



**ELECTRIC SCHEDULE E-BIP
BASE INTERRUPTIBLE PROGRAM**

Sheet 1

APPLICABILITY: This rate schedule is available until modified or terminated in the rate design phase of the next general rate case or in another proceeding. The E-BIP (Program) is intended to provide load reductions on PG&E's system. Customers enrolled in the Program will be required to reduce their load down to their Firm Service Level (FSL).

Pursuant to Decision 10-06-034, which placed a Megawatt (MW) cap on emergency demand response programs, the Program may at any time be subject to a cap for new participants. See the "Reliability Cap" section for details on the current process for administering the cap. (N)
(N)

TERRITORY: The Program is available throughout PG&E's electric service area.

ELIGIBILITY: Schedule E-BIP 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. Each customer, both directly enrolled and those enrolled in a DR aggregator's portfolio, must take service under the provisions of a demand time-of-use rate schedule to participate in the Program and have at least 100 kilowatt (kW) or higher maximum demand during the summer on-peak or winter partial-peak for at least one month over the previous 12 months. Eligible customers include those receiving partial standby service or services pursuant to one or more of the Net Energy Metering Service schedules except NEMCCSF. Customers participating in Peak Day Pricing (PDP) rate option who were enrolled prior to October 26, 2018 at their subscribed megawatt level as of December 10, 2018 or Scheduled Load Reduction Program (SLRP) are eligible to participate in Schedule E-BIP. (N)
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(N)

Customers receiving power from third parties (other than DA and CCA) and customers billed by full standby service are not eligible for Schedule E-BIP.

Customers may participate with third-party aggregators in Schedule E-BIP; however, neither those third-party aggregators nor the customers themselves may be the Demand Response Provider (DRP) of record for those customers and may not bid the associated capacity from those customers into the CAISO market. Also, customers are prohibited from participating in Schedule E-BIP if the customer is participating in another capacity-based program, even if PG&E is the DRP such as the Capacity Bidding Program.

Effective January 1, 2019, Schedule E-BIP 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.

PG&E, acting as a Demand Response Provider (DRP), must be able to register customers who are participating in the Schedule E-BIP into the California Independent System Operator's (CAISO) Demand Response Registration System (DRRS), which requires Load Serving Entity (LSE) approval. To the extent that PG&E is unable to register the customer and/or the customer's LSE does not allow the customer to be registered, the customer will be ineligible to participate in the Schedule E-BIP.

(Continued)

<i>Advice</i>	5493-E-A	<i>Issued by</i>	<i>Submitted</i>	June 19, 2019
<i>Decision</i>	18-11-029	Robert S. Kenney	<i>Effective</i>	March 11, 2019
		<i>Vice President, Regulatory Affairs</i>	<i>Resolution</i>	



**ELECTRIC SCHEDULE E-BIP
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Sheet 2

ENROLLMENT: A customer may enroll directly with PG&E or with a DR aggregator subject to the reliability cap management process. A DR aggregator is an entity, appointed by a customer, to act on behalf of said customer with respect to all aspects of the Program, including but not limited to: a) the receipt of notices from PG&E under this Program; b) the receipt of incentive payments from PG&E; and c) the payment of Excess Energy Charges to PG&E. (N)
(N)

Each customer, both directly enrolled and those in a DR aggregator's portfolio, must designate a FSL of kW to which it will reduce its load down to or below during a Program curtailment event. The FSL must be no more than 85 percent of each customer's highest monthly maximum demand during the summer on-peak and winter partial-peak periods over the past 12 months with a minimum load reduction of 100kW. During the enrollment process, customers must demonstrate their ability to meet the designated FSL by participating in a curtailment test. The curtailment test will last up to the maximum event duration and will take place prior to enrollment being completed.

As part of its application, each new applicant is required to submit an event action plan detailing specific actions taken to reduce its load down to or below the applicant's proposed FSL within the 30-minute response time and for the maximum event duration.

