BEFORE THE PUBLIC UTILITIES COMMISSION OF THE
STATE OF CALIFORNIA

Order Instituting Rulemaking to Enhance the Role of Demand Response in Meeting the State’s Resource Planning Needs and Operational Requirements.  

SOUTHERN CALIFORNIA EDISON COMPANY’S (U 338-E) ANNUAL COMPLIANCE FILING PURSUANT TO DECISION 08-09-039

ANNA VALDBERG
ROBIN Z. MEIDHOF

Attorneys for
SOUTHERN CALIFORNIA EDISON COMPANY

2244 Walnut Grove Avenue
Post Office Box 800
Rosemead, California 91770
Telephone: (626) 302-6054
E-mail: Robin.Meidhof@sce.com

Dated: April 30, 2019
BEFORE THE PUBLIC UTILITIES COMMISSION OF THE
STATE OF CALIFORNIA

Order Instituting Rulemaking to Enhance the Role of Demand Response in Meeting the State’s Resource Planning Needs and Operational Requirements. R.13-09-011

SOUTHERN CALIFORNIA EDISON COMPANY’S (U 338-E) ANNUAL COMPLIANCE FILING PURSUANT TO DECISION 08-09-039

Pursuant to Ordering Paragraph 3 of Decision (D.) 08-09-039, Southern California Edison Company (SCE) hereby files its 2019 Edison SmartConnect® Demand Response and Energy Conservation Annual Report and its Edison SmartConnect® Enabled Energy Conservation Programs Report. In authorizing the deployment of Edison SmartConnect, in D.08-09-039, the Commission directed SCE to file in proceeding R.07-01-041 (or its successor proceeding, which is currently R.13-09-011) a report on the energy savings and associated financial benefits of all demand response, load control, and conservation programs enabled by Edison SmartConnect.1 The report is due in April of each year until 2019.2 In compliance therewith, SCE’s 2019 Edison SmartConnect Demand Response and Energy Conservation Annual Report is attached hereto as Appendix A; and SCE’s Edison SmartConnect Enabled Energy Conservation Programs Report is attached hereto as Appendix B.

---

1 See D.08-09-039, Ordering Paragraph No. 3.
2 Id.
Respectfully submitted,

ANNA VALDBERG
ROBIN Z. MEIDHOF

/s/ Robin Z. Meidhof
By: Robin Z. Meidhof

Attorneys for
SOUTHERN CALIFORNIA EDISON COMPANY

2244 Walnut Grove Avenue
Post Office Box 800
Rosemead, California 91770
Telephone: (626) 302-6054
E-mail: Robin.Meidhof@sce.com

Date: April 30, 2019
2019 Edison SmartConnect® Demand Response and Energy Conservation Annual Report

April 2019
Southern California Edison
# Table of Contents

1. Executive Summary .......................................................................................................................... 1

2. Program Overview ............................................................................................................................ 2
   2.1. Smart Energy Program (Formerly Save Power Day Incentive) ................................................ 2
   2.2. Critical Peak Pricing .................................................................................................................. 4
   2.3. Time-of-Use Rates .................................................................................................................... 5
   2.4. Web Presentment Tools ............................................................................................................ 8
   2.5. Budget Assistant ....................................................................................................................... 8
   2.6. In Home Displays ...................................................................................................................... 8

3. 2018 Demand Response and Energy Conservation Results .......................................................... 9
List of Tables

Table I Edison SmartConnect®-Enabled Demand Response Programs ..................................................... 10
Table II Edison SmartConnect®-Enabled Energy Conservation Programs .................................................. 11
1. Executive Summary

This report documents the 2018 load impacts, energy savings, and financial benefits for the Edison SmartConnect®-enabled demand response (DR) and energy conservation programs. The DR programs and rates presently designed for Edison SmartConnect®-enabled customers include the Smart Energy Program (formerly Save Power Day Incentive, Peak Time Rebate or PTR), Critical Peak Pricing (CPP), and Time-of-Use (TOU) rates (e.g., Off-Peak Savings Plan).

The energy conservation programs presently designed for Edison SmartConnect®-enabled customers include Web Presentment Tools, Budget Assistant, and In-Home Displays (IHD). Web Presentment Tools include information such as Bill-to-Date, Projected Next Bill and Usage Reports. The Budget Assistant program leverages the Projected Next Bill feature to provide automated proactive performance notifications to customers who have set a monthly spending goal. The IHDs are comprised of two pilot programs, standard IHDs presenting near-real-time energy usage, and the Real Time Cost Pilot (RTCP) that uses a similar IHD device to provide near-real-time cost information instead of energy usage.

The available Edison SmartConnect®-enabled programs are offered to customers with demands less than 200 kW. For the DR program participants, six Edison SmartConnect®-enabled Smart Energy Program events were evaluated in 2018, averaging approximately 21.5 MW of demand reduction per event hour. Residential customers enrolled in the Budget Assistant program demonstrated an energy savings of 0.4% of their usage due to energy conservation compared to non-participants, and customers enrolled in the Web Presentment Tools continue to not demonstrate any statistically significant energy conservation. Customers with an IHD device demonstrated a reduction of 3.7% of their average daily usage due to energy conservation.

This report is required by Ordering Paragraph 3 of Decision (D.)08-09-039, which directed SCE to file in Rulemaking 07-01-041 or its successor preceding a report on “the energy savings and associated financial benefits of all demand response, load control, and conservation programs enabled by Edison SmartConnect® in April of each year until 2019.” The reporting format incorporates input from the Energy Division, and the estimates contained herein are consistent with the Commission’s adopted load impact protocols contained in D. 08-04-050.3

---

1 On June 1, 2018, SCE renamed “Save Power Day” to the “Smart Energy Program” pursuant to Advice 3731-E.
2 In 2016, SCE stopped using the marketing name for CPP, “Summer Advantage Incentive.” SCE made this change to address customer confusion regarding program features that did not align with the alternative name.
2. **Program Overview**

During 2018 there were a number of Edison SmartConnect®-enabled DR and energy conservation programs available and in various states of development. The DR programs include: (1) Smart Energy Program, (2) CPP, and (3) TOU rates.

The energy conservation programs include: (1) Web Presentment Tools (such as Bill-to-Date, Projected Next Bill and Usage Reports) (2) Budget Assistant and (3) IHD. A brief description and the current status for each program are described below. SCE’s Web Presentment Tools and Budget Assistant program were also described in SCE’s Advice Letter (AL 2693-E) filed in compliance with D.11-07-056.

Tables I and II, located at the end of this report, provide the number of participating service accounts, estimated DR (MW), energy savings (MWh), and financial benefits associated with the Edison SmartConnect®-enabled DR and energy conservation programs on an ex post basis.

2.1. **Smart Energy Program (Formerly Save Power Day Incentive)**

SCE’s Smart Energy Program (formerly Save Power Day Incentive or Peak Time Rebate/PTR) is a direct load control demand response program available to residential bundled service customers where enabling technology is used and actively controlled by SCE-approved third-party entities in response to called events. Presently, qualifying Wi-Fi-enabled smart thermostats controlling a working central air conditioning system are the only supported enabling technology. During a Smart Energy Program event, the SCE-approved third-party entities will adjust the temperature setting on the thermostats to limit air conditioner usage. In 2018, the program was available to be called anytime throughout the year between 11:00 a.m. and 8:00 p.m. for a minimum of one hour and up to four hours, per day, on non-holiday weekdays. Multiple events per day can be called but cannot exceed a maximum of four hours per day.

SCE does not supply the enabling technology as part of the Smart Energy Program but applies a Bring Your Own Device concept where customers purchase and install a qualifying Wi-Fi-enabled smart thermostat of their choice to enroll in the program. SCE provides eligible program participants a one-time technology incentive of $75 in the form of a bill credit for enrolling in the Smart Energy Program. All participants who enroll are also eligible to earn summer bill credits of up to $40 from

---

4 The program names may later be changed for marketing purposes.
June 1 to October 1. Additionally, customers who participate in energy events and reduce their usage below a Customer Specific Reference Level (CSRL), could earn $0.07 per kWh reduced. The CSRL is defined as the average kWh usage during the same hours as the event hours during the 11:00 a.m. to 8:00 p.m. time period of the three (3) highest kWh usage days of the five (5) non-event, non-holiday weekdays immediately preceding the event.

The program was initially rolled out in 2012 with two options:

1. Save Power Day Incentive or Peak Time Rebate (PTR): A default rate for all residential customers with an Edison SmartConnect® meter. This was a non-technology option where customers earned $0.75 per kWh reduced during a Save Power Days event.

2. Save Power Day Incentive Plus or PTR with Enabling Technology (PTR-ET): Customers who install and use a qualifying device that is registered and actively communicating with SCE’s electric meter would earn $1.25 per kWh reduced during a Save Power Days event. The device must be capable of displaying or supporting the display of real-time usage information.

Since its inception in 2012, SCE has implemented program improvements, including converting to an opt-in program in 2014, to only provide bill credits to customers who actively opted to receive event alerts. SCE also introduced a direct load control option, known as PTR-ET-DLC. To participate in this new option, customers would enroll in an SCE-authorized DLC program in which enabling technology would be used and actively controlled by an SCE-approved third party entity in response to Save Power Days events. A load impact study published in April 2014 showed an average of 0.75 kW reduction per customer per hour during DR events and recommended continuing this effort in order to develop a full-scale program.

On April 20, 2017, PTR and PTR-ET were discontinued following an assessment that identified a low per customer savings, poor cost-effectiveness, and low dispatch flexibility. SCE opted to maintain the PTR-ET-DLC option as it proved successful, with much higher rates of customer enrollment and device participation during events at a fraction of the cost, since equipment was not purchased or installed by or through SCE. SCE’s Save Power Day Incentive Plus/PTR-ET-DLC program option was redesigned in 2018 in an effort to enable market integration, which was achieved in 2019 in

---

6 AL 3001-E was approved on March 5, 2014 with an effective date of May 1, 2014.
8 AL 3572-E was approved on February 23, 2018 with an effective date of March 6, 2017.
compliance with Commission requirement. As part of this change, the program was also renamed to Smart Energy Program, to align with the long-term strategy of eventually accommodating multiple types of load through smart technology. In 2018, the Smart Energy Program reached 56,000 net enrollments. The program is currently capable of contributing approximately 36 MW of peak demand response capacity when called upon.

2.2. Critical Peak Pricing

SCE’s Edison SmartConnect-enabled CPP is designed to encourage residential, commercial and industrial (C&I), and agricultural customers to reduce load by responding to price signals during CPP events. The program is available year-round and is called on a day-ahead basis for a 5-hour period from 4:00 pm to 9:00 pm, on non-holiday weekdays.

CPP is offered as an optional overlay to a customer’s rate for the aforementioned rate groups. CPP has event charges of $0.80/kWh, and provides offsetting credits to be applied to non-event summer on-peak usage energy or demand charges, depending on the underlying rate structure.

SCE’s original CPP program was included as part of SCE’s 2009 General Rate Case (GRC) Phase 2 application and was approved in D.09-08-028. In compliance with D.09-08-028, on September 10, 2010 SCE filed a proposal to default C&I customers with demands less than 200 kW and agricultural and pumping customers with demands greater than or equal to 200 kW to TOU/CPP rates in its Dynamic Pricing Application (A.10-09-002). A.10-09-002 was dismissed and SCE subsequently included its dynamic pricing proposals in its 2012 GRC Phase 2 (A.11-06-007). On April 2, 2013, the Commission issued a Final Decision on SCE’s 2012 GRC Phase 2 Application (D.13-03-031). The decision included an updated rate design and directed SCE to implement default CPP rates for

---


10 CPP was originally reviewed by the Commission in A.07-07-026, which was approved in D.08-09-039. Changes to the CPP program were proposed in A.16-09-003 and adopted by the Commission in D.18-07-006. These changes were implemented on March 1, 2019.

11 In A.16-09-003, SCE proposed to phase-in the implementation of the updated CPP charges and credits over a two-year period. Therefore, beginning March 1, 2019, the CPP charge was set at $0.40/kWh. This will increase to the full $0.80/kWh in 2020. See Testimony of Southern California Edison Company in Support of its Application for Approval of its 2016 Rate Design Proposal, A.16-09-003, Exhibit SCE-1, pp. 90-91. This proposal was adopted by the Commission in D.18-07-006, p. 67.

