

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



**Pacific Gas & Electric Company**  
**ELC (Corp ID 39)**  
**Status of Advice Letter 6160E**  
**As of June 14, 2021**

Subject: Update to the Capacity Bidding Program (CBP) Tariff Pursuant to Decision 21-03-056

Division Assigned: Energy

Date Filed: 04-14-2021

Date to Calendar: 04-16-2021

Authorizing Documents: D2103056

<b>Disposition:</b>	<b>Accepted</b>
<b>Effective Date:</b>	<b>04-14-2021</b>

Resolution Required: No

Resolution Number: None

Commission Meeting Date: None

CPUC Contact Information:

[edtariffunit@cpuc.ca.gov](mailto:edtariffunit@cpuc.ca.gov)

AL Certificate Contact Information:

Stuart Rubio

415-973-4587

[PGETariffs@pge.com](mailto: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- Disposition of Filing (Accepted, Rejected, Withdrawn, etc.)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](mailto:edtariffunit@cpuc.ca.gov)**

April 14, 2021

**Advice 6160-E**

(Pacific Gas and Electric Company U 39 E)

Public Utilities Commission of the State of California

**Subject: Update to the Capacity Bidding Program (CBP) Tariff Pursuant to Decision 21-03-056.**

**Purpose**

To update the Capacity Bidding Program (CBP) tariff pursuant to Decision (D. or "Decision") 21-03-056 in Rulemaking 20-11-003<sup>1</sup>

**Background**

D. 21-03-056, Ordering Paragraph (OP) 15, authorized the Investor Owned Utilities (IOUs) to update their Demand Response (DR) program tariffs via tier 1 Advice Filings.<sup>2</sup> As it relates to PG&E, the Decision called for the following three updates<sup>3</sup> for the CBP program, including: (1) an increase in the number of monthly allowed events from five to six (with the number of events taking precedence over the maximum number of 30 hours per month), (2) an available weekend option along with a 25% capacity incentive adder for the MW nominated in weekend periods for 2021 and 2022 CBP seasons, and (3) an increase in the October capacity incentive from \$2.27/kW to \$6.80/kW for 2021 and 2022. At this time, PG&E is not requesting per OP 15 the transfer of "balances" with the Demand Response Programs Balancing Account (DREBA). However, PG&E reserves the right to

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<sup>1</sup> Order Instituting Rulemaking to Establish Policies, Processes, and Rules to Ensure Reliable Electric Service in California in the Event of an Extreme Weather Event in 2021.

<sup>2</sup> Pacific Gas and Electric Company, Southern California Edison Company, and San Diego Gas & Electric Company shall utilize unspent funds from their existing demand response (DR) budgets adopted in Decision 17-12-003, to the extent existing funds are available. To the extent that any tariff amendments are necessary to permit use of existing DR balancing accounts to effectuate the DR program changes ordered in this decision, those changes shall be documented in a Tier 1 Advice Letter, as well as the process for transferring balances within the investor owned utility's Demand Response Programs Balancing Account and Base Revenue Requirement Balancing Account for this purpose.

<sup>3</sup> D.21-03-056, Finding of Facts (FOF) 52, 53 and 54 as well as Attachment 1 of the Decision at pp. 18-19.

do so at a later date if necessary. Finally, PG&E is annotating its CBP tariff to reflect the creation of the Emergency Load Reduction Pilot (ELRP) per the Decision.<sup>4</sup>

### **Tariff Revisions**

- Increase events from five to six with clarification that the number of events takes precedence over the 30 hour maximum per month.
  - Sheet 2-3: Updated to six events in the section titled “Options Products and Bidding” as well as the summary table.
- Offering of a weekend option with a 25% adder for program years 2021 and 2022.
  - Sheets 2, 5, 6, 8 and 10: Addition of language for the weekend option, including the ability to differentiate nominations between weekdays (M-F) and weekends (Sat & Sun).
- Higher incentive level of \$6.80/kW (from \$2.27/kW) for October pertaining to 2021 and 2022:
  - Sheet 6: Updated the incentives table.
- Reference to ELRP:
  - Sheet 1: Addition of language to identify the ELRP as a new pilot that is available to CBP participants.

### **Protests**

**\*\*\*Due to the COVID-19 pandemic and the shelter at home orders, PG&E is currently unable to receive protests or comments to this advice letter via U.S. mail or fax. Please submit protests or comments to this advice letter to EDTariffUnit@cpuc.ca.gov and PGETariffs@pge.com\*\*\***

Anyone wishing to protest this submittal may do so by letter sent via U.S. mail, facsimile or E-mail, no later than **May 4, 2021**, which is 20 days after the date of this submittal. Protests must be submitted to:

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<sup>4</sup> Ordering Paragraph 7.

CPUC Energy Division  
ED Tariff Unit  
505 Van Ness Avenue, 4<sup>th</sup> Floor  
San Francisco, California 94102

Facsimile: (415) 703-2200  
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 PG&E 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:

Erik Jacobson  
Director, Regulatory Relations  
c/o Megan Lawson  
Pacific Gas and Electric Company  
77 Beale Street, Mail Code B13U  
P.O. Box 770000  
San Francisco, California 94177

Facsimile: (415) 973-3582  
E-mail: [PGETariffs@pge.com](mailto:PGETariffs@pge.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, telephone number, postal address, and (where appropriate) 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**

PG&E requests that this **Tier 1** advice submittal become effective upon date of submittal, which is **April 14, 2021**.