If a customer is attesting to the use of a Prohibited Resource(s) to reduce load during a demand response event under E-BIP, then the customer must set the FSL at no less than the sum of the faceplate capacity values of such Prohibited Resources, known as the Default Adjustment Value (DAV), as explained in the Section on the Use of Prohibited Resources within this tariff, if applicable

An applicant's effective start date shall be determined by PG&E and shall be set after PG&E has determined the application has met the eligibility rules, the load reduction demonstration was successful and PG&E has approved the applicant's load reduction plan.

Customers on the Program may not have, or obtain, any insurance for the purpose of paying Excess Energy Charges for willful failure to comply with requests for curtailments. Customers with such a policy will be terminated and required to pay back any incentives received for the period covered by the insurance. If the period cannot be determined, the recovery shall be for the entire period the customer was on the Program.

Customers who are deemed essential under the Electric Emergency Plan as adopted in Decision 01-04-006 must acknowledge that they are voluntarily electing to participate in the Program for part or all of their load based on adequate backup generation or other means to interrupt load upon request by PG&E, while continuing to meet its essential needs. In addition, an essential customer may commit no more than 50 percent of its average peak load to the Program.

Customers participating directly with PG&E must enroll using PG&E's demand response enrollment website. DR aggregators must enroll customers by submitting a fully executed Notice to Add or Delete Customers Participating in the Base Interruptible Program (Form 79-1080).

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**ELECTRIC SCHEDULE E-BIP
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Sheet 3

ENROLLMENT Directly-enrolled customers will be responsible for maintaining their notification contacts through PG&E's Inter-Act system. DR aggregators submit their notification contact(s) with their Add or Delete Customers Participating in the Base Interruptible Program (Form 79-1080) form and maintain them through Inter-Act. (L)

USE OF PROHIBITED RESOURCES Effective Date: Effective January 1, 2019, Schedule E-BIP 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 this Section. (N)

Definition: Prohibited resources are defined as distributed generation technologies using diesel; natural gas; gasoline; propane; or, liquefied petroleum gas, in topping cycle Combined Heat and Power (CHP) or non-CHP configuration. The following resources are exempted from the prohibition: pressure reduction turbines; waste-heat-to-power bottoming cycle CHP; as well as energy storage resources not coupled with fossil-fueled generation.

Attestation: Direct Enrolled customers are required to submit attestations by completing the Prohibited Resource Policy Attestation form as a condition of participation. Customers participating with an Aggregator must complete the Add or Delete Attestation form (Form 79-1080). The attestations are subject to verification as a condition of participation. Verification may require data requests and premise access. Customers are responsible for responding to such requests. Customers who do not agree to the prohibition and submit an attestation cannot participate in any affected Demand Response program.

Attestations may be updated at any time. Updates to the attestation are contingent upon customers providing documentation that confirms the operational change. Customers are required to submit an updated attestation for fuel switching, specifically from fossil-based fuels to renewable fuels, provided such fuels has received renewable certification from the California Air Resources Board. A switch must be substantiated by documentation that confirms this operations change.

Customers must attest to one of the following conditions in order to participate in E-BIP:

- I do not have a Prohibited Resource on-site.
- I do have a Prohibited Resource on-site and I will not use the resource to reduce load during any Demand Response Event.
- I do have a Prohibited Resource on-site and I may have to run the resource(s) during Demand Response events for safety reasons, health reasons, or operational reasons. My Prohibited Resource(s) has (have) a total nameplate capacity of ____kW. I understand that this value will be used as the Default Adjustment Value (DAV) to adjust the Demand Response incentives / charge for my account.

(N)

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**ELECTRIC SCHEDULE E-BIP
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**USE OF
PROHIBITED
RESOURCES**

Resources with non-by passable prohibited resources are not capable of being used for DR events. Verification for such resources may require comparison of operational data against power outage data.

Participation in E-BIP is contingent on complying with possible verification requests and facility access for site visits, as deemed necessary by the Verification Administrator. Compliance with Verification Administrator requests will be determined by the Verification Administrator.

