



CALIFORNIA  
MUNICIPAL  
UTILITIES  
ASSOCIATION



## Establishing Energy Efficiency Targets: A Public Power Response to AB2021



June 2007

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### Project Managers:

Scott Tomaszewski, Northern California Power Agency (NCPA)  
Manny Robledo, Southern California Public Power Authority (SCPPA)  
David Reynolds, Northern California Power Agency

Gary Ambach, Imperial Irrigation District	Gerald Katz, Colton Electric Utility
Mike Bacich, Riverside Public Utilities	Craig Kuennen, Glendale Water & Power
Jim Brands, Efficiency Services Group	Anthony Kekulawela, Port of Oakland
Theresa Boucher, Lassen MUD	Joyce Kinnear, Silicon Valley Power
Rick Coleman, Trinity PUD	David Kolk, City of Needles
Veronica Craghead, City of Banning	Rob Lechner, Lodi Electric Utility
Kurt Duvall, Corona Electric Utility	Mariann Long, Anaheim Public Utilities
Paul Eichenberger, City of Shasta Lake	Willie Manuel, Turlock Irrigation District
Phil Falkenstein, Imperial Irrigation District	Fred Mason, City of Banning
Nancy Folly, Turlock Irrigation District	Marlee Mattos, City of Biggs
Isaias Franco, Merced Irrigation District	Jeanette Meyers, Burbank Water & Power
Peter Govea, Modesto Irrigation District	Patrick Morrison, Roseville Electric
George Hanson, Moreno Valley Utilities	Jessica Nelson, Plumas-Sierra REC
Alan Harry, Truckee Donner PUD	Meredith Owens, Alameda Power & Telecom
Ted Haskell, Efficiency Services Group	Paul Reid, Azusa Light & Water
John Hoffner, Pasadena Water & Power	Glen Reddick, City of Hercules
Bob Hondeville, Modesto Irrigation District	Jan Roosevelt, Anaheim Public Utilities
Carla Johannesen, Roseville Electric	Mike Ten Eyck, City of Rancho Cucamonga
Bob Jones, Turlock Irrigation District	Vanessa Xie, Pittsburg Power/Island Energy
Mary Kammer, City of Lompoc	

### Project Consultants (Rocky Mountain Institute):

John Anderson  
Lena Hanson  
Aaron Silverman  
Kitty Wang

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## Executive Summary

California Assembly Bill 2021 (Levine), signed into law in September 2006, expanded upon several of the energy efficiency policies adopted via the passage of Senate Bill 1037 in 2005. This report complies with Section 3 of the statute, requiring each publicly-owned utility (POU) to:

“identify all potentially achievable cost-effective electricity efficiency savings and shall establish annual targets for energy efficiency savings and demand reduction for the next 10-year period.”

Similar to the approach taken to develop public power’s energy efficiency status report last year pursuant to SB 1037, the California Municipal Utilities Association (CMUA), in partnership with the Northern California Power Agency (NCPA) and the Southern California Public Power Authority (SCPPA), have joined together to collaborate on the development of individual utility energy efficiency and demand reduction targets. A total of 35 POU’s are participating in this report (Table 1). We note that the Los Angeles Department of Water and Power, the Sacramento Municipal Utility District, City of Palo Alto Utilities, and Redding Electric Utility are submitting data separate from this report.

The principal findings and conclusions of this analysis are as follows:

- **With the exception of Silicon Valley Power, which adopted its efficiency target on June 5, the estimates contained in this report are preliminary in nature and have not yet been approved by any other local governing board. With the concurrence of California Energy Commission (CEC) staff and commissioners, as well as general agreement from the office of Assemblyman Lloyd Levine (the principal author of AB2021), POU’s submitting information in this report have until September 30, 2007 to submit formally-adopted estimates to the CEC.**
- The results from this analysis are based on a methodology developed by the Rocky Mountain Institute, an independent organization with well-accepted energy efficiency expertise in the energy industry.
- Energy efficiency programs among the 35 utilities participating in this analysis target a reduction in consumption of approximately 2,089 gigawatt hours and a peak demand decline of 274 megawatts during the ten-year period ending in 2016. This represents slightly more than an eight percent reduction in consumption over the period, and accommodates nearly half of public power load growth.

- Individual savings targets vary by utility for a variety of reasons, including but not limited to climate zone, community demographics, and load growth patterns. Achievable potential ranges for some utilities move well beyond the state's goal of 10 percent reduction in consumption.
- In total, energy program targets are more than double the historical annual energy savings achievements.

CMUA, NCPA, and SCPPA look forward to working with the CEC on energy efficiency issues, and are committed to balancing statewide energy policy direction with the needs and diverse interests of local communities. An updated report with targets adopted by each utility's respective governing boards will be submitted to the CEC in the first week of October.

## I. Introduction

On September 26, 2006, Governor Schwarzenegger signed Assembly Bill 2021 (Levine) into law, expanding upon several of the energy efficiency policies adopted via the passage of Senate Bill 1037 in 2005. This report complies with Section 3 of the statute, requiring each publicly-owned utility to:

“identify all potentially cost-effective electricity efficiency savings and shall establish annual targets for energy efficiency savings and demand reduction for the next 10-year period.”

Similar to the approach taken to develop public power’s energy efficiency status report last year, the California Municipal Utilities Association (CMUA), in partnership with the Northern California Power Agency (NCPA) and the Southern California Public Power Authority (SCPPA), have joined together to collaborate on the development of individual utility energy efficiency targets. A total of 35 POU’s are participating in this report (Table 1).

**Table 1  
Publicly-owned Utilities Participating in Report**

Alameda	Imperial Irrigation District	Plumas Sierra
Anaheim	Industry	Port of Oakland
Azusa	Lassen MUD	Rancho Cucamonga
Banning	Lodi	Riverside
Biggs	Lompoc	Roseville
Burbank	Merced	Shasta Lake
Colton	Modesto Irrigation District	Silicon Valley Power (Santa Clara)
Corona	Moreno Valley	Trinity PUD
Glendale	Needles	Truckee Donner PUD
Gridley	Pasadena	Turlock Irrigation District
Healdsburg	Pittsburg Power Company/ Island Energy	Ukiah
Hercules		Vernon

A considerable amount of time and resources have been put into this effort. Rocky Mountain Institute (RMI) was retained to develop an Excel-based tool that can be used to establish energy efficiency targets for each utility. Approximately \$150,000 of contract dollars was dedicated to this effort. The total cost in time and money associated with this project, however, is considerably greater, when utility staff time, workshop participation, and CMUA/NCPA/SCPPA coordination is taken into consideration.

The following report contains three additional sections. Section II addresses the RMI model and the methodology surrounding the calculation of energy efficiency potential targets. As described in this report, it is assumed by the POUs participating in this project that Section II addresses the requirement in AB2021 that calls for utilities to describe the basis for establishing individual targets. Critical to this section is an explanation of the distinction between theoretical cost-effective potential, and the utility-specified feasible number. A list of caveats and considerations related to the numbers being provided is also included in this section.

Section III provides each utility's energy efficiency and demand reduction targets followed by some concluding thoughts for future consideration. Individual program summaries are contained in the Appendix. Section IV describes some of the lessons learned from the current study and provides thoughts for consideration by the POUs when they update their energy efficiency potentials again within the next three years.

**With the exception of Silicon Valley Power, which adopted its efficiency target on June 5, the estimates contained in this report are preliminary in nature and have not yet been approved by any other local governing board. With the concurrence of CEC staff and commissioners, as well as general agreement from the office of Assemblyman Lloyd Levine (the principal author of AB2021), POUs submitting information in this report have until September 30, 2007 to submit formally-adopted estimates to the CEC. Recognizing the timing of the data needed for the CEC to complete its Integrated Energy Policy Report cycle without delay, the CEC has agreed to accept preliminary data from the POUs in this regard.**

## II. RMI Model and Methodology

RMI's energy efficiency potential model is designed to calculate technical, cost-effective, and feasible energy efficiency potential for a utility's service area. The model forecasts energy savings and demand reduction potential in existing buildings and new construction for the residential, commercial, and industrial sectors for the years 2007-2016. Though flexible enough to be applied to any utility, customized versions of the model have been created to reflect the specific characteristics of each POU participating in the AB2021 project. In particular, the model allows specific adjustments for:

- Forecasted energy load and demand growth,
- Climate (using Title 24 climate zones),
- Customer mix (by building type and industry),
- End use characteristics,
- Forecasted avoided costs and customer rates,
- POU and ratepayer discount rates,
- Non-capital program costs, including POU incentives and marketing/EM&V/admin, and
- POU-specified feasible quantities for each measure

The model is based on the California Energy Efficiency Potential Study (CEEPS), prepared by Itron in 2006 for California's investor-owned utilities (IOUs) - Pacific Gas & Electric (PG&E), Southern California Edison (SCE), and San Diego Gas & Electric (SDG&E). Cost and potential efficiency savings of individual measures considered in that study were imported into the RMI model. Baseline results for an IOU (baseline IOU), such as technical energy and demand reduction potential, were converted into relative potentials that were then adjusted, and finally applied to each participating POU. The cost test methodology used in the model to calculate cost-effective efficiency potential is adapted from that developed by Energy and Environmental Economics, Inc. (E3).

For practical reasons primarily related to file size constraints, the model has been created as a set of three complementary Excel files. The first file calculates technical efficiency potential. The results of this model are then used to determine cost-effective efficiency potential. The cost test model includes tables and charts illustrating the technical and cost-effective potential for each sector. In the last step, the cost-effective results are used as a basis for estimating feasible potential. The graphs in the feasible model show the combined technical, cost-effective, and feasible results. The summary table in the feasible model contains the results each POU will report in accordance with AB2021 obligations.



## A. Data Sources

RMI relied on a number of data sources for the development of the model, as shown in the following list and Table 2.

- Itron, California Energy Efficiency Potential Study (San Diego, CA: Itron, 2006).
- Itron, California Commercial End-Use Survey (San Diego, CA: Itron, 2006).
- KEMA-XENERGY, California Statewide Residential Appliance Saturation Study (Oakland, CA: KEMA-XENERGY, 2004).
- KEMA-XENERGY, California Statewide Residential Sector Energy Efficiency Potential Study (Oakland, CA: KEMA-XENERGY, 2003).

**Table 2. Summary of Specific Data and Metrics Used to Determine Efficiency Potential for Each Sector<sup>1</sup>**

Sector	Type	Data Source	Data Information	Metrics
Residential	Existing	CEEPS Appendix F <ul style="list-style-type: none"> <li>• [IOU]Res.xls</li> </ul>	<ul style="list-style-type: none"> <li>• Measure level</li> </ul>	<ul style="list-style-type: none"> <li>• kWh/unit potential</li> <li>• Total kWh potential</li> <li>• Incremental measure cost</li> <li>• Measure lifetime</li> </ul>
	New	CEEPS Appendix I <ul style="list-style-type: none"> <li>• [IOU]ResAppendix.xls</li> </ul>	<ul style="list-style-type: none"> <li>• Packages of measures</li> <li>• Only HVAC and water heating addressed</li> <li>• Packages result in both electricity and natural gas savings</li> <li>• Packages defined to exceed 2005 T24 building codes by 15%<sup>2</sup></li> </ul>	<ul style="list-style-type: none"> <li>• Therms/unit potential</li> <li>• kWh/unit potential</li> <li>• Total kWh potential</li> <li>• Incremental package cost</li> <li>• Package lifetime</li> </ul>
Commercial	Existing	CEEPS Appendix G <ul style="list-style-type: none"> <li>• [IOU]HVAC.xls</li> <li>• [IOU]Lighting.xls</li> </ul>	<ul style="list-style-type: none"> <li>• Measure level</li> </ul>	<ul style="list-style-type: none"> <li>• kWh/unit potential</li> <li>• Total kWh potential</li> <li>• Incremental measure cost</li> </ul>

<sup>1</sup> Many of the Excel files listed in the table have separate versions for each of the three investor-owned utilities (IOUs). In these instances, “[IOU]” has been substituted for the actual utility name in this table. The data source for a given participating POU was based upon the default IOU and climate zone specified by that POU.

<sup>2</sup> Itron developed a number of packages defined by the amount by which it exceeds either 2001 or 2005 Title 24 building standards. For this analysis, RMI used only those packages based on 2005 standards. Furthermore, the data set consists of packages for several types of single family and multi family homes, such as single family one-story, single family two-story, single family attached, multi family two-story, and multi family three-story. To simplify our analysis, the savings and cost data were averaged into one set of values for single family homes and one set of values for multi family homes.

Sector	Type	Data Source	Data Information	Metrics
	New	<ul style="list-style-type: none"> <li>[IOU]Misc.xls</li> <li>[IOU]Refrigeration.xls</li> </ul> CEEPS Appendix J <ul style="list-style-type: none"> <li>[IOU]ComAppendix.xls</li> </ul>	<ul style="list-style-type: none"> <li>Packages of measures</li> <li>Only HVAC and water heating addressed</li> <li>Packages result in both electricity and natural gas savings</li> <li>Packages defined to exceed 2005 T24 building codes by 15%</li> <li>End use level<sup>3</sup></li> </ul>	<ul style="list-style-type: none"> <li>Measure lifetime</li> <li>Therms/unit potential</li> <li>kWh/unit potential</li> <li>Total kWh potential</li> <li>Incremental package cost</li> <li>Package lifetime</li> </ul>
Industrial	Conventional Industries – Existing Facilities	CEEPS Appendix H <ul style="list-style-type: none"> <li>IndustrialOutputs.xls</li> </ul>	<ul style="list-style-type: none"> <li>Measure level, except packages for lighting/HVAC</li> </ul>	<ul style="list-style-type: none"> <li>Total kWh potential</li> <li>Levelized costs of individual measures<sup>4</sup></li> </ul>
	Conventional Industries – New Construction	CEEPS Appendix K <ul style="list-style-type: none"> <li>[IOU]IndAppendix.xls</li> </ul>	<ul style="list-style-type: none"> <li>Measure level, except packages for lighting/HVAC</li> </ul>	<ul style="list-style-type: none"> <li>kWh potential per baseline MWh consumed</li> <li>Incremental measure/package cost</li> <li>Measure/package lifetime</li> </ul>
	High-Tech Industries	Public Reports, Personal Interviews, RMI Estimates <sup>5</sup>	<ul style="list-style-type: none"> <li>Measure level</li> </ul>	<ul style="list-style-type: none"> <li>Savings as % of baseline consumption for targeted end use</li> </ul>

## B. Customization

A number of customization options have been built into the model to ensure that the results reflect the unique characteristics of each POU's service area. Though each POU's results are based upon the same modeling framework, these customization options ensure that the potential results accurately reflect each POU's size, growth rate, climate zone, and customer base. The model also allows each POU to specify various financial parameters, including customer rates, energy costs, discount rates, customer rebate levels, and overhead.

<sup>3</sup> Reporting end use level data for industrial rather than measure level data captures the additive effects of combining measures.

<sup>4</sup> RMI averaged levelized costs of each measure to develop levelized costs for each end use.

<sup>5</sup> A full list of sources consulted is included in the discussion of high-tech industries.

## Forecasted Sales and Demand Growth

The RMI model forecasts energy savings on a relative basis, as a function of forecasted sales. Though the actual efficiency potential is calculated based upon sales to various customer sectors, each POU also provided its baseline system total sales forecast so that it could be compared to the system total sales forecast after implementation of efficiency programs. The model also requires each POU to provide a 10-year forecast of system peak demand. Both values represent total sales, rather than energy or power at the city gate.

Though all utilities were able to provide sales forecasts, some utilities did not provide peak demand forecasts. In these instances, peak demand was grown at the same rate as total system consumption. Like total system consumption, the system peak values were used only as outputs. Peak demand reduction potential was estimated as a function of energy savings potential (more detailed explanation provided in subsequent sections of this appendix).

The calculations of efficiency potential were based upon the sector-level sales. The model thus requires each POU to also break down system total sales into the three primary sectors: residential, commercial<sup>6</sup>, and industrial. Other sectors, such as agriculture, were included in the system total but were not evaluated for efficiency potential, as the CEEPS report did not include applicable measures.

It is important to note that the model requires commercial and industrial sector sales forecasts to be based on the type of business, rather than on the customer's size. As such, it is highly recommended that POUs distinguish between commercial and industrial customers within the same size category (for example between 200kW and 1000 kW) when inputting data into the model. The efficiency measures in the model apply to specific building types and industries. The commercial and industrial sectors are defined in the following section on customer mix.

## Customer Mix (By Building Type/Industry) and End Use Characteristics

At the outset of the study, each POU was asked to provide building type and end use proportions for their service territory. The full lists of building types and end use types used in the model are provided in Table 3 and 4, respectively. If these proportions were unavailable, RMI substituted the attributes of the IOU that each participant felt was most similar to their own POU.

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<sup>6</sup> Municipal loads were included in the commercial sector.

**Table 3. Enumeration of Building Types in Model, by Sector**

<b>Residential</b>	<b>Commercial</b>	<b>Industrial</b>
Mobile Homes Multi-Family Single-Family	College Grocery Health Lodging Large Office Miscellaneous Refrigerated Warehouse Retail Restaurant School Small Office Warehouse	Chemicals Electronics Fab. Metals Food Industrial Machines Instruments Lumber, Furniture Miscellaneous Paper Petroleum Primary Metals Printing Rubber, Plastics Stone, Clay, Glass Textiles, Apparel Transportation Equipment Data Center Semiconductor Manufacturer Lab

**Table 4. Enumeration of End Use Types in Model, by Sector**

<b>Residential</b>	<b>Commercial</b>	<b>Industrial</b>
HVAC Lighting Miscellaneous Refrigeration Water Heating	Cooking HVAC Lighting Miscellaneous Refrigeration Water Heating	Compressed Air Cooling Drives Fans Heating Lighting Other Pumps Refrigeration

Climate

To account for the impact of climate on equipment usage patterns, the technical potential for each measure was calculated based upon typical usage patterns specified for the Title 24 Climate Zone applicable to each POU. Additional details concerning this adjustment are included in the technical potential discussion.

## Rates and Avoided Costs

Each POU's current and forecasted rate schedule was used in the calculation of the Participant Cost test and the Rate Impact Measure test. If a forecast was unavailable, RMI grew each POU's current rates by 3% each year. Utilities also provided their forecasted avoided energy costs for use in performing the Total Resource Cost test, Rate Impact Measure test, and Program Administrator Cost test. If this information was unavailable, RMI substituted the avoided costs of the IOU that each participant felt was most similar to their own POU.

## POU and Ratepayer Real Discount Rates

The cost test calculations are based upon the net present value (NPV) of all future costs and benefits associated with each measure. To discount the future stream of avoided costs and customer rates, a separate discount rate was needed for the POU and for the customer. For instance, when calculating the total resource cost (TRC) test, the future avoided costs were discounted according to the POU's discount rate. When calculating the participant cost test (PCT), the future rates were discounted according to the customer's discount rate.

Each POU had the option of providing their own discount rate and specifying their customers' discount rate. If this data was not provided, RMI substituted a real utility discount rate of 5% and a real customer discount rate of 10%. The 10% customer discount rate reflects the fact that customers often require a faster payback than do utilities.

## Non-Capital Program Costs, Including POU Incentives and Marketing/EM&V/Administrative,

Though the CEEPS report provided capital costs for each measure, each utility must specify their overhead costs. These costs are considered when determining cost-effective potential, as they are part of the TRC test. The RMI model calculates overhead as a function of the lifecycle energy savings for each measure. The lifecycle cost per kWh was initially determined based on each POU's historical performance, as was provided in the SB 1037 report. However, each POU has the option of choosing a different cost per lifecycle kWh if preferred. This topic is discussed further in section D, which covers the cost-test calculations.

Each utility can also specify to the degree to which they will provide rebates on efficiency measures. This incentive level is input as a percentage of the capital cost.

### ***C. Technical Potential***

The term technical potential is typically used to describe the full extent of efficiency potential, without regard to practicality or costs. In theory, the technical efficiency potential could reach 100% of baseline consumption, as it is technically possible to create buildings that do not use any electricity. The RMI technical potential model is based upon the technical potential calculated in the CEEPS report for the IOUs. The CEEPS measures represent the subset of measures that Itron deemed to be reasonable to include at the time of the study. The technical potential results therefore do not represent the maximum technical potential that is theoretically possible. It is also important to note that the technical, cost-effective, and feasible efficiency potential reported by the RMI models are net, based on the net-to-gross ratio reported by Itron for each measure.<sup>7</sup>

The structure of the technical potential outputs in the CEEPS report was somewhat different for each sector. Since each data set contained different data elements, the RMI model used a combination of methodologies to calculate technical potential for the various sectors. The potential for existing buildings and industrial new construction was modeled as a function of baseline sales. The potential for residential and commercial new construction was modeled as a function of forecasted new building space. RMI also developed a “high-tech” industrial module, which modeled efficiency as a function of baseline sales.

The following discussion is organized based upon the methodology employed. The residential and commercial sectors are described together, as the same methodology was used for both sectors. The industrial sector is described last, as a separate methodology was used for each portion—existing conventional, new conventional, and high-tech—of this sector.

#### **I. Residential and Commercial**

##### **Existing Buildings**

###### ***Technical Potential: Energy***

The CEEPS report provided technical efficiency potential for individual efficiency measures for the PG&E service territory. This data set was used to develop a total generic, baseline technical potential. It is referred to as the Itron Study Baseline within the RMI technical potential model.

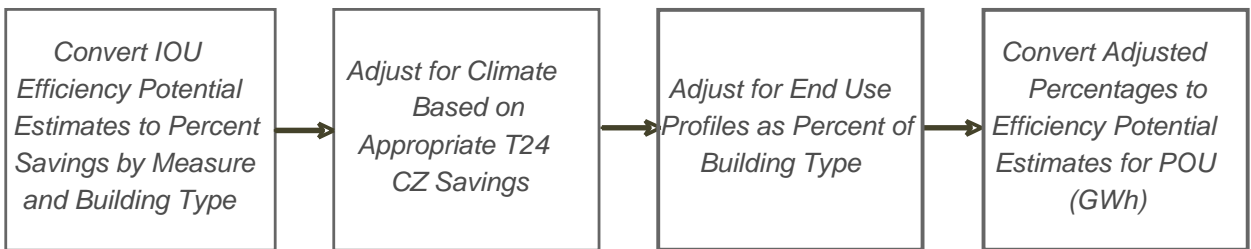
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<sup>7</sup> Importantly, some of the assumptions built into the CEEPS data may overstate the technical potential. For example, some data sources are assumed to be front loaded (all installed in the first year), which add considerably to the year 10 cumulative total. In this case, re-adoption of the measure appeared to be presumed for short-lived measures along with continued counting of energy savings after the first life cycle.

The baseline technical potential was converted to a relative measure so that it could be applied to each POU's unique system. For each building type, RMI divided the baseline technical potential by the baseline sales for the corresponding building type to determine savings as a percentage of consumption. This baseline percentage potential was then adjusted for climate and end use differences between the baseline utility's customers and those of each participating POU. The climate adjustment was achieved by comparing per-unit energy savings for each POU's specific climate zone to the per-unit savings for the baseline utility, for each measure.<sup>8</sup>

For instance, due to climate differences that affect technology usage patterns, the per-unit savings for an air conditioner in a particularly hot climate zone may occasionally differ from the per-unit average savings for the baseline utility. The end use adjustment was achieved by comparing the relative end use composition for each POU to that of the baseline utility.<sup>9</sup> Once these adjustments were made, the percentage savings was multiplied by each POU's forecasted sales to the relevant building type to determine its technical potential. These steps are summarized in Figure 1.

**Figure 1. Overview of Methodology for Technical Energy Savings Potential**



*Technical Potential: Demand*

As in the energy potential analysis, the baseline technical demand potential was converted to a relative measure so that it could be applied to each POU's system. First, for each measure, the average kW saved per unit was divided by the kWh saved per unit.<sup>10</sup> The resultant kW per kWh saved was then multiplied

<sup>8</sup> A "unit" refers to a unit of a given efficiency measure (such as one light bulb or one square foot of attic insulation). The adjustment factor was calculated by dividing the per-unit savings for the appropriate climate zone by that of the baseline utility.

<sup>9</sup> Baseline residential characteristics are derived from Appendix H of the California Statewide Residential Sector Energy Efficiency Potential Study. Baseline commercial characteristics are derived from the California Commercial End-Use Survey, Table 9-2.