### **Notice**

In accordance with General Order 96-B, Section IV, a copy of this advice letter is being sent electronically and via U.S. mail to parties shown on the attached list and the parties on the service list for **R. 20-11-003**. Address changes to the General Order 96-B service list should be directed to PG&E at email address [PGETariffs@pge.com](mailto:PGETariffs@pge.com). For changes to any other service list, please contact the Commission's Process Office at (415) 703-2021





# 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 (U 39 E)

Utility type:

- ELC       GAS       WATER  
 PLC       HEAT

Contact Person: Stuart Rubio

Phone #: (415) 973-4587

E-mail: PGETariffs@pge.com

E-mail Disposition Notice to: SHR8@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) #: 6160-E

Tier Designation: 1

Subject of AL: Update to the Capacity Bidding Program (CBP) Tariff Pursuant to Decision 21-03-056

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. 21-03-056

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: N/A

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: 4/14/21

No. of tariff sheets: 9

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: See attachment 1

Service affected and changes proposed<sup>1</sup>: N/A

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

<sup>1</sup>Discuss in AL if more space is needed.

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

CPUC, Energy Division  
Attention: Tariff Unit  
505 Van Ness Avenue  
San Francisco, CA 94102  
Email: [EDTariffUnit@cpuc.ca.gov](mailto:EDTariffUnit@cpuc.ca.gov)

Name: Erik Jacobson, c/o Megan Lawson  
Title: Director, Regulatory Relations  
Utility Name: Pacific Gas and Electric Company  
Address: 77 Beale Street, Mail Code B13U  
City: San Francisco, CA 94177  
State: California Zip: 94177  
Telephone (xxx) xxx-xxxx: (415)973-2093  
Facsimile (xxx) xxx-xxxx: (415)973-3582  
Email: [PGETariffs@pge.com](mailto:PGETariffs@pge.com)

Name:  
Title:  
Utility Name:  
Address:  
City:  
State: District of Columbia Zip:  
Telephone (xxx) xxx-xxxx:  
Facsimile (xxx) xxx-xxxx:  
Email:

Cal P.U.C. Sheet No.	Title of Sheet	Cancelling Cal P.U.C. Sheet No.
49623-E	ELECTRIC SCHEDULE E-CBP CAPACITY BIDDING PROGRAM Sheet 1	42658-E
49624-E*	ELECTRIC SCHEDULE E-CBP CAPACITY BIDDING PROGRAM Sheet 2	46308-E
49625-E*	ELECTRIC SCHEDULE E-CBP CAPACITY BIDDING PROGRAM Sheet 3	48377-E
49626-E*	ELECTRIC SCHEDULE E-CBP CAPACITY BIDDING PROGRAM Sheet 5	48379-E
49627-E**	ELECTRIC SCHEDULE E-CBP CAPACITY BIDDING PROGRAM Sheet 6	48380-E
49628-E*	ELECTRIC SCHEDULE E-CBP CAPACITY BIDDING PROGRAM Sheet 8	48381-E
49629-E*	ELECTRIC SCHEDULE E-CBP CAPACITY BIDDING PROGRAM Sheet 10	46311-E
49630-E**	ELECTRIC TABLE OF CONTENTS Sheet 1	49326-E
49631-E**	ELECTRIC TABLE OF CONTENTS Sheet 9	48384-E



**ELECTRIC SCHEDULE E-CBP  
CAPACITY BIDDING PROGRAM**

Sheet 1

**APPLICABILITY:** The Capacity Bidding Program (CBP) is a voluntary demand response program that offers third party Aggregators and non-residential self-aggregators incentives for standing by to reduce energy consumption when requested by PG&E, and for actual energy reductions delivered when called upon. CBP is integrated into the California Independent System Operators (CAISO) as a Proxy Demand Resource (PDR). The PDR models the physical characteristics of a resource supplied to the CAISO and is the basis for bidding, awards, dispatch, outages, and settlements. CBP PDRs must comply with the current CAISO Tariff requirements on market participation.

Schedule E CBP is available to PG&E customers receiving bundled service, Community Choice Aggregation (CCA) service, or Direct Access (DA) service and being billed on a PG&E residential, commercial, industrial, or agricultural electric rate schedule. An eligible customer must continue to take service under the provisions of its otherwise applicable schedule (OAS).

Aggregators participating in Schedule E-CBP must comply with the terms of this schedule and associated agreements.

**TERRITORY:** This schedule is available throughout PG&E's electric service area.

**SUBSCRIPTION LIMIT:** PG&E reserves the right to limit the subscription amount available to participate in Schedule E-CBP, consistent with Commission guidelines.

**ELIGIBILITY:** Schedule E-CBP is a Day-Ahead program. An Aggregator with multiple Service Agreements (SAs) may nominate demand reductions for all or a subset of those (SAs) during a single program month. PG&E Customer SA identification is different from the PG&E account number. The SA documents the billing arrangement that includes the rate schedule, billing days, metering information and factors to calculate the energy charges.

Customers that receive electric power from third parties (other than through DA and CCA) and customers billed for full standby service are not eligible for Schedule E-CBP. Eligible customers include those receiving partial standby service or services pursuant to one or more of the Net Energy Metering Service schedules except NEMCCSF.

A non-residential customer may enroll under this Schedule through an Aggregator or may qualify to self-aggregate. A residential customer may only enroll under this Schedule through an Aggregator. An Aggregator is an entity, appointed by a customer, to act on behalf of said customer with respect to all aspects of this Schedule, including but not limited to: (1) the receipt of notices from PG&E under this schedule; (2) the receipt of incentive payments from PG&E; (3) the payment of penalties to PG&E. An Aggregator determines which SAs within their portfolio will be nominated for dispatch.