A customer that is found in violation of the prohibited resources requirements, will be removed from the program by PG&E if the customer is directly enrolled, or by their aggregator if they are enrolled via a third party. Conditions for violations and provisions for re-enrollment include:

- Types of Violations and Non-Compliance:

	Type I Violation	Type II Violation
Description	Minor clerical or administrative errors that may be resolved with an updated attestation and <i>do not involve the use of a prohibited resource to reduce load during a DR event.</i>	1. Using prohibited resource(s) to reduce load during a DR event despite attesting to not doing so, and / or 2. Submitting an invalid nameplate capacity for a prohibited resource(s) under Attestation Scenario 3.
Scenario(s)	1. Existing customer attests to not having a prohibited resource on site, but in fact has a resource on site. However, customer did not use the resource to reduce load during a DR event. 2. Customer reports a higher-than-actual nameplate capacity.	1. Customer attests to not using a prohibited resource on site. However, customer used the resource to reduce load during a DR event. 2. Customer reports a lower-than-actual nameplate capacity.

(N)

(N)

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ELECTRIC SCHEDULE E-BIP BASE INTERRUPTIBLE PROGRAM

Sheet 8

METERING EQUIPMENT:

Each Service Agreement (SA) must have an MV90 or SmartMeter™ interval meter capable of recording usage in 15-minute intervals installed that can be read remotely by PG&E. A Meter Data Management Agent (MDMA) may also read the customer's meter on behalf of the customer's Electric Service Provider (ESP), if a customer is receiving DA service. Metering equipment (including telephone line, cellular, or radio control communication device) must be in operation for at least 45 days prior to participating in the Program in order to meet the CAISO requirement that customers comprising a Reliability Demand Response Resource provide 45 days of historical meter data to the CAISO. If required, PG&E will provide and install the metering equipment at no cost to the bundled service or CCA service customer. The installation of an interval meter for customers taking service under the provisions of DA is the responsibility of the customer's ESP, or Agent, and must be installed in accordance with Electric Rule 22.

Customers receiving an MV90 interval meter at no charge from PG&E through the Program must remain enrolled for a minimum period of one year. Customers who received an MV90 interval meter through the Program but who later elect to leave prior to the one-year anniversary date, or is terminated for cause, must reimburse PG&E for all expenses associated with the installation and maintenance of the meter. Such charges will be collected as a one-time payment pursuant to Electric Rule 2, Section I. Customers who leave the Program after one year may continue their use of the MV90 meter at no additional cost.

Direct Access Service Customers – If PG&E is the MDMA, no additional fees will be required from the customer. If PG&E is not the MDMA, the customer will be responsible for any and all costs associated with providing the interval data into the PG&E system on a daily basis. This includes any additional metering or communication devices that may need to be installed and any additional fees assessed by the customer's ESP. Prior to a customer's participation in the Program, the customer must be able to successfully transfer meter data within PG&E's specification on a daily basis for a period of no less than 10 days to establish its baseline.

Until all necessary equipment is installed and all requirements have been met, new customers will not receive incentive payments or be assessed Excess Energy Charges or be obligated to participate in curtailment events.

DISPATCH / NOTIFICATION SYSTEMS:

PG&E's demand response operations website, located at https://inter-act.pge.com, will be used to communicate all curtailment events to the customer.

Directly-enrolled customers and DR aggregators, at their expense, must have access to the internet and an e-mail address to receive notification via the internet. In addition, they must have, at their expense, a cellular telephone that is capable of receiving a text message sent via the internet. Customers cannot participate in the Program until all of these requirements have been satisfied.

In the event of a Program curtailment, directly-enrolled customers and DR aggregators will be notified using one or more of the above-mentioned systems. Receipt of such notice is the responsibility of the directly-enrolled customer and DR aggregator. PG&E does not guarantee the reliability of the e-mail system or Internet site by which notification is received.