<sup>10</sup> Average kW saved per unit is calculated by dividing annual kWh savings per unit by 8760.

by each POU's technical energy savings potential to determine the average kW savings for each measure. The average kW savings was then multiplied by a peak factor<sup>11</sup> to determine peak reduction potential.

## New Construction

### *Technical Potential: Energy*

For new construction, the CEEPS report provided technical potential for packages of measures, rather than for individual technologies. The electricity savings potential per home (residential) or per square foot (commercial) was multiplied by the number of new homes or square feet forecasted, respectively, to be built in a given year. RMI derived this forecast of new homes and new commercial space by dividing the portion of annual load attributable to new construction by the average annual electricity consumption per home or square foot.<sup>12</sup> When the portion of load that is new construction was not provided specifically by the POU, RMI used a default assumption of 50 percent. The resultant annual electricity savings were then adjusted by comparing the relative annual energy consumed by HVAC and water heating for each POU to that of the baseline.

### *Technical Potential: Demand*

To determine peak demand reduction potential, the average kW saved per home or per square foot of commercial space was first multiplied by the number of new homes or square feet forecasted, respectively, to be built in a given year. The resultant annual average kW savings were then adjusted by comparing the relative annual energy consumed by HVAC and water heating for each POU to that of the baseline. In the final step, the adjusted average kW savings were multiplied by a peak factor (provided in the CEEPS appendices for each building type) to determine peak reduction potential.

## II. Industrial

The CEEPS report provided outputs for conventional industries. For existing facilities, the technical potential was reported at the end use level, rather than at the measure level. However, new construction results were provided at the measure level.

RMI also developed a separate module to forecast efficiency potential for both existing and new “high-tech” facilities, such as data centers, semiconductor

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<sup>11</sup> Peak factors were determined by Itron in the CEEPS appendix as a ratio of peak demand impact to average demand impact. Peak factors varied by region.

<sup>12</sup> New construction is defined as all buildings constructed after 2006.



manufacturers, and labs. These facilities were not covered in the CEEPS report. This module was based upon a variety of sources, which are discussed in further detail later in this section.

The methodology for each portion of the industrial sector varied based upon the nature of the data available. The following discussion is therefore organized with a different section for each of the three modules in the technical potential model: existing conventional facilities, new conventional facilities, and high-tech facilities.

### Conventional Industries: Existing Facilities

#### *Technical Potential: Energy*

For existing facilities, the CEEPS study only allowed for modeling of savings potential at the end use level, rather than at the measure level. Furthermore, climate adjustments were not possible, as savings potential was not available by climate zone. Otherwise, the method for estimating energy efficiency potential was the same as for residential and commercial existing construction. The baseline technical potential was converted to a relative measure so that it could be applied to each POU's system. This was done by dividing the baseline technical potential by baseline sales for the applicable industry to determine savings as a percentage of consumption for that industry. The model then adjusts for potential differences in end use consumption within each industry between the baseline utility's customers and those of each participating POU.<sup>13</sup> In the final step, the percentage savings is multiplied by each POU's forecasted sales to the relevant industry to determine its technical potential.

#### *Technical Potential: Demand*

As in the energy potential analysis, the baseline technical demand potential was converted to a relative measure so that it could be applied to each POU's system. First, the total average kW reduction potential was divided by the total kWh savings potential. The resultant kW per kWh saved was then multiplied by each POU's technical energy savings potential to determine average kW savings. Given the relatively constant usage patterns inherent in most industrial processes, the peak reduction was assumed to be the same as the average kW savings.

### Conventional Industries: New Construction

The CEEPS report limited the scope of its new facilities analysis based on expected new construction patterns for the IOUs. For this study, only refrigerated warehouses and electronics facilities were modeled. Though new refrigerated warehouses were included in the CEEPS data set for industrial new construction, existing refrigerated warehouses were part of the CEEPS data set

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<sup>13</sup> Baseline industrial characteristics were derived from the CEEPS file Industrial Outputs.xls.

for existing commercial buildings. For the sake of consistency, RMI grouped all of the refrigerated warehouse results (both existing and new facilities) in the commercial model outputs. Though it was necessary to model technical potential for new refrigerated warehouses together with new electronics facilities, new refrigerated warehouses were moved to the commercial calculations in the cost-effectiveness model.

#### *Technical Potential: Energy*

The CEEPS report provided energy savings potential on a relative basis (kW savings per MWh consumed) for each measure, thereby eliminating the need for the RMI model to calculate a relative savings potential. The model multiplied this value by the forecasted new construction energy consumption for each facility to determine technical energy savings potential for each measure.

#### *Technical Potential: Demand*

First, the average kW saved per MWh was divided by the kWh saved per MWh. The resultant kW per kWh saved was then multiplied by each POU's technical energy savings potential to determine average kW savings. The average kW savings was then multiplied by a peak factor (provided in the CEEPS appendices for each end use) to determine peak reduction potential.

#### High-Tech Industries: Existing and New Facilities

For the purposes of this analysis, high-tech industries include data centers, semiconductor manufacturers, and laboratories. The CEEPS report did not specifically address data centers or labs, and only specifically addressed semiconductor manufacturers for new construction. RMI therefore conducted supplemental analysis on high-tech efficiency measures and potential. This section summarizes that analysis.

#### *Technical Potential: Energy*

RMI's estimate of technical potential for high-tech industries was based on a number of sources, summarized in Table 5:

**Table 5. Sources Used to Develop Potential Estimates for the High Tech Sector**

Source	Data
Pacific Gas & Electric (PG&E) Design Guidelines Sourcebook (Rumsey Engineers)	Data Center efficiency measures
RMI personal conversation with Carl McDonnell at Silicon Valley Power	Data Center efficiency measures
CEEPS Industrial New Construction Methodology & Asset Inputs, Appendix Q	Semiconductor Manufacturer, Lab efficiency measures
Silicon Valley Power -commissioned energy audits	Semiconductor Manufacturer efficiency measures
EPA's 2003 "Laboratories for the 21 <sup>st</sup> Century: Energy Analysis"	Lab baseline energy consumption breakdown Semiconductor baseline energy consumption breakdown
Lawrence Berkeley Lab's "Data Center Energy End Use Breakdown"	Data Center baseline energy consumption breakdown

Due to the lack of detailed and consistent source data regarding high-tech efficiency potential, RMI attempted to identify the subset of measures that: 1) affect the largest end-uses, or 2) are applicable to any type of industry (i.e., lighting retrofits), rather than developing a comprehensive list of measures.

For each measure identified, RMI used the sources listed in Table 5 to estimate the percent savings over baseline for each type of high-tech industry, for the particular end use affected by the measure. An estimate was then made of the applicability of each measure to the high-tech industry in question. That is, can the particular measure be installed at all customer sites within each category, or only a portion? Finally, additive potential was calculated for each end use. That is, care was taken to avoid double counting the impacts of partially redundant measures. These metrics were combined with the baseline energy consumption breakdown by end use to determine the total technical potential of each measure as a percent of total system consumption.

Finally, each measure was defined as retrofit, replace-on-burnout, or new construction measure. This determination was made based on the above source documents as well as RMI's past experience with high-tech industries.

*Technical Potential: Demand*

The source documents used to develop the estimates of energy efficiency potential do not, by and large, contain estimates of peak demand reductions in addition to energy reductions. Given the relatively flat usage patterns inherent in

industrial processes, the peak reduction was assumed to be the same as the average kW savings.

#### ***D. Cost-Effective Potential***

Utility analysts use a variety of tests to judge the effects of any particular utility program. Each of them is designed to identify the relative costs and benefits to a set of players involved in the transaction. For example, the participant cost test (PCT) is used to examine cost effectiveness from the perspective of utility efficiency program participants, while the rate impact measure (RIM) test examines the impact for all utility customers or ratepayers. RMI’s efficiency model performs four cost tests for each measure under consideration. These tests are summarized in Table 6. The total resource cost (TRC) test was used to determine total cost-effective potential.

For the residential and commercial sectors, all measures were evaluated based on the ability of each measure to pass the TRC test. These calculations evaluated the total benefits and the total costs for the full life of each measure. The methodology for the industrial sector was altered slightly based upon the need to evaluate efficiency potential at the end-use level rather than the measure level. This is addressed in further detail in the Cost of Technology section. A discussion of the various components included in the four cost tests.

**Table 6. Description of Cost Tests Used in the Cost Effectiveness Potential Model**

<b>Name of Test</b>	<b>What it Measures</b>	<b>Costs</b>	<b>Benefits</b>
Participant Cost (PCT)	Are expenditures lowered for program participants?	Cost of technology, after incentives (rebates)	Bill savings
Program Administrator (Utility) Cost (PAC)	Are utility revenue requirements lowered?	Incentive paid to customer; marketing, EM&V, admin costs	Avoided energy and capacity costs
Rate Impact Measure (RIM)	Are utility rates lowered?	Incentive paid to customer; lost revenues; marketing, EM&V, admin costs	Avoided energy and capacity costs
Total Resource Cost (TRC)	Are total customer expenditures lowered?	Cost of technology; marketing, EM&V, admin costs	Avoided energy and capacity costs

#### **Avoided Energy Costs**

Each POU had the opportunity to use its own avoided energy costs. If this data was unavailable, RMI substituted the forecasted avoided energy costs for the IOU specified by each participant. The annual forecasted avoided costs from

2007-2026<sup>14</sup> were required for each time-of-use (TOU) period (e.g., summer peak, summer off-peak, summer partial peak, winter partial peak, winter off-peak). A weighted average avoided cost was developed for each year based upon the TOU load shape associated with the end use targeted by each measure.<sup>15</sup> After calculating the annual avoided cost associated with each measure, this stream of future costs was converted into a single “lifecycle” avoided cost over the life of the measure, based upon its net present value. This lifecycle avoided cost was then multiplied by the total kWh saved over the life of the measure to determine the total avoided energy costs over the life of the measure.

### Avoided Capacity Costs

Each POU also had the opportunity to use its own avoided capacity costs. If POUs did not provide this information, the avoided capacity cost was entered as zero. Avoided capacity costs were embedded in the avoided energy costs for each proxy IOU.

The stream of future avoided capacity costs was converted into a single “lifecycle” avoided capacity cost, based upon its net present value. This lifecycle avoided cost was then multiplied by the measure’s peak demand reduction potential to determine the total avoided capacity costs over the life of the measure.

### Bill Reduction

The participating customer’s bill reduction was determined using the forecasted rates for each of the three major customer classes – residential, commercial, and industrial. The calculations were used in the PCT and RIM. Residential rates were used to evaluate all residential measures, commercial rates were used to evaluate all commercial measures, and industrial rates were used to evaluate all industrial measures. The stream of future rates for the relevant customer class was converted into a single “lifecycle” rate, based upon its net present value. The customer discount rate was applied to PCT calculations, and the POU discount rate was applied to RIM calculations. This lifecycle rate was then multiplied by the total kWh saved over the life of the measure to determine the total bill reduction over the life of the measure. *This bill reduction is not a component of the TRC test and therefore does not affect the cost-effective efficiency potential.*

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<sup>14</sup> The model uses avoided costs and customer rates for the next 20 years rather than just the 10-year study period. This is because each measure’s cost-effectiveness is evaluated over the full life of the measure. The maximum measure life in this study is 20 years.

<sup>15</sup> A TOU load shape provides the percentage of annual energy consumption that occurs during each TOU period.

## Measure Cost or Cost of Technology

### Residential and Commercial

The cost of the technology or measure being considered, also known as the gross participant cost, represents the incremental capital cost of one unit of a given measure (i.e., a light bulb or a square foot of attic insulation).<sup>16</sup> These costs were included in the CEEPS appendices. New construction measures were bundled together as packages that save both electricity and natural gas. In these instances, entire packages – rather than individual measures – were evaluated using the cost test. To enable a fair evaluation of the cost to save electricity, the cost of the package was adjusted based upon the proportion of total BTUs saved that represents electricity savings.

### Industrial

For industrial efficiency, additive technical potential was only available for entire end uses, rather than for specific measures within each end use.<sup>17</sup> The cost-effective potential was therefore also evaluated at an end-use level, rather than at the measure level. Furthermore, cost data for the industrial sector was only available on a levelized (\$ per kWh saved) basis.<sup>18</sup> To determine the total incremental capital costs for each end use, the levelized costs were unlevelized. In other words, they were converted into net present value, assuming a 5% discount rate and a measure life of 20 years.

### Incentive Paid to Customer

The incentive paid to the customer represents the rebate that the POU will provide to offset the cost of the technology. This value was applied to the PCT, PAC, and RIM calculations. RMI calculated the incentive as a percentage of the total technology cost. The default percentage was assumed to be 50% of the incremental technology cost, though the model allows users to alter this

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<sup>16</sup> The cost of technology does not include direct installation costs.

<sup>17</sup> Non-additive potential reflects the potential savings of a measure when implemented in isolation. Given that measures are usually implemented in combination with several other measures, it is more accurate to evaluate the additive potential, which adjusts for interaction effects. While the CEEPS data provided additive potential at the measure level for the residential and commercial sectors, the industrial measure-level data was non-additive. However, the CEEPS data did provide additive potential for each industrial end use, and this data set was chosen to more accurately reflect the actual energy and demand savings potential.

<sup>18</sup> Levelized cost data was provided for each measure in the non-additive data set. A weighted average of the levelized costs of measures associated with each end use was calculated to determine a levelized cost for each industrial end use.

percentage if desired. *This rebate is not a component of the TRC test and therefore does not affect the cost-effective efficiency potential.*

### Marketing, EM&V, and Administration Costs

Overhead devoted to efficiency programs can vary considerably by utility. For this model, the costs were calculated as a function of the total kWh saved over the life of the measure. The cost per lifecycle kWh was estimated initially by RMI based upon the total marketing, EM&V, and administration costs and the total lifecycle kWh saved as reported by each POU in the SB 1037 report.<sup>19</sup> The model allows users to alter this cost per lifecycle kWh if desired.

### ***E. Feasible Potential***

AB 2021 requires all POUs to acquire “all available energy efficiency and demand reduction resources that are cost-effective, reliable, and feasible.” Given the diversity of the POU electric systems (including but not limited to: local demographics, age and condition of building stock, saturation of previously installed energy efficiency measures, economic growth, rate of expansion and new construction, and customer payback expectations), the implementation of all cost-effective measures identified in the RMI study would not be feasible or achievable. Therefore, each POU established feasible energy efficiency and demand reduction targets based on the results of the RMI study and local knowledge of their respective service areas.

### Feasible Scenarios

To help utilities set feasible energy efficiency and demand reduction targets, RMI modeled the following scenarios:

- ***Scenario 1***—assumed that the historical incremental percent per year reduction in load is maintained over the study period. This scenario is considered to be the lower bound of feasible potential. This scenario is based upon the annual spending and savings reported for the fiscal year 2005-06 in the SB 1037 report. To determine future energy savings, the reported 2005-06 savings were first divided by the baseline annual consumption to determine the incremental percentage of total consumption saved per year. This percentage was then applied to the forecasted system consumption to determine annual energy savings.

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<sup>19</sup> If this data was unavailable in the SB 1037 report, RMI applied the all-POU average of \$0.01/lifecycle kWh. RMI capped values at \$0.03. However, the final determination for this value was left to each POU.

- **Scenario 2**—suggested a utility feasible percentage assuming that each POU could implement 50% of the total cost-effective measures identified in the cost-effective model.
- **Scenario 3**—suggested a utility feasible percentage assuming that each POU could implement 80% of the total cost-effective measures identified in the cost-effective model.

### POU Specified Targets

POUs were provided a number of options in setting annual energy efficiency targets, these included:

- **Option 1** – accept one of the targets developed by the RMI model described in Scenarios 1, 2, and 3 above.
- **Option 2** – adjust the unit inputs in the RMI model to arrive at a per measure potential, taking into consideration local market conditions (including known measure penetration levels). POUs following this option specified number of units of each measure that passed the TRC in the RMI model to arrive at a feasible quantity of measures installed per year. The POU-specified annual energy and demand savings are calculated by multiplying the feasible units by the per-unit energy or demand savings.
- **Option 3** – Set an annual target based on a combination of factors, including the RMI Scenario 1, 2, and 3 results, existing State energy efficiency goals, and POU knowledge of local markets and conditions. POUs following this option had concerns that while the RMI model may do a good job of applying the CEEPS market potential data to POU territories, the data and methodology is limited in its use for determining program-specific energy efficiency goals on the local level<sup>20</sup>. With this in mind, POUs following this option set reasonable, but aggressive program targets. These targets are based on local market knowledge and take into consideration existing cost-effective program offerings and previous program year successes, and how these offerings could be expanded and/or supplemented to meet targets.

The following list is illustrative of the types of adjustments that were made by POUs setting feasible targets using Option 2 or 3 above:

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<sup>20</sup> We will not attempt to revisit all the methodology issues as they are well documented in Itron's presentations on April 20, 2007 to the CEC and on May 4, 2007 to the CPUC. However to summarize, market potential studies can only directly imply the relative market potential for energy efficiency. Identifying an energy efficiency program's potential requires further analysis to determine what savings potential can realistically be attributed to the program.



- The model favors the wide distribution of compact fluorescent lamps (CFLs) because of their cost-effectiveness and ease of installation; however, many POU's have already deployed a substantial number of CFLs within their service territories, and the number of additional CFLs recommended in the RMI model would not be feasible in some areas.
- Non-summer peaking utilities (generally along the coastal areas) needed to adjust for model bias towards reducing summer peak. Typically this involved adjusting the potential downward for air conditioning measures.
- Measure potential was assessed against recent program performance and adjusted to accurately reflect the potential that has already been realized.
- The model favors pool pump measures and needed some adjustments to accurately reflect the territory baseline stock and potential.
- Certain measures identified in the cost effective potential have relatively poor chance of being installed due to regional-specific barriers to implementation. Adjustments were made to accurately reflect each measure's true potential, based on the expertise of utility program staff.
- Lack of industrial diversity (or relatively few industrial customers) for many POU's creates significant barriers to further penetrating the industrial market beyond what has already been accomplished.
- Cost-effective potential includes measures with high local market penetration rates. Some POU's assert that these measures should not be subsidized through utility program interventions. While the measure potential exists within the utility service territory, ultimate savings are not necessarily attributed to the program and therefore removed from some utility-specified program potential estimates.
- Economic considerations (recession, expansion, homogeneousness, etc) were taken into account and adjusted for as needed.

### III. Energy Efficiency and Demand Reduction Targets

This section provides energy efficiency and demand reduction targets by specific utility. As shown in Table 7, the 35 POUs in this study expect to reduce their annual consumption of electricity by approximately 2,089 gigawatt hours over the ten-year period ending in 2016. This represents a savings of nearly eight percent over the period.

**Table 7. Energy Efficiency Targets by POU 2007-2016**

Publicly Owned Utility	Cumulative Energy Reduction Targets (MWh)										10-yr Total Energy Reduction Target (MWh)	10-yr Total Forecasted Electrical Consumption (MWh)	Average Annual Energy Reduction Target (%/yr)
	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016			
Alameda	760	1,521	2,281	3,042	3,802	4,563	5,323	6,084	6,844	7,605	7,605	4,440,700	0.17%
Anaheim	15,897	32,014	48,247	64,839	81,514	98,470	115,562	132,722	149,952	167,682	167,682	27,814,949	0.60%
Azusa	2,084	4,168	6,252	8,336	10,420	12,504	14,588	16,672	18,756	20,840	20,840	2,729,194	0.76%
Banning	873	1,747	2,620	3,494	4,367	5,240	6,114	6,987	7,861	8,734	8,734	1,810,995	0.48%
Biggs	106	213	319	425	532	638	744	850	957	1,063	1,063	180,385	0.59%
Burbank	11,307	22,615	33,922	45,229	56,536	67,844	79,151	90,458	101,765	113,073	113,073	11,862,716	0.95%
Colton	2,625	5,251	7,876	10,501	13,127	15,752	18,378	21,003	23,628	26,254	26,254	4,293,194	0.61%
Corona	467	934	1,401	1,867	2,334	2,801	3,268	3,735	4,202	4,669	4,669	783,530	0.60%
Glendale	11,362	22,724	34,086	45,448	56,810	68,172	79,534	90,896	102,258	113,620	113,620	11,380,875	1.00%
Gridley	92	183	275	367	459	550	642	734	825	917	917	436,246	0.21%
Healdsburg	198	397	595	794	992	1,190	1,389	1,587	1,786	1,984	1,984	817,691	0.24%
Hercules	136	273	409	546	682	818	955	1,091	1,228	1,364	1,364	173,632	0.79%
IID *	45,067	90,133	135,200	180,266	225,333	270,400	315,466	360,533	405,600	450,666	450,666	41,869,219	1.08%
Industry	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
LMUD	733	1,467	2,200	2,933	3,666	4,400	5,133	5,866	6,600	7,333	7,333	1,562,046	0.47%
Lodi	2,000	4,000	6,000	8,001	10,001	12,001	14,001	16,001	18,001	20,001	20,001	5,162,129	0.39%
Lompoc	1,121	2,242	3,363	4,484	5,605	6,726	7,847	8,968	10,089	11,210	11,210	1,485,125	0.75%
Merced	3,619	7,239	10,858	14,478	18,097	21,717	25,336	28,956	32,575	36,195	36,195	4,932,128	0.73%
MID	13,856	27,711	41,567	55,423	69,279	83,134	96,990	110,846	124,702	138,557	138,557	30,943,438	0.45%
Moreno Valley	822	1,644	2,466	3,289	4,111	4,933	5,755	6,577	7,399	8,221	8,221	741,070	1.11%
Needles	817	1,635	2,452	3,269	4,086	4,904	5,721	6,538	7,356	8,173	8,173	726,509	1.12%
Pasadena	5,000	15,000	28,500	45,500	68,127	90,753	113,380	136,006	158,633	181,260	181,260	13,661,510	1.33%
Pittsburgh Power/ Island Energy	178	355	533	711	888	1,066	1,244	1,421	1,599	1,777	1,777	195,394	0.91%
Port of Oakland	884	1,767	2,651	3,535	4,418	5,302	6,186	7,070	7,953	8,837	8,837	946,210	0.93%
Plumas Sierra	621	1,242	1,863	2,483	3,104	3,725	4,346	4,967	5,588	6,209	6,209	1,871,636	0.33%
Rancho Cucamonga	448	896	1,343	1,791	2,239	2,687	3,135	3,582	4,030	4,478	4,478	751,700	0.60%
Riverside	22,210	44,850	67,910	91,320	115,170	139,420	164,040	189,060	214,510	240,380	240,380	24,038,000	1.00%
Roseville	8,716	17,432	26,149	34,865	43,581	52,297	61,014	69,730	78,446	87,162	87,162	14,182,047	0.61%
Silicon Valley Power	25,762	51,524	77,286	103,048	128,810	154,572	180,334	206,096	231,858	257,620	257,620	31,309,698	0.82%
Shasta Lake	129	258	388	517	646	775	905	1,034	1,163	1,292	1,292	787,736	0.16%
Truckee Donner	1,001	2,003	3,004	4,005	5,007	6,008	7,009	8,011	9,012	10,014	10,014	1,691,601	0.59%
TID	7,824	15,095	26,287	53,177	80,686	102,028	116,458	124,206	132,045	139,990	139,990	21,594,025	0.65%
Trinity	0	0	0	0	0	0	0	0	0	0	0	1,008,289	0.00%
Ukiah	198	396	594	792	990	1,188	1,386	1,584	1,781	1,979	1,979	1,270,214	0.16%
Vernon	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
<b>Total</b>	<b>186,916</b>	<b>378,928</b>	<b>578,898</b>	<b>798,775</b>	<b>1,025,420</b>	<b>1,246,579</b>	<b>1,461,332</b>	<b>1,669,872</b>	<b>1,879,003</b>	<b>2,089,159</b>	<b>2,089,159</b>	<b>267,453,831</b>	<b>0.78%</b>

\* Imperial figures are for 2008 through 2017

Using a slightly different metric for evaluation, the savings noted in Table 7 account for a significant reduction in load growth among the utilities participating in this analysis. Roughly one half of load over the next ten years is expected to be offset through via implementation of energy efficiency measures. In some instances, it is anticipated that all load growth will be met via energy efficiency.

