
DR Program: Peak Day Credit Program
Load Impacts for: September 4, 2007
Type of Results: Total for All Enrolled Customers

Hour Ending	Estimated Reference Load (kWh)	Actual Event Day Load (kWh)	Estimated Load Impact (kWh/hour)	Weighted Average Temperature (°F)	Uncertainty Adjusted Impact (kWh/ hr)- Percentiles				
					10th%ile	30th%ile	50th%ile	70th%ile	90th%ile
1	70,052	66,052	-3,999	73.9	-2,532	-3,403	-3,999	-4,591	-5,435
2	66,998	64,813	-2,185	73.7	-726	-1,592	-2,185	-2,772	-3,612
3	66,109	64,237	-1,872	73.7	-459	-1,298	-1,872	-2,441	-3,254
4	66,069	65,142	-927	73.7	473	-358	-927	-1,492	-2,298
5	67,838	67,991	154	73.4	1,601	742	154	-430	-1,263
6	73,584	75,550	1,966	73.7	3,592	2,627	1,966	1,311	375
7	81,119	88,073	6,954	77.1	8,549	7,603	6,954	6,310	5,388
8	90,321	103,383	13,063	79.2	14,884	13,804	13,063	12,326	11,273
9	104,634	116,376	11,741	80.9	13,699	12,539	11,741	10,949	9,816
10	116,623	123,594	6,971	81.7	9,036	7,812	6,971	6,135	4,939
11	126,004	127,113	1,109	82.6	3,240	1,977	1,109	247	-987
12	130,283	128,134	-2,149	81.5	38	-1,258	-2,149	-3,033	-4,299
13	131,999	127,819	-4,179	80.7	-2,042	-3,309	-4,179	-5,043	-6,281
14	132,097	126,471	-5,626	80.0	-3,487	-4,755	-5,626	-6,491	-7,730
15	130,620	123,050	-7,570	81.3	-5,401	-6,687	-7,570	-8,447	-9,702
16	122,198	114,281	-7,917	78.8	-5,906	-7,098	-7,917	-8,729	-9,893
17	112,294	105,609	-6,686	77.0	-4,585	-5,831	-6,686	-7,533	-8,745
18	103,680	97,884	-5,796	74.2	-3,760	-4,968	-5,796	-6,616	-7,790
19	96,605	90,456	-6,150	72.7	-4,191	-5,353	-6,150	-6,939	-8,067
20	93,650	87,464	-6,186	71.4	-4,350	-5,439	-6,186	-6,926	-7,983
21	89,537	84,185	-5,352	71.4	-3,591	-4,635	-5,352	-6,062	-7,076
22	83,280	78,356	-4,924	70.5	-3,322	-4,272	-4,924	-5,570	-6,493
23	76,314	72,750	-3,564	70.2	-2,114	-2,974	-3,564	-4,149	-4,985
24	71,368	67,946	-3,421	75.7	-2,077	-2,874	-3,421	-3,964	-4,740
Daily	Reference Energy Use (kWh)	Actual Event Day Energy Use (kWh)	Change in Energy Use (kWh)	Cooling Degree Hours (Base 75 °F)	Uncertainty Adjusted Impact (kWh/ hour) - Percentiles				
	2,303,273	2,266,729	-36,544	56.3	10th	30th	50th	70th	90th
					n/a	n/a	n/a	n/a	n/a

Table 8.9
Utility: San Diego Gas & Electric
DR Program: Peak Day Credit Program
Load Impacts for: September 5, 2007
Type of Results: Total for All Enrolled Customers

