



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

Sheet 1

APPLICABILITY: The Capacity Bidding Program (CBP) is a voluntary demand response program that offers customers incentives for reducing energy consumption when requested by PG&E. 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 commercial, industrial, or agricultural electric rate schedule. An eligible customer must continue to take service under the provisions of its otherwise applicable schedule (OAS).

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

ELIGIBILITY: A customer may participate in either the Day-Ahead or Day-Of option. A customer with multiple service agreements (SA) may nominate demand reductions from a single SA to either the Day-of option or Day-ahead option. A SA may not be nominated to both the Day-of and Day-ahead option during a single program month.

Customers that receive electric power from third parties (other than through direct access), customers billed via net-metering (NEM, NEMFC, NEMBIO, etc.), and customers billed for standby service are not eligible for the CBP. Partial standby customers are eligible for CBP. (T)

A customer may only enroll in Schedule E-CBP 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 the CBP, including but not limited to: (1) the receipt of notices from PG&E under this program; (2) the receipt of incentive payments from PG&E; and (3) the payment of penalties to PG&E.

Customers on Schedule E-CBP are limited to the following participation options in other demand response programs and rate offerings. Schedule E-CBP customers using the "Day-Ahead" option may also participate in PG&E's E-OBMC program. Schedule E-CBP customers using the "Day-Of" program option can also participate in PG&E's E-DBP or E-SLRP programs. E-CBP customers using the Day-Of program option may also participate in a PG&E peak day pricing (PDP) offering, where those utilizing the "Day-Ahead" trigger may not. (N)
 |
 |
 |
 |
 (N)

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

SUBSCRIPTION LIMIT: PG&E reserves the right to limit the subscription amount available to participate in the CBP, consistent with Commission guidelines. (L)

(Continued)



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Sheet 2

OPTIONS AND PRODUCTS:

The program season is May 1 through October 31.

The program days are Monday through Friday during the program season, excluding PG&E holidays. PG&E holidays during the program season are the dates on which the following holidays are legally observed: Memorial Day, Independence Day, and Labor Day.

The program hours are 11 a.m. to 7 p.m. on program days.

The following options and products are available:

Day-Ahead Options

Product	Minimum Duration per Event	Maximum Duration per Event	Maximum Event Hours Per Operating Month	Maximum Events Per Day
1-4 Hour	1 hour	4 hours	24	1
2-6 Hour	2 hours	6 hours	24	1
4-8 Hour	4 hours	8 hours	24	1

Day-Of Options

Product	Minimum Duration per Event	Maximum Duration per Event	Maximum Event Hours Per Operating Month	Maximum Events Per Day
1-4 Hour	1 hour	4 hours	24	1
2-6 Hour	2 hours	6 hours	24	1
4-8 Hour	4 hours	8 hours	24	1

(T)

(Continued)



**ELECTRIC SCHEDULE E-CBP
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Sheet 3

AGGREGATOR'S PORTFOLIO: An Aggregator must submit a Notice to Add or Delete Customers Participating in the Capacity Bidding Program (Form 79-1075) to add a customer's Service Agreements (SAs) to add or delete a customer's SAs from its portfolio. PG&E will review and approve each SA before the SA can be included in an Aggregator's portfolio. Additions to the portfolio will be effective upon PG&E's approval date. Deletions from the portfolio will be effective at the end of the current calendar month in which this notice is received provided PG&E receives this notice at least 15 calendar days prior to the end of the current month. A SA can be included in only one portfolio at a time. (L)

CUSTOMER SPECIFIC ENERGY BASELINE: To participate in this program, a customer must have a valid customer specific energy baseline (CSEB) at least 5 calendar days prior to the first day of the operating month. A CSEB will be valid for purposes of participation if there are at least ten (10) similar days of interval data available in PG&E's CBP Website. Each Capacity Nomination will have its own CSEB based its associated aggregated group. The CSEB on any given day during the program is the sum total of each individual SA's baseline in the group. Each individual SA baseline is the average for each hour based on the immediate past ten (10) similar weekdays prior to an event with the option of a day-of adjustment. The load during each hour of the ten days will be averaged to calculate an hourly baseline for each hour. The past ten (10) similar days will include Monday through Friday, excluding PG&E holidays and event days prior to the event (including events of this program, or any other interruptible or curtailment programs enrolled by the customer, or days when a rotating outage was called). 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 +/- 20% 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. Customers must elect or opt-in to receive this adjustment. The customer is responsible for determining the applicable baseline day-of adjustment amount at the time of an event. 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. (L)