Table 8 takes a slightly different perspective, analyzing the extent to which peak demand can be reduced via utility energy efficiency programs. From this analysis, the 35 POUs participating in this project estimate a peak demand savings of 274 megawatts over the ten-year period, a reduction of roughly four percent, compared to peak demand in the absence of such programs.

**Table 8. Energy Efficiency Demand Reduction Targets by POU 2007-2016**

Publicly Owned Utility	Cumulative Demand Reduction Targets (MW)										Total Demand Reduction Target (MW)	Average Forecasted Demand (MW)	Average Annual Demand Reduction Target (%/yr)	
	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016				
Alameda	0.1	0.2	0.3	0.4	0.5	0.5	0.6	0.7	0.8	0.9	0.9	76	0.12%	
Anaheim	3.3	6.7	10.1	13.6	17.1	20.6	24.3	27.9	31.5	35.2	35.2	584	0.60%	
Azusa	0.2	0.5	0.7	1.0	1.2	1.4	1.7	1.9	2.2	2.4	2.4	68	0.35%	
Banning	0.1	0.2	0.4	0.5	0.6	0.7	0.9	1.0	1.1	1.2	1.2	56	0.22%	
Biggs	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	4	0.36%	
Burbank	2.4	4.7	7.1	9.5	11.9	14.4	16.8	19.3	21.7	24.2	24.2	303	0.80%	
Colton	0.3	0.6	0.8	1.1	1.4	1.7	2.0	2.2	2.5	2.8	2.8	103	0.27%	
Corona	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.5	0.6	0.6	16	0.36%	
Glendale	1.3	2.6	3.9	5.2	6.5	7.8	9.1	10.4	11.7	13.0	13.0	336	0.39%	
Gridley	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	14	0.08%	
Healdsburg	0.0	0.0	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	22	0.10%	
Hercules	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	3	0.58%	
IID *	6.1	12.2	18.3	24.4	30.5	36.6	42.7	48.8	55.0	61.1	61.1	1,207	0.51%	
Industry	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
LMUD	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.7	0.8	0.9	0.9	28	0.33%	
Lodi	0.2	0.5	0.7	1.0	1.2	1.5	1.7	2.0	2.2	2.5	2.5	146	0.17%	
Lompoc	0.1	0.3	0.4	0.5	0.6	0.8	0.9	1.0	1.1	1.3	1.3	27	0.47%	
Merced	0.4	0.9	1.3	1.8	2.2	2.7	3.1	3.6	4.0	4.5	4.5	99	0.45%	
MID	1.6	3.2	4.8	6.3	7.9	9.5	11.1	12.7	14.3	15.9	15.9	797	0.20%	
Moreno Valley	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.1	1.1	26	0.40%	
Needles	0.1	0.2	0.4	0.5	0.6	0.7	0.8	1.0	1.1	1.2	1.2	23	0.52%	
Pasadena	0.6	1.8	3.4	5.5	8.2	10.9	13.6	16.3	19.0	21.7	21.7	321	0.68%	
Pittsburgh Power/ Island Energy	0.0	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.3	0.3	5	0.64%	
Port of Oakland	0.1	0.2	0.3	0.4	0.5	0.7	0.8	0.9	1.0	1.1	1.1	15	0.73%	
Plumas Sierra	0.1	0.1	0.2	0.3	0.4	0.4	0.5	0.6	0.6	0.7	0.7	33	0.22%	
Rancho Cucamonga	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.4	0.5	0.6	0.6	16	0.36%	
Riverside	2.2	4.5	6.7	8.9	11.1	13.4	15.6	17.8	20.0	22.3	22.3	609	0.37%	
Roseville	1.1	2.1	3.2	4.2	5.3	6.3	7.4	8.4	9.5	10.5	10.5	371	0.28%	
Silicon Valley Power	3.0	6.0	8.9	11.9	14.9	17.9	20.9	23.9	26.8	29.8	29.8	509	0.59%	
Shasta Lake	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	19	0.08%	
Truckee Donner	0.1	0.2	0.3	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.1	41	0.28%	
TID	1.0	2.0	3.0	6.0	9.0	12.0	14.0	15.0	15.0	16.0	16.0	523	0.31%	
Trinity	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18	0.00%	
Ukiah	0.0	0.0	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	39	0.05%	
Vernon	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
<b>Total</b>	<b>25.0</b>	<b>50.6</b>	<b>76.6</b>	<b>105.2</b>	<b>134.5</b>	<b>163.9</b>	<b>192.3</b>	<b>219.8</b>	<b>246.3</b>	<b>273.8</b>	<b>273.8</b>	<b>6458</b>	<b>0.42%</b>	

\* Imperial figures are for 2008 through 2017

## IV: Conclusion

CMUA views this report as the beginning of an important dialogue to assist state policymakers in developing a reliable assessment of energy efficiency throughout the state. With this report, CMUA and its public power partners believe a realistic assessment of energy efficiency potential moves the debate in the appropriate direction. That being said, there are numerous issues that are currently being addressed not only within the public power community, but also at the CPUC and the CEC that deserve more discussion.

Many of these considerations will have a critical impact on the development of targets beyond 2007. From a public power perspective, state policymakers may want to consider developing additional tools that will enhance the reliability of future forecasts. These tools should take into account a variety of factors:

- Previous market potential estimates (for upper boundary limits),
- Actual performance of programs,
- Lessons learned while utilities ramp up programs to reach targets,
- Lessons learned from IOU efforts,
- Potential for new and emerging technologies not previously identified,
- Code changes and their effects on program targets.

As vertically integrated utilities, consideration should be given to the overall energy efficiency performance of POUs. When operational improvements on the distribution side are considered, the energy savings potential is greatly increased. We continue to recommend that all energy efficiency savings, both demand and supply, be reported and tracked toward meeting statewide goals for energy efficiency.

As noted earlier, with the exception of Silicon Valley Power, which has already adopted its efficiency targets, the estimates provided by each utility are preliminary in nature and will be finalized by each utility's local governing board during the next three months. We look forward to discussing these results in more detail at CEC workshops scheduled for August 9 and 27, respectively.

**Appendix A:**  
**Individual Utility Data Sets**

# 6/30/07 Preliminary Target: Pending Approval of Governing Board

## Alameda Power & Telecom

		2007	2008	2009	2010	2011	2012	2013	2014	2015	2016		
Technical Energy Efficiency Potential	Energy (MWh)	<b>System Total</b>	<b>51,885</b>	<b>59,042</b>	<b>63,077</b>	<b>67,370</b>	<b>72,828</b>	<b>76,628</b>	<b>79,694</b>	<b>82,574</b>	<b>85,549</b>	<b>89,404</b>	
		Residential	26,882	28,853	29,990	30,878	31,787	32,777	33,790	34,783	35,741	37,888	
		Commercial	25,004	30,189	33,087	36,491	41,041	43,851	45,904	47,791	49,808	51,516	
		Conventional Industrial	0	0	0	0	0	0	0	0	0	0	0
		Data Centers	0	0	0	0	0	0	0	0	0	0	0
		Semiconductor Manufacturers	0	0	0	0	0	0	0	0	0	0	0
		Labs	0	0	0	0	0	0	0	0	0	0	0
		<b>System Total</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>8</b>	<b>9</b>	<b>9</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>11</b>
		Residential	3	3	3	3	3	3	3	3	3	4	4
		Commercial	3	4	5	5	6	6	6	6	6	7	7
Conventional Industrial	0	0	0	0	0	0	0	0	0	0	0		
Data Centers	0	0	0	0	0	0	0	0	0	0	0		
Semiconductor Manufacturers	0	0	0	0	0	0	0	0	0	0	0		
Labs	0	0	0	0	0	0	0	0	0	0	0		
Cost-Effective Energy Efficiency Potential	Energy (MWh)	<b>System Total</b>	<b>41,312</b>	<b>46,187</b>	<b>49,026</b>	<b>52,046</b>	<b>55,733</b>	<b>58,470</b>	<b>60,774</b>	<b>62,964</b>	<b>65,176</b>	<b>68,379</b>	
		Residential	21,067	22,683	23,560	24,247	24,935	25,682	26,443	27,187	27,908	29,773	
		Commercial	20,245	23,504	25,466	27,799	30,798	32,788	34,331	35,778	37,268	38,606	
		Conventional Industrial	0	0	0	0	0	0	0	0	0	0	0
		Data Centers	0	0	0	0	0	0	0	0	0	0	0
		Semiconductor Manufacturers	0	0	0	0	0	0	0	0	0	0	0
		Labs	0	0	0	0	0	0	0	0	0	0	0
		<b>System Total</b>	<b>5</b>	<b>5</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>8</b>
		Residential	2	2	2	2	2	2	3	3	3	3	3
		Commercial	3	3	3	4	4	4	4	5	5	5	5
Conventional Industrial	0	0	0	0	0	0	0	0	0	0	0		
Data Centers	0	0	0	0	0	0	0	0	0	0	0		
Semiconductor Manufacturers	0	0	0	0	0	0	0	0	0	0	0		
Labs	0	0	0	0	0	0	0	0	0	0	0		
Feasible Targets	Energy (MWh)	System Total	760	1,521	2,281	3,042	3,802	4,563	5,323	6,084	6,844	7,605	
	Demand (MW)	System Total	0.1	0.2	0.3	0.4	0.5	0.5	0.6	0.7	0.8	0.9	
Impact on Forecasted Consumption and Demand	Energy (MWh)	<b>Baseline Energy Forecast</b>	<b>407,300</b>	<b>420,200</b>	<b>425,500</b>	<b>433,600</b>	<b>445,700</b>	<b>452,900</b>	<b>457,900</b>	<b>462,000</b>	<b>465,900</b>	<b>469,700</b>	
		After Feasible Targets	406,540	418,679	423,219	430,558	441,898	448,337	452,577	455,916	459,056	462,095	
		After All Cost-Effective	365,988	374,013	376,474	381,554	389,967	394,430	397,126	399,036	400,724	401,321	
		After Technical	355,415	361,158	362,423	366,230	372,872	376,272	378,206	379,426	380,351	380,296	
	Demand (MW)	<b>Baseline Demand Forecast</b>	<b>70</b>	<b>72</b>	<b>72</b>	<b>74</b>	<b>76</b>	<b>77</b>	<b>78</b>	<b>79</b>	<b>79</b>	<b>79</b>	<b>80</b>
		After Feasible Targets	70	72	72	74	76	76	77	78	78	78	79
Average Annual Impact on Forecasted Consumption and Demand	Energy (MWh)	Average Annual <u>Technical</u> Potential	2.01%										
		Average Annual <u>Cost-Effective</u> Potential	1.54%										
Average Annual <u>Feasible</u> Targets		0.17%											
Demand (MW)	Average Annual <u>Technical</u> Potential	1.42%											
	Average Annual <u>Cost-Effective</u> Potential	1.04%											
	Average Annual <u>Feasible</u> Targets	0.12%											

# 6/30/07 Preliminary Target: Pending Approval of Governing Board

## Anaheim Public Utilities

		2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	
<b>Technical Energy Efficiency Potential</b>	Energy (MWh)	<b>System Total</b>	<b>291,105</b>	<b>313,142</b>	<b>329,442</b>	<b>350,530</b>	<b>360,540</b>	<b>378,757</b>	<b>389,534</b>	<b>399,444</b>	<b>409,992</b>	<b>430,783</b>
		Residential	86,544	95,519	101,028	106,054	110,147	114,048	118,042	122,137	126,091	136,078
		Commercial	138,065	150,814	160,728	176,348	181,005	193,887	198,437	202,975	208,292	212,573
		Conventional Industrial	66,496	66,809	67,686	68,129	69,389	70,822	73,055	74,332	75,609	82,132
		Data Centers	0	0	0	0	0	0	0	0	0	0
	Semiconductor Manufacturers	0	0	0	0	0	0	0	0	0	0	0
	Labs	0	0	0	0	0	0	0	0	0	0	0
	Demand (MW)	<b>System Total</b>	<b>36</b>	<b>40</b>	<b>42</b>	<b>45</b>	<b>46</b>	<b>49</b>	<b>50</b>	<b>52</b>	<b>53</b>	<b>56</b>
		Residential	9	10	11	12	12	13	13	14	14	15
		Commercial	20	22	23	25	26	28	29	29	30	31
Conventional Industrial		8	8	8	8	8	8	8	8	9	9	
Data Centers		0	0	0	0	0	0	0	0	0	0	
Semiconductor Manufacturers	0	0	0	0	0	0	0	0	0	0	0	
Labs	0	0	0	0	0	0	0	0	0	0	0	
<b>Cost-Effective Energy Efficiency Potential</b>	Energy (MWh)	<b>System Total</b>	<b>224,808</b>	<b>238,366</b>	<b>248,088</b>	<b>261,499</b>	<b>268,389</b>	<b>279,912</b>	<b>287,385</b>	<b>294,095</b>	<b>300,810</b>	<b>317,446</b>
		Residential	68,513	74,852	78,483	81,791	84,410	86,852	89,323	91,826	94,230	102,195
		Commercial	97,729	104,672	109,991	119,704	122,864	130,689	133,764	136,845	140,031	143,159
		Conventional Industrial	58,566	58,842	59,614	60,005	61,115	62,371	64,298	65,423	66,548	72,092
		Data Centers	0	0	0	0	0	0	0	0	0	0
	Semiconductor Manufacturers	0	0	0	0	0	0	0	0	0	0	0
	Labs	0	0	0	0	0	0	0	0	0	0	0
	Demand (MW)	<b>System Total</b>	<b>26</b>	<b>28</b>	<b>29</b>	<b>31</b>	<b>32</b>	<b>33</b>	<b>34</b>	<b>35</b>	<b>36</b>	<b>38</b>
		Residential	6	7	7	8	8	8	9	9	9	10
		Commercial	13	14	15	16	17	18	18	18	19	19
Conventional Industrial		7	7	7	7	7	7	7	7	8	8	
Data Centers		0	0	0	0	0	0	0	0	0	0	
Semiconductor Manufacturers	0	0	0	0	0	0	0	0	0	0	0	
Labs	0	0	0	0	0	0	0	0	0	0	0	
<b>Feasible Targets</b>	Energy (MWh)	System Total	15,897	32,014	48,247	64,839	81,514	98,470	115,562	132,722	149,952	167,682
	Demand (MW)	System Total	3.3	6.7	10.1	13.6	17.1	20.6	24.3	27.9	31.5	35.2
<b>Impact on Forecasted Consumption and Demand</b>	Energy (MWh)	<b>Baseline Energy Forecast</b>	<b>2,636,957</b>	<b>2,673,451</b>	<b>2,692,696</b>	<b>2,752,352</b>	<b>2,765,997</b>	<b>2,812,572</b>	<b>2,835,224</b>	<b>2,846,571</b>	<b>2,858,113</b>	<b>2,941,017</b>
		After Feasible Targets	2,621,060	2,641,437	2,644,449	2,687,513	2,684,483	2,714,103	2,719,662	2,713,848	2,708,160	2,773,335
		After All Cost-Effective	2,412,149	2,435,085	2,444,608	2,490,853	2,497,608	2,532,661	2,547,839	2,552,476	2,557,303	2,623,571
		After Technical	2,345,852	2,360,308	2,363,254	2,401,821	2,405,457	2,433,816	2,445,689	2,447,127	2,448,120	2,510,234
	Demand (MW)	<b>Baseline Demand Forecast</b>	<b>554</b>	<b>560</b>	<b>567</b>	<b>576</b>	<b>580</b>	<b>589</b>	<b>598</b>	<b>602</b>	<b>606</b>	<b>611</b>
		After Feasible Targets	550	553	556	563	563	568	574	574	575	575
Average Annual Impact on Forecasted Consumption and Demand	Energy (MWh)	Average Annual <u>Technical</u> Potential	1.55%									
		Average Annual <u>Cost-Effective</u> Potential	1.14%									
		Average Annual <u>Feasible</u> Targets	0.60%									
Average Annual Impact on Forecasted Consumption and Demand	Demand (MW)	Average Annual <u>Technical</u> Potential	0.95%									
		Average Annual <u>Cost-Effective</u> Potential	0.65%									
		Average Annual <u>Feasible</u> Targets	0.60%									

## 6/30/07 Preliminary Target: Pending Approval of Governing Board

### Azusa Light & Water

		2007	2008	2009	2010	2011	2012	2013	2014	2015	2016		
<b>Technical Energy Efficiency Potential</b>	Energy (MWh)	<b>System Total</b>	<b>33,262</b>	<b>35,703</b>	<b>37,736</b>	<b>39,408</b>	<b>41,092</b>	<b>42,805</b>	<b>44,547</b>	<b>46,323</b>	<b>48,145</b>	<b>50,561</b>	
		Residential	14,446	15,851	16,806	17,587	18,337	19,095	19,871	20,666	21,456	22,913	
		Commercial	7,040	7,735	8,468	9,008	9,585	10,178	10,776	11,384	12,037	12,612	
		Conventional Industrial	11,776	12,117	12,463	12,814	13,170	13,532	13,899	14,272	14,651	15,036	
		Data Centers	0	0	0	0	0	0	0	0	0	0	0
		Semiconductor Manufacturers	0	0	0	0	0	0	0	0	0	0	0
		Labs	0	0	0	0	0	0	0	0	0	0	0
		<b>System Total</b>	<b>4</b>	<b>4</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>7</b>
		Residential	2	2	2	2	2	2	3	3	3	3	3
		Commercial	1	1	1	1	1	1	2	2	2	2	2
Conventional Industrial	1	1	1	1	2	2	2	2	2	2	2		
Data Centers	0	0	0	0	0	0	0	0	0	0	0		
Semiconductor Manufacturers	0	0	0	0	0	0	0	0	0	0	0		
Labs	0	0	0	0	0	0	0	0	0	0	0		
<b>Cost-Effective Energy Efficiency Potential</b>	Energy (MWh)	<b>System Total</b>	<b>28,011</b>	<b>29,887</b>	<b>31,372</b>	<b>32,656</b>	<b>33,936</b>	<b>35,227</b>	<b>36,538</b>	<b>37,870</b>	<b>39,212</b>	<b>41,198</b>	
		Residential	11,696	12,806	13,492	14,050	14,580	15,110	15,649	16,198	16,738	17,942	
		Commercial	5,602	6,059	6,545	6,953	7,379	7,814	8,252	8,698	9,156	9,590	
		Conventional Industrial	10,713	11,022	11,335	11,653	11,976	12,304	12,636	12,974	13,318	13,666	
		Data Centers	0	0	0	0	0	0	0	0	0	0	0
		Semiconductor Manufacturers	0	0	0	0	0	0	0	0	0	0	0
		Labs	0	0	0	0	0	0	0	0	0	0	0
		<b>System Total</b>	<b>3</b>	<b>3</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>5</b>
		Residential	1	1	1	1	2	2	2	2	2	2	2
		Commercial	1	1	1	1	1	1	1	1	1	1	1
Conventional Industrial	1	1	1	1	1	1	1	1	1	2	2		
Data Centers	0	0	0	0	0	0	0	0	0	0	0		
Semiconductor Manufacturers	0	0	0	0	0	0	0	0	0	0	0		
Labs	0	0	0	0	0	0	0	0	0	0	0		
<b>Feasible Targets</b>	Energy (MWh)	System Total	2,084	4,168	6,252	8,336	10,420	12,504	14,588	16,672	18,756	20,840	
	Demand (MW)	System Total	0.2	0.5	0.7	1.0	1.2	1.4	1.7	1.9	2.2	2.4	
<b>Impact on Forecasted Consumption and Demand</b>	Energy (MWh)	<b>Baseline Energy Forecast</b>	<b>255,000</b>	<b>258,825</b>	<b>262,707</b>	<b>266,648</b>	<b>270,648</b>	<b>274,707</b>	<b>278,828</b>	<b>283,010</b>	<b>287,256</b>	<b>291,564</b>	
		After Feasible Targets	252,916	254,657	256,455	258,312	260,228	262,203	264,240	266,338	268,499	270,724	
		After All Cost-Effective	226,989	228,938	231,335	233,992	236,712	239,480	242,290	245,140	248,044	250,366	
		After Technical	221,738	223,122	224,972	227,240	229,556	231,902	234,281	236,687	239,111	241,004	
	Demand (MW)	<b>Baseline Demand Forecast</b>	<b>64</b>	<b>65</b>	<b>66</b>	<b>67</b>	<b>68</b>	<b>69</b>	<b>70</b>	<b>71</b>	<b>72</b>	<b>73</b>	
		After Feasible Targets	64	64	65	66	67	68	68	69	70	71	
After All Cost-Effective		61	62	62	63	64	65	66	67	68	68		
After Technical	60	60	61	62	63	63	64	65	66	66			
<b>Average Annual Impact on Forecasted Consumption and Demand</b>	Energy (MWh)	Average Annual <u>Technical</u> Potential	1.85%										
		Average Annual <u>Cost-Effective</u> Potential	1.51%										
		Average Annual <u>Feasible</u> Targets	0.76%										
	Demand (MW)	Average Annual <u>Technical</u> Potential	0.96%										
Average Annual <u>Cost-Effective</u> Potential		0.69%											
Average Annual <u>Feasible</u> Targets		0.35%											



## 6/30/07 Preliminary Target: Pending Approval of Governing Board

### Banning Electric Utility

		2007	2008	2009	2010	2011	2012	2013	2014	2015	2016		
<b>Technical Energy Efficiency Potential</b>	Energy (MWh)	<b>System Total</b>	<b>24,533</b>	<b>27,300</b>	<b>30,671</b>	<b>33,729</b>	<b>35,364</b>	<b>37,037</b>	<b>38,743</b>	<b>40,492</b>	<b>42,300</b>	<b>44,810</b>	
		Residential	17,160	19,075	21,069	22,898	24,005	25,134	26,298	27,495	28,701	30,682	
		Commercial	6,138	6,928	8,198	9,314	9,792	10,286	10,777	11,277	11,827	12,302	
		Conventional Industrial	1,234	1,298	1,404	1,518	1,567	1,617	1,668	1,720	1,772	1,825	
		Data Centers	0	0	0	0	0	0	0	0	0	0	
		Semiconductor Manufacturers	0	0	0	0	0	0	0	0	0	0	
		Labs	0	0	0	0	0	0	0	0	0	0	
		<b>System Total</b>	<b>3</b>	<b>4</b>	<b>4</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>
		Residential	2	2	3	3	3	3	3	3	4	4	4
		Commercial	1	1	1	1	1	2	2	2	2	2	2
Conventional Industrial	0	0	0	0	0	0	0	0	0	0	0		
Data Centers	0	0	0	0	0	0	0	0	0	0	0		
Semiconductor Manufacturers	0	0	0	0	0	0	0	0	0	0	0		
Labs	0	0	0	0	0	0	0	0	0	0	0		
<b>Cost-Effective Energy Efficiency Potential</b>	Energy (MWh)	<b>System Total</b>	<b>19,953</b>	<b>22,021</b>	<b>24,398</b>	<b>26,507</b>	<b>27,764</b>	<b>29,052</b>	<b>30,356</b>	<b>31,694</b>	<b>33,085</b>	<b>35,129</b>	
		Residential	13,871	15,312	16,706	17,945	18,795	19,664	20,563	21,489	22,433	24,066	
		Commercial	5,005	5,584	6,486	7,271	7,638	8,017	8,381	8,752	9,157	9,526	
		Conventional Industrial	1,076	1,126	1,206	1,291	1,331	1,371	1,412	1,453	1,495	1,538	
		Data Centers	0	0	0	0	0	0	0	0	0	0	
		Semiconductor Manufacturers	0	0	0	0	0	0	0	0	0	0	
		Labs	0	0	0	0	0	0	0	0	0	0	
		<b>System Total</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>5</b>
		Residential	2	2	2	2	2	2	2	3	3	3	3
		Commercial	1	1	1	1	1	1	1	1	1	1	1
Conventional Industrial	0	0	0	0	0	0	0	0	0	0	0		
Data Centers	0	0	0	0	0	0	0	0	0	0	0		
Semiconductor Manufacturers	0	0	0	0	0	0	0	0	0	0	0		
Labs	0	0	0	0	0	0	0	0	0	0	0		
<b>Feasible Targets</b>	Energy (MWh)	System Total	873	1,747	2,620	3,494	4,367	5,240	6,114	6,987	7,861	8,734	
	Demand (MW)	System Total	0.1	0.2	0.4	0.5	0.6	0.7	0.9	1.0	1.1	1.2	
<b>Impact on Forecasted Consumption and Demand</b>	Energy (MWh)	<b>Baseline Energy Forecast</b>	<b>156,164</b>	<b>160,849</b>	<b>170,500</b>	<b>180,730</b>	<b>183,441</b>	<b>186,192</b>	<b>188,985</b>	<b>191,820</b>	<b>194,697</b>	<b>197,618</b>	
		After Feasible Targets	155,290	159,102	167,880	177,236	179,074	180,952	182,871	184,833	186,837	188,884	
		After All Cost-Effective	136,211	138,828	146,102	154,222	155,677	157,140	158,629	160,125	161,612	162,488	
		After Technical	131,631	133,549	139,829	147,000	148,077	149,155	150,242	151,328	152,397	152,808	
	Demand (MW)	<b>Baseline Demand Forecast</b>	<b>49</b>	<b>50</b>	<b>52</b>	<b>54</b>	<b>56</b>	<b>57</b>	<b>59</b>	<b>61</b>	<b>62</b>	<b>64</b>	
		After Feasible Targets	49	50	51	53	55	56	58	60	61	63	
Average Annual Impact on Forecasted Consumption and Demand	Energy (MWh)	Average Annual <u>Technical</u> Potential	2.47%										
		Average Annual <u>Cost-Effective</u> Potential	1.94%										
		Average Annual <u>Feasible</u> Targets	0.48%										
Average Annual Impact on Forecasted Consumption and Demand	Demand (MW)	Average Annual <u>Technical</u> Potential	1.09%										
		Average Annual <u>Cost-Effective</u> Potential	0.82%										
		Average Annual <u>Feasible</u> Targets	0.22%										