12 For rates with generation capacity included in the energy charge (e.g., Schedule D), the CPP credit will be provided on a kWh basis. For rates with the generation capacity included in the demand charge (e.g., TOU-GS-2, Option D), the CPP credit will be provided on a kW basis.
non-residential customers with demands less than 200 kW in its 2015 GRC Phase 2 application. Pursuant to a settlement agreement adopted in D.16-03-030, the Commission authorized SCE to propose a plan to default its small commercial customers to default CPP in a September 1, 2016 rate design window (RDW) application.\(^{13}\)

On September 1, 2016, SCE filed its 2016 RDW Application (A.16-09-003), which included defaulting C&I customers with demands less than 200 kW and agricultural and pumping customers with demands equal to or greater than 200 kW to default CPP. SCE proposed six additional changes to the CPP program, including: (1) synchronizing the CPP event periods with SCE’s updated on-peak TOU periods (i.e., 4-9 p.m.), (2) updating the CPP event charge and credit levels, (3) streamlining the available CPP options by eliminating the CPP-Lite and capacity reservation level hedging mechanisms, (4) proposing enhanced bill protection, (5) requiring at least 24 months of TOU experience before a customer is eligible for defaulting to CPP, and (6) defaulting eligible customers on an annual basis only after the summer season has concluded. All of these proposals were approved by the Commission in D.18-07-006 and were implemented on March 1, 2019.

The current program is available on a default and optional opt-in basis to customers with an Edison SmartConnect\(^{\circledR}\) meter. SCE expects more significant enrollments and measurable load reductions to occur now that default CPP has been implemented for the majority of non-residential customers. In March 2019, approximately 285,000 small and medium business customers and large agricultural and pumping customers were defaulted to CPP.

2.3. Time-of-Use Rates

SCE’s TOU rates (e.g., Off-Peak Savings Plan for residential customers) are available to all residential, C&I, and agricultural customers. TOU rates are not mandatory for residential customers, although at the end of 2018, there were over 440,000 residential customers enrolled in a TOU rate.\(^{14}\)

For C&I and agricultural customers, TOU rates became mandatory beginning in January 2014 in compliance with D.13-03-031.\(^{15}\) Accounts with 12 months of interval data as of August 1, 2013

---

\(^{13}\) See D.16-03-030, at p. 16-17.

\(^{14}\) These and other statistics pertaining to residential TOU are recorded and submitted as part of quarterly reports in R.12-06-013.

\(^{15}\) In compliance with D.09-08-028, on September 10, 2010 SCE filed a proposal to transition non-residential customers with demands less than 200 kW to mandatory TOU rates in its Dynamic Pricing Application (A.10-09-002). A.10-09-002 was dismissed and SCE subsequently included its dynamic pricing proposals in its 2012 GRC Phase 2 (A.11-06-007). On April 2, 2013, the Commission issued a Final Decision on SCE’s 2012 GRC Phase 2 Application (D.13-03-031). The
transitioned in early 2014 while the remaining accounts transitioned in early 2015. Since January 2014, over 600,000 non-residential service accounts have transitioned to the mandatory TOU rates (approximately 393,000 service accounts transitioned in early 2014 and 216,000 in early 2015). On March 1, 2019, SCE implemented the updated TOU periods adopted for non-residential customers in D.18-07-006. The new TOU periods are shown below.

### Adopted TOU Periods (Weekdays)

<table>
<thead>
<tr>
<th>TOU Period</th>
<th>Summer (June – September)</th>
<th>Winter (October – May)</th>
</tr>
</thead>
<tbody>
<tr>
<td>On-peak</td>
<td>4 p.m. - 9 p.m.</td>
<td></td>
</tr>
<tr>
<td>Mid Peak</td>
<td></td>
<td>4 p.m. - 9 p.m.</td>
</tr>
<tr>
<td>Off-peak</td>
<td>All hours except 4 p.m. - 9 p.m.</td>
<td>9 p.m. - 8 a.m.</td>
</tr>
<tr>
<td>Super-off-peak</td>
<td></td>
<td>8 a.m. - 4 p.m.</td>
</tr>
</tbody>
</table>

### Adopted TOU Periods (Weekends)

<table>
<thead>
<tr>
<th>TOU Period</th>
<th>Summer (June – September)</th>
<th>Winter (October – May)</th>
</tr>
</thead>
<tbody>
<tr>
<td>On-peak</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mid Peak</td>
<td>4 p.m. - 9 p.m.</td>
<td>4 p.m. - 9 p.m.</td>
</tr>
<tr>
<td>Off-peak</td>
<td>All hours except 4 p.m. - 9 p.m.</td>
<td>9 p.m. - 8 a.m.</td>
</tr>
<tr>
<td>Super-off-peak</td>
<td></td>
<td>8 a.m. - 4 p.m.</td>
</tr>
</tbody>
</table>

In 2018, SCE conducted two outreach campaigns to residential customers encouraging enrollment in a TOU rate for those that would benefit on TOU. In April 2018, SCE sent bill comparison emails to a subset of 206,000 customers who benefit on TOU to make customers aware that they may save on a TOU rate. The email provided the customer with a direct link to SCE’s online rate analysis tool to analyze their best rate options. Once a customer logs on to the tool with the service account and zip code, they see all available rate options and projected costs under each rate. Within the first month of the campaign, visits to the site increased by 9,900 (4.8%), including an increase of 3,600 web visits on the first day. As a result, two percent of the customers receiving the outreach have transitioned to TOU (4,160 of 206,378).

---

decision included an updated rate design and directed SCE to transition non-residential customers with demand less than 200 kW to mandatory TOU beginning in January 2014.

See OP 1 of D.18-07-006.
In October, SCE conducted a second campaign to residential customers expected to benefit on a TOU rate. SCE sent two emails to 190,000 customers who would likely benefit on TOU, as well as a direct mailing to 100,000 customers, with half receiving a business reply card (BRC) and half without a BRC. The communications displayed the best rate options for the customer, with one side in English and the other side in Spanish. The second campaign resulted in a take rate of 1.7 percent, equating to approximately 5,000 customers selecting to go on a TOU rate. Test results also showed customers who received direct mail had a higher response rate enrolling through BRCs, with 55 percent of CARE customers preferring BRC versus other reply channels and 18 percent of BRCs completed in Spanish.

In compliance with D.15-07-001, SCE has started to prepare for default TOU of its residential customers. As directed in D.15-07-001, SCE was ordered to conduct two TOU pilots to help inform the full scale-roll out of default TOU to eligible residential customers. The first pilot, an 18-month TOU Opt-in Pilot was launched in June 2016 with approximately 21,500 customers, was designed to provide key information on rate design, technology, effective marketing and education, and to help SCE determine if TOU rates cause unreasonable hardship for senior citizens or economically vulnerable customers in hot climate zones. The second pilot was the March 2018 Default TOU Pilot that targeted 400,000 customers, which was also intended to help inform the transition of default TOU and operationally prepare SCE for the mass TOU transition that is expected to launch in the later part of 2020.

A Residential Default Time-of-Use Pricing Pilot Interim Evaluation was completed on March 13, 2019. This evaluation examined load impacts, bill impacts and opt-out findings from customers’ first summer covering the 2018 summer period (June through September) on the new TOU rates. The Interim Evaluation load impact analysis found peak period load reductions for each pilot rate of 1.5% for TOU rate 4-9 pm, and 2% for the 5-9 pm rate. Key findings are referenced as summarized in the table below. Statistically significant but small reductions in daily electricity use were found for both rates and in all climate regions. It appears that the average customer in SCE’s service territory was more likely to reduce overall usage during the peak period rather than shift usage to off-peak hours.\(^\text{17}\)

\(^{17}\) Nexant Default Time-of-Use Pricing Pilot Interim Evaluation, March 13, 2019, p. 4
2.4. Web Presentment Tools

The Web Presentment Tools such as Bill-to-Date, Projected Next Bill, Tier Position and Interval Data based Usage Reports are currently available to customers with Edison SmartConnect® meters who are enrolled on My Account within SCE.com. The web presentment information is updated daily and available to both residential and business account customers. Through year-end 2018, there are approximately 2.8 million residential and non-residential customers enrolled in My Account.

2.5. Budget Assistant

To complement the Web Presentment Tools, SCE developed a proactive performance notification tool referred to as Budget Assistant. Budget Assistant is currently available to customers with a SmartConnect® meter and provides enrolled customers with routine notifications regarding how their projected costs compare to their preselected monthly spending target for each billing period. There were a combined total of 723,146 residential and non-residential customers enrolled on Budget Assistant by year-end 2018. Customers can customize their Budget Assistant enrollment preferences based upon how they wish to receive the alerts (voice, text, email) as well as the frequency of when they get the alerts. Of those enrolled, 18 percent chose to receive weekly updates, 33 percent chose to be notified only mid-month, and 49 percent chose to be notified only when their projected next bill was forecast to exceed their monthly budget target. Customers also have the ability to customize their spending goal for both summer and winter periods and can be updated at any time.

2.6. In Home Displays

IHDs are consumer-owned energy information display devices which can communicate with Edison SmartConnect® meters through a non-proprietary open standard Home Area Network (HAN). IHDs
that are securely registered to the smart meter can receive near real-time usage information from the meter and energy cost-related text messages from SCE.

SCE used a phased approach to enable HAN functionality and programs for its customers. HAN Phase 1 was implemented in December 2011 and enabled customers to register SEP 1.0 devices to SCE smart meters and to participate in Save Power Day Incentive Plus, which enabled customers to receive a bill credit for reducing their usage below their average during a Save Power Day event. SCE provided free SEP 1.0 IHDs to 500 customers in this limited launch. HAN Phase 2 was implemented in December 2012 and SCE expanded its HAN capabilities by enabling customers to register customer-purchased SEP 1.x devices via the SCE portal, automating manual back office processes, adding the ability for SCE to send load control commands to SEP1.x ZigBee-enabled Programmable Communicating Thermostat (HAN functionality that was authorized by D.08-09-039) and supported the ability to scale to 25,000 registered devices by year-end 2013.

In 2013, 332 customer-purchased display devices were provisioned to customer smart meters. Outreach efforts in 2013 included campaigns with various third-party service providers but yielded very low participation. 2014-2017 saw an annual growth of approximately 300 customer-purchased display devices that were purchased and provisioned to the customer’s meter. SCE performed limited outreach regarding IHDs during those years, although SCE launched the HAN incentive rebate in December 2017 in response to the AB793 requirement to offer Energy Management Tools.

In 2018, there were approximately 150 new customer-purchased IHD devices that enrolled into HAN, including 51 customers who took advantage of the HAN incentive rebate offering on sce.com. Total enrollment for HAN is approximately 2,400 customers, although many of those customers did not have an active device connected to the meter.

3. 2018 Demand Response and Energy Conservation Results

Table I and Table II, located in the following pages, provides the 2018 DR and energy conservation results. The DR results are based on SCE’s Ex Post and Ex Ante Load Impact Reports filed on April 1, 2019, and the energy conservation estimates and enrollment patterns are outlined in the white paper attached to this report.
Table I
Edison SmartConnect®-Enabled Demand Response Programs
Subscription Statistics
December 31, 2018

<table>
<thead>
<tr>
<th>Program</th>
<th>Service Accounts(^{18})</th>
<th>Load Impact</th>
<th>Financial Benefits ($000s)(^{19})</th>
<th>Energy Savings</th>
<th>Financial Benefits ($000s)</th>
<th>Total Financial Benefits ($000s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Demand Response</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Smart Energy Program</td>
<td>54,199</td>
<td>21.5(^{20})</td>
<td>2,116</td>
<td>0</td>
<td>0</td>
<td>2,292</td>
</tr>
<tr>
<td>Critical Peak Pricing</td>
<td>3,016</td>
<td>14.5(^{21})</td>
<td>1,427</td>
<td>0</td>
<td>0</td>
<td>1,546</td>
</tr>
<tr>
<td>Default Time-of-Use Residential Pilot</td>
<td>298,045</td>
<td>50.7(^{22})</td>
<td>4,989</td>
<td>0(^{23})</td>
<td>0</td>
<td>5,406</td>
</tr>
</tbody>
</table>

\(^{18}\) Number of service accounts enrolled determined as follows:
- Smart Energy Program: Number of service accounts enrolled in in Smart Energy Program for at least one 2018 program event.
- CPP: Number of service accounts enrolled in CPP for a typical event day in 2018 (actual counts vary by event).
- TOU Rates: Number of Default TOU Pilot service accounts on treatment rates for summer 2018.