Residential and non-residential customers that are enrolled in a Third Party Demand Response Provider (DRP) program are not eligible to participate in E-CBP. A non-residential customer on this Schedule may participate in PG&E's E-OBMC program. A residential customer may not participate in any other demand response program. PG&E, acting as a DRP, must be able to register customers' SA who are participating under this Schedule into the CAISO Demand Response Registration System (DRRS), which requires Load Serving Entity (LSE) approval. If PG&E is unable to register the customer's SA and/or the customer's LSE does not allow the customer's SA to be registered, then the customer will be ineligible to participate under this Schedule. Customers in E-CBP may participate in the Emergency Load Reduction Program (ELRP) through their Aggregator as of May 2021 until the pilot ends.

(N)  
(N)

Effective January 1, 2019, Schedule E-CBP customers will not be eligible to receive demand response incentives for using a prohibited resource to reduce load during a demand response event, as provided in the Section on the Use of Prohibited Resources within this tariff.

(Continued)

<i>Advice</i>	6160-E	<i>Issued by</i>	<i>Submitted</i>	April 14, 2021
<i>Decision</i>	D. 21-03-056	<b>Robert S. Kenney</b>	<i>Effective</i>	April 14, 2021
		<i>Vice President, Regulatory Affairs</i>	<i>Resolution</i>	



**ELECTRIC SCHEDULE E-CBP  
CAPACITY BIDDING PROGRAM**

Sheet 2

**OPTIONS  
PRODUCTS  
AND BIDDING:**

The program season is May 1 through October 31.

The program days are Monday through Friday during the program season, with weekend participation optional, and excluding North American Electric Reliability Corporation (NERC) holidays. NERC holidays during the program season are the dates on which the following holidays are legally observed: Memorial Day, Independence Day, and Labor Day.

(C)  
(C)

If Independence Day falls on a Sunday, then it is recognized the Monday immediately following that Sunday. If Independence Day falls on a Saturday, it remains on that Saturday.

The program hours are 1 p.m. to 9 p.m. on program days for the Prescribed, Elect and Elect +, Options. For the Elect + Option, Aggregators will have the option to bid up to 24 hours.

Economic events are capped at six (6) per month or thirty (30) hours per month for the Prescribed Option and as chosen by the Aggregators for the Elect and Elect + Options, provided that the sixth event, if called, may extend beyond the 30 hours per month cap. Once maximum events per month have been reached, there is no obligation to continue participation to the maximum hours per month; however, additional events may be called for reliability purposes up to the Maximum Event Hours Per Operating Month for all products.

(C)  
|  
|  
|  
(C)

Weekend events will count toward Maximum Number of Consecutive Event Days, Maximum Number of Events per Month, and Maximum Event Hours per Operating Month for resources nominated for weekend participation.

(N)  
|  
(N)

All operating months begin and end at the beginning and ending of its corresponding calendar month.

Aggregators are required at time of nomination to select a program option for each SA. Aggregators will have the option to change program options monthly at time of nomination for each SA.

The following program and products are available:

Prescribed Option: Open to both residential and non-residential participants. Aggregator nominates a monthly capacity amount, and PG&E sets CAISO market bid price and dispatch strategy within specified operating hours.

Elect Option: Open to both residential and non-residential participants. Aggregator nominates monthly capacity amount and selects its own CAISO market bid price within specified operating hours.

(T)

Elect + Option: Open to both residential and non-residential participants. Aggregator must participate in Elect + Option and can also participate in the CAISO market for additional hours outside of the minimum specified operating hours.

(T)

The product requirements and selections shown in the tables below are applied at the time of Capacity Nomination.

Prescribed Option	Minimum Duration per Event	Maximum Duration per Event	Maximum Event Hours Per Operating Month	Maximum Events Per Day	Maximum Number of Consecutive Event Days	Maximum Number of Events per Month
1-4 Hour	1 hour	4 hours	30	1	3	6
2-6 Hour	2 hours	6 hours	30	1	3	6

(C)

(C)

(Continued)

Advice 6160-E  
Decision D. 21-03-056

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**Robert S. Kenney**  
Vice President, Regulatory Affairs

Submitted April 14, 2021  
Effective April 14, 2021  
Resolution



**ELECTRIC SCHEDULE E-CBP  
CAPACITY BIDDING PROGRAM**

Sheet 3

OPTIONS PRODUCTS  
AND BIDDING: (Cont'd.)

Elect Option	Minimum Duration per Event	Maximum Duration per Event	Maximum Event Hours Per Operating Month	Maximum Events Per Day	Maximum Number of Consecutive Event Days	Maximum Number of Events per Month
1-4 Hour	1 hour	4 hours	30+ (Participant can choose more hours during the Operating Hours)	1	3+ (Participant may choose more)	6+ (Participant may choose more)
2-6 Hour	2 hours	6 hours	30+ (Participant can choose more hours during the Operating Hours)	1	3+ (Participant may choose more)	6+ (Participant may choose more)
1-8 Hour	1 hour	8 hours	40+ (Participant can choose more hours during the Operating Hours)	1	3+ (Participant may choose more)	6+ (Participant may choose more)

(C)

(C)

(C)

