

PUBLIC UTILITIES COMMISSION
505 Van Ness Avenue
San Francisco CA 94102-3298



Pacific Gas & Electric Company
ELC (Corp ID 39)
Status of Advice Letter 6512E
As of March 25, 2022

Subject: Southern California Edison Company, San Diego Gas and Electric Company and Pacific Gas and Electric Company's Submission of Updated Automated Demand Response Control Incentive Guidelines and Adopted Policies

Division Assigned: Energy

Date Filed: 02-24-2022

Date to Calendar: 02-28-2022

Authorizing Documents: D2112015

Disposition:	Accepted
Effective Date:	02-24-2022

Resolution Required: No

Resolution Number: None

Commission Meeting Date: None

CPUC Contact Information:

edtariffunit@cpuc.ca.gov

AL Certificate Contact Information:

Kimberly Loo

415-973-4587

PGETariffs@pge.com

PUBLIC UTILITIES COMMISSION
505 Van Ness Avenue
San Francisco CA 94102-3298



To: Energy Company Filing Advice Letter

From: Energy Division PAL Coordinator

Subject: Your Advice Letter Filing

The Energy Division of the California Public Utilities Commission has processed your recent Advice Letter (AL) filing and is returning an AL status certificate for your records.

The AL status certificate indicates:

- Advice Letter Number
- Name of Filer
- CPUC Corporate ID number of Filer
- Subject of Filing
- Date Filed
- Disposition of Filing (Accepted, Rejected, Withdrawn, etc.)
- Effective Date of Filing
- Other Miscellaneous Information (e.g., Resolution, if applicable, etc.)

The Energy Division has made no changes to your copy of the Advice Letter Filing; please review your Advice Letter Filing with the information contained in the AL status certificate, and update your Advice Letter and tariff records accordingly.

All inquiries to the California Public Utilities Commission on the status of your Advice Letter Filing will be answered by Energy Division staff based on the information contained in the Energy Division's PAL database from which the AL status certificate is generated. If you have any questions on this matter please contact the:

Energy Division's Tariff Unit by e-mail to
edtariffunit@cpuc.ca.gov



Sidney Bob Dietz II
Director
Regulatory Relations

Pacific Gas and Electric Company
77 Beale St., Mail Code B13U
P.O. Box 770000
San Francisco, CA 94177

Fax: 415-973-3582

February 24, 2022

Advice 6512-E

(Pacific Gas and Electric Company ID – U 39 E)

Advice 4728-E

(Southern California Edison Company – U 338-E)

Advice 3959-E

(San Diego Gas and Electric Company – U 902-E)

Public Utilities Commission of the State of California

Subject: Southern California Edison Company, San Diego Gas and Electric Company and Pacific Gas and Electric Company’s Submission of Updated Automated Demand Response Control Incentive Guidelines and Adopted Policies, Pursuant to Decision 21-12-015

Purpose

Pacific Gas and Electric Company (PG&E) hereby submits this advice letter in coordination with Southern California Edison Company (SCE) and San Diego Gas and Electric Company (SDG&E) (together, the “Investor-Owned Utilities” (IOUs)) to update the Automated Demand Response Control Incentives Guidelines and Adopted Policies (Guidelines),¹ pursuant to Decision (D.) 21-12-015.

Background

On November 19, 2020, the California Public Utilities Commission (CPUC or Commission) initiated Rulemaking (R.) 20-11-003 to establish policies, process, and rules to ensure reliable electric service in California in the event of potential extreme weather in the Summer of 2021 and 2022. The Commission issued its Phase 1 final decision (D. 21-03-056) on March 26, 2021.

¹ Described in Attachment 1 of PG&E Advice Letter 6309-E & 6309-E-A, SCE Advice Letter 4580-E & 4580-E-A and SDG&E Advice Letter 3844-E & 3844-E-A.

In response to an emergency proclamation issued by the Governor of California,² the assigned Administrative Law Judge (ALJ) initiated Phase 2 of R.20-11-003 on August 2, 2021. On December 6, 2021, after receiving testimonies, legal opening, and reply briefs from parties, the Commission issued D.21-12-015, the Phase 2 final decision directing the IOUs to take additional actions to prepare for potential extreme weather in the Summer of 2022 and 2023. As to the subject of this advice letter, D.21-21-015 stated in relevant part:

The IOUs are authorized to pay upfront 100% of the eligible incentives for a custom Auto DR project on the condition that the customer's enrollment commitment to participate in an eligible DR program is extended from three years to five years. This modification is effective for 2022 and 2023 only. The Auto DR eligibility criteria for DR programs remain unchanged.³

Discussion

Pursuant to D.21-12-015,⁴ PG&E and SCE hereby submit joint updates to the Guidelines which are provided as Attachment A.⁵ D.21-12-015 authorized the modification of the Auto Demand Response Customized (Calculated) Incentives to pay 100% of eligible incentives upfront on the condition that the customer's enrollment in a qualifying Demand Response program is for a minimum five-year term. The existing 60/40% payment structure, which requires three-years of minimum participation in a qualifying DR program, remains an option available to customers. The 100% up-front payment option is limited to program years 2022 and 2023.

Modifications to the Guidelines add the 100% up-front option for program years 2022 and 2023.

The attachment to this submittal is as follows:

- Attachment A: Joint Investor-Owned Utilities (IOU) Auto Demand Response Control Incentives Guidelines and Adopted Policies (Guidelines)

² See <https://www.gov.ca.gov/2021/07/30/governor-newsom-signs-emergency-proclamation-to-expedite-clean-energy-projects-and-relieve-demand-on-the-electrical-grid-during-extreme-weather-events-this-summer-as-climate-crisis-threatens-western-s/>. (Press Release) and <https://www.gov.ca.gov/wp-content/uploads/2021/07/Energy-Emergency-Proc-7-30-21.pdf>. (Proclamation of a State of Emergency).

³ D.21-12-015, p. 65; see also id., Finding of Fact 113 (p. 149), Conclusion of Law 42 (p. 156).

⁴ Findings of Facts 113 and Conclusions of Law 42

⁵ SDG&E will not be implementing this enhancement. However, since the ADR Guidelines are a joint document SDG&E is party to this Advice Filing even though updates to its section of the document are not being made.

Tier Designation

Pursuant to D.21-12-015, Finding of Fact 111 (p. 148), this advice letter is submitted with a Tier 1 designation.