# 6/30/07 Preliminary Target: Pending Approval of Governing Board

## City of Biggs

		2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	
Technical Energy Efficiency Potential	Energy (MWh)	System Total	2,434	2,609	2,705	2,792	2,878	2,970	3,052	3,140	3,227	3,355
		Residential	941	1,045	1,102	1,150	1,195	1,242	1,286	1,333	1,378	1,463
		Commercial	211	246	259	271	284	300	312	325	339	353
		Conventional Industrial	1,281	1,318	1,344	1,371	1,399	1,428	1,455	1,482	1,510	1,539
		Data Centers	0	0	0	0	0	0	0	0	0	0
		Semiconductor Manufacturers	0	0	0	0	0	0	0	0	0	0
		Labs	0	0	0	0	0	0	0	0	0	0
		System Total	0	0	0	0	0	0	0	0	0	0
		Residential	0	0	0	0	0	0	0	0	0	0
		Commercial	0	0	0	0	0	0	0	0	0	0
Conventional Industrial	0	0	0	0	0	0	0	0	0	0		
Data Centers	0	0	0	0	0	0	0	0	0	0		
Semiconductor Manufacturers	0	0	0	0	0	0	0	0	0	0		
Labs	0	0	0	0	0	0	0	0	0	0		
Cost-Effective Energy Efficiency Potential	Energy (MWh)	System Total	2,174	2,318	2,394	2,466	2,536	2,612	2,680	2,752	2,823	2,936
		Residential	759	843	884	919	953	987	1,020	1,054	1,087	1,161
		Commercial	176	200	209	219	230	243	253	264	275	286
		Conventional Industrial	1,240	1,275	1,300	1,327	1,354	1,382	1,407	1,434	1,461	1,489
		Data Centers	0	0	0	0	0	0	0	0	0	0
		Semiconductor Manufacturers	0	0	0	0	0	0	0	0	0	0
		Labs	0	0	0	0	0	0	0	0	0	0
		System Total	0	0	0	0	0	0	0	0	0	0
		Residential	0	0	0	0	0	0	0	0	0	0
		Commercial	0	0	0	0	0	0	0	0	0	0
Conventional Industrial	0	0	0	0	0	0	0	0	0	0		
Data Centers	0	0	0	0	0	0	0	0	0	0		
Semiconductor Manufacturers	0	0	0	0	0	0	0	0	0	0		
Labs	0	0	0	0	0	0	0	0	0	0		
Feasible Targets	Energy (MWh)	System Total	106	213	319	425	532	638	744	850	957	1,063
	Demand (MW)	System Total	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.2
Impact on Forecasted Consumption and Demand	Energy (MWh)	Baseline Energy Forecast	16,974	17,698	17,752	17,874	18,002	18,205	18,268	18,393	18,518	18,701
		After Feasible Targets	16,867	17,486	17,433	17,449	17,470	17,567	17,523	17,543	17,561	17,638
		After All Cost-Effective	14,799	15,381	15,358	15,408	15,465	15,593	15,588	15,642	15,695	15,765
		After Technical	14,540	15,090	15,048	15,082	15,124	15,235	15,215	15,254	15,291	15,346
	Demand (MW)	Baseline Demand Forecast	4	4	4	4	4	4	4	5	5	5
		After Feasible Targets	4	4	4	4	4	4	4	4	4	4
Average Annual Impact on Forecasted Consumption and Demand	Energy (MWh)	Average Annual <u>Technical</u> Potential			1.86%							
		Average Annual <u>Cost-Effective</u> Potential			1.63%							
		Average Annual <u>Feasible</u> Targets			0.59%							
	Demand (MW)	Average Annual <u>Technical</u> Potential			0.90%							
Average Annual <u>Cost-Effective</u> Potential				0.75%								
Average Annual <u>Feasible</u> Targets				0.36%								

# 6/30/07 Preliminary Target: Pending Approval of Governing Board

## Burbank Water & Power

			2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	
Technical Energy Efficiency Potential	Energy (MWh)	<b>System Total</b>	154,540	163,513	170,992	177,115	183,233	190,256	196,509	202,837	209,266	217,783	
		Residential	51,954	56,656	59,731	62,180	64,492	67,012	69,389	71,811	74,177	78,931	
		Commercial	26,182	28,465	30,864	32,519	34,290	36,481	38,287	40,107	42,069	43,716	
		Conventional Industrial	76,404	78,392	80,397	82,416	84,452	86,763	88,833	90,919	93,020	95,136	
		Data Centers	0	0	0	0	0	0	0	0	0	0	0
		Semiconductor Manufacturers	0	0	0	0	0	0	0	0	0	0	0
		Labs	0	0	0	0	0	0	0	0	0	0	0
		<b>System Total</b>	19	20	21	22	22	23	24	25	26	27	
		Residential	6	7	7	8	8	8	9	9	9	10	
		Commercial	4	4	4	5	5	5	5	6	6	6	
Conventional Industrial	9	9	9	9	10	10	10	10	11	11			
Data Centers	0	0	0	0	0	0	0	0	0	0			
Semiconductor Manufacturers	0	0	0	0	0	0	0	0	0	0			
Labs	0	0	0	0	0	0	0	0	0	0			
Cost-Effective Energy Efficiency Potential	Energy (MWh)	<b>System Total</b>	132,466	139,394	144,928	149,706	154,444	159,794	164,599	169,450	174,285	181,393	
		Residential	42,067	45,763	47,959	49,694	51,319	53,087	54,731	56,397	58,006	61,977	
		Commercial	20,888	22,390	23,985	25,270	26,611	28,210	29,567	30,936	32,330	33,620	
		Conventional Industrial	69,511	71,241	72,984	74,742	76,514	78,497	80,300	82,118	83,949	85,795	
		Data Centers	0	0	0	0	0	0	0	0	0	0	
		Semiconductor Manufacturers	0	0	0	0	0	0	0	0	0	0	
		Labs	0	0	0	0	0	0	0	0	0	0	
		<b>System Total</b>	15	16	16	17	17	18	19	19	20	21	
		Residential	4	5	5	5	5	5	6	6	6	6	
		Commercial	3	3	3	3	3	4	4	4	4	4	
Conventional Industrial	8	8	8	9	9	9	9	9	10	10			
Data Centers	0	0	0	0	0	0	0	0	0	0			
Semiconductor Manufacturers	0	0	0	0	0	0	0	0	0	0			
Labs	0	0	0	0	0	0	0	0	0	0			
Feasible Targets	Energy (MWh)	System Total	11,307	22,615	33,922	45,229	56,536	67,844	79,151	90,458	101,765	113,073	
	Demand (MW)	System Total	2.4	4.7	7.1	9.5	11.9	14.4	16.8	19.3	21.7	24.2	
Impact on Forecasted Consumption and Demand	Energy (MWh)	<b>Baseline Energy Forecast</b>	1,130,727	1,142,421	1,154,114	1,165,808	1,177,501	1,195,042	1,206,735	1,218,429	1,230,123	1,241,816	
		After Feasible Targets	1,119,420	1,119,806	1,120,192	1,120,579	1,120,965	1,127,198	1,127,584	1,127,971	1,128,357	1,128,743	
		After All Cost-Effective	998,261	1,003,027	1,009,186	1,016,101	1,023,058	1,035,247	1,042,137	1,048,979	1,055,837	1,060,423	
	After Technical	976,187	978,908	983,122	988,693	994,268	1,004,786	1,010,226	1,015,592	1,020,856	1,024,033		
	Demand (MW)	<b>Baseline Demand Forecast</b>	294	296	298	300	302	304	306	308	310	312	
		After Feasible Targets	292	291	291	290	290	290	289	289	288	288	
After All Cost-Effective		279	280	282	283	285	286	287	289	290	291		
After Technical	275	276	277	278	280	281	282	283	284	285			
Average Annual Impact on Forecasted Consumption and Demand	Energy (MWh)	Average Annual <u>Technical</u> Potential			1.84%								
		Average Annual <u>Cost-Effective</u> Potential			1.53%								
		Average Annual <u>Feasible Targets</u>			0.95%								
	Demand (MW)	Average Annual <u>Technical</u> Potential			0.90%								
		Average Annual <u>Cost-Effective</u> Potential			0.68%								
		Average Annual <u>Feasible Targets</u>			0.80%								

# 6/30/07 Preliminary Target: Pending Approval of Governing Board

## City of Colton

		2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	
Technical Energy Efficiency Potential	Energy (MWh)	System Total	52,029	56,226	59,957	63,265	66,657	70,164	73,789	77,541	81,434	86,298
		Residential	20,037	22,142	23,682	25,006	26,314	27,662	29,067	30,529	32,011	34,512
		Commercial	9,727	11,023	12,394	13,534	14,746	16,007	17,300	18,635	20,060	21,405
		Conventional Industrial	22,265	23,060	23,880	24,725	25,596	26,495	27,421	28,377	29,363	30,381
		Data Centers	0	0	0	0	0	0	0	0	0	0
		Semiconductor Manufacturers	0	0	0	0	0	0	0	0	0	0
		Labs	0	0	0	0	0	0	0	0	0	0
	Demand (MW)	System Total	6	7	7	8	8	9	9	10	10	11
		Residential	2	3	3	3	3	3	3	4	4	4
		Commercial	1	2	2	2	2	2	2	3	3	3
		Conventional Industrial	3	3	3	3	3	3	3	3	3	3
		Data Centers	0	0	0	0	0	0	0	0	0	0
		Semiconductor Manufacturers	0	0	0	0	0	0	0	0	0	0
		Labs	0	0	0	0	0	0	0	0	0	0
Cost-Effective Energy Efficiency Potential	Energy (MWh)	System Total	43,711	46,954	49,746	52,329	54,967	57,687	60,501	63,414	66,407	70,410
		Residential	15,843	17,518	18,665	19,667	20,659	21,680	22,745	23,854	24,978	27,098
		Commercial	7,609	8,455	9,355	10,168	11,023	11,906	12,813	13,749	14,720	15,679
		Conventional Industrial	20,258	20,981	21,726	22,494	23,285	24,102	24,944	25,812	26,708	27,633
		Data Centers	0	0	0	0	0	0	0	0	0	0
		Semiconductor Manufacturers	0	0	0	0	0	0	0	0	0	0
		Labs	0	0	0	0	0	0	0	0	0	0
	Demand (MW)	System Total	5	5	6	6	6	7	7	7	8	8
		Residential	2	2	2	2	2	2	2	3	3	3
		Commercial	1	1	1	1	1	2	2	2	2	2
		Conventional Industrial	2	2	2	3	3	3	3	3	3	3
		Data Centers	0	0	0	0	0	0	0	0	0	0
		Semiconductor Manufacturers	0	0	0	0	0	0	0	0	0	0
		Labs	0	0	0	0	0	0	0	0	0	0
Feasible Targets	Energy (MWh)	System Total	2,625	5,251	7,876	10,501	13,127	15,752	18,378	21,003	23,628	26,254
	Demand (MW)	System Total	0.3	0.6	0.8	1.1	1.4	1.7	2.0	2.2	2.5	2.8
Impact on Forecasted Consumption and Demand	Energy (MWh)	Baseline Energy Forecast	374,497	385,732	397,304	409,223	421,500	434,145	447,170	460,585	474,402	488,634
		After Feasible Targets	371,872	380,482	389,428	398,722	408,373	418,393	428,792	439,582	450,774	462,381
		After All Cost-Effective	330,787	338,778	347,558	356,895	366,533	376,458	386,668	397,170	407,996	418,224
	Demand (MW)	After Technical	322,469	329,507	337,347	345,959	354,844	363,981	373,381	383,044	392,968	402,336
		Baseline Demand Forecast	90	92	95	98	101	104	107	110	114	117
		After Feasible Targets	89	92	94	97	99	102	105	108	111	114
Average Annual Impact on Forecasted Consumption and Demand	Energy (MWh)	Average Annual Technical Potential	2.01%									
		Average Annual Cost-Effective Potential	1.64%									
		Average Annual Feasible Targets	0.61%									
Demand (MW)	Average Annual Technical Potential	1.04%										
	Average Annual Cost-Effective Potential	0.79%										
	Average Annual Feasible Targets	0.27%										

# 6/30/07 Preliminary Target: Pending Approval of Governing Board

## City of Corona

		2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	
Technical Energy Efficiency Potential	Energy (MWh)	System Total	7,061	7,640	8,228	8,743	9,278	9,829	10,392	10,969	11,575	12,182
		Residential	383	424	453	478	502	526	551	577	602	646
		Commercial	2,854	3,284	3,732	4,111	4,509	4,919	5,339	5,770	6,227	6,665
		Conventional Industrial	3,824	3,932	4,042	4,154	4,268	4,384	4,502	4,622	4,745	4,871
		Data Centers	0	0	0	0	0	0	0	0	0	0
		Semiconductor Manufacturers	0	0	0	0	0	0	0	0	0	0
		Labs	0	0	0	0	0	0	0	0	0	0
	Demand (MW)	System Total	1	1	1	1	1	1	1	1	1	2
		Residential	0	0	0	0	0	0	0	0	0	0
		Commercial	0	0	1	1	1	1	1	1	1	1
		Conventional Industrial	0	0	0	0	0	1	1	1	1	1
		Data Centers	0	0	0	0	0	0	0	0	0	0
		Semiconductor Manufacturers	0	0	0	0	0	0	0	0	0	0
		Labs	0	0	0	0	0	0	0	0	0	0
Cost-Effective Energy Efficiency Potential	Energy (MWh)	System Total	5,454	5,820	6,190	6,540	6,900	7,267	7,642	8,026	8,420	8,835
		Residential	304	332	349	363	376	389	402	416	429	459
		Commercial	1,851	2,099	2,359	2,602	2,853	3,109	3,371	3,641	3,918	4,198
		Conventional Industrial	3,299	3,390	3,482	3,576	3,672	3,769	3,868	3,970	4,073	4,178
		Data Centers	0	0	0	0	0	0	0	0	0	0
		Semiconductor Manufacturers	0	0	0	0	0	0	0	0	0	0
		Labs	0	0	0	0	0	0	0	0	0	0
	Demand (MW)	System Total	1	1	1	1	1	1	1	1	1	1
		Residential	0	0	0	0	0	0	0	0	0	0
		Commercial	0	0	0	0	0	0	0	0	0	1
		Conventional Industrial	0	0	0	0	0	0	0	0	0	0
		Data Centers	0	0	0	0	0	0	0	0	0	0
		Semiconductor Manufacturers	0	0	0	0	0	0	0	0	0	0
		Labs	0	0	0	0	0	0	0	0	0	0
Feasible Targets	Energy (MWh)	System Total	467	934	1,401	1,867	2,334	2,801	3,268	3,735	4,202	4,669
	Demand (MW)	System Total	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.5	0.6
Impact on Forecasted Consumption and Demand	Energy (MWh)	Baseline Energy Forecast	68,348	70,398	72,510	74,685	76,926	79,234	81,611	84,059	86,581	89,178
		After Feasible Targets	67,881	69,464	71,109	72,818	74,592	76,433	78,343	80,324	82,379	84,510
		After All Cost-Effective	62,894	64,578	66,320	68,145	70,026	71,967	73,969	76,033	78,161	80,343
		After Technical	61,286	62,758	64,282	65,943	67,648	69,405	71,219	73,090	75,006	76,997
	Demand (MW)	Baseline Demand Forecast	14	14	14	15	15	16	16	17	17	18
		After Feasible Targets	14	14	14	15	15	15	16	16	17	17
Average Annual Impact on Forecasted Consumption and Demand	Energy (MWh)	Average Annual <u>Technical</u> Potential			1.55%							
		Average Annual <u>Cost-Effective</u> Potential			1.13%							
		Average Annual <u>Feasible</u> Targets			0.60%							
	Demand (MW)	Average Annual <u>Technical</u> Potential			0.98%							
Average Annual <u>Cost-Effective</u> Potential				0.67%								
Average Annual <u>Feasible</u> Targets				0.36%								

# 6/30/07 Preliminary Target: Pending Approval of Governing Board

## Glendale Water & Power

		2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	
Technical Energy Efficiency Potential	Energy (MWh)	System Total	160,784	170,053	177,011	182,111	187,104	192,134	197,181	202,271	207,400	215,548
		Residential	77,523	83,851	87,746	90,699	93,417	96,135	98,890	101,685	104,362	110,439
		Commercial	32,037	33,960	36,007	37,137	38,395	39,689	40,963	42,240	43,673	44,724
		Conventional Industrial	51,225	52,241	53,258	54,275	55,292	56,310	57,328	58,347	59,366	60,385
		Data Centers	0	0	0	0	0	0	0	0	0	0
	Semiconductor Manufacturers	0	0	0	0	0	0	0	0	0	0	
	Labs	0	0	0	0	0	0	0	0	0	0	
	System Total	19	21	22	22	23	24	24	25	26	27	
	Residential	9	10	10	11	11	12	12	12	13	14	
	Commercial	4	5	5	5	6	6	6	6	6	6	
Conventional Industrial	6	6	6	6	6	6	7	7	7	7		
Data Centers	0	0	0	0	0	0	0	0	0	0		
Semiconductor Manufacturers	0	0	0	0	0	0	0	0	0	0		
Labs	0	0	0	0	0	0	0	0	0	0		
Cost-Effective Energy Efficiency Potential	Energy (MWh)	System Total	135,814	143,185	148,438	152,467	156,390	160,320	164,223	168,146	172,027	179,028
		Residential	62,377	67,388	70,182	72,286	74,210	76,119	78,041	79,980	81,814	86,941
		Commercial	26,833	28,268	29,802	30,802	31,876	32,972	34,026	35,084	36,205	37,151
		Conventional Industrial	46,604	47,528	48,453	49,378	50,304	51,229	52,155	53,082	54,009	54,936
		Data Centers	0	0	0	0	0	0	0	0	0	0
	Semiconductor Manufacturers	0	0	0	0	0	0	0	0	0	0	
	Labs	0	0	0	0	0	0	0	0	0	0	
	System Total	15	16	17	17	17	18	18	19	19	20	
	Residential	6	7	7	7	7	8	8	8	8	9	
	Commercial	3	4	4	4	4	4	5	5	5	5	
Conventional Industrial	5	5	6	6	6	6	6	6	6	6		
Data Centers	0	0	0	0	0	0	0	0	0	0		
Semiconductor Manufacturers	0	0	0	0	0	0	0	0	0	0		
Labs	0	0	0	0	0	0	0	0	0	0		
Feasible Targets	Energy (MWh)	System Total	11,362	22,724	34,086	45,448	56,810	68,172	79,534	90,896	102,258	113,620
	Demand (MW)	System Total	1.3	2.6	3.9	5.2	6.5	7.8	9.1	10.4	11.7	13.0
Impact on Forecasted Consumption and Demand	Energy (MWh)	Baseline Energy Forecast	1,136,175	1,136,600	1,137,025	1,137,450	1,137,875	1,138,300	1,138,725	1,139,150	1,139,575	1,140,000
		After Feasible Targets	1,124,813	1,113,876	1,102,939	1,092,002	1,081,065	1,070,128	1,059,191	1,048,254	1,037,317	1,026,380
		After All Cost-Effective	1,000,361	993,415	988,587	984,983	981,485	977,980	974,502	971,004	967,548	960,972
		After Technical	975,391	966,547	960,014	955,339	950,771	946,166	941,544	936,879	932,175	924,452
Demand (MW)	Baseline Demand Forecast	336	336	336	336	336	336	336	336	336	336	
	After Feasible Targets	333	330	327	324	321	318	315	312	309	306	
	After All Cost-Effective	321	320	319	319	319	318	318	317	317	316	
	After Technical	317	315	314	314	313	312	312	311	310	309	
Average Annual Impact on Forecasted Consumption and Demand	Energy (MWh)	Average Annual <u>Technical</u> Potential			1.89%							
		Average Annual <u>Cost-Effective</u> Potential			1.57%							
		Average Annual <u>Feasible</u> Targets			1.00%							
	Demand (MW)	Average Annual <u>Technical</u> Potential			0.80%							
		Average Annual <u>Cost-Effective</u> Potential			0.60%							
		Average Annual <u>Feasible</u> Targets			0.39%							

6/30/07 Preliminary Target: Pending Approval of Governing Board

City of Gridley

		2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	
Technical Energy Efficiency Potential	Energy (MWh)	System Total	5,183	6,123	6,575	6,964	7,281	7,598	7,886	8,201	8,518	8,966
		Residential	2,831	3,251	3,471	3,658	3,818	3,977	4,129	4,292	4,451	4,743
		Commercial	2,021	2,514	2,733	2,922	3,069	3,215	3,341	3,483	3,630	3,774
		Conventional Industrial	332	358	371	384	395	406	416	426	437	449
		Data Centers	0	0	0	0	0	0	0	0	0	0
		Semiconductor Manufacturers	0	0	0	0	0	0	0	0	0	0
		Labs	0	0	0	0	0	0	0	0	0	0
		System Total	1	1	1	1	1	1	1	1	1	1
		Residential	0	0	0	0	0	0	0	0	1	1
		Commercial	0	0	0	0	0	0	0	0	0	1
Conventional Industrial	0	0	0	0	0	0	0	0	0	0		
Data Centers	0	0	0	0	0	0	0	0	0	0		
Semiconductor Manufacturers	0	0	0	0	0	0	0	0	0	0		
Labs	0	0	0	0	0	0	0	0	0	0		
Cost-Effective Energy Efficiency Potential	Energy (MWh)	System Total	3,917	4,516	4,800	5,057	5,267	5,475	5,665	5,870	6,073	6,410
		Residential	2,129	2,382	2,509	2,615	2,705	2,793	2,878	2,967	3,053	3,269
		Commercial	1,474	1,795	1,940	2,078	2,188	2,297	2,393	2,500	2,605	2,716
		Conventional Industrial	314	339	351	363	374	384	393	404	414	425
		Data Centers	0	0	0	0	0	0	0	0	0	0
		Semiconductor Manufacturers	0	0	0	0	0	0	0	0	0	0
		Labs	0	0	0	0	0	0	0	0	0	0
		System Total	0	1	1	1	1	1	1	1	1	1
		Residential	0	0	0	0	0	0	0	0	0	0
		Commercial	0	0	0	0	0	0	0	0	0	0
Conventional Industrial	0	0	0	0	0	0	0	0	0	0		
Data Centers	0	0	0	0	0	0	0	0	0	0		
Semiconductor Manufacturers	0	0	0	0	0	0	0	0	0	0		
Labs	0	0	0	0	0	0	0	0	0	0		
Feasible Targets	Energy (MWh)	System Total	92	183	275	367	459	550	642	734	825	917
	Demand (MW)	System Total	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1
Impact on Forecasted Consumption and Demand	Energy (MWh)	Baseline Energy Forecast	36,798	40,803	42,022	43,239	43,976	44,688	45,191	45,840	46,463	47,227
		After Feasible Targets	36,706	40,619	41,747	42,872	43,518	44,138	44,549	45,106	45,638	46,310
		After All Cost-Effective	32,881	36,287	37,222	38,182	38,710	39,213	39,527	39,970	40,391	40,817
		After Technical	31,614	34,680	35,447	36,274	36,695	37,090	37,305	37,639	37,945	38,261
Impact on Forecasted Consumption and Demand	Demand (MW)	Baseline Demand Forecast	12	13	13	14	14	14	14	15	15	15
		After Feasible Targets	12	13	13	14	14	14	14	15	15	15
		After All Cost-Effective	11	13	13	13	13	14	14	14	14	14
		After Technical	11	12	13	13	13	13	13	14	14	14
Average Annual Impact on Forecasted Consumption and Demand	Energy (MWh)	Average Annual <u>Technical</u> Potential	2.06%									
		Average Annual <u>Cost-Effective</u> Potential	1.47%									
		Average Annual <u>Feasible</u> Targets	0.21%									
Average Annual Impact on Forecasted Consumption and Demand	Demand (MW)	Average Annual <u>Technical</u> Potential	0.82%									
		Average Annual <u>Cost-Effective</u> Potential	0.52%									
		Average Annual <u>Feasible</u> Targets	0.08%									