\(^{19}\) Financial benefits of demand reduction = load reduction (kW) x accepted avoided generation capacity costs. SCE’s adopted avoided marginal summer generation capacity value for 2018 was $98.40/kW-year (based on CPUC’s 2018 Avoided Cost Calculator: [http://www.cpuc.ca.gov/general.aspx?id=5267](http://www.cpuc.ca.gov/general.aspx?id=5267)).

\(^{20}\) Load impact of 21.5 MW is the average hourly load impact across 6 program events in 2018. These results are based on the 2018 Load Impact Evaluation of SCE’s Smart Energy Program, filed on April 1, 2019.

\(^{21}\) Load impact of 14.5 MW is the average hourly load impact across 12 program events in 2018. These results are based on the 2018 Statewide Load Impact Evaluation of California Non-Residential Critical Peak Pricing Programs, filed on April 1, 2019.

\(^{22}\) Load impact of 50.7 MW is the summer monthly system peak impact for 2018. These results are based on the Default Time-of-Use Pricing Pilot Interim Evaluation, filed on April 1, 2019.

\(^{23}\) The Default TOU Pilot Evaluation did not estimate energy savings, as the evaluation period was less than 1 full year.
# Table II
Edison SmartConnect®-Enabled Energy Conservation Programs
Subscription Statistics
December 31, 2018

<table>
<thead>
<tr>
<th>Program</th>
<th>Service Accounts</th>
<th>Energy Savings (MWh)</th>
<th>Financial Benefits ($000s)</th>
<th>Load Impacts (MW)</th>
<th>Financial Benefits ($000s)</th>
<th>Total Financial Benefits ($000s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Web Presentment Tools</td>
<td>2,471,833</td>
<td>0^27</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Budget Assistant</td>
<td>682,562</td>
<td>7,277</td>
<td>255</td>
<td>0</td>
<td>0</td>
<td>255</td>
</tr>
<tr>
<td>In-Home Display</td>
<td>2,270</td>
<td>788^28</td>
<td>28</td>
<td>0</td>
<td>0</td>
<td>28</td>
</tr>
</tbody>
</table>

24 Number of service accounts enrolled determined as follows:
- Web Presentment Tools such as Bill-to-Date, Projected Next Bill and Usage Reports: Number of customer sign-ups for access to interval data on SCE’s web site.
- Budget Assistant: Number of program enrollments.
- In-Home Display: Number of devices registered with SCE In-Home Display program includes: (1) building integrated graphical display (new construction and existing homes), (2) handheld graphical display, and (3) PC based graphical display.

These numbers do not reflect end-of-year enrollment, but rather full-year participation (accounts enrolled for the entirety of 2018) to reflect realized savings. Accounts enrolled during 2018 are not included.

25 Program conservation MWhs are reported consistent with Energy Efficiency M&E Protocols.

26 Financial benefits of energy savings = energy savings (kWh) x avoided energy costs. SCE’s average market price of electricity for 2018 was $35.01/MWh.

27 Analysis did not sufficiently confirm statistically significant savings.

28 The savings are associated with the period January-December 2018.
<table>
<thead>
<tr>
<th><strong>Glossary</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>AMI</strong></td>
</tr>
<tr>
<td><strong>C&amp;I</strong></td>
</tr>
<tr>
<td><strong>Conservation</strong></td>
</tr>
<tr>
<td><strong>Critical Peak Pricing</strong></td>
</tr>
<tr>
<td><strong>Customer Specific Reference Level (CSRL)</strong></td>
</tr>
<tr>
<td><strong>Demand Response (DR)</strong></td>
</tr>
<tr>
<td><strong>Demand Response Event</strong></td>
</tr>
<tr>
<td><strong>Dynamic Rate</strong></td>
</tr>
<tr>
<td><strong>Electricity (or Energy) Savings</strong></td>
</tr>
</tbody>
</table>
Enabling Technology
Any technology that allows a customer or electric service provider to pre-program a control strategy - for an individual electric load, group of electric loads, or an entire facility – to be automatically activated in response to a dispatch. Programmable Communicating Thermostats are an example of enabling technology.

Energy Efficiency
Activities or programs that stimulate customers to reduce customer energy use by making investments in more efficient equipment or controls that reduce energy use while maintaining a comparable level of service as perceived by the customer. Energy efficiency saves kilowatt-hours on a persistent basis, rather than being dispatchable for peak hours, as are some demand-response programs.

Enrollment
The amount of customer participation in a demand-response program. Participation refers to either the number of customers or the amount of MW who have registered for a program and have met eligibility criteria. Customer participation in a program does not necessarily imply that the customer will actively adjust their consumption due to direction from a grid operator or price signals. Consequently, enrollment typically measures potential demand reduction that could be achieved.

Home-Area Network (HAN)
A communications system that connects an advanced meter with other devices in a customer’s home or business, such as “smart” appliances and “smart” thermostats.

Kilowatt (kW):
A unit of electrical power equal to 1,000 watts, which constitutes the basic unit of electrical demand. The watt is a metric measurement of power (not energy) and is the rate (not the duration over which) electricity is used. 1,000 kW is equal to 1 megawatt (MW).

Kilowatt-Hour (kWh)
A basic unit of electrical energy. A kilowatt-hour is equal to one kilowatt of power supplied to or taken from an electric circuit steadily for one hour (kWh = kW x hour). Electricity rates are most commonly expressed in cents per kilowatt hour.

Load Impact
The change in energy use during a pricing period resulting from customer response to a time-varying rate, an enabling technology or a combination of the two. Impacts may be expressed in absolute terms (kWh/hour) or in percentage terms (i.e., the absolute impact divided by the baseline usage that existed prior to the implementation of time varying rates).

Megawatt (MW)
Unit of electrical power equal to one million watts; also equals 1,000 kW.

Megawatt Hour (MWh)
A megawatt-hour is equal to one million watts of power supplied to or taken from an electric circuit steadily for one hour (MWh = MW x hour).

Time-of-Use (TOU) Rate
A rate in which the price of electricity varies as a function of usage period, typically by time of day, by day of week, and/or by season. In a time-of-use rate structure, higher prices may be charged during utility peak-load times. Such rates can provide an incentive for consumers to curb power use during peak time.
| **Price Responsive Demand Response** | All demand-response programs that include the use of time-based rates to encourage retail customers to reduce demands when prices are relatively high. These demand-response programs may also include the use of automated responses. Customers may or may not have the option of overriding the automatic response to the high prices. |
| **Programmable Communicating Thermostat (PCT)** | Thermostats that adjust room temperatures automatically in response to price changes or remote signals from system operators. Also known as “smart” thermostats. |
| **Rate** | The retail price of electricity per-kW demand or per-kWh usage. A rate may vary as a function of usage (tiered rate), demand (demand rate), period of use (time-of-use), or as a function of system conditions (dynamic rate). |
| **Reliability-Based Program** | Programs that are activated during system emergencies or to maintain local or system reliability. Reliability-based demand-response programs typically include emergency demand-response programs, capacity market programs, direct load control (DLC), interruptible/curtailable rates, and ancillary-services market programs. |
| **Smart Energy Program** | A program that provides customers with summer bill credits for their enrollment in the program. Additional bill credits can be earned for demand reductions below a customer-specific baseline when the program is called due to market or system conditions. This program was formerly known as the Save Power Day Incentive or Peak Time Rebate Program (PTR). |
| **Service Account** | A record at the energy provider that identifies an entity receiving electric service at one or more locations within the utility service footprint. The identified entity is responsible for paying the cost of energy consumed and metered at the location(s) on the account. |
| **Tiered Rate** | A rate in which predetermined prices change as a function of cumulative customer electricity usage within a predetermined time frame (usually monthly). |
Appendix B

Edison SmartConnect® Enabled Energy Conservation Programs Report
Edison SmartConnect-Enabled Energy Conservation Programs
2018 Enrollment and Conservation Assessment White Paper

OVERVIEW
The Southern California Edison (SCE) customer web presentment programs (Bill-to-Date and Bill Forecast) and Budget Assistant program are energy management programs enabled by the installation of SCE’s SmartConnect meters. The customer web presentment (CWP) programs are accessed through SCE’s My Account online web portal. The My Account and Budget Assistant programs are behavioral feedback treatments intended to stimulate customers to change their energy consuming behaviors and enable conservation impacts. Budget Assistant program participants may opt for either periodic notifications (weekly or monthly), or conditional notification contingent on bill projections in comparison to a selected threshold. SCE allows customers to register In-Home Displays to securely communicate with smart meters to receive near real-time usage data and cost-related information.

The SmartConnect programs and the IHD pilot have been previously been evaluated in the SCE Program Year 2012 Edison SmartConnect® Program Enabled Energy Conservation¹ report (Itron 2012 Report) and Edison SmartConnect Enabled Programs Energy Conservation reports from 2013 – 2017 (Edison Energy Conservation Reports). This report utilizes conservation estimates of these earlier studies and applies them to 2018 whole-year program enrollment.

WEB PRESENTMENT TOOLS
The CWP programs are accessed through SCE’s My Account online web portal, which provides customers access to their historical billing, payment, and electric usage data. Customers may access hourly energy usage information up to the previous day and are provided with forecasts of their current month’s bill (Projected Next Bill) and estimates of their accumulated charges (Bill-to-Date). Customers can also sign up for other Edison SmartConnect enabled energy saving programs, such as Budget Assistant.

Enrollment

Enrollment volumes in My Account (since 2012) are depicted in the charts below.

Chart 1: My Account Enrollment Volume by Month (Non-Residential)

Non-Residential Enrollment Volume since 2012

Chart 2: My Account Enrollment Volume by Month (Residential)

Residential Enrollment Volume since 2012

Enrollment volumes in for both residential and non-residential accounts remained fairly consistent overall over the time period depicted, with highest enrollment volumes occurring in 2016.
**Savings Estimates**

Energy savings for web presentment tools were analyzed in prior studies, including the 2012 Itron Report. No significant savings had been found for web presentment tools; these findings are consistent with studies conducted for other utilities.

**BUDGET ASSISTANT**

Budget Assistant is a proactive notification tool that provides customers information regarding costs within their current billing period. Participants may opt for either periodic notifications (weekly or monthly), or conditional notification contingent on bill projections in comparison to a selected threshold. Notifications are sent through the channel of customer choice (email, text message, or voice message). Customers may enroll for this program either by calling SCE, through the online website, or by returning an enrollment postcard included with direct mail solicitations.

**Enrollment**

Cumulative enrollment volumes by channel are depicted in the chart below.

![Chart 3: Budget Assistant Cumulative Enrollment Volume by Channel](chart3.png)
On-line enrollment remains the most consistent channel and provides the greatest volume of affirmative (opt-in) enrollment. The highest rate of on-line enrollment occurred in 2017. In addition, a significant number of customers were enrolled by default in 2017. Other enrollment channels include by mail or phone. After the initial recruitment period in 2012, the volume of enrollment by other channels flattened.

**Savings Estimates**

Savings from Budget Assistant by notification type has been estimated in previous studies (see previous Edison Energy Conservation Reports). These studies utilized propensity score matching to create a quasi-control group and applied a difference-in-difference calculation to estimate savings. These prior study findings of 0.50% savings for periodic notification customers, and 0.40% savings for threshold notification customers, were applied to the full-year enrollment numbers for 2018. Note: savings were estimated for customers who affirmatively enrolled in usage notification. Default enrollment of customers has not demonstrated significant savings.