Hour Ending	Estimated Reference Load (kWh)	Actual Event Day Load (kWh)	Estimated Load Impact (kWh/hour)	Weighted Average Temperature (°F)	Uncertainty Adjusted Impact (kWh/ hr)- Percentiles				
					10th%ile	30th%ile	50th%ile	70th%ile	90th%ile
1	64,569	64,613	44	70.5	1,173	504	44	-412	-1,066
2	62,626	63,058	432	70.5	1,529	879	432	-11	-646
3	61,323	62,002	679	70.5	1,734	1,108	679	252	-358
4	61,436	61,953	517	69.7	1,555	940	517	98	-503
5	63,130	62,930	-200	70.5	896	246	-200	-644	-1,278
6	70,098	70,621	523	70.5	1,741	1,019	523	30	-675
7	80,547	81,029	482	70.0	1,707	981	482	-14	-725
8	95,749	93,857	-1,891	70.5	-473	-1,313	-1,891	-2,465	-3,288
9	109,874	103,873	-6,002	71.4	-4,420	-5,358	-6,002	-6,642	-7,559
10	118,816	109,350	-9,467	72.4	-7,805	-8,789	-9,467	-10,139	-11,104
11	122,653	113,077	-9,576	73.1	-7,842	-8,870	-9,576	-10,278	-11,285
12	124,101	114,881	-9,220	72.0	-7,442	-8,496	-9,220	-9,939	-10,970
13	123,059	113,975	-9,084	71.4	-7,346	-8,376	-9,084	-9,787	-10,795
14	122,678	112,767	-9,912	71.4	-8,172	-9,203	-9,912	-10,616	-11,625
15	119,256	109,923	-9,333	72.8	-7,567	-8,614	-9,333	-10,048	-11,072
16	113,069	103,470	-9,598	70.8	-7,932	-8,920	-9,598	-10,273	-11,239
17	105,830	95,973	-9,857	69.6	-8,088	-9,137	-9,857	-10,571	-11,594
18	97,453	88,389	-9,064	67.7	-7,355	-8,369	-9,064	-9,754	-10,740
19	90,567	82,196	-8,371	67.1	-6,718	-7,699	-8,371	-9,038	-9,992
20	86,757	79,661	-7,096	66.1	-5,572	-6,476	-7,096	-7,711	-8,591
21	82,443	76,960	-5,483	65.6	-4,026	-4,890	-5,483	-6,071	-6,913
22	78,682	72,591	-6,090	67.1	-4,739	-5,540	-6,090	-6,636	-7,417
23	72,667	67,730	-4,938	67.4	-3,673	-4,423	-4,938	-5,449	-6,180
24	67,583	63,981	-3,601	69.9	-2,422	-3,121	-3,601	-4,077	-4,759
Daily	Reference Energy Use (kWh)	Actual Event Day Energy Use (kWh)	Change in Energy Use (kWh)	Cooling Degree Hours (Base 75 °F)	Uncertainty Adjusted Impact (kWh/ hour) - Percentiles				
	2,194,966	2,068,861	-126,105	0.0	10th	30th	50th	70th	90th
					n/a	n/a	n/a	n/a	n/a

Table 8.10
Utility: San Diego Gas & Electric
DR Program: Peak Day Credit Program
Load Impacts for: August 15, 2007
Type of Results: Average per Enrolled Customer

Hour Ending	Estimated Reference Load (kWh)	Actual Event Day Load (kWh)	Estimated Load Impact (kWh/hour)	Weighted Average Temperature (°F)	Uncertainty Adjusted Impact (kWh/ hr)- Percentiles				
					10th%ile	30th%ile	50th%ile	70th%ile	90th%ile
1	84.3	84.6	0.3	70.8	1.7	0.8	0.3	-0.3	-1.2
2	81.8	82.2	0.4	70.8	1.9	1.0	0.4	-0.2	-1.0
3	80.2	81.1	0.9	70.2	2.4	1.5	0.9	0.4	-0.4
4	80.2	80.8	0.5	69.9	1.9	1.1	0.5	0.0	-0.8
5	81.5	82.7	1.1	69.6	2.6	1.7	1.1	0.6	-0.3
6	89.0	90.3	1.3	69.4	2.9	1.9	1.3	0.6	-0.3
7	99.5	101.6	2.1	72.0	3.7	2.7	2.1	1.4	0.5
8	112.2	114.7	2.5	74.2	4.4	3.3	2.5	1.8	0.7
9	121.8	128.1	6.2	76.1	8.2	7.0	6.2	5.4	4.3
10	131.4	136.0	4.6	79.2	6.6	5.4	4.6	3.8	2.6
11	139.0	141.9	2.9	82.1	5.0	3.8	2.9	2.1	0.9
12	144.5	144.0	-0.5	81.8	1.6	0.4	-0.5	-1.4	-2.6
13	145.9	145.1	-0.9	81.3	1.3	0.0	-0.9	-1.7	-2.9
14	146.6	145.4	-1.3	80.7	0.9	-0.4	-1.3	-2.1	-3.4
15	145.5	143.6	-1.9	80.7	0.3	-1.0	-1.9	-2.8	-4.1
16	140.3	138.4	-1.9	78.4	0.4	-0.9	-1.9	-2.8	-4.1
17	133.6	131.3	-2.3	77.1	0.2	-1.3	-2.3	-3.4	-4.8
18	123.3	123.2	-0.2	74.5	2.3	0.8	-0.2	-1.2	-2.6
19	112.7	116.3	3.6	72.0	5.9	4.5	3.6	2.7	1.3
20	108.6	111.5	2.9	71.7	5.0	3.7	2.9	2.0	0.8
21	105.5	108.5	3.0	71.7	5.0	3.8	3.0	2.2	1.0
22	100.3	102.9	2.6	70.8	4.5	3.4	2.6	1.8	0.8
23	93.8	96.1	2.3	70.5	4.0	3.0	2.3	1.6	0.5
24	88.6	91.0	2.3	71.4	3.9	3.0	2.3	1.7	0.7
Daily	Reference Energy Use (kWh)	Actual Event Day Energy Use (kWh)	Change in Energy Use (kWh)	Cooling Degree Hours (Base 75 °F)	Uncertainty Adjusted Impact (kWh/ hour) - Percentiles				
	2,690.4	2,721.1	30.6	42.3	10th	30th	50th	70th	90th
					n/a	n/a	n/a	n/a	n/a