# 6/30/07 Preliminary Target: Pending Approval of Governing Board

## City of Healdsburg

		2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	
Technical Energy Efficiency Potential	Energy (MWh)	System Total	9,447	10,767	11,343	11,833	12,321	12,851	13,286	13,767	14,252	14,953
		Residential	4,525	5,085	5,351	5,574	5,779	5,992	6,184	6,389	6,586	7,004
		Commercial	4,635	5,383	5,686	5,946	6,222	6,532	6,767	7,037	7,318	7,593
		Conventional Industrial	286	299	306	313	320	328	334	342	349	356
		Data Centers	0	0	0	0	0	0	0	0	0	0
		Semiconductor Manufacturers	0	0	0	0	0	0	0	0	0	0
		Labs	0	0	0	0	0	0	0	0	0	0
	Demand (MW)	System Total	1	1	1	1	2	2	2	2	2	2
		Residential	0	1	1	1	1	1	1	1	1	1
		Commercial	1	1	1	1	1	1	1	1	1	1
		Conventional Industrial	0	0	0	0	0	0	0	0	0	0
		Data Centers	0	0	0	0	0	0	0	0	0	0
		Semiconductor Manufacturers	0	0	0	0	0	0	0	0	0	0
		Labs	0	0	0	0	0	0	0	0	0	0
Cost-Effective Energy Efficiency Potential	Energy (MWh)	System Total	7,673	8,607	9,023	9,399	9,773	10,171	10,505	10,869	11,227	11,827
		Residential	3,894	4,330	4,524	4,684	4,833	4,986	5,121	5,264	5,403	5,777
		Commercial	3,533	4,020	4,236	4,446	4,665	4,904	5,097	5,311	5,524	5,744
		Conventional Industrial	246	257	263	269	275	282	287	294	300	306
		Data Centers	0	0	0	0	0	0	0	0	0	0
		Semiconductor Manufacturers	0	0	0	0	0	0	0	0	0	0
		Labs	0	0	0	0	0	0	0	0	0	0
	Demand (MW)	System Total	1	1	1	1	1	1	1	1	1	1
		Residential	0	0	0	0	0	0	1	1	1	1
		Commercial	0	1	1	1	1	1	1	1	1	1
		Conventional Industrial	0	0	0	0	0	0	0	0	0	0
		Data Centers	0	0	0	0	0	0	0	0	0	0
		Semiconductor Manufacturers	0	0	0	0	0	0	0	0	0	0
		Labs	0	0	0	0	0	0	0	0	0	0
Feasible Targets	Energy (MWh)	System Total	198	397	595	794	992	1,190	1,389	1,587	1,786	1,984
	Demand (MW)	System Total	0.0	0.0	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2
Impact on Forecasted Consumption and Demand	Energy (MWh)	Baseline Energy Forecast	76,345	80,012	80,446	81,106	81,760	82,612	82,956	83,523	84,068	84,864
		After Feasible Targets	76,147	79,615	79,851	80,312	80,768	81,421	81,567	81,935	82,282	82,880
		After All Cost-Effective	68,672	71,405	71,423	71,707	71,987	72,440	72,451	72,654	72,841	73,038
		After Technical	66,898	69,245	69,103	69,273	69,439	69,760	69,670	69,755	69,816	69,911
	Demand (MW)	Baseline Demand Forecast	21	22	22	22	22	23	23	23	23	23
Average Annual Impact on Forecasted Consumption and Demand	Energy (MWh)	Average Annual <u>Technical</u> Potential	1.83%									
		Average Annual <u>Cost-Effective</u> Potential	1.45%									
		Average Annual <u>Feasible</u> Targets	0.24%									
	Demand (MW)	Average Annual <u>Technical</u> Potential	0.85%									
Average Annual <u>Cost-Effective</u> Potential		0.61%										
Average Annual Feasible Targets		0.10%										



# 6/30/07 Preliminary Target: Pending Approval of Governing Board

## City of Hercules

		2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	
Technical Energy Efficiency Potential	Energy (MWh)	System Total	2,130	2,272	2,392	2,485	2,579	2,671	2,766	2,861	2,961	3,086
		Residential	699	766	808	840	870	900	930	962	993	1,056
		Commercial	1,431	1,506	1,584	1,645	1,709	1,772	1,835	1,900	1,969	2,029
		Conventional Industrial	0	0	0	0	0	0	0	0	0	0
		Data Centers	0	0	0	0	0	0	0	0	0	0
		Semiconductor Manufacturers	0	0	0	0	0	0	0	0	0	0
		Labs	0	0	0	0	0	0	0	0	0	0
	Demand (MW)	System Total	0	0	0	0	0	0	0	0	0	0
		Residential	0	0	0	0	0	0	0	0	0	0
		Commercial	0	0	0	0	0	0	0	0	0	0
		Conventional Industrial	0	0	0	0	0	0	0	0	0	0
		Data Centers	0	0	0	0	0	0	0	0	0	0
		Semiconductor Manufacturers	0	0	0	0	0	0	0	0	0	0
		Labs	0	0	0	0	0	0	0	0	0	0
Cost-Effective Energy Efficiency Potential	Energy (MWh)	System Total	1,816	1,916	1,998	2,067	2,136	2,204	2,272	2,342	2,413	2,513
		Residential	576	626	656	679	702	724	747	770	794	850
		Commercial	1,240	1,290	1,342	1,388	1,435	1,480	1,525	1,572	1,619	1,664
		Conventional Industrial	0	0	0	0	0	0	0	0	0	0
		Data Centers	0	0	0	0	0	0	0	0	0	0
		Semiconductor Manufacturers	0	0	0	0	0	0	0	0	0	0
		Labs	0	0	0	0	0	0	0	0	0	0
	Demand (MW)	System Total	0	0	0	0	0	0	0	0	0	0
		Residential	0	0	0	0	0	0	0	0	0	0
		Commercial	0	0	0	0	0	0	0	0	0	0
		Conventional Industrial	0	0	0	0	0	0	0	0	0	0
		Data Centers	0	0	0	0	0	0	0	0	0	0
		Semiconductor Manufacturers	0	0	0	0	0	0	0	0	0	0
		Labs	0	0	0	0	0	0	0	0	0	0
Feasible Targets	Energy (MWh)	System Total	0	0	0	0	0	0	0	0	0	0
		System Total	136	273	409	546	682	818	955	1,091	1,228	1,364
	Demand (MW)	System Total	214	428	642	857	1,071	1,285	1,499	1,713	1,927	2,141
		System Total	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2
Impact on Forecasted Consumption and Demand	Energy (MWh)	Baseline Energy Forecast	16,596	16,762	16,930	17,099	17,270	17,443	17,617	17,793	17,971	18,151
		After Feasible Targets	16,460	16,489	16,521	16,553	16,588	16,624	16,662	16,702	16,744	16,787
		After All Cost-Effective	14,780	14,846	14,932	15,032	15,134	15,239	15,345	15,451	15,558	15,637
		After Technical	14,466	14,490	14,538	14,614	14,691	14,771	14,851	14,932	15,010	15,065
	Demand (MW)	Baseline Demand Forecast	3	3	3	3	3	3	3	3	3	3
		After Feasible Targets	3	3	3	3	3	3	3	3	3	3
		After All Cost-Effective	3	3	3	3	3	3	3	3	3	3
		After Technical	3	3	3	3	3	3	3	3	3	3
Average Annual Impact on Forecasted Consumption and Demand	Energy (MWh)	Average Annual <u>Technical</u> Potential	1.78%									
		Average Annual <u>Cost-Effective</u> Potential	1.45%									
		Average Annual <u>Feasible</u> Targets	0.79%									
	Demand (MW)	Average Annual <u>Technical</u> Potential	1.35%									
		Average Annual <u>Cost-Effective</u> Potential	1.00%									
		Average Annual <u>Feasible</u> Targets	0.58%									

6/30/07 Preliminary Target: Pending Approval of Governing Board

Imperial Irrigation District

		2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	
Technical Energy Efficiency Potential	Energy (MWh)	System Total	570,367	632,374	692,612	742,065	792,570	844,277	896,955	950,870	1,006,526	1,078,126
		Residential	390,550	432,694	469,037	500,036	531,124	562,959	595,822	629,690	663,987	716,216
		Commercial	178,982	198,813	222,672	241,091	260,471	280,305	300,082	320,091	341,410	360,741
		Conventional Industrial	836	866	902	938	975	1,013	1,051	1,090	1,129	1,169
		Data Centers	0	0	0	0	0	0	0	0	0	0
		Semiconductor Manufacturers	0	0	0	0	0	0	0	0	0	0
		Labs	0	0	0	0	0	0	0	0	0	0
		System Total	76	85	94	101	108	116	124	132	140	150
		Residential	50	56	61	65	70	74	79	84	89	96
		Commercial	26	29	33	36	39	41	44	47	51	53
Conventional Industrial	0	0	0	0	0	0	0	0	0	0		
Data Centers	0	0	0	0	0	0	0	0	0	0		
Semiconductor Manufacturers	0	0	0	0	0	0	0	0	0	0		
Labs	0	0	0	0	0	0	0	0	0	0		
Cost-Effective Energy Efficiency Potential	Energy (MWh)	System Total	476,810	529,789	580,379	621,003	662,779	705,633	749,009	793,480	839,496	899,864
		Residential	326,729	363,905	395,684	422,284	449,186	476,750	505,228	534,598	564,440	609,816
		Commercial	149,322	165,097	183,876	197,867	212,708	227,965	242,828	257,894	274,031	288,988
		Conventional Industrial	759	787	819	852	885	919	953	988	1,024	1,060
		Data Centers	0	0	0	0	0	0	0	0	0	0
		Semiconductor Manufacturers	0	0	0	0	0	0	0	0	0	0
		Labs	0	0	0	0	0	0	0	0	0	0
		System Total	61	69	76	82	88	94	101	107	114	122
		Residential	40	45	49	53	57	61	65	69	74	80
		Commercial	21	24	27	29	31	33	35	38	40	42
Conventional Industrial	0	0	0	0	0	0	0	0	0	0		
Data Centers	0	0	0	0	0	0	0	0	0	0		
Semiconductor Manufacturers	0	0	0	0	0	0	0	0	0	0		
Labs	0	0	0	0	0	0	0	0	0	0		
Feasible Targets	Energy (MWh)	System Total	45,067	90,133	135,200	180,266	225,333	270,400	315,466	360,533	405,600	450,666
	Demand (MW)	System Total	6.1	12.2	18.3	24.4	30.5	36.6	42.7	48.8	55.0	61.1
Impact on Forecasted Consumption and Demand	Energy (MWh)	Baseline Energy Forecast	3,627,022	3,727,314	3,857,769	3,988,224	4,118,678	4,249,133	4,379,588	4,510,042	4,640,497	4,770,952
		After Feasible Targets	3,581,956	3,637,181	3,722,569	3,807,957	3,893,345	3,978,733	4,064,121	4,149,509	4,234,897	4,320,285
		After All Cost-Effective	3,150,212	3,197,525	3,277,390	3,367,221	3,455,899	3,543,500	3,630,578	3,716,562	3,801,001	3,871,088
		After Technical	3,056,656	3,094,941	3,165,158	3,246,158	3,326,109	3,404,856	3,482,633	3,559,172	3,633,970	3,692,826
	Demand (MW)	Baseline Demand Forecast	1,026	1,041	1,088	1,134	1,181	1,227	1,274	1,320	1,367	1,413
		After Feasible Targets	1,020	1,029	1,069	1,110	1,150	1,191	1,231	1,271	1,312	1,352
		After All Cost-Effective	965	973	1,011	1,052	1,093	1,133	1,173	1,213	1,253	1,291
		After Technical	950	956	993	1,033	1,072	1,111	1,150	1,189	1,227	1,264
Average Annual Impact on Forecasted Consumption and Demand	Energy (MWh)	Average Annual <u>Technical</u> Potential	2.57%									
		Average Annual <u>Cost-Effective</u> Potential	2.15%									
		Average Annual <u>Feasible</u> Targets	1.08%									
Demand (MW)		Average Annual <u>Technical</u> Potential	1.24%									
		Average Annual <u>Cost-Effective</u> Potential	1.01%									
		Average Annual Feasible Targets	0.51%									

## City of Industry

Data Still Pending

# 6/30/07 Preliminary Target: Pending Approval of Governing Board

## Lassen Municipal Utility District

		2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	
Technical Energy Efficiency Potential	Energy (MWh)	System Total	19,745	21,671	23,192	24,373	25,554	26,754	27,967	29,203	30,475	32,263
		Residential	12,375	13,617	14,414	15,073	15,694	16,315	16,952	17,601	18,239	19,466
		Commercial	6,570	7,231	7,932	8,429	8,965	9,520	10,070	10,631	11,240	11,775
		Conventional Industrial	800	823	847	871	895	920	945	971	997	1,023
		Data Centers	0	0	0	0	0	0	0	0	0	0
		Semiconductor Manufacturers	0	0	0	0	0	0	0	0	0	0
	Labs	0	0	0	0	0	0	0	0	0	0	
	Demand (MW)	System Total	2	3	3	3	3	3	3	4	4	4
		Residential	1	1	1	2	2	2	2	2	2	2
		Commercial	1	1	1	1	1	2	2	2	2	2
		Conventional Industrial	0	0	0	0	0	0	0	0	0	0
		Data Centers	0	0	0	0	0	0	0	0	0	0
		Semiconductor Manufacturers	0	0	0	0	0	0	0	0	0	0
Labs		0	0	0	0	0	0	0	0	0	0	
Cost-Effective Energy Efficiency Potential	Energy (MWh)	System Total	16,094	17,488	18,549	19,420	20,284	21,154	22,033	22,926	23,826	25,338
		Residential	10,667	11,625	12,220	12,706	13,165	13,621	14,085	14,554	15,018	16,115
		Commercial	4,686	5,101	5,546	5,909	6,292	6,684	7,076	7,476	7,888	8,279
		Conventional Industrial	741	762	783	805	827	850	873	896	920	944
		Data Centers	0	0	0	0	0	0	0	0	0	0
		Semiconductor Manufacturers	0	0	0	0	0	0	0	0	0	0
	Labs	0	0	0	0	0	0	0	0	0	0	
	Demand (MW)	System Total	2	2	2	2	2	2	2	3	3	3
		Residential	1	1	1	1	1	1	1	1	1	2
		Commercial	1	1	1	1	1	1	1	1	1	1
		Conventional Industrial	0	0	0	0	0	0	0	0	0	0
		Data Centers	0	0	0	0	0	0	0	0	0	0
		Semiconductor Manufacturers	0	0	0	0	0	0	0	0	0	0
Labs		0	0	0	0	0	0	0	0	0	0	
Feasible Targets	Energy (MWh)	System Total	733	1,467	2,200	2,933	3,666	4,400	5,133	5,866	6,600	7,333
	Demand (MW)	System Total	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.7	0.8	0.9
Impact on Forecasted Consumption and Demand	Energy (MWh)	Baseline Energy Forecast	145,285	147,610	149,971	152,371	154,809	157,286	159,802	162,359	164,957	167,596
		After Feasible Targets	144,552	146,143	147,771	149,438	151,142	152,886	154,669	156,493	158,357	160,263
		After All Cost-Effective	129,191	130,122	131,422	132,951	134,525	136,132	137,769	139,433	141,131	142,258
		After Technical	125,540	125,938	126,779	127,998	129,255	130,531	131,835	133,156	134,482	135,333
	Demand (MW)	Baseline Demand Forecast	26	27	27	27	28	28	29	29	30	30
After Feasible Targets	26	26	27	27	27	28	28	29	29	29		
After All Cost-Effective	24	25	25	25	26	26	26	27	27	27		
After Technical	24	24	24	25	25	25	25	26	26	26		
Average Annual Impact on Forecasted Consumption and Demand	Energy (MWh)	Average Annual <u>Technical</u> Potential	2.07%									
		Average Annual <u>Cost-Effective</u> Potential	1.62%									
		Average Annual <u>Feasible</u> Targets	0.47%									
Demand (MW)	Average Annual <u>Technical</u> Potential	1.41%										
		Average Annual <u>Cost-Effective</u> Potential	1.02%									
		Average Annual <u>Feasible</u> Targets	0.33%									

# 6/30/07 Preliminary Target: Pending Approval of Governing Board

## Lodi Electric Utility

		2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	
Technical Energy Efficiency Potential	Energy (MWh)	System Total	57,327	64,010	68,584	73,050	77,846	82,957	87,621	92,635	97,834	104,120
		Residential	30,766	34,084	36,566	38,861	41,254	43,788	46,267	48,905	51,598	55,406
		Commercial	26,562	29,925	32,018	34,189	36,592	39,170	41,354	43,730	46,236	48,713
		Conventional Industrial	0	0	0	0	0	0	0	0	0	0
		Data Centers	0	0	0	0	0	0	0	0	0	0
		Semiconductor Manufacturers	0	0	0	0	0	0	0	0	0	0
		Labs	0	0	0	0	0	0	0	0	0	0
		System Total	9	10	11	12	13	13	14	15	16	17
		Residential	5	6	6	7	7	8	8	9	10	10
		Commercial	4	4	5	5	5	6	6	6	7	7
Conventional Industrial	0	0	0	0	0	0	0	0	0	0		
Data Centers	0	0	0	0	0	0	0	0	0	0		
Semiconductor Manufacturers	0	0	0	0	0	0	0	0	0	0		
Labs	0	0	0	0	0	0	0	0	0	0		
Cost-Effective Energy Efficiency Potential	Energy (MWh)	System Total	39,265	43,323	45,850	48,658	51,629	54,759	57,570	60,581	63,618	67,565
		Residential	18,849	20,726	21,874	23,062	24,278	25,554	26,757	28,032	29,310	31,419
		Commercial	20,416	22,596	23,976	25,596	27,351	29,205	30,813	32,549	34,308	36,147
		Conventional Industrial	0	0	0	0	0	0	0	0	0	0
		Data Centers	0	0	0	0	0	0	0	0	0	0
		Semiconductor Manufacturers	0	0	0	0	0	0	0	0	0	0
		Labs	0	0	0	0	0	0	0	0	0	0
		System Total	5	6	6	7	7	8	8	9	9	10
		Residential	3	3	3	3	4	4	4	4	4	5
		Commercial	3	3	3	3	4	4	4	4	5	5
Conventional Industrial	0	0	0	0	0	0	0	0	0	0		
Data Centers	0	0	0	0	0	0	0	0	0	0		
Semiconductor Manufacturers	0	0	0	0	0	0	0	0	0	0		
Labs	0	0	0	0	0	0	0	0	0	0		
Feasible Targets	Energy (MWh)	System Total	801	1,602	2,403	3,204	4,005	4,806	5,606	6,407	7,208	8,009
	Demand (MW)	System Total	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0
Impact on Forecasted Consumption and Demand	Energy (MWh)	Baseline Energy Forecast	473,890	488,143	492,770	501,518	511,123	521,643	529,433	538,375	547,369	557,864
		After Feasible Targets	473,089	486,541	490,367	498,314	507,118	516,838	523,827	531,967	540,161	549,854
		After All Cost-Effective	434,625	444,821	446,920	452,860	459,494	466,884	471,863	477,794	483,752	490,298
		After Technical	416,563	424,133	424,186	428,468	433,276	438,686	441,813	445,739	449,535	453,744
	Demand (MW)	Baseline Demand Forecast	134	138	139	142	145	148	150	152	155	158
		After Feasible Targets	134	138	139	141	144	147	149	151	154	157
After All Cost-Effective		129	132	133	135	137	140	142	144	146	148	
		After Technical	125	128	128	130	132	134	135	137	139	141
Average Annual Impact on Forecasted Consumption and Demand	Energy (MWh)	Average Annual <u>Technical</u> Potential	2.02%									
		Average Annual <u>Cost-Effective</u> Potential	1.31%									
		Average Annual <u>Feasible</u> Targets	0.16%									
	Demand (MW)	Average Annual <u>Technical</u> Potential	1.18%									
		Average Annual <u>Cost-Effective</u> Potential	0.65%									
		Average Annual <u>Feasible</u> Targets	0.07%									

# 6/30/07 Preliminary Target: Pending Approval of Governing Board

## City of Lompoc

		2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	
<b>Technical Energy Efficiency Potential</b>	Energy (MWh)	<b>System Total</b>	<b>16,634</b>	<b>18,320</b>	<b>19,118</b>	<b>19,851</b>	<b>20,557</b>	<b>21,297</b>	<b>21,960</b>	<b>22,664</b>	<b>23,348</b>	<b>24,494</b>
		Residential	10,271	11,493	12,067	12,548	12,989	13,443	13,861	14,302	14,722	15,615
		Commercial	6,363	6,826	7,051	7,303	7,568	7,854	8,100	8,362	8,625	8,879
		Conventional Industrial	0	0	0	0	0	0	0	0	0	0
		Data Centers	0	0	0	0	0	0	0	0	0	0
		Semiconductor Manufacturers	0	0	0	0	0	0	0	0	0	0
		Labs	0	0	0	0	0	0	0	0	0	0
	Demand (MW)	<b>System Total</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>3</b>	<b>3</b>
		Residential	1	1	1	1	1	1	1	1	1	2
		Commercial	1	1	1	1	1	1	1	1	1	1
		Conventional Industrial	0	0	0	0	0	0	0	0	0	0
		Data Centers	0	0	0	0	0	0	0	0	0	0
		Semiconductor Manufacturers	0	0	0	0	0	0	0	0	0	0
		Labs	0	0	0	0	0	0	0	0	0	0
<b>Cost-Effective Energy Efficiency Potential</b>	Energy (MWh)	<b>System Total</b>	<b>14,797</b>	<b>16,227</b>	<b>16,892</b>	<b>17,498</b>	<b>18,089</b>	<b>18,706</b>	<b>19,258</b>	<b>19,842</b>	<b>20,409</b>	<b>21,489</b>
		Residential	9,019	10,055	10,508	10,875	11,213	11,562	11,878	12,212	12,530	13,370
		Commercial	5,778	6,172	6,384	6,623	6,875	7,145	7,381	7,630	7,879	8,118
		Conventional Industrial	0	0	0	0	0	0	0	0	0	0
		Data Centers	0	0	0	0	0	0	0	0	0	0
		Semiconductor Manufacturers	0	0	0	0	0	0	0	0	0	0
		Labs	0	0	0	0	0	0	0	0	0	0
	Demand (MW)	<b>System Total</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>
		Residential	1	1	1	1	1	1	1	1	1	1
		Commercial	1	1	1	1	1	1	1	1	1	1
		Conventional Industrial	0	0	0	0	0	0	0	0	0	0
		Data Centers	0	0	0	0	0	0	0	0	0	0
		Semiconductor Manufacturers	0	0	0	0	0	0	0	0	0	0
		Labs	0	0	0	0	0	0	0	0	0	0
<b>Feasible Targets</b>	Energy (MWh)	System Total	1,121	2,242	3,363	4,484	5,605	6,726	7,847	8,968	10,089	11,210
	Demand (MW)	System Total	0.1	0.3	0.4	0.5	0.6	0.8	0.9	1.0	1.1	1.3
<b>Impact on Forecasted Consumption and Demand</b>	Energy (MWh)	<b>Baseline Energy Forecast</b>	<b>140,308</b>	<b>146,931</b>	<b>147,069</b>	<b>147,830</b>	<b>148,617</b>	<b>149,783</b>	<b>150,048</b>	<b>150,710</b>	<b>151,364</b>	<b>152,465</b>
		After Feasible Targets	139,187	144,689	143,706	143,346	143,012	143,057	142,201	141,742	141,275	141,255
		After All Cost-Effective	125,511	130,704	130,177	130,332	130,528	131,077	130,789	130,868	130,955	130,976
		After Technical	123,674	128,611	127,951	127,980	128,060	128,487	128,088	128,046	128,016	127,971
	Demand (MW)	<b>Baseline Demand Forecast</b>	<b>26</b>	<b>26</b>	<b>26</b>	<b>27</b>	<b>27</b>	<b>27</b>	<b>27</b>	<b>27</b>	<b>28</b>	<b>28</b>
		After Feasible Targets	26	26	26	26	26	26	26	26	26	27
		After All Cost-Effective	24	24	24	25	25	25	25	25	25	25
		After Technical	24	24	24	24	24	25	25	25	25	25
<b>Average Annual Impact on Forecasted Consumption and Demand</b>	Energy (MWh)	Average Annual <u>Technical</u> Potential	1.65%									
		Average Annual <u>Cost-Effective</u> Potential	1.45%									
		Average Annual <u>Feasible</u> Targets	0.75%									
	Demand (MW)	Average Annual <u>Technical</u> Potential	0.99%									
		Average Annual <u>Cost-Effective</u> Potential	0.86%									
		Average Annual Feasible Targets	0.47%									