<table>
<thead>
<tr>
<th>Notification Type</th>
<th>Est. % Savings</th>
<th>Est. Annual Savings per Account (kWh)</th>
<th>Service Accounts</th>
<th>Total Savings (MWh)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Budget Assistant / Threshold Notification</td>
<td>-0.40%</td>
<td>27</td>
<td>116,294</td>
<td>3,140</td>
</tr>
<tr>
<td>Budget Assistant / Scheduled Notification</td>
<td>-0.50%</td>
<td>33</td>
<td>125,354</td>
<td>4,137</td>
</tr>
</tbody>
</table>

**IN-HOME DISPLAY**

The In Home Displays (IHD) provide customers with real time consumption or pricing information via a device provided to each customer by SCE. IHDs that are securely registered to the smart meter can receive near real-time usage information from the meter and energy related text messages from SCE. IHD devices may display either real time consumption data with bill-to-date, or dollars-per-hour for their current level of demand and tier level or time-of-use hour type.

**Enrollment**

Cumulative enrollment volumes for IHDs are depicted in the chart below.
IHD enrollment saw waves of early adoption in 2012 and 2013 and remained steady thereafter.

**Savings Estimate**

Savings from Budget Assistant by notification type has been estimated in previous studies (see previous Edison Energy Conservation Reports). Previous estimates associated a 3.7% energy savings with adoption of IHD. These savings were applied to service accounts with an active device for the entirety of 2018.

**Table 2: In-Home Display Savings Estimates**

<table>
<thead>
<tr>
<th></th>
<th>Est. % Savings</th>
<th>Est. Annual Savings per Account (kWh)</th>
<th>Service Accounts</th>
<th>Total Savings (MWh)</th>
</tr>
</thead>
<tbody>
<tr>
<td>In-Home Displays</td>
<td>-3.70%</td>
<td>347</td>
<td>2270</td>
<td>788</td>
</tr>
</tbody>
</table>
BEFORE THE PUBLIC UTILITIES COMMISSION OF THE
STATE OF CALIFORNIA

Order Instituting Rulemaking to Enhance the Role of Demand Response in Meeting the State’s Resource Planning Needs and Operational Requirements.  

CERTIFICATE OF SERVICE

I hereby certify that, pursuant to the Commission’s Rules of Practice and Procedure, I have this day served a true copy of SOUTHERN CALIFORNIA EDISON COMPANY’S (U 338-E) ANNUAL COMPLIANCE FILING PURSUANT TO DECISION 08-09-039 on all parties identified on the attached service list(s) for R.13-09-011. Service was effected by one or more means indicated below:

- Transmitting the copies via e-mail to all parties who have provided an e-mail address.
- Placing the copies in sealed envelopes and causing such envelopes to be delivered by US Mail to the offices of the Commissioners(s) or other addresses(s).

ALJ Kelly A. Hymes  ALJ Nilgun Atamturk
CPUC  CPUC
505 Van Ness Avenue  505 Van Ness Avenue
San Francisco, CA 94102  San Francisco, CA 94102

Executed April 30, 2019, at Rosemead, California.

/s/ Sandra Sedano
Sandra Sedano
Legal Administrative Assistant
SOUTHERN CALIFORNIA EDISON COMPANY
2244 Walnut Grove Avenue
Post Office Box 800
Rosemead, California 91770
CALIFORNIA PUBLIC UTILITIES COMMISSION
Service Lists

PROCEEDING: R1309011 - CPUC - OIR TO ENHANC
FILER: CPUC
LIST NAME: LIST
LAST CHANGED: APRIL 23, 2019

Download the Comma-delimited File
About Comma-delimited Files

Back to Service Lists Index

Parties

C. C. SONG  HOWARD CHOI
SR. POLICY ANALYST  GENERAL MGR.
MARIN CLEAN ENERGY  COUNTY OF LOS ANGELES
EMAIL ONLY  EMAIL ONLY
EMAIL ONLY, CA  00000  EMAIL ONLY, CA  00000
FOR: MARIN CLEAN ENERGY  FOR: LOCAL GOVERNMENT SUSTAINABLE
ENERGY COALITION (LGSEC)

JOHN W. LESLIE, ESQ  LAURIE WIEGAND-JACKSON
PARTNER  SVP
DENTONS US LLP  IPKEYS TECHNOLOGIES, LLC
EMAIL ONLY  12 CHRISTOPHER WAY, STE. 301
EMAIL ONLY, CA  00000  EATONTOWN, NJ  07724
FOR: SHELL ENERGY NORTH AMERICA  FOR: IPKEYS TECHNOLOGIES, LLC

ABRAHAM SILVERMAN  ERIKA DIAMOND
ASSIST. GEN. COUNSEL - REGULATORY  VP - UTILITY & MKT SRVCS
NRG ENERGY, INC.  ENERGYHUB
211 CARNEGIE CENTER DRIVE  232 3RD STREET, SUITE 201
PRINCETON, NJ  08540  BROOKLYN, NY  11215
FOR: NRG ENERGY, INC.  FOR: ENERGYHUB

SUSAN STEVENS-MILLER  DAVID P. LOWREY
EARTHJUSTICE  DIRECTOR, REGULATORY STRATEGY
1625 MASSACHUSETTS AVE., NW, STE. 702  CONVERGE, INC.
WASHINGTON, DC  20036  999 18TH STREET, SUITE 2300
FOR: SIERRA CLUB  DENVER, CO  80202
FOR: CONVERGE, INC.
MONA TIERNEY-LLOYD
SR. DIR., WESTERN REG. AFFAIRS
ENEL X NORTH AMERICA, INC.
2071 ALTAIR LAKE
RENO, NV 89521
FOR: ENERNOC, INC.

EDWARD L. HSU
SR COUNSEL
SOUTHERN CALIFORNIA GAS COMPANY
555 WEST 5TH STREET, GT14E7
LOS ANGELES, CA 90013
FOR: SOUTHERN CALIFORNIA GAS COMPANY

HOWARD CHOY
GENERAL MGR.
COUNTY OF LOS ANGELES
OFFICE OF SUSTAINABILITY
1100 NORTH EASTERN AVENUE
LOS ANGELES, CA 90063
FOR: SOUTHERN CALIFORNIA REGIONAL ENERGY NETWORK (SCREN)

DANIEL W. DOUGLASS
COUNSEL
DOUGLASS & LIDDELL
4766 PARK GRANADA, STE. 209
CALABASAS, CA 91302
FOR: NEST LABS, INC.; WESTERN POWER TRADING FORUM

ROBIN Z. MEIDHOF
SR. ATTORNEY
SOUTHERN CALIFORNIA EDISON COMPANY
2244 WALNUT GROVE AVENUE / BOX 800
ROSEMEAD, CA 91770
FOR: SOUTHERN CALIFORNIA EDISON COMPANY

GREG BARNES
SAN DIEGO GAS & ELECTRIC COMPANY
8330 CENTURY PARK CT., 2ND FLOOR
SAN DIEGO, CA 92123
FOR: SAN DIEGO GAS & ELECTRIC COMPANY (SDG&E)

SACHU CONSTANTINE
DIR. OF POLICY
CENTER FOR SUSTAINABLE ENERGY
9325 SKY PARK COURT, SUITE 100
SAN DIEGO, CA 92123
FOR: CALIFORNIA CENTER FOR SUSTAINABLE ENERGY (CCSE)

KENNETH SAHM WHITE
ECONOMICS & POLICY ANALYSIS DIR
CLEAN COALITION
16 PALM CT.
MENLO PARK, CA 94025
FOR: CLEAN COALITION

JIM BAAK
SR. MGR. - REGULATORY AFFAIRS WEST
STEM, INC.
100 ROLLINS ROAD
MILLBRAE, CA 94030
FOR: STEM, INC.

SUE MARA
CONSULTANT
RTO ADVISORS, LLC
164 SPRINGDALE WAY
REDWOOD CITY, CA 94062
FOR: DIRECT ACCESS CUSTOMER COALITION (DACC); ALLIANCE FOR RETAIL ENERGY MARKETS (AREM)

ERIN GRIZARD
SENIOR DIR - REGULATORY & GOV'T. AFFAIRS
BLOOM ENERGY CORPORATION
1299 ORLEANS DRIVE
SUNNYVALE, CA 94089-9162
FOR: BLOOM ENERGY CORPORATION

ROSANNE O'HARA
CALIF PUBLIC UTILITIES COMMISSION
LEGAL DIVISION
ROOM 5039
505 VAN NESS AVENUE
SAN FRANCISCO, CA 94102-3214
FOR: CAL ADVOCATES (PUBLIC ADVOCATES OFFICE) FORMERLY THE OFFICE OF RATEPAYER ADVOCATES (ORA)

MARCEL HAWIGER
STAFF ATTORNEY
THE UTILITY REFORM NETWORK
785 MARKET ST., STE. 1400
FOR: THE UTILITY REFORM NETWORK

MERRIAN BORGESON
SR. SCIENTIST, ENERGY PROGRAM
NATURAL RESOURCES DEFENSE COUNCIL
111 SUTTER ST., 21ST FL.
SAN FRANCISCO, CA  94103
FOR: THE UTILITY REFORM NETWORK (TURN)

LARISSA KOEHLER
SENIOR ATTORNEY
ENVIRONMENTAL DEFENSE FUND
123 MISSION STREET, 28TH FL.
SAN FRANCISCO, CA  94105
FOR: ENVIRONMENTAL DEFENSE FUND

SAN FRANCISCO, CA  94104
FOR: NATURAL RESOURCES DEFENSE COUNCIL

NORA SHERIFF
ATTORNEY
BUCHALTER, A PROFESSIONAL CORPORATION
55 SECOND STREET, SUITE 1700
SAN FRANCISCO, CA  94105
FOR: CALIFORNIA LARGE ENERGY CONSUMERS ASSOCIATION (CLECA)

SHIRLEY WOO
ATTORNEY AT LAW
PACIFIC GAS AND ELECTRIC COMPANY
77 BEALE STREET, B30A
SAN FRANCISCO, CA  94105
FOR: PACIFIC GAS AND ELECTRIC COMPANY

JOHN W. ANDERSON
DIR - ENERGY MARKETS
OHMCONNECT, INC.
350 TOWNSEND ST., SUITE 210
SAN FRANCISCO, CA  94107
FOR: OHMCONNECT, INC. (OHMCONNECT)

SERJ BERELSON
OPPOWER
680 FOLSOM STREET, 3RD FLOOR
SAN FRANCISCO, CA  94107
FOR: OPPOWER

NICOLE JOHNSON
REGULATORY ATTORNEY
CONSUMER FEDERATION OF CALIFORNIA
150 POST ST., STE. 442
SAN FRANCISCO, CA  94108
FOR: CONSUMER FEDERATION OF CALIFORNIA

Megan M. Myers
ATTORNEY
LAW OFFICES OF SARA STECK MYERS
122 - 28TH AVENUE
SAN FRANCISCO, CA  94121
FOR: CENTER FOR ENERGY EFFICIENCY AND RENEWABLE TECHNOLOGIES (CEERT)

Megan M. Myers
ATTORNEY AT LAW
LAW OFFICES OF SARA STECK MYERS
122 - 28TH AVENUE
SAN FRANCISCO, CA  94121
FOR: JOINT DR PARTIES (ENERNOC, INC.; JOHNSON CONTROLS, INC.)