(Continued)

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**ELECTRIC SCHEDULE E-CBP
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Sheet 4

**CUSTOMER
 SPECIFIC
 ENERGY
 BASELINE:
 (Cont'd.)**

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 Aggregators no later than 15 calendar days prior to the operating month. Capacity Nominations must specify for each SA both an Option (Day-Ahead or Day-Of), Day-Of Adjustment Election, and a Product. All Capacity Nominations are fixed for their associated operating month. All operating months begin and end at the beginning and ending of its corresponding calendar month. (T)

An Aggregator can include only those SAs that are in its portfolio.

An Aggregator must nominate capacity in the following categories:

- Option (Day-Ahead or Day-Of)
- Day-Of Adjustment Election
- Product
- Bundled/Direct Access

No later than 15 calendar days prior to the first day of the operating month, an Aggregator must specify the SAs from its portfolio that shall be included in the aggregated group associated with each Capacity Nomination. The characteristics of selected SAs must match the categories of its associated Capacity Nomination. These aggregated groups will be used to determine the CSEB and performance during the operating month. A SA can be included in only one aggregated group and only one CSEB for a given operating month. (T)

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

(Continued)



**ELECTRIC SCHEDULE E-CBP
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Sheet 5

CAPACITY
 PRICE:

Capacity Price by Month

Aggregators in Day-Ahead Option

<u>Product</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	<u>September</u>	<u>October</u>
1-4 Hour	\$0.00/kW	\$3.71/kW	\$15.60/kW	\$21.57/kW	\$13.30/kW	\$0.00/kW
2-6 Hour	\$0.00/kW	\$3.71/kW	\$15.60/kW	\$21.57/kW	\$13.30/kW	\$0.00/kW
4-8 Hour	\$0.00/kW	\$3.71/kW	\$15.60/kW	\$21.57/kW	\$13.30/kW	\$0.00/kW

Aggregators in Day-Of Option

<u>Product</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	<u>September</u>	<u>October</u>
1-4 Hour	\$0.00/kW	\$4.27/kW	\$17.94/kW	\$24.81/kW	\$15.30/kW	\$0.00/kW
2-6 Hour	\$0.00/kW	\$4.27/kW	\$17.94/kW	\$24.81/kW	\$15.30/kW	\$0.00/kW
4-8 Hour	\$0.00/kW	\$4.27/kW	\$17.94/kW	\$24.81/kW	\$15.30/kW	\$0.00/kW

(L)

 (L)

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**ELECTRIC SCHEDULE E-CBP
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Sheet 6

**CAPACITY
 PAYMENT AND
 CAPACITY
 PENALTY:**

All Capacity Payments will be determined separately for each Capacity Nomination submitted by Aggregators as specified above. (L)

If no CBP Events were called during the operating month, then the Capacity Payment for the operating month is equal to product of Nominated Capacity and Capacity Price for the applicable operating month.

If one or more CBP Events were called during the operating month, then the Capacity Payment for the operating month is the sum of the Adjusted Hourly Capacity Payments/Penalties for the operating month which are determined as follows:

- 1) The Hourly Delivered Capacity for the event hour is equal to the CSEB for the event hour minus the average demand during the event hour. The average demand is defined as the energy consumed during the event hour converted to demand measured in kilowatts. The Hourly Delivered Capacity cannot be greater than the Nominated Capacity or less than zero (0).
- 2) The Hourly Delivered Capacity Ratio for the event hour is Hourly Delivered Capacity divided by the Nominated Capacity.
- 3) The Unadjusted Hourly Capacity Payment equals the product of the Nominated Capacity for the operating month and the Capacity Price for the operating month divided by the number of event hours in the operating month. (L)

(Continued)

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Sheet 7

CAPACITY
 PAYMENT AND
 CAPACITY
 PENALTY
 (Cont'd.):

4. The Adjusted Hourly Capacity Payment/Penalty is determined from the following table:

(L)