Table 8.11
Utility: San Diego Gas & Electric
DR Program: Peak Day Credit Program
Load Impacts for: August 16, 2007
Type of Results: Average per Enrolled Customer

Hour Ending	Estimated Reference Load (kWh)	Actual Event Day Load (kWh)	Estimated Load Impact (kWh/hour)	Weighted Average Temperature (°F)	Uncertainty Adjusted Impact (kWh/ hr)- Percentiles				
					10th%ile	30th%ile	50th%ile	70th%ile	90th%ile
1	83.9	86.3	2.4	70.5	3.9	3.0	2.4	1.8	0.9
2	81.6	83.9	2.3	70.5	3.8	2.9	2.3	1.7	0.8
3	79.8	82.1	2.2	69.9	3.7	2.8	2.2	1.7	0.8
4	79.3	81.7	2.4	70.5	3.8	3.0	2.4	1.8	1.0
5	80.3	83.6	3.3	70.5	4.7	3.9	3.3	2.7	1.9
6	88.3	91.6	3.3	70.2	4.9	4.0	3.3	2.6	1.7
7	98.9	101.7	2.8	72.0	4.4	3.4	2.8	2.1	1.2
8	112.2	114.5	2.3	75.6	4.2	3.1	2.3	1.6	0.5
9	124.0	127.3	3.2	78.4	5.1	4.0	3.2	2.5	1.4
10	134.1	134.5	0.5	80.9	2.5	1.3	0.5	-0.3	-1.5
11	141.1	139.5	-1.7	80.0	0.4	-0.8	-1.7	-2.5	-3.7
12	145.5	142.6	-2.9	79.0	-0.8	-2.1	-2.9	-3.8	-5.0
13	147.5	143.2	-4.3	80.0	-2.2	-3.4	-4.3	-5.1	-6.3
14	147.2	143.7	-3.6	79.8	-1.5	-2.7	-3.6	-4.4	-5.7
15	145.8	142.7	-3.2	79.4	-1.0	-2.3	-3.2	-4.0	-5.3
16	140.4	137.6	-2.8	80.1	-0.7	-1.9	-2.8	-3.7	-5.0
17	133.4	131.5	-2.0	79.4	0.4	-1.0	-2.0	-2.9	-4.3
18	124.3	123.1	-1.1	76.7	1.2	-0.2	-1.1	-2.1	-3.4
19	116.7	116.1	-0.6	73.6	1.6	0.3	-0.6	-1.5	-2.9
20	109.2	110.2	0.9	72.0	3.0	1.8	0.9	0.1	-1.1
21	107.2	107.4	0.1	71.4	2.1	0.9	0.1	-0.7	-1.8
22	101.4	102.3	0.9	71.4	2.8	1.7	0.9	0.2	-0.9
23	94.4	95.2	0.8	70.5	2.5	1.5	0.8	0.1	-0.8
24	88.7	89.8	1.1	70.8	2.7	1.7	1.1	0.5	-0.5
Daily	Reference Energy Use (kWh)	Actual Event Day Energy Use (kWh)	Change in Energy Use (kWh)	Cooling Degree Hours (Base 75 °F)	Uncertainty Adjusted Impact (kWh/ hour) - Percentiles				
	2,705.3	2,711.8	6.6	44.3	10th	30th	50th	70th	90th
					n/a	n/a	n/a	n/a	n/a

Table 8.12
Utility: San Diego Gas & Electric
DR Program: Peak Day Credit Program
Load Impacts for: August 17, 2007
Type of Results: Average per Enrolled Customer