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Table with 4 columns: Advice/Decision, Reference Number, Issued by (Robert S. Kenney), Date Filed/Effective/Resolution (July 23, 2018)



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Sheet 10

PROGRAM TESTING:	PG&E may call two (2) test events per year at its or the CAISO's discretion. These test events will be operated, paid, and counted as Program events.	(L)
	PG&E may conduct a monthly notification test to test its notification system. The monthly notification test will not count toward the Program event limits. No actual load curtailment is required.	
INCENTIVE PAYMENTS:	Incentives will be paid on a monthly basis based on the directly enrolled customer's or DR aggregator's CAISO sub-LAP portfolio monthly Potential Load Reduction (PLR) amount, minus the sum of any applicable default adjustment values (DAVs):	(L)
	Potential Load Reduction (net DAV) Incentive	(T)/(L)
	1 kW to 500 kW \$8.00/kW	(L)
	501 kW to 1,000 kW \$8.50/kW	
	1,001 kW and greater \$9.00/kW	
	The PLR (described below) will be multiplied by the appropriate incentive level to determine the monthly incentive payment.	
	Summer Season (May 1 through October 31): The difference of the directly enrolled customer's or DR aggregator's CAISO sub-LAP portfolio average monthly on-peak period demand (on-peak kWh divided by available on-peak hours), excluding days participating in a DR program event, and its designated FSL, minus the sum of any applicable DAVs.	(L)
	Winter Season (November 1 through April 30): The difference of the directly enrolled customer's or DR aggregator's CAISO sub-LAP portfolio customer's average monthly partial-peak period demand (partial-peak kWh divided by available partial-peak hours), excluding days participating in a DR program event, and its designated FSL, minus the sum of any applicable DAVs.	(T)/(L)
	The customer's interval data is available through PG&E's Inter-Act system The data may not match billing quality data. All incentive payment calculations uses billing quality data.	(L)

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**ELECTRIC SCHEDULE E-BIP
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PROGRAM
TRIGGERS:

- 1) The CAISO issues a market award or dispatch instruction by CAISO sub-LAP pursuant to CAISO Operating Procedure 4420.

- 2) PG&E in its sole discretion may dispatch one or more customers to address transmission or distribution reliability needs.

CONTRACTS:

Customers, both directly-enrolled and those in a DR aggregator's portfolio, may increase their FSL or discontinue participation in the Program once annually by providing a 30-day written notice for the direct enrolled and Add or Delete form for the aggregator enrolled during the month of November, unless the change in the customer's FSL is due to an update to its attestation of the Prohibited Resource(s), subject to PG&E's approval. The adjustment of the FSL due to a change in attestation will be effective on the next regularly scheduled meter read date after PG&E approval. Cancellation will be effective January of the following year.

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(T)

(D)
(D)

DR aggregators must submit a signed Agreement For Aggregators Participating in the Base Interruptible Program (Form 79-1079).

RELIABILITY
CAP:

D. 18-11-029 established a new reliability cap management process. When the available capacity is below 50% of an individual utility's allocated two-percent reliability cap, enrollment is based on a first-come; first-served approach. However, this process provides for an annual lottery in April when the available capacity ("headroom") is between 50%-95% of an individual utility's allocated two-percent reliability cap. New enrollments and decreases in the Firm-Service Level would occur after the results of the lottery are determined.

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When a utility utilizes the lottery, the following prioritization preference applies:
1) third-party resources from Local Capacity Areas that have deficiencies pursuant to CAISO; 2) utility resources from Local Capacity Areas that have deficiencies pursuant to CAISO, 3) all other third-party resources, and 4) all other utility resources.

(N)

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**ELECTRIC SCHEDULE E-BIP
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Sheet 13

GREGATOR'S
PORTFOLIO:

DR aggregators must submit a Notice to Add or Delete Customers Participating in the Base Interruptible Program (Form 79-1080) signed by the aggregated customer to add or delete a customer from its portfolio. PG&E will review and approve each SA before enrollment under the aggregator's portfolio. Each SA may be included in only one portfolio at a time.

PG&E will only add a new customer to a DR aggregator's portfolio after all necessary equipment is installed and all requirements have been met. Metering equipment (including telephone line, cellular, or radio control communication device) must be in operation for at least 45 days prior to participating in the Program.