Hourly Delivered Capacity Ratio	Adjusted Hourly Capacity Payment/Penalty
= 1	Adjusted Hourly Capacity Payment = Unadjusted Hourly Capacity Payment * Hourly Delivered Capacity Ratio Adjusted Hourly Capacity Penalty = 0
>= 0.90 and < 1	Adjusted Hourly Capacity Payment = Unadjusted Hourly Capacity Payment * Hourly Delivered Capacity Ratio Adjusted Hourly Capacity Penalty = 0
>= 0.75 and < 0.90	Adjusted Hourly Capacity Payment = Unadjusted Hourly Capacity Payment * 50% Adjusted Hourly Capacity Penalty = 0
>= 0.50 and < 0.75	Adjusted Hourly Capacity Payment = 0 Adjusted Hourly Capacity Penalty = 0
>= 0 and < 0.50	Adjusted Hourly Capacity Payment = 0 Adjusted Hourly Capacity Penalty = Unadjusted Hourly Capacity Payment * (0.50 - Hourly Delivered Capacity Ratio)

(L)

(Continued)



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

Sheet 8

**ENERGY
 PAYMENT:**

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

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

If one or more CBP Events were called during the operating month, then the monthly Energy Payment is obtained by summing the Hourly Energy Payments. The Hourly Energy Payments will be determined as follows:

$$\text{Nominated Energy}_{HR} = \text{Nominated Capacity}_{HR}$$

$$\text{Delivered Energy}_{HR} = \text{lesser of Delivered Capacity}_{HR} \text{ or } 1.5 * \text{Nominated Energy}_{HR}$$

$$\text{If Delivered Energy}_{HR} \geq \text{Nominated Energy}_{HR}$$

$$\text{Energy Payment}_{HR} = \text{Delivered Energy}_{HR} * \text{Energy Price}_{HR}$$

$$\text{If Delivered Energy}_{HR} < \text{Nominated Energy}_{HR}$$

$$\text{Energy Payment}_{HR} = \text{Delivered Energy}_{HR} * \text{Energy Price}_{HR} \text{ less } (\text{Nominated Energy}_{HR} - \text{Delivered Energy}_{HR}) * \text{the higher of the ex-post energy price for the event hour or the Energy Price}_{HR}$$

$$\text{Where the Energy Price}_{HR} = 15,000 \text{ BTU/kWh} * \text{PG\&E citygate midpoint gas price as published by Platts Gas Daily for the date of the CBP Event } (\$/\text{BTU})$$

See section below for special conditions regarding DA and CCA service customers' energy payments.

**SPECIAL
 CONDITIONS
 FOR DIRECT
 ACCESS AND
 CCA SERVICE
 CUSTOMERS:**

Aggregators must make the necessary arrangements with the ESP of its DA or CCA service customers before enrolling DA or CCA service customers in this program.

PG&E will not provide energy payments to directly-enrolled DA or CCA service customers, or Aggregator on behalf of a DA or CCA service customer, for load reductions during CBP events (\$0/kWh), due to the Scheduling Coordinator (SC) to SC trade and payment changes to the CBP program. Customers and Aggregators will still receive capacity payments from PG&E for DA or CCA customers' load as applicable under this Schedule. This provision does not prevent DA or CCA customers from entering into arrangements with their respective ESPs or CCAs to receive part or all of the energy benefits derived from the DA or CCA customers' load reductions during CBP events. PG&E will notify existing CBP participants and Aggregators of this recent SC to SC program change. (L)

(Continued)



**ELECTRIC SCHEDULE E-CBP
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Sheet 9

SPECIAL
 CONDITIONS
 FOR DIRECT
 ACCESS AND
 CCA SERVICE
 CUSTOMERS:
 (Cont'd.)

See Agreement For Aggregators Participating In The Capacity Bidding Program (Form 79-1076) for additional information.

(L)

METERING AND
 COMMUNI-
 CATIONS
 EQUIPMENT:

Each customer must have an approved interval meter and approved meter communications equipment installed and operating prior to participating on this program in order to establish a valid CSEB. See Baseline section for additional details.

An approved interval meter is capable of recording usage in 15-minute intervals and being read remotely by PG&E and by PG&E's Program Coordinator. If the customer is receiving DA service, then a Meter Data Management Agent (MDMA) may also read the customer's meter on behalf of the customer's ESP.

For bundled service customers with a maximum demand of 200 kW or greater for three consecutive months in the past 12 billing months, PG&E will provide and install the metering and communication equipment at no cost to the customer if metering and communication equipment are required. For other bundled service customers, PG&E will, if required, provide and install the metering equipment at the customer's expense pursuant to Electric Rule 2, Special Facilities.