Hour Ending	Estimated Reference Load (kWh)	Actual Event Day Load (kWh)	Estimated Load Impact (kWh/hour)	Weighted Average Temperature (°F)	Uncertainty Adjusted Impact (kWh/ hr) - Percentiles				
					10th%ile	30th%ile	50th%ile	70th%ile	90th%ile
1	83.6	84.2	0.6	70.2	2.0	1.2	0.6	0.0	-0.9
2	81.0	81.3	0.4	70.2	1.8	1.0	0.4	-0.2	-1.0
3	79.3	79.9	0.7	69.9	2.0	1.2	0.7	0.1	-0.7
4	78.9	79.5	0.6	69.6	1.9	1.1	0.6	0.1	-0.7
5	80.8	82.1	1.2	69.1	2.7	1.8	1.2	0.7	-0.1
6	88.3	88.4	0.1	69.7	1.6	0.7	0.1	-0.5	-1.4
7	99.5	99.5	-0.1	70.5	1.5	0.5	-0.1	-0.7	-1.6
8	111.3	112.3	1.1	73.1	2.8	1.8	1.1	0.4	-0.7
9	123.4	125.0	1.6	75.6	3.5	2.4	1.6	0.9	-0.2
10	131.1	134.0	2.9	78.1	4.8	3.7	2.9	2.1	1.0
11	137.6	140.4	2.8	78.5	4.8	3.6	2.8	1.9	0.7
12	140.5	142.8	2.3	79.4	4.4	3.2	2.3	1.5	0.3
13	142.7	143.7	1.0	77.9	3.1	1.9	1.0	0.2	-1.0
14	144.0	143.1	-0.9	78.2	1.2	-0.1	-0.9	-1.8	-3.0
15	142.2	141.6	-0.6	78.2	1.5	0.3	-0.6	-1.5	-2.7
16	137.1	136.8	-0.3	78.2	1.8	0.6	-0.3	-1.2	-2.4
17	127.1	129.4	2.3	76.7	4.7	3.3	2.3	1.3	0.0
18	121.5	121.7	0.2	75.1	2.5	1.1	0.2	-0.8	-2.1
19	112.6	113.2	0.6	73.0	2.8	1.5	0.6	-0.3	-1.6
20	107.1	108.6	1.4	72.0	3.5	2.2	1.4	0.6	-0.6
21	105.4	105.9	0.5	71.4	2.5	1.3	0.5	-0.3	-1.4
22	100.6	101.2	0.7	71.4	2.5	1.4	0.7	-0.1	-1.1
23	94.2	95.3	1.1	70.5	2.8	1.8	1.1	0.4	-0.5
24	87.8	89.2	1.5	70.5	3.0	2.1	1.5	0.8	-0.1
Daily	Reference Energy Use (kWh)	Actual Event Day Energy Use (kWh)	Change in Energy Use (kWh)	Cooling Degree Hours (Base 75 °F)	Uncertainty Adjusted Impact (kWh/ hour) - Percentiles				
	2,657.5	2,679.0	21.6	25.9	10th	30th	50th	70th	90th
					n/a	n/a	n/a	n/a	n/a

Table 8.13
Utility: San Diego Gas & Electric
DR Program: Peak Day Credit Program
Load Impacts for: August 21, 2007
Type of Results: Average per Enrolled Customer

Hour Ending	Estimated Reference Load (kWh)	Actual Event Day Load (kWh)	Estimated Load Impact (kWh/hour)	Weighted Average Temperature (°F)	Uncertainty Adjusted Impact (kWh/ hr) - Percentiles				
					10th%ile	30th%ile	50th%ile	70th%ile	90th%ile
1	84.4	84.4	0.0	70.5	1.5	0.6	0.0	-0.6	-1.4
2	81.1	82.0	0.8	70.3	2.3	1.4	0.8	0.3	-0.6
3	79.8	80.3	0.5	69.6	1.9	1.1	0.5	-0.1	-0.9
4	79.3	80.0	0.7	69.1	2.0	1.2	0.7	0.1	-0.7
5	81.9	82.2	0.2	69.9	1.6	0.8	0.2	-0.3	-1.1
6	89.5	89.3	-0.2	70.5	1.4	0.5	-0.2	-0.8	-1.7
7	98.2	100.7	2.5	71.7	4.1	3.2	2.5	1.9	1.0
8	114.0	114.5	0.4	74.2	2.2	1.2	0.4	-0.3	-1.4
9	130.1	128.3	-1.8	77.6	0.1	-1.1	-1.8	-2.6	-3.7
10	139.6	137.9	-1.8	80.7	0.3	-0.9	-1.8	-2.6	-3.7
11	146.3	143.5	-2.8	83.2	-0.7	-2.0	-2.8	-3.7	-4.9
12	149.9	145.9	-4.0	83.5	-1.8	-3.1	-4.0	-4.9	-6.1
13	152.2	147.6	-4.6	84.8	-2.5	-3.8	-4.6	-5.5	-6.8
14	153.4	148.2	-5.2	82.6	-3.0	-4.3	-5.2	-6.0	-7.3
15	151.3	145.8	-5.6	82.0	-3.3	-4.7	-5.6	-6.5	-7.8
16	144.1	138.9	-5.2	79.8	-3.0	-4.3	-5.2	-6.1	-7.4
17	135.5	130.8	-4.7	77.1	-2.4	-3.8	-4.7	-5.6	-7.0
18	126.7	122.1	-4.6	74.5	-2.2	-3.6	-4.6	-5.5	-6.8
19	118.4	114.3	-4.0	72.0	-1.8	-3.1	-4.0	-5.0	-6.2
20	113.2	109.4	-3.8	71.1	-1.8	-3.0	-3.8	-4.7	-5.9
21	110.9	107.2	-3.7	71.1	-1.7	-2.9	-3.7	-4.5	-5.7
22	103.2	100.2	-3.0	70.5	-1.2	-2.3	-3.0	-3.7	-4.8
23	95.7	93.8	-1.9	69.6	-0.3	-1.3	-1.9	-2.6	-3.6
24	91.1	88.5	-2.6	71.6	-1.0	-2.0	-2.6	-3.2	-4.2
Daily	Reference Energy Use (kWh)	Actual Event Day Energy Use (kWh)	Change in Energy Use (kWh)	Cooling Degree Hours (Base 75 °F)	Uncertainty Adjusted Impact (kWh/ hour) - Percentiles				
	2,770.2	2,715.8	-54.4	56.2	10th	30th	50th	70th	90th
					n/a	n/a	n/a	n/a	n/a