# 6/30/07 Preliminary Target: Pending Approval of Governing Board

## Merced Irrigation District

		2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	
Technical Energy Efficiency Potential	Energy (MWh)	System Total	48,419	53,172	57,877	62,102	66,330	70,713	74,957	79,108	83,425	88,019
		Residential	7,157	8,024	8,690	9,271	9,836	10,420	11,008	11,600	12,199	13,172
		Commercial	18,388	21,122	23,980	26,455	28,953	31,546	34,028	36,433	38,965	41,370
		Conventional Industrial	22,874	24,025	25,206	26,376	27,541	28,746	29,921	31,075	32,260	33,478
		Data Centers	0	0	0	0	0	0	0	0	0	0
		Semiconductor Manufacturers	0	0	0	0	0	0	0	0	0	0
		Labs	0	0	0	0	0	0	0	0	0	0
		System Total	6	7	7	8	8	9	10	10	11	11
		Residential	1	1	1	1	1	1	1	1	1	2
		Commercial	3	3	3	4	4	4	5	5	5	6
Conventional Industrial	3	3	3	3	3	3	3	4	4	4		
Data Centers	0	0	0	0	0	0	0	0	0	0		
Semiconductor Manufacturers	0	0	0	0	0	0	0	0	0	0		
Labs	0	0	0	0	0	0	0	0	0	0		
Cost-Effective Energy Efficiency Potential	Energy (MWh)	System Total	41,504	45,029	48,508	51,779	55,052	58,439	61,736	64,974	68,305	72,009
		Residential	5,728	6,388	6,881	7,321	7,751	8,197	8,645	9,094	9,555	10,391
		Commercial	14,629	16,458	18,381	20,157	21,949	23,804	25,591	27,336	29,135	30,902
		Conventional Industrial	21,147	22,183	23,246	24,301	25,351	26,438	27,500	28,543	29,615	30,717
		Data Centers	0	0	0	0	0	0	0	0	0	0
		Semiconductor Manufacturers	0	0	0	0	0	0	0	0	0	0
		Labs	0	0	0	0	0	0	0	0	0	0
		System Total	5	5	6	6	7	7	8	8	8	9
		Residential	1	1	1	1	1	1	1	1	1	1
		Commercial	2	2	2	3	3	3	3	4	4	4
Conventional Industrial	2	3	3	3	3	3	3	3	3	4		
Data Centers	0	0	0	0	0	0	0	0	0	0		
Semiconductor Manufacturers	0	0	0	0	0	0	0	0	0	0		
Labs	0	0	0	0	0	0	0	0	0	0		
Feasible Targets	Energy (MWh)	System Total	3,619	7,239	10,858	14,478	18,097	21,717	25,336	28,956	32,575	36,195
	Demand (MW)	System Total	0.4	0.9	1.3	1.8	2.2	2.7	3.1	3.6	4.0	4.5
Impact on Forecasted Consumption and Demand	Energy (MWh)	Baseline Energy Forecast	405,448	426,039	446,816	466,608	485,629	505,153	523,285	540,289	557,608	575,253
		After Feasible Targets	401,829	418,800	435,958	452,130	467,532	483,436	497,949	511,333	525,033	539,058
		After All Cost-Effective	363,944	381,010	398,308	414,829	430,577	446,714	461,549	475,315	489,303	503,244
		After Technical	357,029	372,867	388,939	404,506	419,299	434,440	448,328	461,181	474,183	487,234
Impact on Forecasted Consumption and Demand	Demand (MW)	Baseline Demand Forecast	82	87	90	94	97	101	104	107	110	113
		After Feasible Targets	82	86	89	92	95	98	101	103	106	109
		After All Cost-Effective	77	82	84	88	90	94	96	99	102	104
		After Technical	76	80	83	86	89	92	94	97	99	102
Average Annual Impact on Forecasted Consumption and Demand	Energy (MWh)	Average Annual <u>Technical</u> Potential	1.78%									
		Average Annual <u>Cost-Effective</u> Potential	1.46%									
		Average Annual <u>Feasible</u> Targets	0.73%									
Average Annual Impact on Forecasted Consumption and Demand	Demand (MW)	Average Annual <u>Technical</u> Potential	1.15%									
		Average Annual <u>Cost-Effective</u> Potential	0.90%									
		Average Annual <u>Feasible</u> Targets	0.45%									

# 6/30/07 Preliminary Target: Pending Approval of Governing Board

## Modesto Irrigation District

		2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	
<b>Technical Energy Efficiency Potential</b>	Energy (MWh)	<b>System Total</b>	<b>379,677</b>	<b>408,165</b>	<b>431,572</b>	<b>452,146</b>	<b>472,760</b>	<b>493,883</b>	<b>515,439</b>	<b>537,619</b>	<b>559,954</b>	<b>589,690</b>
		Residential	178,447	196,092	208,322	218,650	228,653	238,848	249,381	260,278	271,100	289,952
		Commercial	93,680	101,955	110,535	118,133	126,069	134,285	142,564	151,064	159,760	167,804
		Conventional Industrial	107,550	110,119	112,715	115,364	118,038	120,750	123,493	126,277	129,094	131,934
		Data Centers	0	0	0	0	0	0	0	0	0	0
	Semiconductor Manufacturers	0	0	0	0	0	0	0	0	0	0	0
	Labs	0	0	0	0	0	0	0	0	0	0	0
	Demand (MW)	<b>System Total</b>	<b>47</b>	<b>50</b>	<b>54</b>	<b>56</b>	<b>59</b>	<b>62</b>	<b>65</b>	<b>68</b>	<b>71</b>	<b>75</b>
		Residential	22	24	25	27	28	30	31	33	34	37
		Commercial	13	14	15	16	18	19	20	21	22	23
Conventional Industrial		12	13	13	13	13	14	14	14	15	15	
Data Centers		0	0	0	0	0	0	0	0	0	0	
Semiconductor Manufacturers	0	0	0	0	0	0	0	0	0	0		
Labs	0	0	0	0	0	0	0	0	0	0		
<b>Cost-Effective Energy Efficiency Potential</b>	Energy (MWh)	<b>System Total</b>	<b>181,530</b>	<b>197,201</b>	<b>208,495</b>	<b>218,470</b>	<b>228,267</b>	<b>238,248</b>	<b>248,371</b>	<b>258,708</b>	<b>268,952</b>	<b>276,984</b>
		Residential	113,414	125,124	132,267	138,120	143,641	149,157	154,788	160,538	166,187	169,828
		Commercial	44,819	48,223	51,813	55,361	59,058	62,936	66,834	70,817	74,802	78,578
		Conventional Industrial	23,296	23,853	24,415	24,989	25,568	26,156	26,750	27,353	27,963	28,578
		Data Centers	0	0	0	0	0	0	0	0	0	0
	Semiconductor Manufacturers	0	0	0	0	0	0	0	0	0	0	
	Labs	0	0	0	0	0	0	0	0	0	0	
	Demand (MW)	<b>System Total</b>	<b>20</b>	<b>22</b>	<b>23</b>	<b>24</b>	<b>26</b>	<b>27</b>	<b>28</b>	<b>29</b>	<b>31</b>	<b>32</b>
		Residential	11	13	13	14	15	15	16	17	18	18
		Commercial	6	6	7	7	8	8	9	9	10	10
Conventional Industrial		3	3	3	3	3	3	3	3	3	3	
Data Centers		0	0	0	0	0	0	0	0	0	0	
Semiconductor Manufacturers	0	0	0	0	0	0	0	0	0	0		
Labs	0	0	0	0	0	0	0	0	0	0		
<b>Feasible Targets</b>	Energy (MWh)	System Total	13,856	27,711	41,567	55,423	69,279	83,134	96,990	110,846	124,702	138,557
	Demand (MW)	System Total	1.6	3.2	4.8	6.3	7.9	9.5	11.1	12.7	14.3	15.9
<b>Impact on Forecasted Consumption and Demand</b>	Energy (MWh)	<b>Baseline Energy Forecast</b>	<b>2,761,835</b>	<b>2,829,220</b>	<b>2,897,663</b>	<b>2,971,574</b>	<b>3,046,657</b>	<b>3,124,462</b>	<b>3,203,968</b>	<b>3,286,481</b>	<b>3,369,146</b>	<b>3,452,432</b>
		After Feasible Targets	2,747,979	2,801,508	2,856,096	2,916,151	2,977,379	3,041,327	3,106,978	3,175,635	3,244,445	3,313,875
		After All Cost-Effective	2,580,306	2,632,019	2,689,168	2,753,104	2,818,390	2,886,214	2,955,596	3,027,773	3,100,194	3,175,448
		After Technical	2,382,158	2,421,054	2,466,091	2,519,428	2,573,897	2,630,579	2,688,529	2,748,862	2,809,193	2,862,743
	Demand (MW)	<b>Baseline Demand Forecast</b>	<b>700</b>	<b>722</b>	<b>745</b>	<b>765</b>	<b>786</b>	<b>807</b>	<b>829</b>	<b>851</b>	<b>873</b>	<b>895</b>
		After Feasible Targets	698	719	740	759	778	797	818	838	859	879
		After All Cost-Effective	680	700	722	741	760	780	801	822	842	863
		After Technical	653	672	691	709	727	745	764	783	802	820
<b>Average Annual Impact on Forecasted Consumption and Demand</b>	Energy (MWh)	Average Annual <u>Technical</u> Potential	1.91%									
		Average Annual <u>Cost-Effective</u> Potential	0.90%									
		Average Annual <u>Feasible</u> Targets	0.45%									
Demand (MW)	Average Annual <u>Technical</u> Potential	0.94%										
	Average Annual <u>Cost-Effective</u> Potential	0.40%										
	Average Annual <u>Feasible</u> Targets	0.20%										



# 6/30/07 Preliminary Target: Pending Approval of Governing Board

## City of Moreno Valley

		2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	
Technical Energy Efficiency Potential	Energy (MWh)	System Total	7,024	8,340	9,607	10,863	12,225	13,712	15,338	17,120	19,074	21,447
		Residential	4,828	5,490	6,037	6,557	7,105	7,696	8,342	9,047	9,810	10,897
		Commercial	2,043	2,690	3,403	4,132	4,938	5,825	6,796	7,863	9,044	10,316
		Conventional Industrial	153	160	167	174	182	191	200	210	221	233
		Data Centers	0	0	0	0	0	0	0	0	0	0
		Semiconductor Manufacturers	0	0	0	0	0	0	0	0	0	0
		Labs	0	0	0	0	0	0	0	0	0	0
		System Total	1	1	1	1	2	2	2	2	3	3
		Residential	1	1	1	1	1	1	1	1	1	1
		Commercial	0	0	0	1	1	1	1	1	1	1
Conventional Industrial	0	0	0	0	0	0	0	0	0	0		
Data Centers	0	0	0	0	0	0	0	0	0	0		
Semiconductor Manufacturers	0	0	0	0	0	0	0	0	0	0		
Labs	0	0	0	0	0	0	0	0	0	0		
Cost-Effective Energy Efficiency Potential	Energy (MWh)	System Total	5,487	6,450	7,345	8,254	9,236	10,304	11,475	12,757	14,156	15,941
		Residential	3,947	4,505	4,952	5,387	5,847	6,345	6,889	7,484	8,129	9,091
		Commercial	1,416	1,816	2,258	2,726	3,241	3,806	4,424	5,103	5,849	6,662
		Conventional Industrial	124	129	134	140	147	154	161	170	178	188
		Data Centers	0	0	0	0	0	0	0	0	0	0
		Semiconductor Manufacturers	0	0	0	0	0	0	0	0	0	0
		Labs	0	0	0	0	0	0	0	0	0	0
		System Total	1	1	1	1	1	1	1	2	2	2
		Residential	0	0	1	1	1	1	1	1	1	1
		Commercial	0	0	0	0	0	0	1	1	1	1
Conventional Industrial	0	0	0	0	0	0	0	0	0	0		
Data Centers	0	0	0	0	0	0	0	0	0	0		
Semiconductor Manufacturers	0	0	0	0	0	0	0	0	0	0		
Labs	0	0	0	0	0	0	0	0	0	0		
Feasible Targets	Energy (MWh)	System Total	822	1,644	2,466	3,289	4,111	4,933	5,755	6,577	7,399	8,221
	Demand (MW)	System Total	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.1
Impact on Forecasted Consumption and Demand	Energy (MWh)	Baseline Energy Forecast	46,499	51,149	56,263	61,890	68,079	74,887	82,375	90,613	99,674	109,642
		After Feasible Targets	45,677	49,504	53,797	58,601	63,968	69,954	76,620	84,036	92,275	101,420
		After All Cost-Effective	41,011	44,698	48,919	53,636	58,843	64,582	70,901	77,856	85,518	93,700
		After Technical	39,475	42,809	46,657	51,027	55,854	61,175	67,037	73,493	80,600	88,195
	Demand (MW)	Baseline Demand Forecast	17	18	20	22	24	27	29	32	35	39
		After All Cost-Effective	16	17	19	21	23	25	28	31	34	37
Average Annual Impact on Forecasted Consumption and Demand	Energy (MWh)	Average Annual <u>Technical</u> Potential	2.89%									
		Average Annual <u>Cost-Effective</u> Potential	2.15%									
Average Annual <u>Feasible</u> Targets		1.11%										
Demand (MW)	Average Annual <u>Technical</u> Potential	1.07%										
	Average Annual <u>Cost-Effective</u> Potential	0.76%										
	Average Annual <u>Feasible</u> Targets	0.40%										

# 6/30/07 Preliminary Target: Pending Approval of Governing Board

## City of Needles

		2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	
Technical Energy Efficiency Potential	Energy (MWh)	System Total	11,975	13,151	14,206	14,991	15,804	16,644	17,504	18,390	19,318	20,500
		Residential	8,487	9,332	10,027	10,583	11,140	11,711	12,301	12,908	13,522	14,444
		Commercial	3,488	3,819	4,179	4,408	4,664	4,933	5,203	5,482	5,796	6,055
		Conventional Industrial	0	0	0	0	0	0	0	0	0	0
		Data Centers	0	0	0	0	0	0	0	0	0	0
		Semiconductor Manufacturers	0	0	0	0	0	0	0	0	0	0
	Labs	0	0	0	0	0	0	0	0	0	0	
	Demand (MW)	System Total	2	2	2	2	2	2	3	3	3	3
		Residential	1	1	1	2	2	2	2	2	2	2
		Commercial	1	1	1	1	1	1	1	1	1	1
		Conventional Industrial	0	0	0	0	0	0	0	0	0	0
		Data Centers	0	0	0	0	0	0	0	0	0	0
		Semiconductor Manufacturers	0	0	0	0	0	0	0	0	0	0
Labs	0	0	0	0	0	0	0	0	0	0		
Cost-Effective Energy Efficiency Potential	Energy (MWh)	System Total	9,890	10,864	11,729	12,343	12,986	13,650	14,323	15,017	15,745	16,694
		Residential	6,811	7,495	8,043	8,454	8,871	9,298	9,741	10,198	10,660	11,376
		Commercial	3,079	3,369	3,686	3,889	4,115	4,352	4,582	4,819	5,085	5,318
		Conventional Industrial	0	0	0	0	0	0	0	0	0	0
		Data Centers	0	0	0	0	0	0	0	0	0	0
		Semiconductor Manufacturers	0	0	0	0	0	0	0	0	0	0
	Labs	0	0	0	0	0	0	0	0	0	0	
	Demand (MW)	System Total	1	2	2	2	2	2	2	2	2	2
		Residential	1	1	1	1	1	1	1	1	1	2
		Commercial	0	0	1	1	1	1	1	1	1	1
		Conventional Industrial	0	0	0	0	0	0	0	0	0	0
		Data Centers	0	0	0	0	0	0	0	0	0	0
		Semiconductor Manufacturers	0	0	0	0	0	0	0	0	0	0
Labs	0	0	0	0	0	0	0	0	0	0		
Feasible Targets	Energy (MWh)	System Total	817	1,635	2,452	3,269	4,086	4,904	5,721	6,538	7,356	8,173
	Demand (MW)	System Total	0.1	0.2	0.4	0.5	0.6	0.7	0.8	1.0	1.1	1.2
Impact on Forecasted Consumption and Demand	Energy (MWh)	Baseline Energy Forecast	66,377	67,697	69,044	70,419	71,824	73,258	74,723	76,219	77,747	79,200
		After Feasible Targets	65,560	66,062	66,592	67,150	67,738	68,355	69,002	69,681	70,392	71,027
		After All Cost-Effective	56,488	56,833	57,315	58,076	58,838	59,608	60,400	61,202	62,002	62,506
		After Technical	54,403	54,546	54,838	55,428	56,020	56,615	57,219	57,829	58,429	58,700
	Demand (MW)	Baseline Demand Forecast	20	21	21	22	23	23	24	24	25	26
		After All Cost-Effective	19	19	20	20	21	21	22	22	23	23
Average Annual Impact on Forecasted Consumption and Demand	Energy (MWh)	Average Annual <u>Technical</u> Potential	2.82%									
		Average Annual <u>Cost-Effective</u> Potential	2.30%									
Average Annual <u>Feasible</u> Targets		1.12%										
Demand (MW)	Average Annual <u>Technical</u> Potential	1.34%										
	Average Annual <u>Cost-Effective</u> Potential	1.06%										
	Average Annual <u>Feasible</u> Targets	0.52%										

# 6/30/07 Preliminary Target: Pending Approval of Governing Board

## Pasadena Water & Power

		2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	
Technical Energy Efficiency Potential	Energy (MWh)	System Total	149,475	163,254	176,618	186,557	196,937	208,134	217,905	229,109	239,207	250,161
		Residential	63,956	70,095	74,412	77,892	81,265	84,776	88,105	91,735	95,051	101,124
		Commercial	85,519	93,160	102,206	108,664	115,672	123,358	129,800	137,374	144,156	149,037
		Conventional Industrial	0	0	0	0	0	0	0	0	0	0
		Data Centers	0	0	0	0	0	0	0	0	0	0
		Semiconductor Manufacturers	0	0	0	0	0	0	0	0	0	0
		Labs	0	0	0	0	0	0	0	0	0	0
	Demand (MW)	System Total	20	22	24	25	27	28	30	31	33	34
		Residential	8	9	9	10	10	11	11	12	12	13
		Commercial	12	13	14	15	16	17	18	19	20	21
		Conventional Industrial	0	0	0	0	0	0	0	0	0	0
		Data Centers	0	0	0	0	0	0	0	0	0	0
		Semiconductor Manufacturers	0	0	0	0	0	0	0	0	0	0
		Labs	0	0	0	0	0	0	0	0	0	0
Cost-Effective Energy Efficiency Potential	Energy (MWh)	System Total	113,210	122,260	130,670	137,533	144,575	152,051	158,662	166,143	172,725	181,260
		Residential	51,066	55,451	58,319	60,631	62,848	65,136	67,250	69,558	71,629	76,491
		Commercial	62,144	66,809	72,351	76,901	81,727	86,915	91,412	96,585	101,096	104,769
		Conventional Industrial	0	0	0	0	0	0	0	0	0	0
		Data Centers	0	0	0	0	0	0	0	0	0	0
		Semiconductor Manufacturers	0	0	0	0	0	0	0	0	0	0
		Labs	0	0	0	0	0	0	0	0	0	0
	Demand (MW)	System Total	13	14	15	16	17	18	19	20	21	22
		Residential	5	6	6	6	7	7	7	7	8	8
		Commercial	8	9	9	10	11	11	12	13	13	14
		Conventional Industrial	0	0	0	0	0	0	0	0	0	0
		Data Centers	0	0	0	0	0	0	0	0	0	0
		Semiconductor Manufacturers	0	0	0	0	0	0	0	0	0	0
		Labs	0	0	0	0	0	0	0	0	0	0
Feasible Targets	Energy (MWh)	System Total	5,000	15,000	28,500	45,500	68,127	90,753	113,380	136,006	158,633	181,260
	Demand (MW)	System Total	0.6	1.8	3.4	5.5	8.2	10.9	13.6	16.3	19.0	21.7
Impact on Forecasted Consumption and Demand	Energy (MWh)	Baseline Energy Forecast	1,273,050	1,290,090	1,313,050	1,334,050	1,356,050	1,381,030	1,399,040	1,423,030	1,440,080	1,452,040
		After Feasible Targets	1,268,050	1,275,090	1,284,550	1,288,550	1,287,923	1,290,277	1,285,660	1,287,024	1,281,447	1,270,780
		After All Cost-Effective	1,159,840	1,167,830	1,182,380	1,196,517	1,211,475	1,228,979	1,240,378	1,256,887	1,267,355	1,270,780
		After Technical	1,123,575	1,126,836	1,136,432	1,147,493	1,159,113	1,172,896	1,181,135	1,193,921	1,200,873	1,201,879
	Demand (MW)	Baseline Demand Forecast	307	310	313	316	319	322	325	329	332	335
		After Feasible Targets	306	308	310	311	311	311	311	313	313	313
Average Annual Impact on Forecasted Consumption and Demand	Energy (MWh)	Average Annual <u>Technical</u> Potential	1.83%									
		Average Annual <u>Cost-Effective</u> Potential	1.33%									
Average Annual <u>Feasible</u> Targets		1.33%										
Demand (MW)	Average Annual <u>Technical</u> Potential		1.07%									
	Average Annual <u>Cost-Effective</u> Potential		0.68%									
	Average Annual <u>Feasible</u> Targets		0.68%									