Protests

Anyone wishing to protest this submittal may do so by letter sent electronically via E-mail, no later than March 16, 2022, which is 20 days after the date of this submittal. Protests must be submitted to:

CPUC Energy Division
ED Tariff Unit
E-mail: EDTariffUnit@cpuc.ca.gov

Copies of protests also should be mailed to the attention of the Director, Energy Division, Room 4004, at the address shown above.

The protest shall also be sent to the IOUs below either via E-mail or U.S. mail (and by facsimile, if possible) at the address shown below on the same date it is mailed or delivered to the Commission:

For PG&E:

Sidney Bob Dietz II
Director, Regulatory Relations
c/o Megan Lawson
E-mail: PGETariffs@pge.com

For SCE:

Shinjini C. Menon
Managing Director, State Regulatory Operations
E-mail: AdviceTariffManager@sce.com

Tara S. Kaushik
Managing Director, Regulatory Relations
c/o Karyn Gansecki
E-mail: Karyn.Gansecki@sce.com

For SDG&E:

Greg Anderson
Regulatory Tariff Manager
San Diego Gas & Electric Company
Email: GAnderson@sdge.com and SDGETariffs@sdge.com

Any person (including individuals, groups, or organizations) may protest or respond to an advice letter (General Order 96-B, Section 7.4). The protest shall contain the following information: specification of the advice letter protested; grounds for the protest; supporting factual information or legal argument; name and e-mail address of the protestant; and statement that the protest was sent to the utility no later than the day on which the protest was submitted to the reviewing Industry Division (General Order 96-B, Section 3.11).

Effective Date

The IOUs request that this Tier 1 advice letter become effective upon date of submittal, which is February 24, 2022.

Notice

In accordance with General Order 96-B, Section IV, a copy of this advice letter is being sent electronically to parties shown on the attached list and the parties on the service lists for (R.) 20-11-003, A.17-01-012, A.17-01-018, and A.17-01-019. Address changes to the General Order 96-B service list should be directed to PG&E at email address PGETariffs@pge.com. For changes to any other service list, please contact the Commission's Process Office at (415) 703-2021 or at Process_Office@cpuc.ca.gov. Send all electronic approvals to PGETariffs@pge.com. Advice letter submittals can also be accessed electronically at: <http://www.pge.com/tariffs/>.

/S/

Sidney Bob Dietz II
Director, Regulatory Relations

Attachment

cc: Service List R.20-11-003, A.17-01-012, A.17-01-018, and A.17-01-019



ADVICE LETTER SUMMARY

ENERGY UTILITY



MUST BE COMPLETED BY UTILITY (Attach additional pages as needed)

Company name/CPUC Utility No.: Pacific Gas and Electric Company (ID U39 E)

Utility type:

- ELC GAS WATER
 PLC HEAT

Contact Person: Kimberly Loo

Phone #: (415)973-4587

E-mail: PGETariffs@pge.com

E-mail Disposition Notice to: KELM@pge.com

EXPLANATION OF UTILITY TYPE

ELC = Electric GAS = Gas WATER = Water
 PLC = Pipeline HEAT = Heat

(Date Submitted / Received Stamp by CPUC)

Advice Letter (AL) #: 6512-E, et al.

Tier Designation: 1

Subject of AL: Southern California Edison Company, San Diego Gas and Electric Company and Pacific Gas and Electric Company's Submission of Updated Automated Demand Response Control Incentive Guidelines and Adopted Policies, Pursuant to Decision 21-12-015

Keywords (choose from CPUC listing): Compliance

AL Type: Monthly Quarterly Annual One-Time Other:

If AL submitted in compliance with a Commission order, indicate relevant Decision/Resolution #: D.21-12-015

Does AL replace a withdrawn or rejected AL? If so, identify the prior AL: No

Summarize differences between the AL and the prior withdrawn or rejected AL:

Confidential treatment requested? Yes No

If yes, specification of confidential information:

Confidential information will be made available to appropriate parties who execute a nondisclosure agreement. Name and contact information to request nondisclosure agreement/ access to confidential information:

Resolution required? Yes No

Requested effective date: 2/24/22

No. of tariff sheets: 0

Estimated system annual revenue effect (%): N/A

Estimated system average rate effect (%): N/A

When rates are affected by AL, include attachment in AL showing average rate effects on customer classes (residential, small commercial, large C/I, agricultural, lighting).

Tariff schedules affected: N/A

Service affected and changes proposed¹: N/A

Pending advice letters that revise the same tariff sheets: N/A

¹Discuss in AL if more space is needed.

Protests and correspondence regarding this AL are to be sent via email and are due no later than 20 days after the date of this submittal, unless otherwise authorized by the Commission, and shall be sent to:

California Public Utilities Commission
Energy Division Tariff Unit Email:
EDTariffUnit@cpuc.ca.gov

Contact Name: Sidnev Bob Dietz II. c/o Megan Lawson
Title: Director, Regulatory Relations
Utility/Entity Name: Pacific Gas and Electric Company

Telephone (xxx) xxx-xxxx:
Facsimile (xxx) xxx-xxxx:
Email: PGETariffs@pge.com

Contact Name:
Title:
Utility/Entity Name:

Telephone (xxx) xxx-xxxx:
Facsimile (xxx) xxx-xxxx:
Email:

CPUC
Energy Division Tariff Unit
505 Van Ness Avenue
San Francisco, CA 94102

Clear Form

Attachment A

Joint Investor-Owned Utilities (IOU) Auto Demand Response Control Incentives Guidelines and Adopted Policies (Guidelines)

Joint Investor-Owned Utilities (IOU)
Auto Demand Response
Control Incentives Guidelines
and Adopted Policies
(Guidelines)

February 24, 2022



Prepared By



Adenna Lee, Regulatory Affairs & Compliance Advisor
Craig Flenghi, Advisor



Mark Jensen, Program Advisor
Kathryn Smith, Program Advisor



Albert Chiu, Expert Product Manager
Wendy Brummer, Expert Program Manager

Table of Contents

Abstract	1
Abbreviations	2
Definitions	3
Background on the ADR Program	4
Purpose	5
Guidelines and Policies	5
<i>Current Guidelines and Policies</i>	6
<i>ADR Guidelines and Policies Adopted in D.09-08-027</i>	6
<i>ADR Guidelines and Policies Adopted in D.12-04-045</i>	6
<i>ADR Guidelines and Policies Adopted in D.14-05-025</i>	6
<i>ADR Guidelines and Policies Adopted in D.16-06-029</i>	6
<i>ADR Guidelines and Policies Adopted in D.17-12-003</i>	7
<i>ADR Guidelines and Policies Adopted in D.18-11-029</i>	7
<i>ADR Guidelines and Policies Adopted in D.19-07-009</i>	9
Future Revisions to the Guidelines: Annual Process for “Complex and Technical” Refinements	9
Resolution of 2019 Complex and Technical Refinements	10