Table 8.14
Utility: San Diego Gas & Electric
DR Program: Peak Day Credit Program
Load Impacts for: August 29, 2007
Type of Results: Average per Enrolled Customer

Hour Ending	Estimated Reference Load (kWh)	Actual Event Day Load (kWh)	Estimated Load Impact (kWh/hour)	Weighted Average Temperature (°F)	Uncertainty Adjusted Impact (kWh/ hr) - Percentiles				
					10th%ile	30th%ile	50th%ile	70th%ile	90th%ile
1	85.7	83.5	-2.2	70.5	-0.7	-1.6	-2.2	-2.8	-3.7
2	82.8	80.9	-1.9	70.2	-0.5	-1.3	-1.9	-2.5	-3.3
3	81.2	79.5	-1.6	69.4	-0.2	-1.1	-1.6	-2.2	-3.0
4	80.5	79.0	-1.5	69.4	-0.1	-0.9	-1.5	-2.1	-2.8
5	82.9	81.5	-1.4	67.9	0.1	-0.8	-1.4	-2.0	-2.8
6	91.5	90.6	-0.8	70.2	0.8	-0.2	-0.8	-1.5	-2.4
7	100.4	101.9	1.5	73.0	3.1	2.2	1.5	0.9	-0.1
8	114.2	117.5	3.4	75.9	5.2	4.1	3.4	2.6	1.5
9	126.1	132.2	6.1	78.6	8.1	6.9	6.1	5.3	4.2
10	137.2	141.2	4.1	78.4	6.1	4.9	4.1	3.2	2.0
11	145.6	147.9	2.3	78.7	4.5	3.2	2.3	1.5	0.2
12	150.1	152.9	2.9	80.7	5.1	3.8	2.9	1.9	0.6
13	150.9	155.5	4.6	81.3	6.9	5.5	4.6	3.7	2.4
14	152.4	157.0	4.6	80.4	6.9	5.5	4.6	3.6	2.3
15	150.5	155.5	5.0	81.2	7.4	6.0	5.0	4.0	2.6
16	144.4	147.7	3.3	79.4	5.6	4.3	3.3	2.4	1.1
17	137.2	137.3	0.0	77.1	2.5	1.1	0.0	-1.0	-2.4
18	128.6	127.4	-1.2	74.8	1.2	-0.2	-1.2	-2.2	-3.7
19	117.9	118.2	0.3	73.9	2.6	1.2	0.3	-0.7	-2.0
20	112.6	114.2	1.6	73.3	3.8	2.5	1.6	0.7	-0.5
21	110.1	110.1	0.0	72.3	2.1	0.8	0.0	-0.8	-2.0
22	104.5	103.4	-1.1	72.0	0.7	-0.4	-1.1	-1.9	-3.0
23	96.9	95.9	-1.0	71.7	0.8	-0.2	-1.0	-1.7	-2.7
24	91.3	90.7	-0.6	71.1	1.0	0.0	-0.6	-1.3	-2.2
Daily	Reference Energy Use (kWh)	Actual Event Day Energy Use (kWh)	Change in Energy Use (kWh)	Cooling Degree Hours (Base 75 °F)	Uncertainty Adjusted Impact (kWh/ hour) - Percentiles				
	2,775.4	2,801.6	26.3	41.7	10th	30th	50th	70th	90th
					n/a	n/a	n/a	n/a	n/a