6/30/07 Preliminary Target: Pending Approval of Governing Board

Pittsburg Power Company/Island Energy

		2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	
Technical Energy Efficiency Potential	Energy (MWh)	System Total	1,610	1,741	1,872	1,979	2,093	2,212	2,333	2,458	2,590	2,721
		Residential	218	240	255	266	277	288	300	311	323	344
		Commercial	1,392	1,501	1,617	1,713	1,816	1,924	2,034	2,147	2,268	2,378
		Conventional Industrial	0	0	0	0	0	0	0	0	0	0
		Data Centers	0	0	0	0	0	0	0	0	0	0
		Semiconductor Manufacturers	0	0	0	0	0	0	0	0	0	0
		Labs	0	0	0	0	0	0	0	0	0	0
	Demand (MW)	System Total	0	0	0	0	0	0	0	0	0	0
		Residential	0	0	0	0	0	0	0	0	0	0
		Commercial	0	0	0	0	0	0	0	0	0	0
		Conventional Industrial	0	0	0	0	0	0	0	0	0	0
		Data Centers	0	0	0	0	0	0	0	0	0	0
		Semiconductor Manufacturers	0	0	0	0	0	0	0	0	0	0
		Labs	0	0	0	0	0	0	0	0	0	0
Cost-Effective Energy Efficiency Potential	Energy (MWh)	System Total	1,340	1,441	1,542	1,633	1,729	1,828	1,929	2,033	2,141	2,254
		Residential	190	208	219	229	237	246	255	264	273	292
		Commercial	1,150	1,233	1,322	1,404	1,492	1,582	1,674	1,769	1,868	1,962
		Conventional Industrial	0	0	0	0	0	0	0	0	0	0
		Data Centers	0	0	0	0	0	0	0	0	0	0
		Semiconductor Manufacturers	0	0	0	0	0	0	0	0	0	0
		Labs	0	0	0	0	0	0	0	0	0	0
	Demand (MW)	System Total	0	0	0	0	0	0	0	0	0	0
		Residential	0	0	0	0	0	0	0	0	0	0
		Commercial	0	0	0	0	0	0	0	0	0	0
		Conventional Industrial	0	0	0	0	0	0	0	0	0	0
		Data Centers	0	0	0	0	0	0	0	0	0	0
		Semiconductor Manufacturers	0	0	0	0	0	0	0	0	0	0
		Labs	0	0	0	0	0	0	0	0	0	0
Feasible Targets	Energy (MWh)	System Total	178	355	533	711	888	1,066	1,244	1,421	1,599	1,777
	Demand (MW)	System Total	0.0	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.3
Impact on Forecasted Consumption and Demand	Energy (MWh)	Baseline Energy Forecast	17,845	18,202	18,566	18,937	19,316	19,702	20,096	20,498	20,908	21,326
		After Feasible Targets	17,667	17,846	18,033	18,226	18,427	18,636	18,852	19,077	19,309	19,549
		After All Cost-Effective	16,505	16,761	17,024	17,304	17,586	17,874	18,167	18,465	18,767	19,072
		After Technical	16,235	16,461	16,694	16,958	17,222	17,490	17,763	18,040	18,318	18,605
	Demand (MW)	Baseline Demand Forecast	4	4	4	4	5	5	5	5	5	5
		After Feasible Targets	4	4	4	4	4	4	5	5	5	5
Average Annual Impact on Forecasted Consumption and Demand	Energy (MWh)	Average Annual Technical Potential	1.39%									
		Average Annual Cost-Effective Potential	1.15%									
		Average Annual Feasible Targets	0.91%									
	Demand (MW)	Average Annual Technical Potential	0.86%									
		Average Annual Cost-Effective Potential	0.66%									
		Average Annual Feasible Targets	0.64%									

6/30/07 Preliminary Target: Pending Approval of Governing Board

Plumas Sierra REC

			2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	
Technical Energy Efficiency Potential	Energy (MWh)	System Total	21,825	24,126	25,361	26,635	27,829	29,092	30,196	31,401	32,534	34,104	
		Residential	11,541	12,866	13,683	14,403	15,046	15,700	16,354	17,026	17,642	18,650	
		Commercial	1,723	2,205	2,381	2,603	2,824	3,074	3,235	3,438	3,634	3,844	
		Conventional Industrial	8,561	9,055	9,297	9,628	9,958	10,318	10,606	10,937	11,258	11,610	
		Data Centers	0	0	0	0	0	0	0	0	0	0	
		Semiconductor Manufacturers	0	0	0	0	0	0	0	0	0	0	
		Labs	0	0	0	0	0	0	0	0	0	0	
	Demand (MW)	System Total	2	3	3	3	3	3	3	3	3	4	4
		Residential	1	1	1	1	1	1	2	2	2	2	2
		Commercial	0	0	0	0	0	0	0	0	1	1	1
		Conventional Industrial	1	1	1	1	1	1	1	1	1	1	1
		Data Centers	0	0	0	0	0	0	0	0	0	0	0
		Semiconductor Manufacturers	0	0	0	0	0	0	0	0	0	0	0
		Labs	0	0	0	0	0	0	0	0	0	0	0
Cost-Effective Energy Efficiency Potential	Energy (MWh)	System Total	17,893	19,501	20,322	21,157	21,961	22,812	23,554	24,364	25,114	26,434	
		Residential	10,124	11,067	11,589	12,031	12,445	12,867	13,285	13,715	14,098	15,016	
		Commercial	1,150	1,433	1,544	1,681	1,817	1,967	2,068	2,193	2,311	2,441	
		Conventional Industrial	6,619	7,001	7,188	7,444	7,700	7,978	8,201	8,456	8,704	8,977	
		Data Centers	0	0	0	0	0	0	0	0	0	0	
		Semiconductor Manufacturers	0	0	0	0	0	0	0	0	0	0	
		Labs	0	0	0	0	0	0	0	0	0	0	
	Demand (MW)	System Total	2	2	2	2	2	2	3	3	3	3	
		Residential	1	1	1	1	1	1	1	1	1	1	
		Commercial	0	0	0	0	0	0	0	0	0	0	
		Conventional Industrial	1	1	1	1	1	1	1	1	1	1	
		Data Centers	0	0	0	0	0	0	0	0	0	0	
		Semiconductor Manufacturers	0	0	0	0	0	0	0	0	0	0	
		Labs	0	0	0	0	0	0	0	0	0	0	
Feasible Targets	Energy (MWh)	System Total	621	1,242	1,863	2,483	3,104	3,725	4,346	4,967	5,588	6,209	
	Demand (MW)	System Total	0.1	0.1	0.2	0.3	0.4	0.4	0.5	0.6	0.6	0.7	
Impact on Forecasted Consumption and Demand	Energy (MWh)	Baseline Energy Forecast	168,486	176,766	178,460	182,271	185,923	190,142	192,557	195,848	198,806	202,378	
		After Feasible Targets	167,865	175,524	176,598	179,787	182,819	186,417	188,211	190,881	193,218	196,169	
		After All Cost-Effective	150,592	157,264	158,139	161,114	163,962	167,330	169,003	171,483	173,692	175,944	
		After Technical	146,661	152,640	153,100	155,636	158,094	161,050	162,362	164,447	166,272	168,274	
	Demand (MW)	Baseline Demand Forecast	30	30	31	32	32	33	34	34	35	35	
		After Technical	27	28	28	29	29	30	30	31	31	31	
Average Annual Impact on Forecasted Consumption and Demand	Energy (MWh)	Average Annual Technical Potential	1.82%										
		Average Annual Cost-Effective Potential	1.41%										
		Average Annual Feasible Targets	0.33%										
	Demand (MW)	Average Annual Technical Potential	1.16%										
		Average Annual Cost-Effective Potential	0.88%										
		Average Annual Feasible Targets	0.22%										

6/30/07 Preliminary Target: Pending Approval of Governing Board

Port of Oakland

		2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	
Technical Energy Efficiency Potential	Energy (MWh)	System Total	8,404	9,287	9,710	10,174	10,628	13,366	15,302	15,727	16,162	16,714
		Residential	0	0	0	0	0	0	0	0	0	0
		Commercial	8,404	9,287	9,710	10,174	10,628	13,366	15,302	15,727	16,162	16,714
		Conventional Industrial	0	0	0	0	0	0	0	0	0	0
		Data Centers	0	0	0	0	0	0	0	0	0	0
		Semiconductor Manufacturers	0	0	0	0	0	0	0	0	0	0
		Labs	0	0	0	0	0	0	0	0	0	0
	Demand (MW)	System Total	1	1	1	1	1	2	2	2	2	2
		Residential	0	0	0	0	0	0	0	0	0	0
		Commercial	1	1	1	1	1	2	2	2	2	2
		Conventional Industrial	0	0	0	0	0	0	0	0	0	0
		Data Centers	0	0	0	0	0	0	0	0	0	0
		Semiconductor Manufacturers	0	0	0	0	0	0	0	0	0	0
		Labs	0	0	0	0	0	0	0	0	0	0
Cost-Effective Energy Efficiency Potential	Energy (MWh)	System Total	6,687	7,280	7,580	7,920	8,252	10,044	11,317	11,620	11,923	12,325
		Residential	0	0	0	0	0	0	0	0	0	0
		Commercial	6,687	7,280	7,580	7,920	8,252	10,044	11,317	11,620	11,923	12,325
		Conventional Industrial	0	0	0	0	0	0	0	0	0	0
		Data Centers	0	0	0	0	0	0	0	0	0	0
		Semiconductor Manufacturers	0	0	0	0	0	0	0	0	0	0
		Labs	0	0	0	0	0	0	0	0	0	0
	Demand (MW)	System Total	1	1	1	1	1	1	1	1	1	2
		Residential	0	0	0	0	0	0	0	0	0	0
		Commercial	1	1	1	1	1	1	1	1	1	2
		Conventional Industrial	0	0	0	0	0	0	0	0	0	0
		Data Centers	0	0	0	0	0	0	0	0	0	0
		Semiconductor Manufacturers	0	0	0	0	0	0	0	0	0	0
		Labs	0	0	0	0	0	0	0	0	0	0
Feasible Targets	Energy (MWh)	System Total	884	1,767	2,651	3,535	4,418	5,302	6,186	7,070	7,953	8,837
	Demand (MW)	System Total	0.1	0.2	0.3	0.4	0.5	0.7	0.8	0.9	1.0	1.1
Impact on Forecasted Consumption and Demand	Energy (MWh)	Baseline Energy Forecast	81,173	83,953	84,836	86,091	87,266	97,629	104,687	105,680	106,657	108,238
		After Feasible Targets	80,289	82,186	82,185	82,557	82,848	92,326	98,501	98,611	98,703	99,401
		After All Cost-Effective	74,486	76,673	77,256	78,171	79,014	87,584	93,370	94,060	94,734	95,913
		After Technical	72,769	74,666	75,126	75,917	76,638	84,262	89,385	89,953	90,494	91,523
	Demand (MW)	Baseline Demand Forecast	13	13	13	14	14	15	17	17	17	17
		After All Cost-Effective	12	12	12	13	13	14	15	15	15	16
Average Annual Impact on Forecasted Consumption and Demand	Energy (MWh)	Average Annual <u>Technical</u> Potential	1.77%									
		Average Annual <u>Cost-Effective</u> Potential	1.30%									
		Average Annual <u>Feasible</u> Targets	0.93%									
	Demand (MW)	Average Annual <u>Technical</u> Potential	1.43%									
		Average Annual <u>Cost-Effective</u> Potential	1.02%									
		Average Annual <u>Feasible</u> Targets	0.73%									

6/30/07 Preliminary Target: Pending Approval of Governing Board

City of Rancho Cucamonga

		2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	
Technical Energy Efficiency Potential	Energy (MWh)	System Total	7,336	10,220	11,569	12,664	12,795	12,935	13,067	13,199	13,370	13,464
		Residential	0	0	0	0	0	0	0	0	0	0
		Commercial	7,336	10,220	11,569	12,664	12,795	12,935	13,067	13,199	13,370	13,464
		Conventional Industrial	0	0	0	0	0	0	0	0	0	0
		Data Centers	0	0	0	0	0	0	0	0	0	0
		Semiconductor Manufacturers	0	0	0	0	0	0	0	0	0	0
		Labs	0	0	0	0	0	0	0	0	0	0
	Demand (MW)	System Total	1	1	1	2	2	2	2	2	2	2
		Residential	0	0	0	0	0	0	0	0	0	0
		Commercial	1	1	1	2	2	2	2	2	2	2
		Conventional Industrial	0	0	0	0	0	0	0	0	0	0
		Data Centers	0	0	0	0	0	0	0	0	0	0
		Semiconductor Manufacturers	0	0	0	0	0	0	0	0	0	0
		Labs	0	0	0	0	0	0	0	0	0	0
Cost-Effective Energy Efficiency Potential	Energy (MWh)	System Total	4,718	6,495	7,322	8,035	8,141	8,241	8,344	8,447	8,549	8,641
		Residential	0	0	0	0	0	0	0	0	0	0
		Commercial	4,718	6,495	7,322	8,035	8,141	8,241	8,344	8,447	8,549	8,641
		Conventional Industrial	0	0	0	0	0	0	0	0	0	0
		Data Centers	0	0	0	0	0	0	0	0	0	0
		Semiconductor Manufacturers	0	0	0	0	0	0	0	0	0	0
		Labs	0	0	0	0	0	0	0	0	0	0
	Demand (MW)	System Total	1	1	1	1	1	1	1	1	1	1
		Residential	0	0	0	0	0	0	0	0	0	0
		Commercial	1	1	1	1	1	1	1	1	1	1
		Conventional Industrial	0	0	0	0	0	0	0	0	0	0
		Data Centers	0	0	0	0	0	0	0	0	0	0
		Semiconductor Manufacturers	0	0	0	0	0	0	0	0	0	0
		Labs	0	0	0	0	0	0	0	0	0	0
Feasible Targets	Energy (MWh)	System Total	448	896	1,343	1,791	2,239	2,687	3,135	3,582	4,030	4,478
	Demand (MW)	System Total	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.4	0.5	0.6
Impact on Forecasted Consumption and Demand	Energy (MWh)	Baseline Energy Forecast	60,300	70,400	74,300	78,100	78,100	78,100	78,100	78,100	78,100	78,100
		After Feasible Targets	59,852	69,504	72,957	76,309	75,861	75,413	74,965	74,518	74,070	73,622
		After All Cost-Effective	55,582	63,905	66,978	70,065	69,959	69,859	69,756	69,653	69,551	69,459
		After Technical	52,964	60,180	62,731	65,436	65,305	65,165	65,033	64,901	64,730	64,636
	Demand (MW)	Baseline Demand Forecast	13	15	15	16	16	16	16	16	16	16
		After Feasible Targets	12	14	15	16	16	16	16	16	16	16
		After All Cost-Effective	12	14	15	15	15	15	15	15	15	15
		After Technical	12	13	14	15	15	15	15	14	14	14
Average Annual Impact on Forecasted Consumption and Demand	Energy (MWh)	Average Annual <u>Technical</u> Potential	1.79%									
		Average Annual <u>Cost-Effective</u> Potential	1.15%									
		Average Annual <u>Feasible</u> Targets	0.60%									
	Demand (MW)	Average Annual <u>Technical</u> Potential	1.12%									
		Average Annual <u>Cost-Effective</u> Potential	0.68%									
		Average Annual <u>Feasible</u> Targets	0.36%									

# 6/30/07 Preliminary Target: Pending Approval of Governing Board

## Riverside Public Utilities

		2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	
Technical Energy Efficiency Potential	Energy (MWh)	System Total	317,819	340,931	359,707	374,614	390,679	406,418	421,965	438,211	455,089	478,402
		Residential	150,477	165,055	175,130	183,069	191,134	199,104	207,109	215,466	223,890	239,293
		Commercial	44,361	48,994	53,782	57,044	60,969	64,764	68,400	72,227	76,460	80,141
		Conventional Industrial	122,981	126,882	130,794	134,502	138,576	142,551	146,456	150,517	154,738	158,968
		Data Centers	0	0	0	0	0	0	0	0	0	0
		Semiconductor Manufacturers	0	0	0	0	0	0	0	0	0	0
		Labs	0	0	0	0	0	0	0	0	0	0
	Demand (MW)	System Total	37	40	43	45	47	49	51	53	55	58
		Residential	17	19	20	21	22	23	24	26	27	29
		Commercial	6	7	8	8	9	9	10	10	11	11
		Conventional Industrial	14	15	15	15	16	16	17	17	18	18
		Data Centers	0	0	0	0	0	0	0	0	0	0
		Semiconductor Manufacturers	0	0	0	0	0	0	0	0	0	0
		Labs	0	0	0	0	0	0	0	0	0	0
Cost-Effective Energy Efficiency Potential	Energy (MWh)	System Total	266,408	284,563	298,706	310,446	323,054	335,377	347,562	360,295	373,389	393,171
		Residential	119,772	131,355	138,787	144,712	150,774	156,742	162,727	168,989	175,310	188,504
		Commercial	34,784	37,826	40,996	43,453	46,312	49,068	51,731	54,524	57,476	60,235
		Conventional Industrial	111,852	115,382	118,923	122,281	125,968	129,567	133,104	136,781	140,603	144,432
		Data Centers	0	0	0	0	0	0	0	0	0	0
		Semiconductor Manufacturers	0	0	0	0	0	0	0	0	0	0
		Labs	0	0	0	0	0	0	0	0	0	0
	Demand (MW)	System Total	29	31	33	34	36	38	39	41	42	45
		Residential	12	13	14	15	16	16	17	18	19	20
		Commercial	4	5	5	6	6	6	7	7	7	8
		Conventional Industrial	13	13	14	14	14	15	15	16	16	17
		Data Centers	0	0	0	0	0	0	0	0	0	0
		Semiconductor Manufacturers	0	0	0	0	0	0	0	0	0	0
		Labs	0	0	0	0	0	0	0	0	0	0
Feasible Targets	Energy (MWh)	System Total	22,210	44,850	67,910	91,320	115,170	139,420	164,040	189,060	214,510	240,380
	Demand (MW)	System Total	2.2	4.5	6.7	8.9	11.1	13.4	15.6	17.8	20.0	22.3
Impact on Forecasted Consumption and Demand	Energy (MWh)	Baseline Energy Forecast	2,221,000	2,264,000	2,306,000	2,341,000	2,385,000	2,425,000	2,462,000	2,502,000	2,545,000	2,587,000
		After Feasible Targets	2,198,790	2,219,150	2,238,090	2,249,680	2,269,830	2,285,580	2,297,960	2,312,940	2,330,490	2,346,620
		After All Cost-Effective	1,954,592	1,979,437	2,007,294	2,030,554	2,061,946	2,089,623	2,114,438	2,141,705	2,171,611	2,193,829
		After Technical	1,903,181	1,923,069	1,946,293	1,966,386	1,994,321	2,018,582	2,040,035	2,063,789	2,089,911	2,108,598
	Demand (MW)	Baseline Demand Forecast	562	573	584	594	604	613	623	633	644	655
		After Feasible Targets	560	569	577	585	593	600	607	615	624	633
		After All Cost-Effective	533	542	551	560	568	575	584	592	602	610
		After Technical	525	533	541	549	557	564	572	580	589	597
Average Annual Impact on Forecasted Consumption and Demand	Energy (MWh)	Average Annual <u>Technical</u> Potential	1.99%									
		Average Annual <u>Cost-Effective</u> Potential	1.64%									
		Average Annual <u>Feasible</u> Targets	1.00%									
	Demand (MW)	Average Annual <u>Technical</u> Potential	0.95%									
		Average Annual <u>Cost-Effective</u> Potential	0.73%									
		Average Annual Feasible Targets	0.37%									



# 6/30/07 Preliminary Target: Pending Approval of Governing Board

## Roseville Electric

		2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	
Technical Energy Efficiency Potential	Energy (MWh)	System Total	162,772	179,689	194,761	207,161	219,863	233,454	246,205	258,668	271,784	286,337
		Residential	81,923	90,395	97,821	104,121	110,518	117,569	124,865	132,228	139,742	149,512
		Commercial	58,714	65,841	72,308	77,236	82,358	87,610	91,901	95,885	100,324	103,954
		Conventional Industrial	22,135	23,453	24,632	25,805	26,988	28,274	29,439	30,554	31,718	32,871
		Data Centers	0	0	0	0	0	0	0	0	0	0
		Semiconductor Manufacturers	0	0	0	0	0	0	0	0	0	0
		Labs	0	0	0	0	0	0	0	0	0	0
		System Total	23	26	28	30	32	34	37	39	41	43
		Residential	12	14	15	16	17	19	20	21	23	25
		Commercial	8	9	10	11	12	13	13	14	14	15
Conventional Industrial	3	3	3	3	3	3	3	3	4	4		
Data Centers	0	0	0	0	0	0	0	0	0	0		
Semiconductor Manufacturers	0	0	0	0	0	0	0	0	0	0		
Labs	0	0	0	0	0	0	0	0	0	0		
Cost-Effective Energy Efficiency Potential	Energy (MWh)	System Total	107,079	116,397	123,990	130,713	137,439	144,280	150,388	156,243	162,220	169,699
		Residential	42,430	45,812	48,061	49,974	51,813	53,629	55,461	57,296	59,096	62,647
		Commercial	45,455	50,248	54,570	58,363	62,224	66,135	69,400	72,453	75,620	78,548
		Conventional Industrial	19,194	20,336	21,359	22,376	23,402	24,517	25,527	26,494	27,503	28,503
		Data Centers	0	0	0	0	0	0	0	0	0	0
		Semiconductor Manufacturers	0	0	0	0	0	0	0	0	0	0
		Labs	0	0	0	0	0	0	0	0	0	0
		System Total	13	14	15	16	17	18	18	19	20	21
		Residential	5	5	6	6	6	6	6	7	7	7
		Commercial	6	6	7	8	8	9	9	9	10	10
Conventional Industrial	2	2	2	3	3	3	3	3	3	3		
Data Centers	0	0	0	0	0	0	0	0	0	0		
Semiconductor Manufacturers	0	0	0	0	0	0	0	0	0	0		
Labs	0	0	0	0	0	0	0	0	0	0		
Feasible Targets	Energy (MWh)	System Total	8,716	17,432	26,149	34,865	43,581	52,297	61,014	69,730	78,446	87,162
	Demand (MW)	System Total	1.1	2.1	3.2	4.2	5.3	6.3	7.4	8.4	9.5	10.5
Impact on Forecasted Consumption and Demand	Energy (MWh)	Baseline Energy Forecast	1,242,990	1,291,672	1,331,046	1,368,590	1,405,295	1,445,986	1,479,127	1,508,719	1,539,611	1,569,010
		After Feasible Targets	1,234,274	1,274,240	1,304,897	1,333,725	1,361,713	1,393,688	1,418,114	1,438,989	1,461,165	1,481,848
		After All Cost-Effective	1,135,912	1,175,275	1,207,055	1,237,877	1,267,856	1,301,705	1,328,740	1,352,476	1,377,392	1,399,312
		After Technical	1,080,219	1,111,983	1,136,285	1,161,429	1,185,431	1,212,532	1,232,922	1,250,051	1,267,828	1,282,673
	Demand (MW)	Baseline Demand Forecast	328	339	348	357	367	377	386	395	404	412
		After Feasible Targets	327	337	345	353	362	371	379	387	395	401
Average Annual Impact on Forecasted Consumption and Demand	Energy (MWh)	Average Annual <u>Technical</u> Potential	2.02%									
		Average Annual <u>Cost-Effective</u> Potential	1.20%									
		Average Annual <u>Feasible</u> Targets	0.61%									
Average Annual Impact on Forecasted Consumption and Demand	Demand (MW)	Average Annual <u>Technical</u> Potential	1.16%									
		Average Annual <u>Cost-Effective</u> Potential	0.56%									
		Average Annual <u>Feasible</u> Targets	0.28%									