APPENDIX A - Program Rules and Eligibility Requirements for Residential ADR Incentive

APPENDIX B – Program Rules and Eligibility Requirements for Non-Residential ADR
Calculated Incentives

APPENDIX C – Program Rules and Eligibility Requirements for Non-Residential ADR
Deemed Incentives

APPENDIX D – Allocation of Auto-DR Costs for Cost Effectiveness

APPENDIX E – Determination of whether or not the incremental load reduction covers
the incentive costs

Abstract

The Automated Demand Response (ADR) technology incentives offset ADR Control costs incurred by customers who wish to enroll in demand response (DR) programs utilizing software and systems to effectuate load drop with no manual intervention. The ADR Control automates participation in DR events to ensure customers provide reliable load shed during DR program events. Although non-residential customers have been the primary customer class to be eligible for these incentives, the three electric investor-owned utilities (IOUs) have also provided ADR technology incentives to mass market customers, including residential and small-to-medium business (SMB) customers, to increase customer adoption of ADR Controls that can automate and provide reliable DR benefits.

The guidelines in this document provide the general program parameters for the IOUs automated demand response control incentive offerings as approved by California Public Utilities Commission (CPUC) Decision (D.) 17-12-003 and D.18-11-029. In addition, the resolutions of the 2019 ADR technical issues listed in Ordering Paragraph (OP) 9 of D.18-11-029 are included as well.

Abbreviations

AB 793	Assembly Bill 793
Auto-DR or ADR	Automated Demand Response Technology Incentive Program
BIP	Base Interruptible Program
CBP	Capacity Bidding Program
CCA	Community Choice Aggregation
CNCC	Competitive Neutrality Cost Causation
CPP	Critical Peak Pricing Program
CPUC	California Public Utilities Commission
DA	Direct Access
DR	Demand Response
DRAM	Demand Response Auction Mechanism Pilot
DRAS	Demand Response Automation Server
DRP	Demand Response Provider
EMS	Energy Management System
IOU or IOUs	Investor-Owned Utility or Investor-Owned Utilities
kW	Kilowatt
M&V	Measurement & Valuation
MW	Megawatt
OpenADR	Open Automated Demand Response
PDP	Peak Day Pricing Program
PG&E	Pacific Gas and Electric Company
RTP	Real Time Pricing Program
SCE	Southern California Edison Company
SDG&E	San Diego Gas and Electric Company
SEP	Smart Energy Program
SMB	Small and Medium Business
SSP	PG&E Supply Side DR Pilot
TA&TI	Technical Assistance and Technology Incentives Program
TD	Technology Deployment

Definitions

ADR Control:

The ability to receive an automated demand response signal to enable the customer to participate in a demand response event without any manual customer intervention. *

**The IOUs note and recognize that many controls either allow or require the customer to acknowledge the signal before it begins equipment shutdown and that customers have override authority when a signal is received.*

Open ADR:

An open and standardized software protocol for electricity providers and system operators to communicate DR signals with each other and with their customers using a common language over any existing IP-based communications network, such as the Internet.

Dispatch or Dispatchable or DR Event:

The act of reducing existing load at the Customer's facility(ies), in response to a signal or dispatch instruction from an IOU's DRAS or DRP's automated dispatch system, for all or a portion of the Customer's electrical consumption during the demand response event.

Qualifying DR Program:

A DR program, approved by the CPUC, in which the program's participant(s) are eligible to receive ADR incentives which automate a customer's participation in program events.

Background on the ADR Program

In late 2006, the Commission modified the IOUs' 2006-2008 Demand Response portfolios by adopting programs for 2007 and 2008 that encourage automated demand response for commercial, industrial, and agricultural customers.¹ The three California IOUs have administered the statewide Automated Demand Response Technology Incentive Program (ADR Program) since that time.

The ADR Program primarily provides incentives to non-residential customers that purchase and install ADR Controls at the customers' facility or site to automate their participation and load curtailment in a Qualifying DR program. Non-residential customers are able to pre-program their DR participation levels, referred to as "shed strategies," through an ADR-enabled energy management system or technology, which allows the facility or building to automatically participate in a DR event. ADR Controls provide customers with increased flexibility (e.g., customizable load shed strategies) and ease-of-use without the need for manual response or intervention.

Reimbursement through the original ADR Program is available for the purchase and installation of ADR Controls to all non-residential customers. Non-residential customers must also have an interval meter, must enroll and participate in at least one Qualifying DR Program, must be able to demonstrate automated curtailment, and must demonstrate receipt of an ADR signal from the IOU's DRAS or DRP's automated dispatch system.

In Decision (D.) [16-06-029](#), the Commission directed the Joint IOUs to adopt common program rules and incentives levels in an effort to achieve greater consistency between the IOUs' ADR Programs. In D.16-06-029, the Commission directed each IOU to modify its ADR Program for large non-residential customers and offer a 2-part (60/40) incentive, limited up to \$200 per kW of verified Dispatchable load reduction, or 75 percent (75%) of the total project costs, whichever amount is lower. The first incentive payment is paid at 60 percent (60%) of the total eligible incentives and is paid after installation, M&V load shed test, and customer enrollment in a Qualifying DR Program. The customer is eligible for a portion or all of the remaining second incentive payment, up to 40 percent (40%), 12-months after the first incentive payment is issued. The second incentive is based upon the customer's average actual DR performance during the 12-month period or a full DR season, whichever is shorter.

PG&E and SCE also offer a deemed incentive to some segments of SMB customers of its ADR Program referred to as Auto-DR FastTrack and Auto-DR Express, respectively. These programs streamline the ADR application process and provide incentives for the

¹ Administrative Law Judge's Ruling Providing Guidance on Content and Format of the 2009-2011 Demand Response Activity Applications issued on February 27, 2008 in CPUC Rulemaking (R.) 07-01-041.

installation of ADR Controls specific to lighting and HVAC controls. By offering a pre-determined, validated estimate of peak demand savings for lighting and HVAC controls, these customers, may be ADR-enabled more efficiently and cost-effectively than through a site-specific calculated measurement and verification process.

