ELECTRIC SCHEDULE E-BIP
BASE INTERRUPTIBLE PROGRAM

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.

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 (T) partial-peak for at least one month over the previous 12 months. Eligible (T) 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 or (T) Scheduled Load Reduction Program (SLRP) are eligible to participate in Schedule E-BIP.

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

(D)

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

A customer may enroll directly with PG&E or with a DR aggregator. 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.

(Continued)

ELECTRIC SCHEDULE E-BIP Sheet 2
BASE INTERRUPTIBLE PROGRAM

ENROLLMENT:	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.	(L)(T) (L) (L)(T) (L) I (L)(N) (N) I I I
	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.	I I I I I
	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.	I I I I (N)
	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.	(L)(T) (L) I I I I I
	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.	(L) (L)(T) (L) (L) (L)(T)
	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).	(T) I I (T)
	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.	(N) I I I (N)

(Continued)

ELECTRIC SCHEDULE E-BIP Sheet 3
BASE INTERRUPTIBLE PROGRAM

METERING EQUIPMENT:

Each Service Agreement (SA) must have an MV90 or SmartMeter ™ interval meter (T)
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, (T)
cellular, or radio control communication device) must be in operation for at least 45 (N)
days prior to participating in the Program in order to meet the CAISO requirement I
that customers comprising a Reliability Demand Response Resource provide 45 I
days of historical meter data to the CAISO. If required, PG&E will provide and install (N)
the metering equipment at no cost to the bundled service or CCA service customer. (T)
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 (T)
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 (T)
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. (T)
(D)

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 (T)
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, (T)
will be used to communicate all curtailment events to the customer. (T)

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

In the event of a Program curtailment, directly-enrolled customers and DR (T)
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 (T)
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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ELECTRIC SCHEDULE E-BIP
BASE INTERRUPTIBLE PROGRAM

PROGRAM DETAILS:	PG&E will register each customer at the CAISO for the purposes of bidding into its market as a Reliability Demand Response Resource (RDRR) product. PG&E will assign each customer, both directly enrolled and through a DR aggregator, to a CAISO sub-Load Aggregation Point (sub-LAP), CAISO sub-LAP may change over time, and will be disaggregated by LSE.	(N) (N) (T) I (T)
	Directly-enrolled customers and DR aggregators will be given at least 30 minutes notice before each curtailment.	(T)
	A program curtailment event will be limited to a maximum of one (1) event per day and four (4) hours per event. The Program will not exceed 10 events during a calendar month, or 180 hours per calendar year.	(T)
	All customers will be placed on a calendar billing cycle and their regular electric service bills will continue to be calculated each month based on actual recorded monthly demands and energy usage.	
	The Program will be operated throughout the year.	
	PG&E may terminate the Program, as directed by the Commission, upon 30 days written notice to all directly-enrolled customers and DR aggregators.	(T)
		(D) I I I I I I I I I I I I I I I (D)

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ELECTRIC SCHEDULE E-BIP
BASE INTERRUPTIBLE PROGRAM

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. (N)

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. (N)
I
(N)

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: (N)

Potential Load Reduction	Incentive
1 kW to 500 kW	$8.00/kW
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. (N) (T)

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. (N) (T)

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. (N)
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(N)

(Continued)

ELECTRIC SCHEDULE E-BIP
BASE INTERRUPTIBLE PROGRAM

EXCESS ENERGY CHARGES:

Excess Energy is any energy (kWh) consumed during a curtailment event that is in excess of the customer’s FSL. The energy usage is measured in 15-minute intervals.

Customers will be assessed an Excess Energy Charge at $6.00 per kilowatt-hour (kWh).

PG&E will evaluate and apply Excess Energy Charges for directly-enrolled customers’ and DR aggregators’ CAISO sub-LAP portfolio no later than 90 days after each curtailment event. The incentive payments will be reflected on the directly-enrolled customers’ regular monthly bills as an adjustment. PG&E will adjust DR aggregators' payments based on performance no later than 90 days after a curtailment event.

PG&E may elect to evaluate and assess the Excess Energy Charges associated with several curtailment events as a single adjustment.

PROGRAM RETEST:

If a customer fails to reduce its load down to or below its FSL throughout the curtailment event, including test event, PG&E may require a re-test that will not count toward the Program event limits. The Excess Energy Charge will increase to $8.40 per kilowatt-hour (kWh) for the re-test and will continue at this level for the remainder of the calendar year.

If the customer fails to reduce its load down to or below its FSL during the re-test, the customer has the option to either: a) de-enroll from the program, b) be re-tested at the current FSL, or c) modify its FSL to an achievable level that meets Program requirements. PG&E may require the customer be re-tested at the new FSL.

If the customer does not modify its FSL, de-enroll from the Program, or successfully comply with the re-test, then PG&E will either: a) set the customer’s FSL to the highest FSL that meets the Program requirements and require a re-test, b) re-test the customer at its current FSL, or c) terminate the customer’s participation.

There is no limit to the number of re-tests to which a customer is subject. The customer will be subject to an additional Excess Energy Charge for each failed re-test.

For aggregators who fail to comply with a curtailment event, the methodology specified above will be applied at the DR aggregator’s CAISO sub-LAP portfolio. In the event an aggregation within an (N)
aggregator’s CAISO sub-LAP portfolio fails a load curtailment test, only the I
customers in the failed aggregation that failed to reduce their loads below I
their FSL will be retested. (N)

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ELECTRIC SCHEDULE E-BIP
BASE INTERRUPTIBLE PROGRAM

PROGRAM TRIGGERS:

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

(D)
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(D)

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

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ELECTRIC SCHEDULE E-BIP
BASE INTERRUPTIBLE PROGRAM

CONTRACTS:	Customers, both directly-enrolled and those in a DR aggregator's portfolio, may re-designate their FSL or discontinue participation in the Program once annually by providing a 30-day written notice during the month of November. Cancellation will be effective January of the following year. Customers may de-enroll prior to the end of the first year if they do so to participate in the 2016 Demand Response Auction Mechanism Pilot, as directed by the California Public Utilities Commission in Resolution E-4728.	(T)
	DR aggregators must submit a signed Agreement For Aggregators Participating in the Base Interruptible Program (Form 79-1079).	(T)
AGGREGATOR'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.	(T)
	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.	(T) (N) I I (N)
	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.	(T) I (T)
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.	(T) (T)
INTERACTION WITH CUSTOMER'S OTHER APPLICABLE PROGRAMS AND CHARGES:	Customers who participate in a third party sponsored interruptible load program must immediately notify PG&E of such activity.	
	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.	(T) (T)
		(D)

(Continued)

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. (T)

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.