Table 8.15
Utility: San Diego Gas & Electric
DR Program: Peak Day Credit Program
Load Impacts for: August 30, 2007
Type of Results: Average per Enrolled Customer

Hour Ending	Estimated Reference Load (kWh)	Actual Event Day Load (kWh)	Estimated Load Impact (kWh/hour)	Weighted Average Temperature (°F)	Uncertainty Adjusted Impact (kWh/ hr) - Percentiles				
					10th%ile	30th%ile	50th%ile	70th%ile	90th%ile
1	86.4	86.0	-0.4	70.5	1.1	0.2	-0.4	-1.0	-1.9
2	83.9	83.4	-0.4	70.5	1.1	0.2	-0.4	-1.0	-1.9
3	82.5	82.1	-0.4	70.2	1.0	0.2	-0.4	-1.0	-1.8
4	82.0	81.8	-0.2	70.2	1.3	0.4	-0.2	-0.7	-1.6
5	83.4	84.3	0.9	69.1	2.3	1.5	0.9	0.3	-0.6
6	93.5	93.6	0.0	70.3	1.7	0.7	0.0	-0.7	-1.6
7	103.2	105.7	2.6	72.0	4.2	3.2	2.6	1.9	0.9
8	117.6	121.3	3.6	73.6	5.5	4.4	3.6	2.9	1.8
9	130.1	137.6	7.5	76.4	9.5	8.3	7.5	6.7	5.5
10	138.5	147.1	8.7	78.5	10.8	9.6	8.7	7.8	6.6
11	146.5	153.7	7.2	79.5	9.5	8.2	7.2	6.3	5.0
12	152.9	156.9	4.0	79.5	6.3	5.0	4.0	3.1	1.7
13	155.0	158.1	3.1	80.4	5.4	4.1	3.1	2.2	0.9
14	156.3	159.2	2.8	82.6	5.2	3.8	2.8	1.9	0.5
15	154.5	157.9	3.3	80.0	5.8	4.3	3.3	2.3	0.9
16	148.5	150.6	2.1	78.1	4.4	3.0	2.1	1.1	-0.2
17	138.8	139.9	1.1	80.6	3.6	2.1	1.1	0.1	-1.3
18	128.8	129.8	1.0	77.6	3.4	2.0	1.0	0.0	-1.4
19	123.1	124.7	1.6	74.5	4.1	2.6	1.6	0.6	-0.8
20	115.8	120.0	4.2	73.9	6.4	5.1	4.2	3.3	2.0
21	112.7	114.5	1.8	73.0	3.9	2.7	1.8	1.0	-0.3
22	107.9	108.1	0.2	72.7	2.1	1.0	0.2	-0.5	-1.6
23	99.4	100.6	1.1	73.1	2.9	1.8	1.1	0.4	-0.6
24	93.1	94.1	0.9	71.7	2.5	1.6	0.9	0.3	-0.7
Daily	Reference Energy Use (kWh)	Actual Event Day Energy Use (kWh)	Change in Energy Use (kWh)	Cooling Degree Hours (Base 75 °F)	Uncertainty Adjusted Impact (kWh/ hour) - Percentiles				
	2,834.4	2,890.8	56.4	43.3	10th	30th	50th	70th	90th
					n/a	n/a	n/a	n/a	n/a

Table 8.16
Utility: San Diego Gas & Electric
DR Program: Peak Day Credit Program
Load Impacts for: August 31, 2007
Type of Results: Average per Enrolled Customer