Over the last few years², the IOUs have been providing incentives for residential technologies, such as ADR-enabled smart thermostats. SCE began offering incentives for residential thermostats in response to reliability issues, such as Aliso Canyon and in response to legislation, such as AB 793. In D.17-12-003, SCE was authorized to continue offering the \$75 Smart Energy Program thermostat rebate in 2018 – 2022. SDG&E launched a residential thermostat program in 2014 which the CPUC classified as an ADR program beginning in 2018. The IOUs continue to refine and expand residential ADR incentives to provide incentives to other residential ADR Controls.

Purpose

The purpose of these Guidelines is to document eligibility rules and requirements, and Commission policy, for the IOUs ADR Program (e.g. address program eligibility for ADR incentives offered to residential and non-residential customers), in compliance with OP 29 of D.17-12-003.

The appendices contained in these Guidelines summarize the IOUs' ADR proposals program rules approved in previous CPUC decisions, and most recently, D.18-11-029.

- Appendix A – Program Rules and Eligibility Requirements for Residential ADR Incentives
- Appendix B – Program Rules and Eligibility Requirements for Non-Residential ADR Calculated Incentives Program
- Appendix C – Program Rules and Eligibility Requirements for Non-Residential ADR Deemed Incentives (*i.e.*, FastTrack or Express ADR Program)
- Appendix D – Allocation of ADR Costs for Cost Effectiveness
- Appendix E – Determination of whether or not the incremental load reduction covers the incentive costs

Guidelines and Policies

Guidelines and policies affect the implementation and administration of the Statewide ADR Program. Guidelines and policies also serve as a foundation upon which the

² PG&E started to offer residential ADR incentive to Smart Thermostat in September 2017.

original components of the ADR Program were established and serve as basic criteria for other ADR incentive programs, such as a residential ADR incentive program.

Current Guidelines and Policies

ADR Guidelines and Policies Adopted in D.09-08-027

- Authorized the IOUs to require a Qualifying DR Program enrollment and participation requirement to receive incentives.
- Required reporting of incentive commitments into IOUs' DR CPUC Monthly Report.
- Established consistent incentive amounts for the IOUs TA&TI (Incentives for DR audits and non-ADR technologies)

ADR Guidelines and Policies Adopted in D.12-04-045

- Defined Auto Demand Response as automated technologies that allow a customer's equipment or facilities to reduce demand automatically in response to a demand response event or price signal, without the customer taking individual action.
- Directed IOUs to fund ADR technologies that interoperate using generally accepted industry open standards or protocols (i.e. OpenADR).
- Implemented the 60-40 split incentive for all non-residential customers to improve cost-effectiveness and motivate customers to demonstrate load shed performance at the level the equipment was incentivized and designed to achieve.
- Authorized AMP as a Qualifying DR Program for PG&E's ADR incentives.

ADR Guidelines and Policies Adopted in D.14-05-025

- Directed IOUs to create and implement a statewide ADR program.
- Streamlined the ADR application process.
- Provided technical coordinator assistance to ADR customers.

ADR Guidelines and Policies Adopted in D.16-06-029

- Modified eligible incentive amounts for IOUs Customized ADR Programs up to \$200 per kW or 75% of total project costs, whichever is less.
- Re-affirmed 60-40 split incentive for Customized ADR incentives.
- Clarified that all reliability programs, including BIP, are ineligible for the ADR control incentives.

ADR Guidelines and Policies Adopted in D.17-12-003

- Provided Auto Demand Response control incentives to participants of any supply side demand response programs/activities not required to be analyzed for cost-effectiveness. This includes pilots, however, it does not include non-event-based rates.
- Directed the IOUs to report their Auto Demand Response costs associated with all programs that qualify for Auto Demand Response incentives and their cost-effectiveness ratios with and without the Auto Demand Response incentives and shall clearly indicate the total Auto Demand Response incentives excluded from portfolio cost-effectiveness analysis and the costs associated with customers participating in each program qualifying for Auto Demand Response incentives.
- PG&E's Automatic Demand Response Program was approved as amended.
- SCE's Automated Demand Response Technology Incentive Program and Programmable Communicating Thermostat Incentive Program were approved as amended.
- SDG&E's Auto Demand Response Program was approved as amended.

ADR Guidelines and Policies Adopted in D.18-11-029

- Affirmed that the Commission did not establish a requirement that the IOUs must provide Auto Demand Response control incentives for supply side programs subject to cost-effectiveness analyses nor did the Commission prohibit the IOUs from providing these incentives for supply side programs subject to cost-effectiveness.
- Directed IOUs to report in their annual Load Impact Reports the incremental load reduction provided by Auto Demand Response controls and determine whether the load reduction fully covers additional cost of the control incentives allocated to the qualifying demand response programs.
- Prohibited participants of externally contracted demand response resources (e.g. external to the IOU portfolio and DRAM) from receiving Auto Demand Response control incentives.
- Determined that customers of the Demand Response Auction Mechanism Pilot (Auction Pilot), being a demand response pilot, are eligible to receive auto demand response control incentives unless those customers are registered as a Reliability Demand Response Resource (RDRR). RDRR bid into the California Independent System Operator (CAISO) wholesale energy market through the Auction Pilot are not eligible to receive Auto Demand Response control incentives.
- Auto Demand Response is not eligible for "similar" status under D.17-10-017, in regard to the cost causation competitive neutrality principle for unbundled

customers. D.17-10-017 defines “similar” program as “a Community Choice Aggregator or Direct Access Provider’s (also referred to as a “Competing Provider”) demand response program is considered similar to a demand response program provided by an investor-owned utility if the Competing Provider’s program meets all specified requirements.” The Auto Demand Response Program is neither a load modifying nor a supply resource, therefore, it cannot be subject to “similar” status under D.17-10-017.