Elect + Option	Minimum Duration per Event	Maximum Duration per Event	Maximum Event Hours Per Operating Month	Maximum Events Per Day	Maximum Number of Consecutive Event Days	Maximum Number of Events per Month
1-4 Hour	1 hour	4 hours	20+ (Participant can choose more hours during the Operating Hours)	1	3+ (Participant may choose more)	6+ (Participant may choose more)
2-6 Hour	2 hours	6 hours	30+ (Participant can choose more hours during the Operating Hours)	1	3+ (Participant may choose more)	6+ (Participant may choose more)
1-24 Hour	1 hour	24 hours	120+ (Participant can choose more hours during the Operating Hours)	1	3+ (Participant may choose more)	6+ (Participant may choose more)

(C)

(C)

(C)

Bidding Options:

Elect:

- Aggregators must bid every hour during the program Operating Hours
- Aggregators must submit their bids 3 days before trade day
- Bids must meet the Net Benefit Test (NBT)  $\leq$  Bid Price  $\leq$  Market Cap Price
- CAISO is required to implement a NBT that establishes a price threshold above which DR resource bids are deemed cost effective.

Elect +

- Aggregators must bid every hour during the program Operating Hours
- Aggregators can bid more hours outside the program Operating Hours, but must keep the same nominated price and MW value that was nominated during the program Operating Hours
- Hours outside of the program Operating Hours must be contiguous
- Aggregators can choose an event duration up to 24 hours

(Continued)

Advice 6160-E  
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**Robert S. Kenney**  
Vice President, Regulatory Affairs

Submitted  
Effective  
Resolution

April 14, 2021  
April 14, 2021



**ELECTRIC SCHEDULE E-CBP  
CAPACITY BIDDING PROGRAM**

Sheet 5

CUSTOMER  
SPECIFIC  
ENERGY  
BASELINE:  
(Cont'd.)

The day-of adjustment is the ratio of a) the average load of the first three of the four hours prior to the event to b) the average load of the corresponding hours from the past 10 similar weekdays, as discussed above. The day-of adjustment will be limited to +/- 40% of each individual SA baseline in the group, and will be based on the first three of the four hours prior to the start of the event. The day-of adjustment is applied by multiplying it by each hourly baseline value. The Aggregator must elect or opt-in to receive this adjustment on behalf of the customer. The Aggregator is responsible for determining the applicable baseline day-of adjustment amount at the time of a nomination. PG&E will only be responsible for determining the applicable baseline day-of adjustment following each event for the purpose of evaluating customer compliance. If more than one event (either within the same or across multiple programs) occurs on the same day, the day-of adjustment from the event with the earliest start time will be used for the individual SA's events that day requiring a day-of adjustment.

The hourly load profile on any given day during the program is determined by summing the hour by hour interval data for each of the SAs in the aggregated group.

CAPACITY  
NOMINATIONS:

Capacity Nominations must be submitted by the 15<sup>th</sup> of the month prior to the operating month. Aggregators can include only those SAs that are enrolled in their portfolio. Aggregators are required to specify which of its SAs will participate in which of the program options (i.e. Prescribed, Elect, or Elect +), and event duration products (e.g. 1-4 hour or 2-6 hour and for Elect + 24 hour option), and must provide their Capacity Nomination amount at the Sub-LAP level. These Sub-LAP-level nominations will be used to determine the CSEB and performance during the operating month. The Capacity Nomination cannot be greater than the sum of max demand of the nominated SAs. All Capacity Nominations are fixed for their associated operating months, but capacity nominated may differ between weekdays and weekends.

(C)  
(C)

Resource aggregations of 10 MW and above require telemetry. Aggregators with resource aggregations over 10 MW and above are responsible for coordinating with the CAISO and pay any applicable cost and fees to meet the telemetry requirements.

Alternatively, a larger than 10 MW resource aggregation may be nominated as several sub-10 MW resources to avoid telemetry requirements but still retain performance as one resource.

An Aggregator must submit aggregations of customers that include 25 kW or more of load curtailment for each unique combination of:

- Product
- Sub-LAP

Due to the CAISO requirement that a PDR resource consist of 100 kW or greater, if a nomination is greater than 25 kW but less than 100 kW, it will be combined with nominations from other Aggregators within the same Sub-LAP to meet this requirement. Multiple nominations of less than 100kW within the same Sub-LAP from the same Aggregator is not permitted. Additionally, in order to submit a nomination that is between 25 kW and 100 kW, Aggregators must select the **1-4 Hour Prescribed option**, and will receive energy incentives as described in the 'ENERGY PAYMENT' section. If nominations within the Sub-LAP cannot be combined to create a resource that is 100 kW or greater, the nomination(s) will not be eligible for bidding, and PG&E will notify all impacted Aggregators no later than the 20<sup>th</sup> of the month prior to the operating month.

Aggregators can combine non-residential and residential customers' SAs in their Capacity Nominations.

(Continued)

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**ELECTRIC SCHEDULE E-CBP  
CAPACITY BIDDING PROGRAM**

Sheet 6

RATES: The payments under this rate schedule will be determined from the following components.

1. Capacity Price
2. Capacity Payment and Capacity Penalty
3. Energy Payment

CAPACITY PRICE: Capacity Price by Month

Product	May	June	July	August	September	October	
Prescribed	\$3.18/kW	\$3.88/kW	\$16.30/kW	\$22.54/kW	\$13.90/kW	\$6.80/kW	(I)
Elect	\$3.18/kW	\$3.88/kW	\$16.30/kW	\$22.54/kW	\$13.90/kW	\$6.80/kW	(I)
Elect +	\$3.18/kW	\$3.88/kW	\$16.30/kW	\$22.54/kW	\$13.90/kW	\$6.80/kW	(I)

CAPACITY PAYMENT AND CAPACITY PENALTY: All Capacity Payments will be determined for each Capacity Nomination as specified below. The Aggregator will receive Capacity Payments and Capacity Penalties for Bundled, DA, CCA service customers.