Jennifer Chamberlin
EXECUTIVE DIRECTOR, MARKET DEVELOPMENT
CPOWER
2633 WELLINGTON CT
CLYDE, CA  94520
FOR: CPOWER CORPORATION

Matthew Barmack
DIR. - MARKET & REGULATORY ANALYSIS
CALPINE CORPORATION
4160 DUBLIN BLVD., SUITE 100
DUBLIN, CA  94568
FOR: CALPINE CORPORATION

Beth Reid
OLIVINE, INC.
2010 CROW CANYON PLACE, STE. 100
SAN RAMON, CA  94583
FOR: OLIVINE, INC

Gerald Lahr
ENERGY PROGRAMS MGR.
ASSOCIATION OF BAY AREA GOVERNMENTS
101 8TH ST.
OAKLAND, CA  94607
FOR: ASSOCIATION OF BAY AREA GOVERNMENTS (ABAG)
ALIA SCHOEN  ALLEN FREIFELD
PUBLIC POLICY MGR.  VIRIDITY ENERGY, INC.
BLOOM ENERGY  EMAIL ONLY
EMAIL ONLY  EMAIL ONLY, CA  00000

ANDY SCHWARTZ  ATHENA BESA
DEPUTY DIR - EMERGING PRODUCTS  SAN DIEGO GAS & ELECTRIC COMPANY
TESLA, INC.  EMAIL ONLY
EMAIL ONLY  EMAIL ONLY, CA  00000

BARRA BARKOVICH  CARMELITA L. MILLER
CONSULTANT  THE GREENLINING INSTITUTE
BARKOVICH & YAP, INC.  EMAIL ONLY
EMAIL ONLY  EMAIL ONLY, CA  00000

CASE COORDINATION  CEDRIC O. CHRISTENSEN
PACIFIC GAS AND ELECTRIC COMPANY  DIR - OPER & DEVELOPMENT
EMAIL ONLY  STRATEGEN CONSULTING LLC
EMAIL ONLY  EMAIL ONLY, CA  00000

DAMON FRANZ  DANIEL CHIA
DIRECTOR - POLICY & ELECTRICITY MARKETS  DEP. DIR. - GOVERNMENT AFFAIRS
TESLA, INC.  TESLA, INC.
EMAIL ONLY  EMAIL ONLY
EMAIL ONLY  EMAIL ONLY, CA  00000

DAVID PFEFFER  DEANE BURK
ATTORNEY  EMAIL ONLY
BRAUN BLAISING SMITH WINNE, P.C.  EMAIL ONLY, CA  00000
EMAIL ONLY  EMAIL ONLY, CA  00000

DOCKET COORDINATOR  DONALD LIDDELL
KEYS AND FOX  DOUGLASS & LIDDELL
EMAIL ONLY  EMAIL ONLY
EMAIL ONLY  EMAIL ONLY, CA  00000

DR. ERIC C. WOYCHIK  DREW ADAMS
EXECUTIVE CONSULTANT & PRINCIPAL  VIRIDITY ENERGY
STRATEGY INTEGRATION LLC  EMAIL ONLY
EMAIL ONLY  EMAIL ONLY, CA  00000

EDWARD VINE  ELI HARLAND
LAWRENCE BERKELEY NATIONAL LABORATORY  CALIFORNIA ENERGY COMMISSION
EMAIL ONLY  ENERGY RESEARCH & DEVELOPMENT DIV.
EMAIL ONLY  EMAIL ONLY, CA  00000

https://ia.cpuc.ca.gov/servicelists/R1309011_81172.htm

4/30/2019
<table>
<thead>
<tr>
<th>Name</th>
<th>Title</th>
<th>Company</th>
<th>Email Only</th>
<th>Address</th>
</tr>
</thead>
<tbody>
<tr>
<td>ERIC CUTTER</td>
<td>Energy and Environmental Economic</td>
<td>San Diego Gas &amp; Electric</td>
<td>EMAIL ONLY</td>
<td>CA  00000</td>
</tr>
<tr>
<td>ESAU GUARDADO</td>
<td>Regulatory Affairs</td>
<td></td>
<td>EMAIL ONLY</td>
<td>CA  00000</td>
</tr>
<tr>
<td>FRED YOO</td>
<td>Senior Program Manager</td>
<td>Pacific Gas and Electric Company</td>
<td>EMAIL ONLY</td>
<td>CA  00000</td>
</tr>
<tr>
<td>GENE THOMAS</td>
<td>Ecology Action</td>
<td></td>
<td>EMAIL ONLY</td>
<td>CA  00000</td>
</tr>
<tr>
<td>GREGG FISHMAN</td>
<td>Executive Action</td>
<td>Pacific Gas and Electric Company</td>
<td>EMAIL ONLY</td>
<td>CA  00000</td>
</tr>
<tr>
<td>GREGORY S.G. KLATT</td>
<td></td>
<td></td>
<td>EMAIL ONLY</td>
<td>CA  00000</td>
</tr>
<tr>
<td>HANNA GRENE</td>
<td>Center for Sustainable Energy</td>
<td>Marin Clean Energy</td>
<td>EMAIL ONLY</td>
<td>CA  00000</td>
</tr>
<tr>
<td>JANA KOPYCIOK-LANDE</td>
<td>Senior Policy Analyst</td>
<td>Marin Clean Energy</td>
<td>EMAIL ONLY</td>
<td>CA  00000</td>
</tr>
<tr>
<td>JEREMY WAEN</td>
<td>Regulatory Analyst</td>
<td>Marin Clean Energy</td>
<td>EMAIL ONLY</td>
<td>CA  00000</td>
</tr>
<tr>
<td>JOEL GAMORAN</td>
<td></td>
<td>C3 Energy</td>
<td>EMAIL ONLY</td>
<td>CA  00000</td>
</tr>
<tr>
<td>JONATHAN HART</td>
<td>Center for Sustainable Energy</td>
<td>Pacific Gas and Electric Company</td>
<td>EMAIL ONLY</td>
<td>CA  00000</td>
</tr>
<tr>
<td>JONNA ANDERSON</td>
<td>Viridity Energy</td>
<td>Viridity Energy</td>
<td>EMAIL ONLY</td>
<td>CA  00000</td>
</tr>
<tr>
<td>JONNA NADERSON</td>
<td></td>
<td>Viridity Energy</td>
<td>EMAIL ONLY</td>
<td>CA  00000</td>
</tr>
<tr>
<td>KENNETH LAUGHLIN</td>
<td>Viridity Energy</td>
<td>Energy Curtailment Specialists</td>
<td>EMAIL ONLY</td>
<td>NY  00000</td>
</tr>
<tr>
<td>MALCOLM D. AINSPAN</td>
<td></td>
<td></td>
<td>EMAIL ONLY</td>
<td>NY  00000</td>
</tr>
<tr>
<td>MARC COSTA</td>
<td>Energy Coalition</td>
<td>EnergyHub, Inc.</td>
<td>EMAIL ONLY</td>
<td>CA  00000</td>
</tr>
<tr>
<td>MARK R. HUFFMAN</td>
<td>Attorney at Law</td>
<td>Pacific Gas and Electric Company</td>
<td>EMAIL ONLY</td>
<td>CA  00000</td>
</tr>
<tr>
<td>MATHEW PRINDLE</td>
<td></td>
<td>California ISO</td>
<td>EMAIL ONLY</td>
<td>CA  00000</td>
</tr>
</tbody>
</table>
MELISSA P. MARTIN
STATESIDE ASSOCIATES
EMAIL ONLY
EMAIL ONLY, CA 00000

NICHOLAS J. PLANSON
CONSUMER POWERLINE
EMAIL ONLY
EMAIL ONLY, MD 00000

PAUL NELSON
BARKOVICH & YAP
EMAIL ONLY
EMAIL ONLY, CA 00000
FOR: CALIFORNIA LARGE ENERGY CONSUMERS ASSOCIATION

PAUL KARR
TRILLIANT NETWORKS, INC.
EMAIL ONLY
EMAIL ONLY, CA 00000

PETER PEARSON
BEAR VALLEY ELECTRIC SERVICE
EMAIL ONLY
EMAIL ONLY, CA 00000

PRAMOD KULKARNI
CUSTOMIZED ENERGY SOLUTIONS
EMAIL ONLY
EMAIL ONLY, CA 00000

ROBERT GEX
DAVIS WRIGHT TREMAINE LLP
EMAIL ONLY
EMAIL ONLY, CA 00000

RICHARD H. COUNIHAN
SR. DIRECTOR CORPORATE DEVELOPMENT
ENERNOC, INC.
EMAIL ONLY
EMAIL ONLY, CA 00000

RODNEY WILLIAMS
EMBERTEC USA LLC
2105 SOUTH BASCOM AVE.
CAMPBELL, CA 00000

SAVI ELLIS
PACIFIC GAS AND ELECTRIC
EMAIL ONLY
EMAIL ONLY, CA 00000

SCOTT BLAISING
ATTORNEY
BRAUN BLAISING MCLAUGHLIN, P.C.
EMAIL ONLY
EMAIL ONLY, CA 00000

SCOTT MURTISHAW
CALIFORNIA SOLAR & STORAGE ASSOCIATION
EMAIL ONLY
EMAIL ONLY, CA 00000
SEAN P. BEATTY
REGIONAL GEN. COUNSEL
NRG WEST
EMAIL ONLY
EMAIL ONLY, CA 00000

SEPHRA A. NINOW
ASSOC. DIR - REGULATORY AFFAIRS
CENTER FOR SUSTAINABLE ENERGY
EMAIL ONLY
EMAIL ONLY, CA 00000

SHALINI SWAROOP
REGULATORY COUNSEL
MARIN CLEAN ENERGY
EMAIL ONLY
EMAIL ONLY, CA 00000

SNULLER PRICE
ENERGY AND ENVIRONMENTAL ECONOMICS
EMAIL ONLY
EMAIL ONLY, CA 00000

STEPHANIE WONG
PACIFIC GAS AND ELECTRIC COMPANY
EMAIL ONLY
EMAIL ONLY, CA 00000

STEPHEN GUNHER
CENTER FOR SUSTAINABLE ENERGY
EMAIL ONLY
EMAIL ONLY, CA 00000

STEVE GEORGE
NEXANT
EMAIL ONLY
EMAIL ONLY, CA 00000

TIM OLSEN
ENERGY COALITION
EMAIL ONLY
EMAIL ONLY, CA 00000

TIMOTHY N. TUTT
SACRAMENTO MUNICIPAL UTILITIES DISTRICT
EMAIL ONLY
EMAIL ONLY, CA 00000

TODD S. GLASSEY
MRW & ASSOCIATES, LLC
EMAIL ONLY
EMAIL ONLY, CA 00000

WARREN MITCHELL
THE ENERGY COALITION
EMAIL ONLY
EMAIL ONLY, CA 00000

HERTER ENERGY
EMAIL ONLY
EMAIL ONLY, CA 00000

ELAINE S. KWEI
PIPER JAFFRAY & CO
EMAIL ONLY
EMAIL ONLY, CA 00000-0000

MARTIN HOMEC
CALIFORNIANS FOR RENEWABLE ENERGY, INC.
EMAIL ONLY
EMAIL ONLY, CA 00000-0000

MICHELLE GRANT
DYNEGY, INC.
EMAIL ONLY
EMAIL ONLY, TX 00000-0000

ROBIN J. WALther, PH.D.
EMAIL ONLY
EMAIL ONLY, CA 00000-0000

STEPHEN D. BAKER
FELLON-MCCORD AND ASSOC.
CONSTELLATION NEW ENERGY-GAS DIV.
EMAIL ONLY
EMAIL ONLY, KY 00000-0000

ERIN MALONE
SYNAPSE ENERGY ECONOMICS, INC.
485 MASSACHUSETTS AVE., SUITE 2
12 CHRISTOPHER WAY, SUITE 301
CAMBRIDGE, MA  02139

ROBERT M. NAWY
MANAGING DIR & CFO
IPKEYS TECHNOLOGIES LLC
12 CHRISTOPHER WAY, STE. 301
EATONTOWN, NJ  07724
FOR: IPKEYS TECHNOLOGIES LLC