- In regard to Behavioral Demand Response, receiving a text or email communication in addition to an automatic demand response signal does not disqualify a customer from receiving Auto Demand Response control incentives.
- For eligible automated controls, only the cost of the automated control qualifies for a control incentive, not the cost of the behavioral communication method.
- Devices unable to receive an Auto Demand Response signal are not eligible to receive Auto Demand Response control incentives. Overcoming barriers to adoption of devices such as low awareness, perceived lack of need, discomfort with using device, is not the purpose of the Auto Demand Response program.
- For residential, small and medium business customers, the control must be able to communicate and demonstrate operability using the current Open Auto Demand Response communication protocols and standards (currently OpenADR 2.0a or 2.0b). The control may be located either on site or as part of a control system, on site and at the manufacturer/demand response aggregator or provider cloud level. Only the customer is eligible for the Auto Demand Response control incentive, not the aggregator, demand response provider, or manufacturer cloud portion of the control.
- In the case of the small & medium business customer class and associated end uses, residential customers receiving incentives for thermostats, and customers enrolled in SDG&E’s Technology Deployment Program: the criteria depend upon the type of Auto Demand Response in which the customer is enrolled, such as a deemed incentive based on the average kilowatt load drop for the control in that sector.
- For commercial and industrial customers applying for calculated incentives, the control must be onsite and able to communicate and demonstrate operability using the current Open Auto Demand Response communication protocols and standards (currently OpenADR 2.0a or 2.0b). The IOU must also be able to verify the anticipated kilowatts expected from the end uses equipped with the control as that is what determines the calculated incentive for that class of customers.
- Battery storage controls are not eligible for Auto Demand Response control incentives, unless their Auto-DR application was received before October 26, 2018.

ADR Guidelines and Policies Adopted in D.19-07-009

- Reaffirms the policy that battery storage controls are not eligible for auto demand response control incentives.
- Excludes Reliability Demand Response Resources in the Auction Mechanism.

ADR Guidelines and Policies Adopted in D.21-12-015

- Authorized the IOUs to pay incentives for customized incentives 100% up front, provided that the customer remains enrolled in a qualifying DR program for 60 months.³
- This option is in addition to the current 60/40% payment structure which requires customers to remain in a qualifying DR program for 36 months.
- Program years 2022 and 2023 only.

Future Revisions to the Guidelines: Annual Process for “Complex and Technical” Refinements

The Commission determined that due to the evolving nature of demand response and associated technologies, it is appropriate to address complex and technical issues on an ongoing basis through an annual stakeholder process. Any proposed change must rely upon current budget authorizations for implementation, otherwise, the proposal is not appropriate for this process.

Per D.18-11-029, OP 8, established an annual stakeholder process and authorized Energy Division to work with the IOUs and other stakeholders to identify a set of ADR issues to be resolved for that year. The relevant text from OP 8 is below:

- For future years, the set of issues shall be identified no later than October 31 of the prior year.
- With Energy Division input, the IOUs shall develop proposals to address the issues and serve them on stakeholders no later than May 1 of each year, beginning in 2019.
- The IOUs shall hold workshops or webinars, noticed to the most recent and broadest demand response proceeding service list.
- Based upon the discussions at the workshops, the IOUs shall file, no later than August 15 of each year, draft updates to the Auto Demand Response Control Incentives Guidelines and Adopted Policies (Guidelines), incorporating the proposals to address the set of issues for that year.

³ SDG&E will not be implementing this option in 2022-2023

- All stakeholders may provide informal comments to the service list on the draft updated Guidelines; the Director of the Energy Division is authorized to establish a deadline for submitting the informal comments.
- No later than September 1 of each year, the IOUs shall submit a Tier Two advice letter incorporating the proposals into the Guidelines and including all party comments in the advice letter.

D.18-11-029, OP 9, identified six Auto Demand Response issues to be resolved in 2019:

- a. Review of the approach to calculate control incentives;
- b. Implementation of the policy that Reliability Demand Response Resources are not eligible to receive auto demand response control incentives;
- c. Determination of the frequency of control incentives;
- d. Calculation of incentive cost-effectiveness;
- e. Development of a list of residential Auto Demand Response enabled end-use devices to be considered by Pacific Gas and Electric Company (PG&E) for eligibility for an Auto Demand Response incentive; and
- f. Development of criteria to determine the order for PG&E to evaluate load impacts attributable to the devices.

In addition, D.18-11-029 required that the IOUs track the incremental load reduction provided by ADR controls and determine whether the load reduction fully covers additional cost of the control incentives allocated to DR programs.⁴

Resolution of 2019 Complex and Technical Refinements

The IOUs provided a joint proposal as a follow up to the ADR workshop which took place in June 2019. OP 8 of D.18-11-029, directed the IOUs to develop proposals to address the ADR issues identified in D.18-11-029, OP 9, and to serve them to stakeholders on the service list no later than May 1, 2019. The IOUs complied by filing separate and different draft proposals. In June 2019, the IOUs and Energy Division (ED) hosted an in-person workshop with all stakeholders to discuss each IOU's proposal. At the workshop, the merits of each of the proposals were discussed and ED Staff recommended that the IOUs follow up the discussion at the workgroup by creating a joint IOU proposal. The following is the IOUs' proposed resolution to the technical issues included in D.18-11-029:

⁴ D.18-11-029 page 47.

- a. No changes to the calculation of control incentives should be made until further research is completed.
- b. No proposal needed. On July 12, 2019, the Commission issued D.19-07-009, Decision Addressing Auction Mechanism, Baselines, and Auto Demand Response for Battery Storage. OP 6 of the Decision excludes the procurement of RDRR in the DRAM. This policy alleviates the need for the IOUs to develop and implement a policy to verify that customers participating in DRAM, as an RDRR, from Receiving ADR control incentives.
- c. Current and legacy customers⁵ should be eligible for ADR Incentives once every 7.5 years for controls of the same end use. Consistent with the amortization period formula from the cost-effectiveness protocols, the 7.5-year period was derived by taking the average of the 10-year expected useful life of most ADR Control devices and the 5-year 2018-2022 funding cycle.
 - i) If a customer's incentivized ADR controls are no longer able to communicate with an IOU's system to receive demand response event signals due to change in the communication protocols or a change in the IOU's qualifying Enabling Technologies, the IOU may allow the customer to receive another incentive before the 7.5-year time period elapses. The IOUs also expect to be able to incentivize new ADR controls that provide new incremental demand response load at a site that has already received ADR control incentives, if the new ADR control will control a different end-use. For example, a residential customer previously received incentives for a qualifying thermostat and now seeks to receive incentives for a different type of qualifying device that controls a different end-use, such as a pool pump.
- d. Proposals regarding cost effectiveness:
 - i) Allocation of ADR costs:

Auto-DR incentives should be allocated in line with the forecasted load reduction from new Auto-DR participants in each program. Auto-DR administrative costs should also be allocated based on total load reduction by program. Details of the methodology can be found in Appendix D.
 - ii) Determination of whether the load reduction fully covers the additional cost of the control incentives:

⁵ Current customers are defined as customers participating in ADR incentive programs in 2018 and beyond. Legacy customers are defined as customers who previously participated in ADR incentive programs prior to 2018.