Installation of an approved interval meter and approved meter communications equipment for a DA customer is the responsibility of the customer's ESP or its MDMA. The meter and associated equipment must be installed in accordance with Electric Rule 22. If PG&E is the MDMA on behalf of the DA customer's ESP, then no additional fees will be required. If the DA customer uses a third-party MDMA, then the customer will be responsible for any and all costs associated with providing PG&E acceptable interval data on a daily basis, including any additional metering or communication equipment and any additional fees assessed by the customer's ESP.

Prior to customer's participation in the program, the customer must be able to successfully transfer meter data according to PG&E's specification on a daily basis for a period of no less than ten (10) calendar days.

All measurements for the CSEB and performance will be determined using the customer's electric revenue interval meter without loss factor adjustments.

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Sheet 11

PROGRAM
 TRIGGER AND
 NOTIFICATION:

Day-Ahead Option:

PG&E may trigger a Day-Ahead CBP Event when PG&E's procurement stack is expected to require the dispatch of electric generation facilities with heat rates of 15,000 BTU/kWh or greater for the day-ahead market, when PG&E receives a market award or dispatch instruction from the CAISO for a Proxy Demand Response bid, or when PG&E, in its sole opinion, forecasts that resources may not be adequate. PG&E reserves the right not to call an event even when these thresholds are reached when PG&E, in its sole opinion, forecasts that resources may be adequate. (T)
 (T)

PG&E will notify Aggregators by 3:00 p.m. on a day-ahead basis of a CBP Event for the following business day. Notices will be issued by 3:00 p.m. on the business day immediately prior to a PG&E holiday or weekend if a CBP Event is planned for the first business day following the PG&E holiday or weekend.

PG&E may call up to two (2) test Day-Ahead CBP Events per calendar year. Test CBP Events will be treated as actual CBP Events, including payments and penalties, and will count towards the product limits.

Day-Of Option:

PG&E may trigger a Day-Of Event when PG&E's procurement stack is expected to require the dispatch of electric generation facilities with heat rates of 15,000 BTU/kWh or greater for the hour-ahead market, when PG&E receives a market award or dispatch instruction from the CAISO for a Proxy Demand Response bid, or when PG&E, in its sole opinion, forecasts that resources may not be adequate. PG&E reserves the right not to call an event even when these thresholds are reached when PG&E, in its sole opinion, forecasts that resources may be adequate. (T)
 (T)

PG&E will notify Aggregators on a day-of basis, with up to approximately three hours notice prior to the start of a Day-Of Event.

PG&E may call two (2) test Day-Of CBP Events per calendar year. Test Day-Of CBP Events will be treated as actual CBP Events, including payments and penalties, and will count towards the product limits.

PROGRAM
 RESEARCH AND
 ANALYSIS:

All customers participating on this program agree to allow personnel from the California Energy Commission (CEC), PG&E, and their contracting agents, reasonable access to conduct a site visit for measurement and evaluation, access to the customer's interval meter data, and agree to complete any surveys needed to enhance this program.

PG&E may release customer information to the CAISO in order to facilitate direct participation of retail demand response resources in the CAISO wholesale market. (N)
 (N)

(Continued)



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

Sheet 12

ACCESS TO
 CUSTOMER
 SPECIFIC USAGE
 DATA:

PG&E will provide an aggregated customer's electric usage and electric meter data for the Service Agreements to its Aggregator so Aggregator can determine the payment payable to and penalties chargeable to Customer under Schedule E-CBP.

PROGRAM
 TERMS:

The initial term is 12 months. After the initial 12 months, an Aggregator may request to terminate its participation in this program by submitting to PG&E a completed Cancellation of Contract (Form 62-4778). The termination will be effective on the later of: (1) the beginning of the calendar month that is immediately after the initial 12 month term; and (2) the beginning of the calendar month that is closest to but at least thirty (30) calendar days after PG&E received the Cancellation of Contract. The Schedule E-CBP will remain available unless and until Schedule E-CBP is revised or terminated as directed by the CPUC.

Customers may re-designate their election of a day-of adjustment to the baseline prior to each operating month at the time of nomination.

PAYMENTS, AND
 AFFECT ON
 CUSTOMER'S
 BILL FOR THE
 OAS:

Payments due under this program will be sent as a check to the Aggregator within 60 calendar days after the end of the operating month. The charges under the OAS for an aggregated customer will not be adjusted.