Hour Ending	Estimated Reference Load (kWh)	Actual Event Day Load (kWh)	Estimated Load Impact (kWh/hour)	Weighted Average Temperature (°F)	Uncertainty Adjusted Impact (kWh/ hr) - Percentiles				
					10th%ile	30th%ile	50th%ile	70th%ile	90th%ile
1	89.6	89.2	-0.4	72.7	1.2	0.3	-0.4	-1.0	-1.9
2	85.8	86.2	0.3	72.5	1.9	1.0	0.3	-0.3	-1.1
3	84.3	84.9	0.6	71.7	2.1	1.2	0.6	0.0	-0.8
4	83.4	84.2	0.8	71.7	2.3	1.4	0.8	0.2	-0.6
5	84.6	85.9	1.3	72.5	2.8	1.9	1.3	0.7	-0.1
6	93.3	95.6	2.3	71.4	3.9	2.9	2.3	1.6	0.7
7	105.8	109.0	3.2	73.7	4.9	3.9	3.2	2.5	1.6
8	119.2	123.1	3.8	77.0	5.8	4.6	3.8	3.1	1.9
9	132.4	138.2	5.9	82.1	7.9	6.7	5.9	5.0	3.8
10	141.5	148.3	6.8	82.9	9.0	7.7	6.8	5.9	4.7
11	150.0	155.6	5.7	86.2	8.0	6.6	5.7	4.8	3.4
12	153.6	159.9	6.4	82.9	8.7	7.3	6.4	5.4	4.0
13	154.1	159.6	5.6	81.3	7.9	6.5	5.6	4.6	3.3
14	155.9	158.9	2.9	82.7	5.3	3.9	2.9	2.0	0.6
15	154.1	156.1	2.0	83.7	4.4	3.0	2.0	1.0	-0.4
16	148.3	147.8	-0.5	82.7	1.9	0.5	-0.5	-1.4	-2.8
17	137.6	135.6	-2.0	82.1	0.4	-1.0	-2.0	-3.0	-4.4
18	128.5	125.3	-3.2	79.8	-0.8	-2.2	-3.2	-4.2	-5.6
19	117.2	116.8	-0.3	76.5	2.0	0.6	-0.3	-1.3	-2.6
20	113.4	113.5	0.1	76.2	2.3	1.0	0.1	-0.8	-2.0
21	111.1	110.9	-0.2	75.6	1.9	0.7	-0.2	-1.0	-2.2
22	104.5	106.1	1.5	73.9	3.5	2.3	1.5	0.7	-0.4
23	97.7	100.2	2.6	73.7	4.3	3.3	2.6	1.8	0.8
24	91.6	93.9	2.3	73.4	3.9	2.9	2.3	1.6	0.6
Daily	Reference Energy Use (kWh)	Actual Event Day Energy Use (kWh)	Change in Energy Use (kWh)	Cooling Degree Hours (Base 75 °F)	Uncertainty Adjusted Impact (kWh/ hour) - Percentiles				
	2,837.3	2,884.9	47.6	81.7	10th	30th	50th	70th	90th
					n/a	n/a	n/a	n/a	n/a

Table 8.17
Utility: San Diego Gas & Electric
DR Program: Peak Day Credit Program
Load Impacts for: September 4, 2007
Type of Results: Average per Enrolled Customer

Hour Ending	Estimated Reference Load (kWh)	Actual Event Day Load (kWh)	Estimated Load Impact (kWh/hour)	Weighted Average Temperature (°F)	Uncertainty Adjusted Impact (kWh/ hr) - Percentiles				
					10th%ile	30th%ile	50th%ile	70th%ile	90th%ile
1	91.7	86.5	-5.2	73.9	-3.3	-4.5	-5.2	-6.0	-7.1
2	87.7	84.8	-2.9	73.7	-1.0	-2.1	-2.9	-3.6	-4.7
3	86.5	84.1	-2.5	73.7	-0.6	-1.7	-2.5	-3.2	-4.3
4	86.5	85.3	-1.2	73.7	0.6	-0.5	-1.2	-2.0	-3.0
5	88.8	89.0	0.2	73.4	2.1	1.0	0.2	-0.6	-1.7
6	96.3	98.9	2.6	73.7	4.7	3.4	2.6	1.7	0.5
7	106.2	115.3	9.1	77.1	11.2	10.0	9.1	8.3	7.1
8	118.2	135.3	17.1	79.2	19.5	18.1	17.1	16.1	14.8
9	137.0	152.3	15.4	80.9	17.9	16.4	15.4	14.3	12.8
10	152.6	161.8	9.1	81.7	11.8	10.2	9.1	8.0	6.5
11	164.9	166.4	1.5	82.6	4.2	2.6	1.5	0.3	-1.3
12	170.5	167.7	-2.8	81.5	0.0	-1.6	-2.8	-4.0	-5.6
13	172.8	167.3	-5.5	80.7	-2.7	-4.3	-5.5	-6.6	-8.2
14	172.9	165.5	-7.4	80.0	-4.6	-6.2	-7.4	-8.5	-10.1
15	171.0	161.1	-9.9	81.3	-7.1	-8.8	-9.9	-11.1	-12.7
16	159.9	149.6	-10.4	78.8	-7.7	-9.3	-10.4	-11.4	-12.9
17	147.0	138.2	-8.8	77.0	-6.0	-7.6	-8.8	-9.9	-11.4
18	135.7	128.1	-7.6	74.2	-4.9	-6.5	-7.6	-8.7	-10.2
19	126.4	118.4	-8.0	72.7	-5.5	-7.0	-8.0	-9.1	-10.6
20	122.6	114.5	-8.1	71.4	-5.7	-7.1	-8.1	-9.1	-10.4
21	117.2	110.2	-7.0	71.4	-4.7	-6.1	-7.0	-7.9	-9.3
22	109.0	102.6	-6.4	70.5	-4.3	-5.6	-6.4	-7.3	-8.5
23	99.9	95.2	-4.7	70.2	-2.8	-3.9	-4.7	-5.4	-6.5
24	93.4	88.9	-4.5	75.7	-2.7	-3.8	-4.5	-5.2	-6.2
Daily	Reference Energy Use (kWh)	Actual Event Day Energy Use (kWh)	Change in Energy Use (kWh)	Cooling Degree Hours (Base 75 °F)	Uncertainty Adjusted Impact (kWh/ hour) - Percentiles				
	3,014.8	2,966.9	-47.8	56.3	10th	30th	50th	70th	90th
					n/a	n/a	n/a	n/a	n/a