Each IOU has provided an analysis on whether the load reduction from the ADR program fully covers the additional cost of the ADR control incentives. Details of the methodology used for this analysis can be found in Appendix E. The IOUs will provide an annual report on this analysis each year in the May 1st proposals ordered by D.18-11-029.

- e. PG&E completed the initial Collaborative Stakeholder Process in 2020. The list of residential end use devices was developed as a result of the process and was included in the final report provided to the stakeholders on April 2, 2020.
- f. The criteria (to determine the order for PG&E to evaluate load impacts attributable to the devices) was developed as a result of the Collaborative Stakeholder Process and was included in the final report provided to the stakeholders on April 2nd 2020.

Resolution of Issue (a.) from D.18-11-029, OP 9

- a. Review of the approach to calculate control incentives

Although issues b. through f. were resolved with the Commission's approval of Advice Letters 3427-E (SDG&E), 5629-E (PG&E), and 4096-E (SCE), issue a. remained outstanding pending further research. In late 2019, the IOUs led a research project that was conducted by a third-party to review the approach to calculate control incentives, with the objective of identifying a new approach for non-residential customers. Although the research project report contained a dense repository of data and information, along with recommendations, the IOUs did not agree with the recommendations. Additionally, although stakeholders provided feedback in the workshop and some gave incremental input into the report as it was being written, stakeholders did not submit written feedback on the final report itself or on the report's recommendations.

The IOUs are leveraging the information in the research project report to continue to review the approach and potential new approaches to calculating incentive structures through frequent work sessions. The IOUs held a public virtual workshop on March 15, 2021 and presented four ideas currently under consideration. Approximately 50 individuals logged in to the workshop and the IOUs shared the chat and attendees list with CPUC staff. The IOUs will propose any changes to the incentive structure in the 2023-27 DR application. As explained herein, IOUs consider this item (a.) as completed because extensive review has occurred and proposals for changes, if any, will be included in the 2023-27 DR application.

APPENDIX A - Program Rules and Eligibility Requirements for Residential ADR Incentives

IOU Program Name	SCE PCT Incentive Program		PG&E AutoDR Residential Program	SDG&E Technology Deployment (TD) Program
Customer Segment	Residential (<i>Bundled Only</i>)	Residential & SMB (<200kW)	Residential	Residential
Qualifying DR Programs⁶	Smart Energy Program - SEP (formerly PTR-ET-DLC)	CPP, CBP Res, PDR DRAM	Res CBP, Res PDR DRAM, SmartRate	AC Saver, rate with events, PDR DRAM
Minimum DR Program Enrollment Requirement	No minimum DR program requirement at this time. Will evaluate the effectiveness and determine if changes need to be made in the 2023-2027 DR Application.		1 year or 1 DR season, depending on the DR program requirement.	No minimum DR program enrollment requirement.
Incentive/Rebate Amount	\$75		\$50 for Smart Thermostat. Incentive and eligibility for other technologies (TBD)	\$50
Incentive/Rebate Cap	One incentive per service account ⁷		One rebate per household for Smart Thermostat. Rebate cap for other incentivized technologies (TBD)	Two rebates/incentives per household
Incentive/Rebate Recipient	Bill credit issued to customer	Bill credit issued to customer	Rebate check to customer	Gift card issued to customer
Frequency of Incentives	7.5 years			
Evidence of Purchase	Device registration and verification w/ authorized 3rd party	Evidence of device registration and verification w/ an authorized 3rd party	Customer required to upload copy of receipt for Smart Thermostat. Evidence of Purchase for other technologies TBD	Device verification w/ authorized 3rd party
Controllability/Technology Registration Requirement	The control must be able to communicate and demonstrate operability using the current Open Auto Demand Response communication protocols and standards (currently OpenADR 2.0a or 2.0b). The control may be located either on site or as part of a control system, on site and at the manufacturer/demand response aggregator or provider cloud level. Only the customer is eligible for the Auto Demand Response control incentive, not the aggregator, demand response provider, or manufacturer cloud portion of the control.			
Eligible Measures⁸	SEP Qualifying Thermostats	Qualifying Thermostats that meet the above requirement.	Smart Thermostat. Other technologies in the future based on the collaborative stakeholder process.	Controllable Thermostat. Other technologies in the future based on the stakeholder collaborative process
Application Process	SEP www.sce.com/sep	CPP Landing Page www.sce.com/cpp DRAM Customers should contact their third-party provider on how to apply	PG&E eRebate or hardcopy application process (www.pge.com/rebates)	Online
Double Dipping Validation (<i>cannot receive multiple incentives</i>)	During eligibility verification process, Customer's Service Account (SA) will be validated that only one incentive was issued to the SA based upon the EUL identified above.		During eligibility verification process, Customer's Service Account (SA) will be validated that only one incentive was issued to the SA based upon the EUL identified above.	During eligibility verification process the customer service account will be validated.

⁶ Externally contracted demand response resources (e.g. external to the IOU portfolio and DRAM) are not eligible to receive ADR control incentives. For example, externally contracted demand response resources are demand response resources procured through an IOU Request for Offer (RFO), such as SCE's Local Capacity Resource (LCR) RFO or Preferred Resources Pilot (PRP) RFO.

⁷ Customers that receive a free smart thermostat through an existing ratepayer-funded incentive program or pilot are not eligible for an additional PCT incentive.

⁸ ADR incentives for battery storage controls is prohibited except in the case of incentive applications received before October 26, 2018. For eligible automated controls, only the cost of the automated control qualifies for a control incentive.