Capacity payments for weekend nominations are determined separate from weekdays, and will be based on 25% of the capacity incentive (rate) for the applicable month and capacity nomination on weekends, regardless of number of events or event-performance. (N) | (N)

If a CBP Event was not called for a Capacity Nomination during the operating month, then the Capacity Payment for the operating month is equal to the product of Nominated Capacity (adjusted for the sum of the Prohibited Resource Default Adjustment Values) and Capacity Price for the applicable operating month, option, and product.

If one or more CBP Events were called for a Capacity Nomination during the operating month, then the Capacity Payment for the weekdays in the operating month will be determined for each called Capacity Nomination as follows: (C)

- 1) The Hourly Delivered Capacity for the event hour is equal to the sum of the baselines for each individual SA in the Capacity Nominations called for the event hour minus the sum of the event demands for each individual SA in the Capacity Nominations called for the event hour. The event demand is defined as the energy consumed during the event plus the Prohibited Resource Default Adjustment Value.
- 2) The Hourly Delivered Capacity Ratio for the event hour is the sum of Hourly Delivered Capacity for all Capacity Nominations called for that hour divided by the sum of the Nominated Capacity for all Capacity Nominations called for that hour. When a CBP event is called for one or more Sub-LAPs, the Hourly Delivered Capacity Ratio for the event hour will be calculated on a cumulative basis for Aggregator's performance in all Sub-LAPs that received a Notice of the CBP event for the hour.
- 3) The Unadjusted Hourly Capacity Payment for a Capacity Nomination equals the product of the Nominated Capacity for the operating month, minus the sum of the Prohibited Resource Default Adjustment Values and the Capacity Price for the operating month divided by the number of event hours in the operating month for the Capacity Nomination.

(Continued)

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**ELECTRIC SCHEDULE E-CBP  
CAPACITY BIDDING PROGRAM**

Sheet 8

**ENERGY  
PAYMENT:**

All Energy Payments will be determined separately for each Capacity Nomination. Energy payments are applicable to both weekday and weekend participation.

(C)

If no CBP Events were called during the operating month, then the monthly Energy Payment is zero (0).

Monthly Energy Payments will be invoiced separately from the Capacity Payments.

Nominations between 25kW and 100kW

Energy payments will equal the day-ahead award price received for the MW/h delivered during each hour of an event, as calculated by PG&E.

Nominations greater than 100kW

The energy payment that each Aggregator's customer SA may receive based on performance for events will equal the underlying CAISO wholesale market Proxy Demand Resource (PDR) award.

The total energy payment is calculated by netting the day-ahead wholesale energy payment with the real-time wholesale energy settlement, as calculated below:

$$(\text{Price}_{\text{DA}} \times \text{Energy}_{\text{DA}}) - [\text{Price}_{\text{UIE}} \times (\text{Energy}_{\text{DA}} - \text{Energy}_{\text{Delivered}})]$$

Price<sub>DA</sub> = day-ahead aggregated PNode locational marginal price (LMP) associated with the PDR

Energy<sub>DA</sub> = day-ahead energy award

Price<sub>UIE</sub> = real-time Uninstructed Imbalance Energy (UIE) price

Energy<sub>Delivered</sub> = metered performance

(Continued)

Advice 6160-E  
Decision D. 21-03-056

Issued by  
**Robert S. Kenney**  
Vice President, Regulatory Affairs

Submitted April 14, 2021  
Effective April 14, 2021  
Resolution



**ELECTRIC SCHEDULE E-CBP  
CAPACITY BIDDING PROGRAM**

Sheet 10

**NOTIFICATION EQUIPMENT:** Aggregators, at their expense, must have: (1) access to the Internet and an e-mail address to receive notification of a CBP Event; and (2) or cellular telephone that is capable of receiving a text message sent via the Internet. An Aggregator cannot participate in the CBP until all of these requirements have been satisfied.

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(Continued)



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(Continued)

<i>Advice</i>	6160-E	<i>Issued by</i>	<i>Submitted</i>	April 14, 2021
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		<i>Vice President, Regulatory Affairs</i>	<i>Resolution</i>	



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		(T)
		(T)

(Continued)

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Advice 6160-E  
April 14, 2021

**Attachment 2**  
**Redline Tariff Revisions**



**ELECTRIC SCHEDULE E-CBP  
CAPACITY BIDDING PROGRAM**

Sheet 1

**APPLICABILITY:** The Capacity Bidding Program (CBP) is a voluntary demand response program that offers third party Aggregators and non-residential self-aggregators incentives for standing by to reduce energy consumption when requested by PG&E, and for actual energy reductions delivered when called upon. CBP is integrated into the California Independent System Operators (CAISO) as a Proxy Demand Resource (PDR). The PDR models the physical characteristics of a resource supplied to the CAISO and is the basis for bidding, awards, dispatch, outages, and settlements. CBP PDRs must comply with the current CAISO Tariff requirements on market participation.