EATONTOWN, NJ  07724

WENDEI MIYAJI
COMVERGE
23 VREELAND ROAD, SUITE 300
FLORHAM PARK, NJ  07936

SHELLY-ANN MAYE
NORTH AMERICA POWER PARTNERS
308 HARPER DRIVE, SUITE 320
MOORESTOWN, NJ  08057

CLARK E. PIERCE
LANDIS & GYR
246 WINDING WAY
STRATFORD, NJ  08084

MICHAEL PANFIL
ENVIRONMENTAL DEFENSE FUND
257 PARK AVENUE SOUTH, FLOOR 16
NEW YORK, NY  10010

KIMBERLY E. DIAMOND
DRINKER BIDDLE & REATH LLP
1177 AVENUE OF THE AMERICAS, 41ST FL.
NEW YORK, NY  10036-2714

LAURA KIER
ENERGYHUB
232 3RD STREET
BROOKLYN, NY  11215

MARIE PIENIAZEK
1328 BOZENKILL ROAD
DELANSON, NY  12053

GLEN E. SMITH
PRESIDENT AND CEO
ENERGY CURTAILMENT SPECIALISTS, INC.
4455 GENESEE ST., STE.101
BUFFALO, NY  14225-1955

ALICIA R. PETERSEN
RHOADS & SINON LLP
ONE SOUTH MARKET SQUARE, PO BOX 1146
HARRISBURG, PA  17108

MONICA S. IINO
RHOADS & SINON LLP
M&T BUILDING
ONE SOUTH MARKET SQUARE, PO BOX 1146
HARRISBURG, PA  17108

EDWARD TOPPI
CUSTOMIZED ENERGY SOLUTIONS, LTD
1528 WALNUT ST., 22ND FLOOR
PHILADELPHIA, PA  19102

DAN DELUREY
DEMAND RESPONSE AND SMART GRID COALITION
1301 CONNECTICUT AVE., NW, STE. 350
WASHINGTON, DC  20036

JILL TAUBER
CHAIR, CLEAN ENERGY PRACTICE
EARTHJUSTICE
1625 MASSACHUSETTS AVE., NW, STE. 702
WASHINGTON, DC  20036

GRAYSON HEFFNER
15525 AMBIANCE DRIVE
N. POTOMAC, MD  20878

MATT MCCAFFREE
SENIOR DIRECTOR, REGULATORY STRATEGY
COMVERGE, INC.
2113 MASON HILL DRIVE
ALEXANDRIA, VA  22306

KEVIN SIMONSEN
ENERGY MANAGEMENT SERVICES
20 KRISTIN CT.
SANTA ROSA BEACH, FL  32459
FOR: ENERGY USERS FORUM

KEN SKINNER
VICE PRESIDENT, COO
INTEGRAL ANALYTICS, INC
312 WALNUT STREET, SUITE 1600
CINCINNATI, OH  45202
JENNIFER M. TSAO SHIGEKAWA  
SOUTHERN CALIFORNIA EDISON COMPANY  
2244 WALNUT GROVE AVENUE  
ROSEMEAD, CA  91770

REUBEN BEHLIHOMJI  
MGR  
SOUTHERN CALIFORNIA EDISON COMPANY  
2244 WALNUT GROVE AVE.  
ROSEMEAD, CA  91770

RUSS GARWACRD  
SOUTHERN CALIFORNIA EDISON COMPANY  
2244 WALNUT GROVE  
ROSEMEAD, CA  91770

DON WOOD  
PACIFIC ENERGY POLICY CENTER  
4539 LEE AVENUE  
LA MESA, CA  91941

KIM KIERNER  
4475 TIVOLI ST.  
SAN DIEGO, CA  92107

ANNLYN M. FAUSTINO  
REGULATORY CASE ANALYST & SUPPORT  
SDG&E/SCGC  
8330 CENTURY PARK COURT, CP31E  
SAN DIEGO, CA  92123

GREGORY ANDERSON  
CALIFORNIA REGULARITY AFFAIRS  
SAN DIEGO GAS & ELECTRIC COMPANY  
8330 CENTURY PARK COURT  
SAN DIEGO, CA  92123

KATHRYN SMITH  
SAN DIEGO GAS AND ELECTRIC COMPANY  
8306 CENTURY PARK COURT  
SAN DIEGO, CA  92123

LIYING WANG  
DEMAND / RESPONSE MANAGER  
SAN DIEGO GAS & ELECTRIC COMPANY  
8326 CENTURY PARK CT.  
SAN DIEGO, CA  92123

CENTRAL FILES  
THOMAS C. SAILE

https://ia.cpuc.ca.gov/servicelists/R1309011_81172.htm  4/30/2019
SAN DIEGO GAS & ELECTRIC COMPANY
8330 CENTURY PARK CT, CP31-E
SAN DIEGO, CA  92123-1530

WILLIAM FULLER
CALIF. REGULATORY AFFAIRS
SAN DIEGO GAS & ELECTRIC COMPANY
8330 CENTURY PARK COURT, CP32F
SAN DIEGO, CA  92123-1548

DAVE HANNA
ITRON INC
11236 EL CAMINO REAL
SAN DIEGO, CA  92130-2650

PAUL MARCONI
DIR
BEAR VALLEY ELECTRIC SERVICE
42020 GARSTIN DRIVE / PO BOX 1547
BIG BEAR LAKE, CA  92315

LOGAN OLDS
VWRA
15776 MAIN STREET, STE. 3
HESPERIA, CA  92345
FOR: VICTOR VALLEY WASTEWATER
RECLAMATION AUTHORITY

KEN WILLIAMS
DIRECTOR - CALIFORNIA CLIENT SOLUTIONS
THE FRANKLIN ENERGY GROUP
18865 VISTA PORTOLA
TRABUCO CANYON, CA  92579

DOUGLAS A. AMES
ATTORNEY AT LAW
TRANSPHASE SYSTEMS, INC.
4971 LOS PATOS AVENUE
HUNTINGTON BEACH, CA  92649

DAVID M. WYLIE, PE
ASW ENGINEERING
2512 CHAMBERS ROAD, SUITE 103
TUSTIN, CA  92780

JOEL M. HVIDSTEN
KINDER MORGAN ENERGY FORECASTER
1100 TOWN & COUNTRY ROAD, SUITE 700
ORANGE, CA  92868

SHAWN COX
KINDER MORGAN ENERGY FORECASTER
1100 TOWN & COUNTRY ROAD, SUITE 700
ORANGE, CA  92868

JEFF HIRSCH
JAMES J. HIRSCH & ASSOCIATES
12185 PRESILLA ROAD
SANTA ROSA VALLEY, CA  93012-9243

ADAM SIMPSON
FOUNDER
ETAGEN, INC.
186 CONSTITUTION DRIVE
MENLO PARK, CA  94025

ANDREW YIP
DIR - BUS. DEVELOPMENT (DC MICROGRID)
ROBERT BOSCH LLC
101 JEFFERSON DRIVE
MENLO PARK, CA  94025

TED KO
DIRECTOR OF POLICY
STEM, INC.
100 ROLLINS ROAD
MILLBRAE, CA  94030
FOR: STEM, INC.

DAVID SCHLOSBERG
DIR - ENERGY MARKET OPER
EMOTORWERKS
846 BRANSTEN ROAD
SAN CARLOS, CA  94070
FOR: EMOTORWERKS, INC.

MARC MONBOUQUETTE
SR.MGR - REG & GOV'T AFFAIRS
EMOTORWERKS
846 BRANSTEN ROAD
SAN CARLOS, CA  94070

STEVE TABER
ENERGY MARKETS
EMOTORWERKS
846 BRANSTEN ROAD
SAN CARLOS, CA  94070

DIANA S. GENASCI
JOANNA PEREZ-GREEN
JOHANNA FORS  
REGULATORY AFFAIRS  
PACIFIC GAS AND ELECTRIC COMPANY  
77 BEALE STREET, B10A  
SAN FRANCISCO, CA  94105  

JOSEPHINE WU  
PACIFIC GAS AND ELECTRIC COMPANY  
77 BEALE STREET, MC B9A, RM. 975  
SAN FRANCISCO, CA  94105  

LISA M. RAYMOND  
BUCHALTER  
55 SECOND STREET, SUITE 1700  
SAN FRANCISCO, CA  94105  

MELANIE GILLETTE  
DIR - WESTERN REG. AFFAIRS  
ENERNOC, INC.  
116 NEW MONTGOMERY STREET, SUITE 700  
SAN FRANCISCO, CA  94105  
FOR: CALIFORNIA ENERGY EFFICIENCY INDUSTRY COUNCIL (CEEIC)  

MELICIA CHARLES  
SUNRUN INC.  
595 MARKET STREET, 29TH FL.  
SAN FRANCISCO, CA  94105  

MICHAEL ALCANTAR  
ATTORNEY AT LAW  
BUCHALTER, A PROFESSIONAL CORPORATION  
55 SECOND STREET, SUITE 1700  
SAN FRANCISCO, CA  94105  

MIKE CADE  
BUCHALTER, A PROFESSIONAL CORPORATION  
55 SECOND STREET, SUITE 1700  
SAN FRANCISCO, CA  94105  

MONICA A. SCHWEBS, ESQ.  
ATTORNEY  
MORGAN LEWIS & BOCKIUS LLP  
ONE MARKET PLAZA, SPEAR STREET TOWER  
SAN FRANCISCO, CA  94105  

RYAN CHAN  
PACIFIC GAS AND ELECTRIC COMPANY  
245 MARKET STREET  
SAN FRANCISCO, CA  94105  

TESSA CARLBERG  
COUNSEL  
PACIFIC GAS AND ELECTRIC COMPANY  
77 BEALE STREET, B30A  
SAN FRANCISCO, CA  94105  

BUCHALTER, A PROFESSIONAL CORPORATION  
55 SECOND STREET, SUITE 1700  
SAN FRANCISCO, CA  94105  

EVELYN KAHL  
ATTORNEY  
BUCHALTER, A PROFESSIONAL CORPORATION  
55 SECOND STREET, SUITE 1700  
SAN FRANCISCO, CA  94105-3493  

LILLIAN RAFII  
ATTORNEY  
BUCHALTER, A PROFESSIONAL CORPORATION  
55 SECOND STREET, STE. 1700  
SAN FRANCISCO, CA  94105-3493  

ALICE LIDDELL  
ICF INTERNATIONAL  
620 FOLSOM STREET, STE, 200  
SAN FRANCISCO, CA  94107  

BRIAN KOOIMAN  
OHMCONNECT, INC.  
350 TOWNSEND ST., STE. 210  
SAN FRANCISCO, CA  94107  

FRANCESCA WAHL  
SR. POLICY ASSOCIATE, BUS. DEVELOPMENT  
TESLA, INC.  
444 DE HARO STREET, STE. 101  
SAN FRANCISCO, CA  94107  