APPENDIX B – Program Rules and Eligibility Requirements for Non-Residential ADR Calculated Incentives

IOU Program Name	SCE ADR Customized ⁹	PG&E ADR Program	Technology Incentive (TI) Program
Customer Segment	Large Commercial, Industrial, & Agricultural (must provide at least 30kW of automated load reduction)	Non-qualifying FastTrack Commercial, Industrial, & Agricultural	Commercial, Industrial, & Agricultural
Qualifying DR Programs¹⁰	CBP, CPP, RTP, PDR DRAM, or Other Qualifying Pilots	PDP, CBP, PDR DRAM, or other qualifying pilots	CBP, CPP, DRAM or Other Qualifying Pilots
Minimum DR Program Enrollment Requirement	Must be enrolled in a Qualifying DR Program for at least 36 consecutive months for 60/40% split or 60 months for 100%		Must be enrolled in a Qualifying DR Program for at least 36 consecutive months
Incentive Type	Calculated		
Incentive Structure	60% / 40% Split Incentive Payment or 100% Up-Front		60% / 40% Split Incentive Payment
Incentive Level	Up to \$200 per kW		
Incentive Calculation Methodology	Incentive calculated based upon verified load shed test (e.g. subject to 2-hour M&V test)	Incentive based upon engineering calculations and/or verified load shed test, whichever is lower	Incentive based upon engineering calculations and/or verified load shed test
Incentive Project Cap of Eligible Costs	75% of total actual eligible control costs.		
Incentive/Rebate Cap	\$5 million per customer per funding cycle; Individual SAs requesting incentives >\$200k held to performance requirements for the full 36 months	Not Applicable	
Incentive/Rebate Recipient	Rebate check issued to customer	Rebate check issued to customer and/or project sponsor	Rebate check issued to customer
Frequency of Incentives	7.5 years		
Evidence of Purchase	Customers must provide receipts for actual costs incurred	Customers must provide receipts for actual costs incurred	Customer required to provide invoices and/or documentation to support measure costs. Such documents must comply with SDG&E's Invoicing Guidelines and any other documents related to the Project, Project Site, measures, load reduction (kW) or otherwise requested by SDG&E.
Controllability/Technology Registration Requirement	The control must be onsite and able to communicate and demonstrate operability using the current Open Auto Demand Response communication protocols and standards (currently OpenADR 2.0a or 2.0b). The IOU must also be able to verify the anticipated kilowatts expected from the end uses equipped with the control as that is what determines the calculated incentive for that class of customers.		
Eligible Measures¹¹	ADR enabled equipment that facilitates sitewide automatic load reduction such as controls for lighting, motors, pumps, fans, air compressors, process equipment, HVAC load control devices, etc.		
Application Process	Submission of hard copy ADR application and customer agreement		

⁹ ADR Program incentives cannot be provided to customers that have received rebates, incentives, funding, or services for measures and/or costs from other utility, third party, or government (federal, state, or local) program funded by public purpose funds, taxpayers, or IOU Request For Offer (RFO) solicitations, unless explicitly exempted.

¹⁰ Externally contracted demand response resources (e.g., external to the IOU portfolio and DRAM) are not eligible to receive ADR control incentives. For example, externally contracted demand response resources are demand response resources procured through an IOU Request For Offer (RFO), such as SCE's Local Capacity Resource (LCR) RFO or Preferred Resources Pilot (PRP) RFO.

¹¹ ADR incentives for battery storage controls is prohibited except in the case of incentive applications received before October 26, 2018. For eligible automated controls, only the cost of the automated control qualifies for a control incentive.

APPENDIX C – Program Rules and Eligibility Requirements for Non-Residential ADR Deemed Incentives

IOU Program Name	SCE PCT Incentive	SCE ADR Express¹²	PG&E FastTrack	SDG&E TD Program
Customer Segment	See details in Appendix A	Small Retail Stores, Small Office (<100,000 sq ft), and Food Stores (including liquor stores)	Office, Retail, Quick-serve Restaurant, Conditioned Warehouse, Hotel, Grocery ≤499kW	Commercial
Qualifying DR Programs¹³		CBP, CPP, RTP, PDR DRAM, or Other Qualifying Pilots	PDP, CBP, PDR DRAM, or other qualifying pilots	AC Saver, rate with events, CBP, PDR DRAM, or other qualifying pilots
Minimum DR Program Enrollment Requirement		Must be enrolled in a Qualifying DR Program for at least 36 consecutive months		One-Year
Incentive Type		Deemed		
Incentive Structure		100% Up-Front		
Incentive Level		Up to \$300/kW	Up to \$200/kW	\$50 per Smart Thermostat
Incentive Calculation Methodology		Incentive based upon pre-determined kW reduction potential of the specific measure		Incentive based upon pre-determined kW reduction potential of the specific measure
Incentive Project Cap of Eligible Costs		100% of project cost		Not Applicable
Incentive/Rebate Cap		\$1 million per customer per funding cycle (Incentive requests >\$200k are subject to additional performance requirements)	Not Applicable	Four incentives per service account (larger customers may qualify for more)
Incentive/Rebate Recipient		Rebate check issued directly to customer	Rebate check issued directly to customer and/or project sponsor	Rebate check issued directly to customer
Frequency of Incentives		7.5 years		
Evidence of Purchase		Customers must provide receipts for actual costs incurred		Device verification w/ authorized 3rd party
Controllability/Technology Registration Requirement		The control must be able to communicate and demonstrate operability using the current Open Auto Demand Response communication protocols and standards (currently OpenADR 2.0a or 2.0b). The control may be located either on site or as part of a control system, on site and at the manufacturer/demand response aggregator or provider cloud level. Only the customer is eligible for the Auto Demand Response control incentive, not the aggregator, demand response provider, or manufacturer cloud portion of the control.		
Eligible Measures¹⁴		Systems that control standard lighting and HVAC technologies, IOUs may add controls for different end use technologies as appropriate		Controllable Thermostat. Other technologies in the future based on the stakeholder process
Application Process	Submission of hard copy or online application and customer agreement		Submission of online application through authorized 3 rd party	

¹² ADR Program incentives cannot be provided to customers that have received rebates, incentives, funding, or services for measures and/or costs from other utility, third party, or government (federal, state, or local) program funded by public purpose funds, taxpayers, or IOU Request For Offer (RFO) solicitations, unless explicitly exempted.

¹³ Externally contracted demand response resources (e.g., external to the IOU portfolio and DRAM) are not eligible to receive ADR control incentives. For example, externally contracted demand response resources are demand response resources procured through an IOU Request For Offer (RFO), such as SCE’s Local Capacity Resource (LCR) RFO or Preferred Resources Pilot (PRP) RFO.

¹⁴ ADR incentives for battery storage controls is prohibited except in the case of incentive applications received before October 26, 2018. For eligible automated controls, only the cost of the automated control qualifies for a control incentive.

APPENDIX D – Allocation of Auto-DR Costs for Cost Effectiveness

For the post-2022 DR Program Application, the Joint IOUs (PG&E, SCE and SDG&E) propose the following methodology to allocate ADR incentive costs and ADR administrative costs across ADR eligible DR programs (including Supply side DR Programs, Load Modifying DR Programs and DRAM).