## Silicon Valley Power (City of Santa Clara)

		2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	
Technical Energy Efficiency Potential	Energy (MWh)	System Total	346,547	387,633	425,925	462,550	499,264	536,044	572,919	609,927	647,162	686,469
		Residential	50,349	55,181	58,091	60,442	62,674	64,935	67,263	69,660	72,032	76,895
		Commercial	57,012	61,105	64,710	67,194	69,870	72,569	75,281	78,041	81,037	83,598
		Conventional Industrial	71,995	73,751	75,361	76,981	78,610	80,250	81,901	83,562	85,234	86,917
		Data Centers	148,817	153,514	158,210	162,907	167,604	172,301	176,998	181,695	186,392	191,089
		Semiconductor Manufacturers	774	12,345	23,906	35,466	47,027	58,588	70,149	81,710	93,271	104,833
		Labs	17,601	31,737	45,646	59,560	73,478	87,401	101,328	115,259	129,196	143,136
		System Total	41	46	50	54	59	63	67	72	76	81
		Residential	5	6	6	6	6	7	7	7	8	8
		Commercial	8	9	10	10	10	11	11	12	12	12
Conventional Industrial	8	8	9	9	9	9	9	10	10	10		
Data Centers	17	18	18	19	19	20	20	21	21	22		
Semiconductor Manufacturers	0	1	3	4	5	7	8	9	11	12		
Labs	2	4	5	7	8	10	12	13	15	16		
Cost-Effective Energy Efficiency Potential	Energy (MWh)	System Total	318,614	342,897	364,806	385,775	406,778	427,794	448,866	470,047	491,297	514,914
		Residential	40,716	44,613	46,812	48,589	50,280	51,991	53,755	55,571	57,373	61,640
		Commercial	47,318	50,228	52,833	54,906	57,085	59,243	61,391	63,578	65,836	67,980
		Conventional Industrial	66,819	68,442	69,933	71,432	72,940	74,458	75,986	77,523	79,071	80,628
		Data Centers	148,817	153,514	158,210	162,907	167,604	172,301	176,998	181,695	186,392	191,089
		Semiconductor Manufacturers	0	5,940	11,869	17,798	23,728	29,657	35,587	41,517	47,448	53,378
		Labs	14,944	20,160	25,149	30,143	35,141	40,143	45,150	50,161	55,177	60,198
		System Total	37	39	42	45	47	49	52	54	57	60
		Residential	4	4	4	5	5	5	5	5	6	6
		Commercial	6	7	7	8	8	8	9	9	9	9
Conventional Industrial	8	8	8	8	8	9	9	9	9	9		
Data Centers	17	18	18	19	19	20	20	21	21	22		
Semiconductor Manufacturers	0	1	1	2	3	3	4	5	5	6		
Labs	2	2	3	3	4	5	5	6	6	7		
Feasible Targets	Energy (MWh)	System Total	25,762	51,524	77,286	103,048	128,810	154,572	180,334	206,096	231,858	257,620
	Demand (MW)	System Total	3.0	6.0	8.9	11.9	14.9	17.9	20.9	23.9	26.8	29.8
Impact on Forecasted Consumption and Demand	Energy (MWh)	Baseline Energy Forecast	2,883,721	2,967,637	3,013,635	3,060,347	3,107,782	3,155,953	3,204,870	3,254,545	3,304,991	3,356,218
		After Feasible Targets	2,857,959	2,916,113	2,936,349	2,957,299	2,978,972	3,001,381	3,024,536	3,048,449	3,073,133	3,098,598
		After All Cost-Effective	2,565,107	2,624,740	2,648,829	2,674,571	2,701,004	2,728,159	2,756,003	2,784,499	2,813,694	2,841,304
		After Technical	2,537,173	2,580,004	2,587,711	2,597,797	2,608,518	2,619,909	2,631,950	2,644,618	2,657,829	2,669,749
		System Total	472	483	491	498	505	513	521	529	536	544
Average Annual Impact on Forecasted Consumption and Demand	Energy (MWh)	Average Annual <u>Technical</u> Potential	2.19%									
		Average Annual <u>Cost-Effective</u> Potential	1.64%									
		Average Annual <u>Feasible</u> Targets	0.82%									
		Average Annual <u>Technical</u> Potential	1.58%									
		Average Annual <u>Cost-Effective</u> Potential	1.17%									
Average Annual <u>Feasible</u> Targets	0.59%											

# 6/30/07 Preliminary Target: Pending Approval of Governing Board

## City of Shasta Lake

		2007	2008	2009	2010	2011	2012	2013	2014	2015	2016		
Technical Energy Efficiency Potential	Energy (MWh)	<b>System Total</b>	<b>11,786</b>	<b>12,681</b>	<b>13,345</b>	<b>13,896</b>	<b>14,436</b>	<b>14,980</b>	<b>15,536</b>	<b>16,102</b>	<b>16,670</b>	<b>17,557</b>	
		Residential	7,665	8,400	8,900	9,308	9,700	10,093	10,497	10,910	11,318	12,057	
		Commercial	1,244	1,332	1,425	1,494	1,568	1,644	1,721	1,799	1,882	1,952	
		Conventional Industrial	2,877	2,949	3,021	3,094	3,168	3,242	3,317	3,394	3,470	3,548	
		Data Centers	0	0	0	0	0	0	0	0	0	0	
		Semiconductor Manufacturers	0	0	0	0	0	0	0	0	0	0	
		Labs	0	0	0	0	0	0	0	0	0	0	
		<b>System Total</b>	<b>1</b>	<b>1</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>
		Residential	1	1	1	1	1	1	1	1	1	1	1
		Commercial	0	0	0	0	0	0	0	0	0	0	0
Conventional Industrial	0	0	0	0	0	0	0	0	0	0	0		
Data Centers	0	0	0	0	0	0	0	0	0	0	0		
Semiconductor Manufacturers	0	0	0	0	0	0	0	0	0	0	0		
Labs	0	0	0	0	0	0	0	0	0	0	0		
Cost-Effective Energy Efficiency Potential	Energy (MWh)	<b>System Total</b>	<b>9,318</b>	<b>9,943</b>	<b>10,375</b>	<b>10,741</b>	<b>11,095</b>	<b>11,448</b>	<b>11,806</b>	<b>12,167</b>	<b>12,526</b>	<b>13,213</b>	
		Residential	5,852	6,355	6,661	6,907	7,138	7,367	7,599	7,833	8,063	8,625	
		Commercial	903	960	1,021	1,076	1,134	1,192	1,251	1,311	1,371	1,427	
		Conventional Industrial	2,564	2,627	2,692	2,757	2,823	2,889	2,956	3,024	3,092	3,162	
		Data Centers	0	0	0	0	0	0	0	0	0	0	
		Semiconductor Manufacturers	0	0	0	0	0	0	0	0	0	0	
		Labs	0	0	0	0	0	0	0	0	0	0	
		<b>System Total</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>
		Residential	1	1	1	1	1	1	1	1	1	1	1
		Commercial	0	0	0	0	0	0	0	0	0	0	0
Conventional Industrial	0	0	0	0	0	0	0	0	0	0	0		
Data Centers	0	0	0	0	0	0	0	0	0	0	0		
Semiconductor Manufacturers	0	0	0	0	0	0	0	0	0	0	0		
Labs	0	0	0	0	0	0	0	0	0	0	0		
Feasible Targets	Energy (MWh)	System Total	129	258	388	517	646	775	905	1,034	1,163	1,292	
	Demand (MW)	System Total	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	
Impact on Forecasted Consumption and Demand	Energy (MWh)	<b>Baseline Energy Forecast</b>	<b>75,293</b>	<b>76,046</b>	<b>76,807</b>	<b>77,575</b>	<b>78,351</b>	<b>79,134</b>	<b>79,926</b>	<b>80,725</b>	<b>81,532</b>	<b>82,347</b>	
		After Feasible Targets	75,164	75,788	76,419	77,058	77,705	78,359	79,021	79,691	80,369	81,055	
		After All Cost-Effective	65,976	66,104	66,432	66,834	67,256	67,686	68,120	68,558	69,006	69,134	
		After Technical	63,507	63,366	63,461	63,679	63,915	64,154	64,390	64,623	64,862	64,790	
	Demand (MW)	<b>Baseline Demand Forecast</b>	<b>18</b>	<b>19</b>	<b>19</b>	<b>19</b>	<b>19</b>	<b>19</b>	<b>20</b>	<b>20</b>	<b>20</b>	<b>20</b>	
		After Feasible Targets	18	19	19	19	19	19	19	20	20	20	
Average Annual Impact on Forecasted Consumption and Demand	Energy (MWh)	Average Annual <u>Technical</u> Potential	2.23%										
		Average Annual <u>Cost-Effective</u> Potential	1.68%										
Average Annual Impact on Forecasted Consumption and Demand	Demand (MW)	Average Annual <u>Technical</u> Potential	1.08%										
		Average Annual <u>Cost-Effective</u> Potential	0.73%										
		Average Annual Feasible Targets	0.16%										
		Average Annual Feasible Targets	0.08%										

# 6/30/07 Preliminary Target: Pending Approval of Governing Board

## Trinity PUD

		2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	
Technical Energy Efficiency Potential	Energy (MWh)	System Total	13,792	15,005	15,820	16,500	17,163	17,830	18,502	19,182	19,871	20,956
		Residential	9,434	10,347	10,886	11,346	11,773	12,198	12,631	13,069	13,496	14,354
		Commercial	2,963	3,228	3,474	3,658	3,858	4,065	4,268	4,473	4,698	4,888
		Conventional Industrial	1,396	1,430	1,461	1,496	1,532	1,567	1,604	1,640	1,677	1,714
		Data Centers	0	0	0	0	0	0	0	0	0	0
		Semiconductor Manufacturers	0	0	0	0	0	0	0	0	0	0
		Labs	0	0	0	0	0	0	0	0	0	0
		System Total	2	2	2	2	2	2	2	2	2	2
		Residential	1	1	1	1	1	1	1	1	1	1
		Commercial	0	1	1	1	1	1	1	1	1	1
Conventional Industrial	0	0	0	0	0	0	0	0	0	0		
Data Centers	0	0	0	0	0	0	0	0	0	0		
Semiconductor Manufacturers	0	0	0	0	0	0	0	0	0	0		
Labs	0	0	0	0	0	0	0	0	0	0		
Cost-Effective Energy Efficiency Potential	Energy (MWh)	System Total	1	5	7	12	16	21	25	30	35	40
		Residential	0	0	0	0	0	0	0	0	0	0
		Commercial	1	5	7	12	16	21	25	30	35	40
		Conventional Industrial	0	0	0	0	0	0	0	0	0	0
		Data Centers	0	0	0	0	0	0	0	0	0	0
		Semiconductor Manufacturers	0	0	0	0	0	0	0	0	0	0
		Labs	0	0	0	0	0	0	0	0	0	0
		System Total	0	0	0	0	0	0	0	0	0	0
		Residential	0	0	0	0	0	0	0	0	0	0
		Commercial	0	0	0	0	0	0	0	0	0	0
Conventional Industrial	0	0	0	0	0	0	0	0	0	0		
Data Centers	0	0	0	0	0	0	0	0	0	0		
Semiconductor Manufacturers	0	0	0	0	0	0	0	0	0	0		
Labs	0	0	0	0	0	0	0	0	0	0		
Feasible Targets	Energy (MWh)	System Total	3	5	8	10	13	15	18	20	23	25
	Demand (MW)	System Total	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Impact on Forecasted Consumption and Demand	Energy (MWh)	Baseline Energy Forecast	96,768	97,736	98,216	99,198	100,190	101,192	102,204	103,226	104,258	105,301
		After Feasible Targets	96,765	97,731	98,208	99,188	100,178	101,177	102,186	103,206	104,236	105,276
		After All Cost-Effective	96,767	97,731	98,209	99,186	100,174	101,171	102,179	103,196	104,223	105,261
		After Technical	82,976	82,731	82,396	82,698	83,027	83,362	83,702	84,044	84,387	84,345
	Demand (MW)	Baseline Demand Forecast	17	17	18	18	18	18	18	18	19	19
		After Feasible Targets	17	17	18	18	18	18	18	18	19	19
		After All Cost-Effective	17	17	18	18	18	18	18	18	19	19
		After Technical	16	16	16	16	16	16	16	16	16	16
Average Annual Impact on Forecasted Consumption and Demand	Energy (MWh)	Average Annual <u>Technical</u> Potential	2.08%									
		Average Annual <u>Cost-Effective</u> Potential	0.00%									
		Average Annual <u>Feasible</u> Targets	0.00%									
	Demand (MW)	Average Annual <u>Technical</u> Potential	1.35%									
		Average Annual <u>Cost-Effective</u> Potential	0.00%									
		Average Annual <u>Feasible</u> Targets	0.00%									

6/30/07 Preliminary Target: Pending Approval of Governing Board

Truckee Donner PUD

		2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	
Technical Energy Efficiency Potential	Energy (MWh)	System Total	17,037	19,100	20,943	22,533	24,067	25,664	27,347	29,074	30,778	32,303
		Residential	9,075	10,358	11,458	12,523	13,494	14,513	15,622	16,762	17,823	18,762
		Commercial	5,659	6,365	7,037	7,490	7,980	8,484	8,982	9,491	10,055	10,559
		Conventional Industrial	2,303	2,378	2,448	2,520	2,593	2,667	2,744	2,821	2,901	2,982
		Data Centers	0	0	0	0	0	0	0	0	0	0
		Semiconductor Manufacturers	0	0	0	0	0	0	0	0	0	0
		Labs	0	0	0	0	0	0	0	0	0	0
	Demand (MW)	System Total	2	2	3	3	3	3	4	4	4	4
		Residential	1	1	1	1	2	2	2	2	2	2
		Commercial	1	1	1	1	1	1	2	2	2	2
		Conventional Industrial	0	0	0	0	0	0	0	0	0	0
		Data Centers	0	0	0	0	0	0	0	0	0	0
		Semiconductor Manufacturers	0	0	0	0	0	0	0	0	0	0
		Labs	0	0	0	0	0	0	0	0	0	0
Cost-Effective Energy Efficiency Potential	Energy (MWh)	System Total	12,332	13,415	14,317	15,108	15,913	16,756	17,672	18,607	19,458	20,321
		Residential	6,882	7,520	7,998	8,441	8,886	9,363	9,906	10,461	10,922	11,392
		Commercial	3,316	3,691	4,050	4,331	4,623	4,921	5,222	5,531	5,847	6,166
		Conventional Industrial	2,135	2,204	2,269	2,335	2,403	2,472	2,543	2,615	2,689	2,764
		Data Centers	0	0	0	0	0	0	0	0	0	0
		Semiconductor Manufacturers	0	0	0	0	0	0	0	0	0	0
		Labs	0	0	0	0	0	0	0	0	0	0
	Demand (MW)	System Total	1	2	2	2	2	2	2	2	2	2
		Residential	1	1	1	1	1	1	1	1	1	1
		Commercial	0	1	1	1	1	1	1	1	1	1
		Conventional Industrial	0	0	0	0	0	0	0	0	0	0
		Data Centers	0	0	0	0	0	0	0	0	0	0
		Semiconductor Manufacturers	0	0	0	0	0	0	0	0	0	0
		Labs	0	0	0	0	0	0	0	0	0	0
Feasible Targets	Energy (MWh)	System Total	1,001	2,003	3,004	4,005	5,007	6,008	7,009	8,011	9,012	10,014
	Demand (MW)	System Total	0.1	0.2	0.3	0.5	0.6	0.7	0.8	0.9	1.0	1.1
Impact on Forecasted Consumption and Demand	Energy (MWh)	Baseline Energy Forecast	153,803	157,648	160,801	164,017	167,297	170,643	174,056	177,537	181,088	184,710
		After Feasible Targets	152,802	155,645	157,797	160,012	162,291	164,635	167,047	169,526	172,076	174,696
		After All Cost-Effective	141,471	144,233	146,484	148,909	151,384	153,887	156,385	158,930	161,630	164,388
		After Technical	136,765	138,548	139,858	141,484	143,230	144,979	146,709	148,463	150,310	152,407
	Demand (MW)	Baseline Demand Forecast	37	38	39	39	40	41	42	43	43	44
	After Feasible Targets	37	38	38	39	40	40	41	42	42	43	
	After All Cost-Effective	36	36	37	37	38	39	40	40	41	42	
	After Technical	35	35	36	36	37	37	38	39	39	40	
Average Annual Impact on Forecasted Consumption and Demand	Energy (MWh)	Average Annual <u>Technical</u> Potential	1.91%									
		Average Annual <u>Cost-Effective</u> Potential	1.20%									
		Average Annual <u>Feasible</u> Targets	0.59%									
Average Annual Impact on Forecasted Consumption and Demand	Demand (MW)	Average Annual <u>Technical</u> Potential	1.04%									
		Average Annual <u>Cost-Effective</u> Potential	0.61%									
		Average Annual <u>Feasible</u> Targets	0.28%									

# 6/30/07 Preliminary Target: Pending Approval of Governing Board

## Turlock Irrigation District

		2007	2008	2009	2010	2011	2012	2013	2014	2015	2016		
<b>Technical Energy Efficiency Potential</b>	Energy (MWh)	<b>System Total</b>	<b>256,231</b>	<b>276,103</b>	<b>293,839</b>	<b>312,797</b>	<b>327,212</b>	<b>342,625</b>	<b>358,864</b>	<b>374,401</b>	<b>390,299</b>	<b>409,151</b>	
		Residential	107,689	118,502	127,323	135,337	142,587	150,082	157,887	165,705	173,543	184,548	
		Commercial	38,055	43,847	49,535	56,590	60,767	65,508	70,614	75,159	79,966	84,476	
		Conventional Industrial	110,487	113,754	116,981	120,869	123,859	127,036	130,362	133,537	136,790	140,126	
		Data Centers	0	0	0	0	0	0	0	0	0	0	0
		Semiconductor Manufacturers	0	0	0	0	0	0	0	0	0	0	0
		Labs	0	0	0	0	0	0	0	0	0	0	0
	Demand (MW)	<b>System Total</b>	<b>35</b>	<b>38</b>	<b>40</b>	<b>43</b>	<b>45</b>	<b>48</b>	<b>50</b>	<b>53</b>	<b>55</b>	<b>58</b>	
		Residential	17	19	20	22	23	24	26	27	29	30	
		Commercial	5	6	7	8	8	9	10	10	11	12	
		Conventional Industrial	13	13	13	14	14	15	15	15	16	16	
		Data Centers	0	0	0	0	0	0	0	0	0	0	
		Semiconductor Manufacturers	0	0	0	0	0	0	0	0	0	0	
		Labs	0	0	0	0	0	0	0	0	0	0	
<b>Cost-Effective Energy Efficiency Potential</b>	Energy (MWh)	<b>System Total</b>	<b>197,195</b>	<b>210,019</b>	<b>220,895</b>	<b>233,262</b>	<b>242,510</b>	<b>252,325</b>	<b>262,595</b>	<b>272,299</b>	<b>282,080</b>	<b>294,747</b>	
		Residential	63,986	70,192	74,504	78,699	82,203	85,782	89,487	93,076	96,586	103,027	
		Commercial	28,927	32,468	35,992	40,503	43,429	46,672	50,103	53,225	56,430	59,513	
		Conventional Industrial	104,282	107,359	110,399	114,060	116,877	119,871	123,005	125,997	129,064	132,207	
		Data Centers	0	0	0	0	0	0	0	0	0	0	
		Semiconductor Manufacturers	0	0	0	0	0	0	0	0	0	0	
		Labs	0	0	0	0	0	0	0	0	0	0	
	Demand (MW)	<b>System Total</b>	<b>23</b>	<b>24</b>	<b>26</b>	<b>27</b>	<b>28</b>	<b>30</b>	<b>31</b>	<b>32</b>	<b>34</b>	<b>35</b>	
		Residential	7	8	8	9	9	10	10	11	12	12	
		Commercial	4	4	5	5	6	6	6	7	7	8	
		Conventional Industrial	12	12	13	13	13	14	14	14	15	15	
		Data Centers	0	0	0	0	0	0	0	0	0	0	
		Semiconductor Manufacturers	0	0	0	0	0	0	0	0	0	0	
		Labs	0	0	0	0	0	0	0	0	0	0	
<b>Feasible Targets</b>	Energy (MWh)	System Total	7,824	15,095	26,287	53,177	80,686	102,028	116,458	124,206	132,045	139,990	
	Demand (MW)	System Total	1.0	2.0	3.0	6.0	9.0	12.0	14.0	15.0	15.0	16.0	
<b>Impact on Forecasted Consumption and Demand</b>	Energy (MWh)	<b>Baseline Energy Forecast</b>	<b>1,959,315</b>	<b>2,006,332</b>	<b>2,049,940</b>	<b>2,119,192</b>	<b>2,149,610</b>	<b>2,186,413</b>	<b>2,227,770</b>	<b>2,261,891</b>	<b>2,297,860</b>	<b>2,335,702</b>	
		After Feasible Targets	1,951,491	1,991,237	2,023,653	2,066,015	2,068,924	2,084,385	2,111,312	2,137,685	2,165,815	2,195,712	
		After All Cost-Effective	1,762,120	1,796,313	1,829,045	1,885,930	1,907,100	1,934,088	1,965,175	1,989,592	2,015,780	2,040,955	
		After Technical	1,703,084	1,730,229	1,756,101	1,806,395	1,822,398	1,843,788	1,868,906	1,887,490	1,907,561	1,926,551	
	Demand (MW)	<b>Baseline Demand Forecast</b>	<b>476</b>	<b>488</b>	<b>498</b>	<b>513</b>	<b>521</b>	<b>530</b>	<b>540</b>	<b>548</b>	<b>556</b>	<b>564</b>	
		After All Cost-Effective	453	464	472	486	493	500	509	516	522	529	
Demand (MW)	Average Annual <u>Technical</u> Potential	1.89%											
	Average Annual <u>Cost-Effective</u> Potential	1.36%											
Average Annual Impact on Forecasted Consumption and Demand	Demand (MW)	Average Annual <u>Feasible</u> Targets	0.65%										
		Average Annual <u>Technical</u> Potential	1.11%										
		Average Annual <u>Cost-Effective</u> Potential	0.67%										
		Average Annual Feasible Targets	0.31%										

# 6/30/07 Preliminary Target: Pending Approval of Governing Board

## City of Ukiah

		2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	
Technical Energy Efficiency Potential	Energy (MWh)	System Total	14,266	16,031	16,828	17,513	18,207	18,979	19,617	20,328	21,052	22,088
		Residential	6,646	7,422	7,794	8,108	8,398	8,702	8,979	9,274	9,559	10,167
		Commercial	7,279	8,254	8,671	9,035	9,431	9,889	10,243	10,650	11,082	11,500
		Conventional Industrial	341	355	362	370	378	387	395	403	411	421
		Data Centers	0	0	0	0	0	0	0	0	0	0
		Semiconductor Manufacturers	0	0	0	0	0	0	0	0	0	0
	Labs	0	0	0	0	0	0	0	0	0	0	
	Demand (MW)	System Total	2	2	2	2	2	2	3	3	3	3
		Residential	1	1	1	1	1	1	1	1	1	1
		Commercial	1	1	1	1	1	1	2	2	2	2
		Conventional Industrial	0	0	0	0	0	0	0	0	0	0
		Data Centers	0	0	0	0	0	0	0	0	0	0
		Semiconductor Manufacturers	0	0	0	0	0	0	0	0	0	0
Labs	0	0	0	0	0	0	0	0	0	0		
Cost-Effective Energy Efficiency Potential	Energy (MWh)	System Total	11,638	12,900	13,479	14,014	14,552	15,138	15,631	16,173	16,710	17,599
		Residential	5,719	6,322	6,592	6,817	7,026	7,244	7,437	7,644	7,845	8,388
		Commercial	5,631	6,278	6,580	6,885	7,207	7,567	7,860	8,188	8,517	8,856
		Conventional Industrial	289	300	306	313	320	327	334	341	348	355
		Data Centers	0	0	0	0	0	0	0	0	0	0
		Semiconductor Manufacturers	0	0	0	0	0	0	0	0	0	0
	Labs	0	0	0	0	0	0	0	0	0	0	
	Demand (MW)	System Total	1	1	2	2	2	2	2	2	2	2
		Residential	1	1	1	1	1	1	1	1	1	1
		Commercial	1	1	1	1	1	1	1	1	1	1
		Conventional Industrial	0	0	0	0	0	0	0	0	0	0
		Data Centers	0	0	0	0	0	0	0	0	0	0
		Semiconductor Manufacturers	0	0	0	0	0	0	0	0	0	0
Labs	0	0	0	0	0	0	0	0	0	0		
Feasible Targets	Energy (MWh)	System Total	198	396	594	792	990	1,188	1,386	1,584	1,781	1,979
	Demand (MW)	System Total	0.0	0.0	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2
Impact on Forecasted Consumption and Demand	Energy (MWh)	Baseline Energy Forecast	120,366	124,952	125,194	125,952	126,758	127,964	128,419	129,245	130,068	131,296
		After Feasible Targets	120,168	124,556	124,600	125,160	125,769	126,776	127,033	127,662	128,286	129,317
		After All Cost-Effective	108,728	112,052	111,715	111,937	112,206	112,826	112,787	113,072	113,358	113,697
	After Technical	106,100	108,921	108,366	108,439	108,551	108,985	108,802	108,918	109,015	109,209	
	Demand (MW)	Baseline Demand Forecast	37	39	39	39	39	40	40	40	40	41
After Feasible Targets		37	39	39	39	39	40	40	40	40	41	
After All Cost-Effective		36	37	37	38	38	38	38	38	38	39	
After Technical	36	37	37	37	37	37	37	37	38	38		
Average Annual Impact on Forecasted Consumption and Demand	Energy (MWh)	Average Annual <u>Technical</u> Potential	1.74%									
		Average Annual <u>Cost-Effective</u> Potential	1.39%									
		Average Annual <u>Feasible</u> Targets	0.16%									
	Demand (MW)	Average Annual <u>Technical</u> Potential	0.72%									
Average Annual <u>Cost-Effective</u> Potential		0.52%										
Average Annual Feasible Targets		0.05%										

## **City of Vernon**

Data Still Pending