LUKE TOUGAS  
CLEAN ENERGY REGULATORY RESEARCH  
175 BLUXOME STREET, @102  

MARIA BELENKY  
OHMCONNECT, INC.  
350 TOWNSEND ST., SUITE 210  

https://ia.cpuc.ca.gov/servicelists/R1309011_81172.htm
<table>
<thead>
<tr>
<th>Name</th>
<th>Address</th>
<th>Company/Association</th>
</tr>
</thead>
<tbody>
<tr>
<td>Matthew Duesterberg</td>
<td>350 Townsend St., STE. 210</td>
<td>OHMConnect, Inc.</td>
</tr>
<tr>
<td>Nicholas Connell</td>
<td>25 Stillman Street, Suite 200</td>
<td>Advanced Microgrid Solutions</td>
</tr>
<tr>
<td>Sanjna Malpani</td>
<td>25 Stillman Street</td>
<td>Advanced Microgrid Solutions</td>
</tr>
<tr>
<td>Adenike Adeyeye</td>
<td>50 California St., Suite 500</td>
<td>Earthjustice</td>
</tr>
<tr>
<td>Buck Endemann</td>
<td>275 Battery Street, 23rd Fl.</td>
<td>I.C.E. Energy</td>
</tr>
<tr>
<td>Katie Jorrie</td>
<td>505 Montgomery Street, Suite 800</td>
<td>Davis Wright Tremaine, LLP</td>
</tr>
<tr>
<td>LISA Qi, ESQ.</td>
<td>3 EMBARCADERO CENTER, STE. 2600</td>
<td>Crowell &amp; Moring, LLP</td>
</tr>
<tr>
<td>Marlo A. Go</td>
<td>505 Sansome Street, Suite 900</td>
<td>Goodin, Macbride, Squeri &amp; Day, LLP</td>
</tr>
<tr>
<td>Matthew Vespa</td>
<td>50 California Street, Suite 500</td>
<td>EarthJustice</td>
</tr>
<tr>
<td>RAFI Hassan</td>
<td>101 California Street, Suite 3250</td>
<td>Susquehanna Financial Group, LLLP</td>
</tr>
<tr>
<td>Rosiceli Villarreal</td>
<td>50 California St., Suite 500</td>
<td>EarthJustice</td>
</tr>
<tr>
<td>SETH D. Hilton</td>
<td>50 California St., Suite 500</td>
<td>Davis Wright Tremaine, LLP</td>
</tr>
</tbody>
</table>
JOE PRIJYANONDA                           ALEX KANG                           CATHERINE GROOT
GLOBAL ENERGY PARTNERS, LLC               ITRON, INC.                           DIRECTOR
500 YGNACIO VALLEY RD., STE 450           1111 BROADWAY, STE. 1800               RADICLE IMPACT 1, LLC
WALNUT CREEK, CA  94596-3853              OAKLAND, CA  94607                     1438 WEBSTER STREET, SUITE 300
                                                                                          OAKLAND, CA  94612
ALISON SEEL                                CATHARINE GROOT
ASSOCIATE ATTORNEY                         DIRECTOR
SIERRA CLUB                                 RADICLE IMPACT 1, LLC
2101 WEBSTER ST., STE. 1300               1438 WEBSTER STREET, SUITE 300
OAKLAND, CA  94612                         OAKLAND, CA  94612
                                                                                          1438 WEBSTER STREET, SUITE 300
CHRISTINE RIKER                             ISABELLE GECILS
SR. PROJECT MGR.                           OPINION DYNAMICS
ENERGY SOLUTIONS                           1999 HARRISON ST., STE. 1420
449 15TH STREET                            OAKLAND, CA  94612                     OAKLAND, CA  94612
                                                                                          OAKLAND, CA  94612
OLIVIA PATTERSON                           RACHEL BIRD
OPINION DYNAMICS                           DIR - POLICY & BUS. DEVELOPMENT, WEST
1999 HARRISON ST., STE. 1420               BORREGO SOLAR SYSTEMS, INC.
OAKLAND, CA  94612                         360 22ND STREET, SUITE 600              OAKLAND, CA  94612
                                                                                          360 22ND STREET, SUITE 600
TED POPE                                   RACHEL BIRD
PRESIDENT                                  DIR - POLICY & BUS. DEVELOPMENT, WEST
ENERGY SOLUTIONS                           BORREGO SOLAR SYSTEMS, INC.
449 15TH STREET                            360 22ND STREET, SUITE 600              OAKLAND, CA  94612
OAKLAND, CA  94612                         OAKLAND, CA  94612                     OAKLAND, CA  94612
                                                                                          OAKLAND, CA  94612
STEVE KROMER                               MICHELLE VIGEN RALSTON
SKEE                                        COMMON SPARK CONSULTING
3110 COLLEGE AVENUE, APT 12                1929 PARKER ST APT A
BERKELEY, CA  94705                        BERKELEY, CA  94704
                                                                                          BERKELEY, CA  94704
GALEN BARBOSE                              JANIE PAGE
LAWRENCE BERKELEY NATIONAL LABORATORY      LAWRENCE BERKELEY NATIONAL LABORATORY
1 CYCLOTRON RD., MS90R4000                 ONE CYCLONE ROAD, MS 90-1121
BERKELEY, CA  94720                        BERKELEY, CA  94720
                                                                                          BERKELEY, CA  94720
JENNIFER POTTER                            KRISTINA S. H. LACOMMARE
LAWRENCE BERKELEY NATIONAL LABORATORY      LAWRENCE BERKELEY NATIONAL LABORATORY
ONE CYCLOTRON ROAD, MS 90R4000             ONE CYCLONE ROAD, MS 90-1121
BERKELEY, CA  94720                        BERKELEY, CA  94720                     1999 HARRISON ST., STE. 1420
                                                                                          OAKLAND, CA  94612
                                                                                          OAKLAND, CA  94612
NATHANIEL MALCOLM                           PHILLIP MULLER
REGULATORY LAW CLERK                       PRESIDENT
MARIN CLEAN ENERGY                         SCD ENERGY SOLUTIONS
1125 TAMALPAI AVE.                         436 NOVA ALBION WAY
SAN RAFAEL, CA  94901                     SAN RAFAEL, CA  94903
                                                                                          SAN RAFAEL, CA  94903
JOHN NIMMONS                               JOHN NIMMONS, ESQ.
COUNSEL                                    ATTORNEY AT LAW

https://ia.cpuc.ca.gov/servicelists/R1309011_81172.htm  4/30/2019
JOHN NIMMONS & ASSOCIATES, INC.
175 ELINOR AVE., STE. G
MILL VALLEY, CA  94941
FOR: COALITION OF DEMAND RESPONSE PROVIDERS

JAMES BOOTHE
THE ENERGY COALITION
9 REBELO LANE
NOVATO, CA  94947

DOMENICO GELONESE
PRESIDENT & CEO
EMBERTEC® USA LLC INC.
176 SEACLIFF DRIVE
APTON, CA  95003

HENRY OTLEY
EMBERTEC
2105 SOUTH BASCOM AVENUE, SUITE 100
CAMPBELL, CA  95008

MAHON ALDRIDGE
VP - STRATEGIC DEVELOPMENT
ECOLOGY ACTION
877 CEDAR STREET, STE. 240
SANTA CRUZ, CA  95060-3938

C. SUSIE BERLIN
LAW OFFICES OF SUSIE BERLIN
1346 THE ALAMEDA, STE. 7, NO. 141
SAN JOSE, CA  95126

ED FRANCIOSA
MODESTO IRRIGATION DISTRICT
1231 11TH STREET
MODESTO, CA  95354

JAN MCFARLAND
SONIC
1650 EAST NAPA STREET
SONOMA, CA  95476

RICHARD MCCANN
M.CUBED
2655 PORTAGE BAY ROAD, SUITE 3
DAVIS, CA  95616

DELPHINE HOU
FOR: CHARGEPOINT

JASON SIMON
DIR - POLICY STRATEGY
ENPHASE ENERGY
1420 N. MCDOWELL BLVD.
PETALUMA, CA  94954

DAVID WEIDBERG
JOHNSON CONTROLS, INC.
901 CAMPISI WAY, STE. 260
CAMPBELL, CA  95008

SHANA PATADIA
CHARGEPOINT
254 EAST HACIENDA AVE.
CAMPBELL, CA  95008

L. JAN REID
COAST ECONOMIC CONSULTING
3185 GROSS ROAD
SANTA CRUZ, CA  95062

JEFF SHIELDS
UTILITY SYSTEMS DIRECTOR
SOUTH SAN JOAQUIN IRRIGATION DISTRICT
11011 E. HWY 120
MANTECA, CA  95336

GREG SALYER
MODESTO IRRIGATION DISTRICT
1231 11TH STREET
MODESTO, CA  95354

JEFFREY NAHIGIAN
JBS ENERGY, INC.
311 D STREET
WEST SACRAMENTO, CA  95605

CHRISTOPHER DEVON
CALIFORNIA INDEPENDENT SYSTEM OPERATOR
250 OUTCROPPING WAY
FOLSOM, CA  95630
FOR: CALIFORNIA ISO

https://ia.cpuc.ca.gov/servicelists/R1309011_81172.htm
<table>
<thead>
<tr>
<th>Name</th>
<th>Position</th>
<th>Organization</th>
<th>Address</th>
<th>City, State, Zip</th>
</tr>
</thead>
<tbody>
<tr>
<td>CALIF. INDEPENDENT SYSTEMS OPERATOR</td>
<td>MARKET / INFRASTRUCTURE POLICY</td>
<td>CALIFORNIA ISO</td>
<td>250 OUTCROPPING WAY</td>
<td>FOLSOM, CA 95630</td>
</tr>
<tr>
<td>JACQUELINE M. DEROSA</td>
<td>DIRECTOR OF REGULATORY AFFAIRS - CA</td>
<td>CUSTOMIZED ENERGY SOLUTIONS</td>
<td>101 PARKSHORE DRIVE SUITE 100</td>
<td>FOLSOM, CA 95630</td>
</tr>
<tr>
<td>JOHN C. ANDERS</td>
<td>SR. COUNSEL</td>
<td>CALIFORNIA INDEPENDENT SYSTEM OPERATOR</td>
<td>250 OUTCROPPING WAY</td>
<td>FOLSOM, CA 95630</td>
</tr>
<tr>
<td>KEITH G. JOHNSON</td>
<td>MANAGER, INFRASTRUCTURE POLICY</td>
<td>CALIFORNIA INDEPENDENT SYSTEM OPERATOR</td>
<td>250 OUTCROPPING WAY</td>
<td>FOLSOM, CA 95630</td>
</tr>
<tr>
<td>CYNTHIA HINMAN</td>
<td>CALIFORNIA ISO</td>
<td></td>
<td>250 OUTCROPPING WAY</td>
<td>FOLSOM, CA 95630-8773</td>
</tr>
<tr>
<td>LEGAL AND REGULATORY DEPARTMENT</td>
<td>CALIFORNIA ISO</td>
<td></td>
<td>250 OUTCROPPING WAY</td>
<td>FOLSOM, CA 95630-8773</td>
</tr>
<tr>
<td>LON W. HOUSE, PH.D</td>
<td>ASSN. OF CALIFORNIA WATER AGENCIES</td>
<td></td>
<td>2201 FRANCISCO DRIVE, STE. 140-120</td>
<td>EL DORADO HILLS, CA 95762</td>
</tr>
<tr>
<td>CAROLYN M. KEHREIN</td>
<td>CONSULTANT</td>
<td></td>
<td>2602 CELEBRATION WAY</td>
<td>WOODLAND, CA 95776</td>
</tr>
<tr>
<td>DAVID HUNGERFORD</td>
<td>CALIFORNIA ENERGY COMMISSION</td>
<td></td>
<td>1516 NINTH STREET, MS-22</td>
<td>SACRAMENTO, CA 95814</td>
</tr>
<tr>
<td>DOROTHY ROTHROCK</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MARKET / INFRASTRUCTURE POLICY</td>
<td>JILL POWERS</td>
<td>CALIFORNIA INDEPENDENT SYSTEM OPERATOR</td>
<td>250 OUTCROPPING WAY</td>
<td>FOLSOM, CA 95630</td>
</tr>
<tr>
<td>KARL MEEUSEN, PH.D</td>
<td>SR. COUNSEL</td>
<td>CALIFORNIA INDEPENDENT SYSTEM OPERATOR</td>
<td>250 OUTCROPPING WAY</td>
<td>FOLSOM, CA 95630</td>
</tr>
<tr>
<td>SAEED FARROKHPAY</td>
<td>MANAGER, INFRASTRUCTURE POLICY</td>
<td>FEDERAL ENERGY REGULATORY COMMISSION</td>
<td>1835 IRON POINT RD., STE. 160</td>
<td>FOLSOM, CA 95630-8771</td>
</tr>
<tr>
<td>JOHN GOODIN</td>
<td>CALIFORNIA ISO</td>
<td></td>
<td>250 OUTCROPPING WAY</td>
<td>FOLSOM, CA 95630-8773</td>
</tr>
<tr>
<td>BRIAN THEAKER</td>
<td>DIR - REGULATORY AFFAIRS</td>
<td>NRG ENERGY</td>
<td>3161 KEN DEREK LANE</td>
<td>PLACERVILLE, CA 95667</td>
</tr>
<tr>
<td>KAREN HERTER</td>
<td></td>
<td></td>
<td>2201 FRANCISCO DRIVE, STE. 140-120</td>
<td>EL DORADO HILLS, CA 95762</td>
</tr>
<tr>
<td>DAN GRIFFITHS</td>
<td>ATTORNEY</td>
<td>BRAUN BLAISING MCLAUGHLIN &amp; SMITH, P.C.</td>
<td>915 L STREET, SUITE 1480</td>
<td>SACRAMENTO, CA 95814</td>
</tr>
<tr>
<td>KEVIN WOODRUFF</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Name</td>
<td>Title</td>
<td>Company/Organization</td>
<td>Address</td>
<td></td>
</tr>
<tr>
<td>-------------------------------</td>
<td>--------------------------------------------</td>
<td>------------------------------------------------------------</td>
<td>----------------------------------------------</td>
<td></td>
</tr>
<tr>
<td>VP - GOVERNMENT RELATIONS</td>
<td>CONSULTANT</td>
<td>WOODRUFF EXPERT SERVICES</td>
<td>1127 - 11TH STREET, SUITE 514, SACRAMENTO, CA 95814</td>
<td></td>
</tr>
<tr>
<td>LYNN MARSHALL</td>
<td>CONSULTANT</td>
<td>CALIFORNIA MANUFACTURERS &amp; TECHNO. ASSN.</td>
<td>1115 11TH STREET, SACRAMENTO, CA 95814</td>
<td></td>
</tr>
<tr>
<td>NICHOLAS JANUSCH, PH.D.</td>
<td>ENERGY COMMISSION SPECIALIST</td>
<td>CALIFORNIA ENERGY COMMISSION</td>
<td>1516 9TH STREET, MS-20, SACRAMENTO, CA 95814</td>
<td></td>
</tr>
<tr>
<td>STEVEN KELLY</td>
<td>POLICY DIR</td>
<td>INDEPENDENT ENERGY PRODUCERS ASSOCIATION</td>
<td>1215 K STREET, STE. 900, SACRAMENTO, CA 95814</td>
<td></td>
</tr>
<tr>
<td>RONALD LIEBERT</td>
<td>ATTORNEY AT LAW</td>
<td>ELLISON SCHNEIDER HARRIS &amp; DONLAN LLP</td>
<td>2600 CAPITOL AVENUE, STE. 400, SACRAMENTO, CA 95816</td>
<td></td>
</tr>
<tr>
<td>LYNN HAUG</td>
<td></td>
<td>ELLISON, SCHNEIDER &amp; HARRIS L.L.P.</td>
<td>2600 CAPITOL AVENUE, SUITE 400, SACRAMENTO, CA 95816-5931</td>
<td></td>
</tr>
<tr>
<td>VIKKI WOOD</td>
<td></td>
<td>SACRAMENTO MUNICIPAL UTILITY DISTRICT</td>
<td>6301 S STREET, MS A204, SACRAMENTO, CA 95817</td>
<td></td>
</tr>
<tr>
<td>ANN L. TROWBRIDGE</td>
<td>ATTORNEY AT LAW</td>
<td>DAY CARTER &amp; MURPHY LLP</td>
<td>3620 AMERICAN RIVER DRIVE, STE. 205, SACRAMENTO, CA 95864</td>
<td></td>
</tr>
<tr>
<td>JACK ELLIS</td>
<td></td>
<td>FOR: CALIFORNIA CLEAN DISTRIBUTED GENERATION COALITION (CCDC)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MARGARET SHERIDAN</td>
<td>CONSULTANT</td>
<td>CALIFORNIA ENERGY COMMISSION</td>
<td>1516 NINTH STREET, MS-22, SACRAMENTO, CA 95814</td>
<td></td>
</tr>
<tr>
<td>REGULATORY CLERK</td>
<td></td>
<td>BRAUN BLAISING SMITH WYNNE, PC</td>
<td>915 L STREET, STE. 1480, SACRAMENTO, CA 95814</td>
<td></td>
</tr>
<tr>
<td>TANYA DERIVI</td>
<td></td>
<td>SO. CALIFORNIA PUBLIC POWER AUTHORITY</td>
<td>915 L STREET, STE. 1410, SACRAMENTO, CA 95814</td>
<td></td>
</tr>
<tr>
<td>ANDREW B. BROWN</td>
<td>ATTORNEY AT LAW</td>
<td>ELLISON SCHNEIDER HARRIS &amp; DONLAN LLP</td>
<td>2600 CAPITOL AVENUE, SUITE 400, SACRAMENTO, CA 95816-5931</td>
<td></td>
</tr>
<tr>
<td>DAN AUSTIN</td>
<td></td>
<td>SR. DEMAND SIDE SPECIALIST</td>
<td>SACRAMENTO MUNICIPAL UTILITY DISTRICT</td>
<td></td>
</tr>
<tr>
<td>KAREN LINDH</td>
<td></td>
<td>CALIFORNIA ONSITE GENERATION</td>
<td>7909 WALEGAR ROAD, NO. 112, PMB 119, ANTELOPE, CA 95843</td>
<td></td>
</tr>
<tr>
<td>BILL HENRY</td>
<td></td>
<td>EQL ENERGY</td>
<td>3701 SE MILWAUKIE AVENUE, SUITE A, PORTLAND, OR 97202</td>
<td></td>
</tr>
</tbody>
</table>