Schedule E CBP is available to PG&E customers receiving bundled service, Community Choice Aggregation (CCA) service, or Direct Access (DA) service and being billed on a PG&E residential, commercial, industrial, or agricultural electric rate schedule. An eligible customer must continue to take service under the provisions of its otherwise applicable schedule (OAS).

Aggregators participating in Schedule E-CBP must comply with the terms of this schedule and associated agreements.

**TERRITORY:** This schedule is available throughout PG&E's electric service area.

**SUBSCRIPTION LIMIT:** PG&E reserves the right to limit the subscription amount available to participate in Schedule E-CBP, consistent with Commission guidelines.

**ELIGIBILITY:** Schedule E-CBP is a Day-Ahead program. An Aggregator with multiple Service Agreements (SAs) may nominate demand reductions for all or a subset of those (SAs) during a single program month. PG&E Customer SA identification is different from the PG&E account number. The SA documents the billing arrangement that includes the rate schedule, billing days, metering information and factors to calculate the energy charges.

Customers that receive electric power from third parties (other than through DA and CCA) and customers billed for full standby service are not eligible for Schedule E-CBP. Eligible customers include those receiving partial standby service or services pursuant to one or more of the Net Energy Metering Service schedules except NEMCCSF.

A non-residential customer may enroll under this Schedule through an Aggregator or may qualify to self-aggregate. A residential customer may only enroll under this Schedule through an Aggregator. An Aggregator is an entity, appointed by a customer, to act on behalf of said customer with respect to all aspects of this Schedule, including but not limited to: (1) the receipt of notices from PG&E under this schedule; (2) the receipt of incentive payments from PG&E; (3) the payment of penalties to PG&E. An Aggregator determines which SAs within their portfolio will be nominated for dispatch.

Residential and non-residential customers that are enrolled in a Third Party Demand Response Provider (DRP) program are not eligible to participate in E-CBP. A non-residential customer on this Schedule may participate in PG&E's E-OBMC program. A residential customer may not participate in any other demand response program. PG&E, acting as a DRP, must be able to register customers' SA who are participating under this Schedule into the CAISO Demand Response Registration System (DRRS), which requires Load Serving Entity (LSE) approval. If PG&E is unable to register the customer's SA and/or the customer's LSE does not allow the customer's SA to be registered, then the customer will be ineligible to participate under this Schedule. Customers in E-CBP may participate in the Emergency Load Reduction Program (ELRP) through their Aggregator as of May 2021 until the pilot ends.

(N)  
(N)

Effective January 1, 2019, Schedule E-CBP customers will not be eligible to receive demand response incentives for using a prohibited resource to reduce load during a demand response event, as provided in the Section on the Use of Prohibited Resources within this tariff.

(Continued)

<i>Advice</i>	4991-E-C	<i>Issued by</i>	<i>Date Filed</i>	July 23, 2018
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		<i>Vice President, Regulatory Affairs</i>	<i>Resolution</i>	



**ELECTRIC SCHEDULE E-CBP  
CAPACITY BIDDING PROGRAM**

Sheet 2

OPTIONS  
PRODUCTS  
AND BIDDING:

The program season is May 1 through October 31.

The program days are Monday through Friday during the program season, with weekend participation optional, and excluding North American Electric Reliability Corporation (NERC) holidays. NERC holidays during the program season are the dates on which the following holidays are legally observed: Memorial Day, Independence Day, and Labor Day.

(C)  
(C)

If Independence Day falls on a Sunday, then it is recognized the Monday immediately following that Sunday. If Independence Day falls on a Saturday, it remains on that Saturday.

The program hours are 1 p.m. to 9 p.m. on program days for the Prescribed, Elect and Elect +, Options. For the Elect + Option, Aggregators will have the option to bid up to 24 hours.

Economic events are capped at six (6) per month or thirty (30) hours per month for the Prescribed Option and as chosen by the Aggregators for the Elect and Elect + Options, provided that the sixth event, if called, may extend beyond the 30 hours per month cap; Once maximum events per month have been reached, there is no obligation to continue participation to the maximum hours per month; however, additional events may be called for reliability purposes up to the Maximum Event Hours Per Operating Month for all products.

(C)  
|  
|  
|  
(C)

Weekend events will count toward Maximum Number of Consecutive Event Days, Maximum Number of Events per Month, and Maximum Event Hours per Operating Month for resources nominated for weekend participation.

(N)  
|  
(N)

All operating months begin and end at the beginning and ending of its corresponding calendar month.

Aggregators are required at time of nomination to select a program option for each SA. Aggregators will have the option to change program options monthly at time of nomination for each SA.

The following program and products are available:

Prescribed Option: Open to both residential and non-residential participants. Aggregator nominates a monthly capacity amount, and PG&E sets CAISO market bid price and dispatch strategy within specified operating hours.

Elect Option:— Open to both residential and non-residential participants. Aggregator nominates monthly capacity amount and selects its own CAISO market bid price within specified operating hours.

(T)

Elect + Option:— Open to both residential and non-residential participants. Aggregator must participate in Elect + Option and can also participate in the CAISO market for additional hours outside of the minimum specified operating hours.

(T)

The product requirements and selections shown in the tables below are applied at the time of Capacity Nomination.

Prescribed Option	Minimum Duration per Event	Maximum Duration per Event	Maximum Event Hours Per Operating Month	Maximum Events Per Day	Maximum Number of Consecutive Event Days	Maximum Number of Events per Month
1-4 Hour	1 hour	4 hours	30	1	3	<del>65</del>
2-6 Hour	2 hours	6 hours	30	1	3	<del>65</del>

(C)  
(C)

(Continued)



**ELECTRIC SCHEDULE E-CBP  
CAPACITY BIDDING PROGRAM**

Sheet 3

OPTIONS PRODUCTS  
AND BIDDING: (Cont'd.)