Table 8.18
Utility: San Diego Gas & Electric
DR Program: Peak Day Credit Program
Load Impacts for: September 5, 2007
Type of Results: Average per Enrolled Customer

Hour Ending	Estimated Reference Load (kWh)	Actual Event Day Load (kWh)	Estimated Load Impact (kWh/hour)	Weighted Average Temperature (°F)	Uncertainty Adjusted Impact (kWh/ hr) - Percentiles				
					10th%ile	30th%ile	50th%ile	70th%ile	90th%ile
1	84.5	84.6	0.1	70.5	1.5	0.7	0.1	-0.5	-1.4
2	82.0	82.5	0.6	70.5	2.0	1.2	0.6	0.0	-0.8
3	80.3	81.2	0.9	70.5	2.3	1.5	0.9	0.3	-0.5
4	80.4	81.1	0.7	69.7	2.0	1.2	0.7	0.1	-0.7
5	82.6	82.4	-0.3	70.5	1.2	0.3	-0.3	-0.8	-1.7
6	91.8	92.4	0.7	70.5	2.3	1.3	0.7	0.0	-0.9
7	105.4	106.1	0.6	70.0	2.2	1.3	0.6	0.0	-0.9
8	125.3	122.9	-2.5	70.5	-0.6	-1.7	-2.5	-3.2	-4.3
9	143.8	136.0	-7.9	71.4	-5.8	-7.0	-7.9	-8.7	-9.9
10	155.5	143.1	-12.4	72.4	-10.2	-11.5	-12.4	-13.3	-14.5
11	160.5	148.0	-12.5	73.1	-10.3	-11.6	-12.5	-13.5	-14.8
12	162.4	150.4	-12.1	72.0	-9.7	-11.1	-12.1	-13.0	-14.4
13	161.1	149.2	-11.9	71.4	-9.6	-11.0	-11.9	-12.8	-14.1
14	160.6	147.6	-13.0	71.4	-10.7	-12.0	-13.0	-13.9	-15.2
15	156.1	143.9	-12.2	72.8	-9.9	-11.3	-12.2	-13.2	-14.5
16	148.0	135.4	-12.6	70.8	-10.4	-11.7	-12.6	-13.4	-14.7
17	138.5	125.6	-12.9	69.6	-10.6	-12.0	-12.9	-13.8	-15.2
18	127.6	115.7	-11.9	67.7	-9.6	-11.0	-11.9	-12.8	-14.1
19	118.5	107.6	-11.0	67.1	-8.8	-10.1	-11.0	-11.8	-13.1
20	113.6	104.3	-9.3	66.1	-7.3	-8.5	-9.3	-10.1	-11.2
21	107.9	100.7	-7.2	65.6	-5.3	-6.4	-7.2	-7.9	-9.0
22	103.0	95.0	-8.0	67.1	-6.2	-7.3	-8.0	-8.7	-9.7
23	95.1	88.7	-6.5	67.4	-4.8	-5.8	-6.5	-7.1	-8.1
24	88.5	83.7	-4.7	69.9	-3.2	-4.1	-4.7	-5.3	-6.2
Daily	Reference Energy Use (kWh)	Actual Event Day Energy Use (kWh)	Change in Energy Use (kWh)	Cooling Degree Hours (Base 75 °F)	Uncertainty Adjusted Impact (kWh/ hour) - Percentiles				
	2,873.0	2,707.9	-165.1	0.0	10th	30th	50th	70th	90th
					n/a	n/a	n/a	n/a	n/a