The terms and conditions of the agreement governing the relationship between the DR aggregator and a customer, with respect to such customer's participation in the Program through such a DR aggregator, are independent of PG&E. Any disputes arising between DR aggregator and such customer shall be resolved by the parties.

SPECIAL
CONDITIONS
FOR
COMMUNITY
CHOICE
AGGREGATION
SERVICE (CCA
SERVICE)
CUSTOMERS
AND DIRECT
ACCESS (DA)
CUSTOMERS:

DA/CCA Service customers enrolling directly with PG&E must make the necessary arrangements with their ESP/CCA before enrolling in this Program.

Aggregators must make the necessary arrangements with the ESP and CCA before enrolling DA or CCA Service customers in this Program. Aggregators must notify the ESP/CCA of its DA/CCA Service customers.

INTERACTION
WITH
CUSTOMER'S
OTHER
APPLICABLE
PROGRAMS AND
CHARGES:

Consistent with Decision 11-18-029, customers who participate in a third party sponsored interruptible load program must immediately notify PG&E of such activity.

(T)

Customers enrolled in the Program may also participate in one of the following PG&E DR programs: Scheduled Load Reduction Program (Schedule E-SLRP), or the Peak Day Pricing (PDP) rate option if dual enrollment in BIP and PDP occurred prior to October 26, 2018. If dual enrolled in BIP and PDP prior to October 26, 2018 then participation will be capped at the customer's subscribed megawatt level as of December 10, 2018. New dual enrollment in BIP and PDP as of October 26, 2018 is no longer available.

(N)
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(N)

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Advice 5493-E-A
Decision 18-11-029

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Robert S. Kenney
Vice President, Regulatory Affairs

Submitted
Effective
Resolution

June 19, 2019
March 11, 2019



**ELECTRIC SCHEDULE E-BIP
BASE INTERRUPTIBLE PROGRAM**

Sheet 14

UNDER-FREQUENCY RELAY PROGRAM:

Only directly-enrolled customers may participate in PG&E's Underfrequency Relay (UFR) Program. The UFR Program is not available to customers enrolled through DR aggregators. Under the UFR Program, the customer agrees to be subject at all times to automatic interruptions of service caused by an underfrequency relay device that may be installed by PG&E. Please note that PG&E may require up to three years' written notice for termination of participation in the UFR Program.

(L)

- 1) **Details on Automatic Interruptions:** If a customer is participating in the UFR Program, service to the customer will be automatically interrupted if the frequency on the PG&E system drops to 59.65 hertz for 20 cycles. PG&E will install and maintain a digital underfrequency relay and whatever associated equipment it believes is necessary to carry out such automatic interruption. Relays and other equipment will remain the property of PG&E. If more than one relay is required, PG&E will provide the additional relays as "special facilities," at customer's expense, in accordance with Section I of Rule 2.

In addition to the underfrequency relay, PG&E may install equipment that would automatically interrupt service in case of voltage reductions or other operating conditions.

- 2) **Metering Requirements for UFR Program:** If a customer is participating in the UFR program in combination with firm or curtailable-only service, the customer will be required to have a separate meter for the UFR service. PG&E will provide the meter sets, but the customer will be responsible for arranging customer's wiring in such a way that the service for each service agreement can be provided and metered at a single point. NOTE: Any other additional facilities required for a combination of curtailable with firm service will be treated as "special facilities" in accordance with Section I of Rule 2.

- 3) **Communication Channel for UFR Service:** UFR Program customers are required to provide an exclusive communication channel from the PG&E-provided terminal block at the customer's facility to a PG&E-designated control center. The communication channel must meet PG&E's specifications, and must be provided at the customer's expense. PG&E shall have the right to inspect the communication circuit upon reasonable notice.

- 4) **Rate for UFR Service:** Customers participating in the UFR Program will receive a \$0.67/kW demand credit on a monthly basis based on their average monthly on-peak period demand in the summer and the average monthly partial-peak demand in the winter.

(L)