Allocation of ADR Incentive Costs: Each IOU will allocate ADR incentive costs to ADR eligible programs based on a forecast of the cumulative incremental ADR enabled KW in each ADR eligible program over the program cycle, multiplied by the estimated \$ per KW ADR incentive applicable for that program. This will involve the following steps:

Step A	Multiplied by Step B	Equals Step C
Estimate the cumulative incremental ADR KW for ADR eligible program each year over the program cycle	Calculate the ADR incentive for each eligible program tested by multiplying the forecasted kW by the ADR \$ per kW incentive.	Include the incentive from Step B in the CE tests as capital costs amortized over time.

Allocation of ADR Program Administrative Costs: The joint IOUs propose to allocate the ADR program administrative costs based on the estimated KW load reductions for each ADR eligible program. This will involve the following steps.

Step A	Step B	Step C
Estimate the KW load impacts for each ADR eligible program over the program cycle ¹⁵	Calculate the pro-rata share of load impacts for each ADR eligible program over the program cycle	Multiply the pro-rata share for each ADR eligible program by the total ADR program administrative budget

¹⁵ DRAM currently is not subject to load impact evaluations; therefore, the IOUs cannot assign administrative costs to DRAM based on load impacts. The IOUs will have to use the best available information at the time.

APPENDIX E – Determination of whether or not the incremental load reduction covers the incentive costs

ADR incremental load reduction compare to ADR incentive - On page 47 of D.18-11-029, the Commission stated that the IOUs should track the incremental load reduction provided by ADR controls, determine whether the load reduction fully covers additional cost of the control incentives allocated to DR programs, and report the incremental load reduction in the annual load impact studies and reports.

Pursuant to the DR cost-effectiveness protocols, the IOUs do not perform a direct cost-effectiveness evaluation of non-resource programs, such as the ADR program. Rather costs of non-resource programs are included in the cost-effectiveness evaluations of the associated DR resource programs. The IOUs applied the methodology described below for determining whether the load reduction covers the cost of the control incentives.

It should be noted that this methodology is not adopted in any Commission proceeding but is the IOU's attempt to address the Commission's directive on page 47 of D.18-11-029.

The IOUs reviewed and analyzed its ADR projects that were active during the 2018 Program Year (PY) Load Impact Study period using the following methodology:

1. Obtain the total MW load impact for the ADR customers included in the 2018 PY DR Load Impact studies¹⁶ for accounts who were paid incentives after the changes to the ADR incentive structures in 2013.¹⁷
2. Calculate the 2018 adjusted capacity value or benefit per kW using the approved avoided cost values and methodology in the DR cost effectiveness workbook.¹⁸
3. Determine the sum of the ADR incentives paid to each participating service account from Step 1.
4. Annualized the incentives by dividing total incentives paid (determined in Step 3) by the amortization period used when including these costs in the cost effectiveness test, which is 7.5 years.¹⁹

¹⁶ DRAM currently is not subject to load impact evaluations and cost effectiveness analysis; therefore, the IOUs cannot evaluate whether the load reduction covers the incentives paid to DRAM participants.

¹⁷ The IOUs used two scenarios. One scenario assumed that ADR customers would not join the DR program absent the ADR incentive, therefore, these amounts are considered "incremental." The other assumed that 50% of the ADR load reduction was incremental.

¹⁸ The DR cost effectiveness framework includes other minor benefits (e.g. energy, T&D, GHG) that may or may not be included since the amounts are small relative to the capacity value.

¹⁹ Tracking the load impacts over the length of time customer remains in program would be a better alternative but more difficult.

APPENDIX E – Determination of whether or not the incremental load reduction covers the incentive costs

5. Divide the annualized total incentives paid (Step 4) by the total 2018 ADR load impacts to obtain an annual dollar per kW paid (Step 4 divided by Step 1).
6. Compare the 2018 adjusted capacity value (Adjusted \$/kW) to the 2018 ADR annualized incentive paid per kW (Step 5 compared to Step 2).

If the variance between the two \$/kW figures (Step 5 and Step 2) is positive, then the load reduction is assumed to cover the cost of the control incentive. If the variance is negative, then the load reduction does not cover the cost of the incentive.

**PG&E Gas and Electric
Advice Submittal List
General Order 96-B, Section IV**

AT&T
Albion Power Company

Alta Power Group, LLC
Anderson & Poole

Atlas ReFuel
BART

Barkovich & Yap, Inc.
Braun Blasing Smith Wynne, P.C.
California Cotton Ginners & Growers Assn
California Energy Commission

California Hub for Energy Efficiency
Financing

California Alternative Energy and
Advanced Transportation Financing
Authority
California Public Utilities Commission
Calpine

Cameron-Daniel, P.C.
Casner, Steve
Center for Biological Diversity

Chevron Pipeline and Power
City of Palo Alto

City of San Jose
Clean Power Research
Coast Economic Consulting
Commercial Energy
Crossborder Energy
Crown Road Energy, LLC
Davis Wright Tremaine LLP
Day Carter Murphy

Dept of General Services
Don Pickett & Associates, Inc.
Douglass & Liddell

East Bay Community Energy Ellison
Schneider & Harris LLP
Engineers and Scientists of California

GenOn Energy, Inc.
Goodin, MacBride, Squeri, Schlotz &
Ritchie
Green Power Institute
Hanna & Morton
ICF
International Power Technology

Intertie

Intestate Gas Services, Inc.
Kelly Group
Ken Bohn Consulting
Keyes & Fox LLP
Leviton Manufacturing Co., Inc.

Los Angeles County Integrated
Waste Management Task Force
MRW & Associates
Manatt Phelps Phillips
Marin Energy Authority
McClintock IP
McKenzie & Associates

Modesto Irrigation District
NLine Energy, Inc.
NRG Solar

OnGrid Solar
Pacific Gas and Electric Company
Peninsula Clean Energy

Pioneer Community Energy

Public Advocates Office

Redwood Coast Energy Authority
Regulatory & Cogeneration Service, Inc.
SCD Energy Solutions
San Diego Gas & Electric Company

SPURR
San Francisco Water Power and Sewer
Sempra Utilities

Sierra Telephone Company, Inc.
Southern California Edison Company
Southern California Gas Company
Spark Energy
Sun Light & Power
Sunshine Design
Tecogen, Inc.
TerraVerde Renewable Partners
Tiger Natural Gas, Inc.

TransCanada
Utility Cost Management
Utility Power Solutions
Water and Energy Consulting Wellhead
Electric Company
Western Manufactured Housing
Communities Association (WMA)
Yep Energy