Elect Option	Minimum Duration per Event	Maximum Duration per Event	Maximum Event Hours Per Operating Month	Maximum Events Per Day	Maximum Number of Consecutive Event Days	Maximum Number of Events per Month
1-4 Hour	1 hour	4 hours	30+ (Participant can choose more hours during the Operating Hours)	1	3+ (Participant may choose more)	65+ (Participant may choose more) (C)
2-6 Hour	2 hours	6 hours	30+ (Participant can choose more hours during the Operating Hours)	1	3+ (Participant may choose more)	65+ (Participant may choose more) (C)
1-8 Hour	1 hour	8 hours	40+ (Participant can choose more hours during the Operating Hours)	1	3+ (Participant may choose more)	65+ (Participant may choose more) (C)

Elect + Option	Minimum Duration per Event	Maximum Duration per Event	Maximum Event Hours Per Operating Month	Maximum Events Per Day	Maximum Number of Consecutive Event Days	Maximum Number of Events per Month
1-4 Hour	1 hour	4 hours	20+ (Participant can choose more hours during the Operating Hours)	1	3+ (Participant may choose more)	65+ (Participant may choose more) (C)
2-6 Hour	2 hours	6 hours	30+ (Participant can choose more hours during the Operating Hours)	1	3+ (Participant may choose more)	65+ (Participant may choose more) (C)
1-24 Hour	1 hour	24 hours	120+ (Participant can choose more hours during the Operating Hours)	1	3+ (Participant may choose more)	65+ (Participant may choose more) (C)

Bidding Options:

Elect:

- Aggregators must bid every hour during the program Operating Hours
- Aggregators must submit their bids 3 days before trade day
- Bids must meet the Net Benefit Test (NBT) <= Bid Price <= Market Cap Price
- CAISO is required to implement a NBT that establishes a price threshold above which DR resource bids are deemed cost effective.

Elect +

- Aggregators must bid every hour during the program Operating Hours
- Aggregators can bid more hours outside the program Operating Hours, but must keep the same nominated price and MW value that was nominated during the program Operating Hours
- Hours outside of the program Operating Hours must be contiguous
- Aggregators can choose an event duration up to 24 hours

(Continued)



**ELECTRIC SCHEDULE E-CBP  
CAPACITY BIDDING PROGRAM**

Sheet 5

CUSTOMER  
SPECIFIC  
ENERGY  
BASELINE:  
(Cont'd.)

The day-of adjustment is the ratio of a) the average load of the first three of the four hours prior to the event to b) the average load of the corresponding hours from the past 10 similar weekdays, as discussed above. The day-of adjustment will be limited to +/- 40% of each individual SA baseline in the group, and will be based on the first three of the four hours prior to the start of the event. The day-of adjustment is applied by multiplying it by each hourly baseline value. The Aggregator must elect or opt-in to receive this adjustment on behalf of the customer. The Aggregator is responsible for determining the applicable baseline day-of adjustment amount at the time of a nomination. PG&E will only be responsible for determining the applicable baseline day-of adjustment following each event for the purpose of evaluating customer compliance. If more than one event (either within the same or across multiple programs) occurs on the same day, the day-of adjustment from the event with the earliest start time will be used for the individual SA's events that day requiring a day-of adjustment.

The hourly load profile on any given day during the program is determined by summing the hour by hour interval data for each of the SAs in the aggregated group.

CAPACITY  
NOMINATIONS:

Capacity Nominations must be submitted by the 15<sup>th</sup> of the month prior to the operating month. Aggregators can include only those SAs that are enrolled in their portfolio. Aggregators are required to specify which of its SAs will participate in which of the program options (i.e. Prescribed, Elect, or Elect +), and event duration products (e.g. 1-4 hour or 2-6 hour and for Elect + 24 hour option), and must provide their Capacity Nomination amount at the Sub-LAP level. These Sub-LAP-level nominations will be used to determine the CSEB and performance during the operating month. The Capacity Nomination cannot be greater than the sum of max demand of the nominated SAs. All Capacity Nominations are fixed for their associated operating months. but capacity nominated may differ between weekdays and weekends.

(C)  
(C)

Resource aggregations of 10 MW and above require telemetry. Aggregators with resource aggregations over 10 MW and above are responsible for coordinating with the CAISO and pay any applicable cost and fees to meet the telemetry requirements.

Alternatively, a larger than 10 MW resource aggregation may be nominated as several sub-10 MW resources to avoid telemetry requirements but still retain performance as one resource.

An Aggregator must submit aggregations of customers that include 25 kW or more of load curtailment for each unique combination of:

- Product
- Sub-LAP

Due to the CAISO requirement that a PDR resource consist of 100 kW or greater, if a nomination is greater than 25 kW but less than 100 kW, it will be combined with nominations from other Aggregators within the same Sub-LAP to meet this requirement. Multiple nominations of less than 100kW within the same Sub-LAP from the same Aggregator is not permitted. Additionally, in order to submit a nomination that is between 25 kW and 100 kW, Aggregators must select the **1-4 Hour Prescribed option**, and will receive energy incentives as described in the 'ENERGY PAYMENT' section. If nominations within the Sub-LAP cannot be combined to create a resource that is 100 kW or greater, the nomination(s) will not be eligible for bidding, and PG&E will notify all impacted Aggregators no later than the 20<sup>th</sup> of the month prior to the operating month.