https://ia.cpuc.ca.gov/servicelists/R1309011_81172.htm  4/30/2019
MARY WIE NCKE
PACIFICORP
825 N. E. MULTNOMAH, SUITE 1800
PORTLAND, OR  97232

JENNIFER HOLMES
ENERGY MARKET INNOVATIONS INC.
83 COLUMBIA STREET, SUITE 400
SEATTLE, WA  98104-1416

NKECHI OGBUE
MGR - REGULATORY AFFAIRS
ECOBEE, INC.
250 UNIVERSITY AVE. SUITE 400
TORONTO, ON M5H 3E5
CANADA

EVERITT LONG
DIRECTOR OF INTELLECTUAL PROPERTY
ECOBEE, INC.
477 RICHMOND ST. WEST
TORONTO, ON M5V 3E7
CANADA

ANDY GASSNER
SENIOR ANALYST
ENBALA POWER NETWORKS
930 WEST 1ST ST., NO. 211
NORTH VANCOUVER, BC V7P 3N4
CANADA

State Service

DONALD J. BROOKS
CPUC - ENERGY DIV.
EMAIL ONLY
EMAIL ONLY, CA  00000

LEGAL DIVISION
CPUC
EMAIL ONLY
EMAIL ONLY, CA  00000

LEUWAM TESFAI
ENERGY
CALIFORNIA PUBLIC UTILITIES COMMISSION
EMAIL ONLY
EMAIL ONLY, CA  00000

MARTHA GUZMAN ACEVES
OFFICE OF COMMISSIONER GUZMAN ACEVES
CPUC - EXEC. DIV.
EMAIL ONLY
EMAIL ONLY, CA  00000

MARYAM MOZAFARI
CALIFORNIA PUBLIC UTILITIES COMMISSION
EMAIL ONLY
EMAIL ONLY, CA  00000

NATHAN B ARCIC
CPUC
EMAIL ONLY
EMAIL ONLY, CA  00000

RACHEL MCMAHON
CPUC
EMAIL ONLY
EMAIL ONLY, CA  00000

WERNER BLUMER
CPUC - ENERGY
EMAIL ONLY
EMAIL ONLY, CA  00000

XIAN MING LI
ORA - ELECTRICITY PRICING
CALIFORNIA PUBLIC UTILITIES COMMISSION
EMAIL ONLY
EMAIL ONLY, CA  00000

ALOKE GUPTA
CALIF PUBLIC UTILITIES COMMISSION
DEMAND RESPONSE, CUSTOMER GENERATION, AN AREA 4-A
505 VAN NESS AVENUE
SAN FRANCISCO, CA  94102-3214

AUDREY NEUMAN
CALIF PUBLIC UTILITIES COMMISSION

BRUCE KANESHIRO
CALIF PUBLIC UTILITIES COMMISSION
PROCUREMENT STRATEGY AND OVERSIGHT BRANCH
505 VAN NESS AVENUE
SAN FRANCISCO, CA 94102-3214

CAITLIN POLLOCK
CALIF PUBLIC UTILITIES COMMISSION
PROCUREMENT STRATEGY AND OVERSIGHT BRANCH
505 VAN NESS AVENUE
SAN FRANCISCO, CA 94102-3214

CHRISTOPHER CLAY
CALIF PUBLIC UTILITIES COMMISSION
LEGAL DIVISION
505 VAN NESS AVENUE
SAN FRANCISCO, CA 94102-3214

DANIEL BUCH
CALIF PUBLIC UTILITIES COMMISSION
ELECTRICITY PRICING AND CUSTOMER PROGRAM
AREA 4-A
505 VAN NESS AVENUE
SAN FRANCISCO, CA 94102-3214

DIANA L. LEE
CALIF PUBLIC UTILITIES COMMISSION
LEGAL DIVISION
505 VAN NESS AVENUE
SAN FRANCISCO, CA 94102-3214

ELIZABETH DORMAN
CALIF PUBLIC UTILITIES COMMISSION
LEGAL DIVISION
ROOM 4300
505 VAN NESS AVENUE
SAN FRANCISCO, CA 94102-3214

GARIMA VASHISHTHA
CALIF PUBLIC UTILITIES COMMISSION
DEMAND RESPONSE, CUSTOMER GENERATION, AREA
505 VAN NESS AVENUE
SAN FRANCISCO, CA 94102-3214

HELENA OH
CALIF PUBLIC UTILITIES COMMISSION
ELECTRICITY PLANNING & POLICY BRANCH
AREA 4-A
505 VAN NESS AVENUE
SAN FRANCISCO, CA 94102-3214

JEAN A. LAMMING
CALIF PUBLIC UTILITIES COMMISSION
DEMAND RESPONSE, CUSTOMER GENERATION, AREA
505 VAN NESS AVENUE
SAN FRANCISCO, CA 94102-3214

KATHERINE J. STOCKTON
CALIF PUBLIC UTILITIES COMMISSION
DEMAND RESPONSE, CUSTOMER GENERATION, AREA
505 VAN NESS AVENUE
SAN FRANCISCO, CA 94102-3214

KE HAO OUYANG
CALIF PUBLIC UTILITIES COMMISSION
UTILITY & PAYPHONE ENFORCEMENT BRANCH
AREA 2-E
505 VAN NESS AVENUE
SAN FRANCISCO, CA 94102-3214

KELLY A. HYMES
CALIF PUBLIC UTILITIES COMMISSION
ADMINISTRATIVE LAW JUDGE DIVISION
ROOM 5104
505 VAN NESS AVENUE
SAN FRANCISCO, CA 94102-3214

Michele Kito
CALIF PUBLIC UTILITIES COMMISSION
PROCUREMENT STRATEGY AND OVERSIGHT BRANCH
AREA 4-A
505 VAN NESS AVENUE
SAN FRANCISCO, CA 94102-3214

Natalie Guishar
CALIF PUBLIC UTILITIES COMMISSION
DEMAND RESPONSE, CUSTOMER GENERATION, AREA
505 VAN NESS AVENUE
SAN FRANCISCO, CA 94102-3214

Nilgun Atamturk
CALIF PUBLIC UTILITIES COMMISSION
ADMINISTRATIVE LAW JUDGE DIVISION
ROOM 5024
505 VAN NESS AVENUE
SAN FRANCISCO, CA 94102-3214

For: ORA
Nils Stringberg  
Calif Public Utilities Commission  
Energy Efficiency Branch  
Area 4-A  
505 Van Ness Avenue  
San Francisco, CA  94102-3214

Rachel McMahon  
Calif Public Utilities Commission  
Market Structure, Costs and Natural Gas Area  
505 Van Ness Avenue  
San Francisco, CA  94102-3214

Radu Ciupagea  
Calif Public Utilities Commission  
Electricity Planning & Policy Branch  
Room 4104  
505 Van Ness Avenue  
San Francisco, CA  94102-3214

Simone Brant  
Calif Public Utilities Commission  
Procurement Strategy and Oversight Branch  
Area 4-A  
505 Van Ness Avenue  
San Francisco, CA  94102-3214

Sudheer Gokhale  
Calif Public Utilities Commission  
Electricity Pricing and Customer Program Area  
505 Van Ness Avenue  
San Francisco, CA  94102-3214

Valerie Kao  
Calif Public Utilities Commission  
Administrative Law Judge Division  
Room 5005  
505 Van Ness Avenue  
San Francisco, CA  94102-3214

Yuliya Shmidt  
Calif Public Utilities Commission  
Commissioner Rechtschaffen  
Room 4209  
505 Van Ness Avenue  
San Francisco, CA  94102-3214

Angie Gould  
California Energy Commission  
1516 9th Street, MS-43  
Sacramento, CA  95814

Steve Ghadiri, P.E.  
Associate Electrical Engineer  
California Energy Commission  
1516 9th Street, MS-43  
Sacramento, CA  95814

Tanner Kural  
California Energy Commission  
1500 5th Street  
Sacramento, CA  95814

Michael Kohaya  
Calif Public Utilities Commission  
Utility & Payphone Enforcement Branch  
180 Promenade Circle, Suite 115  
Sacramento, CA  95834

Top of Page
Back to Index of Service Lists