Aggregators can combine non-residential and residential customers' SAs in their Capacity Nominations.

(Continued)

Advice	6072-E	Issued by	Submitted	January 28, 2021
Decision	D.17-12-003	<b>Robert S. Kenney</b>	Effective	February 27, 2021
		Vice President, Regulatory Affairs	Resolution	



**ELECTRIC SCHEDULE E-CBP  
CAPACITY BIDDING PROGRAM**

Sheet 6

RATES: The payments under this rate schedule will be determined from the following components.

1. Capacity Price
2. Capacity Payment and Capacity Penalty
3. Energy Payment

CAPACITY PRICE: Capacity Price by Month

Product	May	June	July	August	September	October	
Prescribed	\$3.18/kW	\$3.88/kW	\$16.30/kW	\$22.54/kW	\$13.90/kW	\$ <del>6.802-27</del> /kW	(I)
Elect	\$3.18/kW	\$3.88/kW	\$16.30/kW	\$22.54/kW	\$13.90/kW	\$ <del>6.802-27</del> /kW	(I)
Elect +	\$3.18/kW	\$3.88/kW	\$16.30/kW	\$22.54/kW	\$13.90/kW	\$ <del>6.802-27</del> /kW	(I)

CAPACITY PAYMENT AND CAPACITY PENALTY: All Capacity Payments will be determined for each Capacity Nomination as specified below. The Aggregator will receive Capacity Payments and Capacity Penalties for Bundled, DA, CCA service customers.

Capacity payments for weekend nominations are determined separate from weekdays, and will be based on 25% of the capacity incentive (rate) for the applicable month and capacity nomination on weekends, regardless of number of events or event-performance. (N)  
(N)

If a CBP Event was not called for a Capacity Nomination during the operating month, then the Capacity Payment for the operating month is equal to the product of Nominated Capacity (adjusted for the sum of the Prohibited Resource Default Adjustment Values) and Capacity Price for the applicable operating month, option, and product.

If one or more CBP Events were called for a Capacity Nomination during the operating month, then the Capacity Payment for the weekdays in the operating month will be determined for each called Capacity Nomination as follows: (C)

- 1) The Hourly Delivered Capacity for the event hour is equal to the sum of the baselines for each individual SA in the Capacity Nominations called for the event hour minus the sum of the event demands for each individual SA in the Capacity Nominations called for the event hour. The event demand is defined as the energy consumed during the event plus the Prohibited Resource Default Adjustment Value.
- 2) The Hourly Delivered Capacity Ratio for the event hour is the sum of Hourly Delivered Capacity for all Capacity Nominations called for that hour divided by the sum of the Nominated Capacity for all Capacity Nominations called for that hour. When a CBP event is called for one or more Sub-LAPs, the Hourly Delivered Capacity Ratio for the event hour will be calculated on a cumulative basis for Aggregator's performance in all Sub-LAPs that received a Notice of the CBP event for the hour.
- 3) The Unadjusted Hourly Capacity Payment for a Capacity Nomination equals the product of the Nominated Capacity for the operating month, minus the sum of the Prohibited Resource Default Adjustment Values and the Capacity Price for the operating month divided by the number of event hours in the operating month for the Capacity Nomination.

(Continued)



**ELECTRIC SCHEDULE E-CBP  
CAPACITY BIDDING PROGRAM**

Sheet 8

**ENERGY  
PAYMENT:**

All Energy Payments will be determined separately for each Capacity Nomination.

Energy payments are applicable to both weekday and weekend participation.

(C)

If no CBP Events were called during the operating month, then the monthly Energy Payment is zero (0).

Monthly Energy Payments will be invoiced separately from the Capacity Payments.

Nominations between 25kW and 100kW

Energy payments will equal the day-ahead award price received for the MW/h delivered during each hour of an event, as calculated by PG&E.

Nominations greater than 100kW

The energy payment that each Aggregator's customer SA may receive based on performance for events will equal the underlying CAISO wholesale market Proxy Demand Resource (PDR) award.

The total energy payment is calculated by netting the day-ahead wholesale energy payment with the real-time wholesale energy settlement, as calculated below:

$$(\text{Price}_{\text{DA}} \times \text{Energy}_{\text{DA}}) - [\text{Price}_{\text{UIE}} \times (\text{Energy}_{\text{DA}} - \text{Energy}_{\text{Delivered}})]$$

Price<sub>DA</sub> = day-ahead aggregated PNode locational marginal price (LMP) associated with the PDR

Energy<sub>DA</sub> = day-ahead energy award

Price<sub>UIE</sub> = real-time Uninstructed Imbalance Energy (UIE) price

Energy<sub>Delivered</sub> = metered performance

(Continued)

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Decision D.17-12-003

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(C)  
(C)  
(C)

(Continued)

**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.  
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  
Cenergy Power  
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 Energy  
Management Service  
Engineers and Scientists of California

GenOn Energy, Inc.  
Goodin, MacBride, Squeri, Schlotz &  
Ritchie

Green Power Institute  
Hanna & Morton  
ICF

IGS Energy  
International Power Technology  
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  
McKenzie & Associates

Modesto Irrigation District  
NLine Energy, Inc.  
NRG Solar

Office of Ratepayer Advocates  
OnGrid Solar  
Pacific Gas and Electric Company  
Peninsula Clean Energy

Pioneer Community Energy

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