

PUBLIC UTILITIES COMMISSION

505 VAN NESS AVENUE



July 15, 2022

**Advice Letters 6532-E & 6532-E-A**

Erik Jacobson  
Director, Regulatory Relations  
Pacific Gas and Electric Company  
77 Beale Street, Mail Code B10C  
P.O. Box 770000  
San Francisco, CA 94177

**SUBJECT: Revise Option R Eligibility Requirements and Implement a Participation Cap and Reservation System Pursuant to D.21-11-016 in PG&E's 2020 GRC Phase 2 Proceeding.**

Dear Mr. Jacobson:

Advice 6532-E & 6532-E-A are effective as of April 18, 2022.

Sincerely,

A handwritten signature in black ink that reads "Leuwam Tesfai".

Leuwam Tesfai  
Deputy Executive Director for Energy and Climate Policy  
California Public Utilities

April 6, 2022

**Advice 6532-E-A**

(Pacific Gas and Electric Company ID U 39 E)

Public Utilities Commission of the State of California

**Subject: Supplemental: Revise Option R Eligibility Requirements and Implement a Participation Cap and Reservation System Pursuant to D.21-11-016 in PG&E's 2020 GRC Phase 2 Proceeding**

**Purpose**

Pacific Gas and Electric Company (PG&E) submits this supplement to provide model tariff language, as described below under tariff revisions, to its Advice Letter 6532-E to implement the expansion of the Option R eligible onsite renewable distributed generation technologies and implement an Option R participation cap and pre- Permission to Operate (PTO) reservation system in accordance with the Commercial and Industrial Rate Design Supplemental Agreement<sup>1</sup> (C&I Settlement) adopted by Decision (D.) 21-11-016 in PG&E's 2020 General Rate Case (GRC) Phase 2 proceeding (Application (A.) 19-11-019). Within 60 days after the disposition of Advice Letter 6532-E and this supplemental advice letter, PG&E proposes to implement these tariff changes and reservation system in a separate tier 1 advice letter.

**Background**

On November 19, 2021, the California Public Utilities Commission (CPUC or Commission) issued D.21-11-016 in PG&E's 2020 GRC Phase 2 proceeding. Among other items, Ordering Paragraph (OP) 20 of D.21-11-016 adopted the C&I Settlement, ordering PG&E to implement the provisions of the settlement as soon as practicable. In the C&I Settlement, the C&I Settling Parties<sup>2</sup> agreed to changes in the eligibility

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<sup>1</sup> See Motion of Pacific Gas and Electric Company for Adoption of Commercial and Industrial Rate Design Supplemental Settlement Agreement dated April 13, 2021.

<sup>2</sup> C&I Settling Parties include PG&E, the California City County Street Light Association (CALSLA), the California Large Energy Consumers Association (CLECA), the California Manufacturers & Technology Association (CMTA), the Direct Access Customer Coalition (DACC), the Energy Producers and Users Coalition (EPUC), the Energy Users Forum (EUF), the Federal Executive Agencies (FEA), the Public Advocates Office at the California Public Utilities

requirements as outlined in Section F.1. These changes involved expanding the eligibility requirements and implementing a participation cap of 600 MW, based on the capacity of eligible technology. In addition, Section F.1.h required PG&E to submit an advice letter to propose a pre-PTO reservation system similar to that approved previously for Option S to implement this participation cap no later than four months after a final decision was rendered A.19-11-019. PG&E submits this advice letter to comply with this requirement and to outline the revised eligibility requirements for Option R as defined below.

#### *Expansion of Option R Eligibility Requirements*

The C&I Settling Parties agreed to expand the eligibility requirements to include “customers with solar, wind, fuel cells or other eligible onsite Renewable Distributed Generation Technologies as defined by CSI or SGIP, customers with behind-the-meter storage whether it is paired with such renewable distributed generation or it is stand-alone storage, and Permanent Load Shifting (PLS) technologies.”<sup>3</sup> The expanded eligibility requirements are subject to the following provisions:

- a) Eligible renewable generation systems and PLS systems must have a net renewable generating capacity or load shift capacity equal to or greater than 15 percent of the customer’s annual peak demand, as recorded over the previous 12 months.
- b) For standalone storage, the customer’s system must have a minimum discharge capacity equal to or greater than 20 percent of the customer’s annual peak demand, as recorded over the previous 12 months. Discharge capacity for Option R will be calculated using the same method as that used for Option S.
- c) There shall be no maximum limitation of eligibility for Option R based on individual customer peak demand, provided however, (1) customers meet the eligibility requirements for Schedules B-19(V) and B-20; and (2) limitations on the maximum peak demand that may be required on other schedules or programs are not waived by taking services under Option R.

#### *Implementation of Option R Participation Cap*

The C&I Settling Parties agreed to limit Option R enrollment to a participation cap of 600 MW, based on the capacity of the eligible technology. The 600 MW participation cap is subject to the following provisions:

- a) The capacity that is already enrolled in Option R on Schedules E-19, E-19V, and E-20 counts towards reaching the participation cap.
- b) The participation cap excludes the capacity of PLS customers who are utilizing PLS technologies to be eligible for Option R.

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Commission (Cal Advocates), the Joint Community Choice Aggregators (Joint CCA), the Solar Energy Industries Association (SEIA), and the Small Business Utility Advocates (SBUA).

<sup>3</sup> C&I Settlement, page 10.

- c) For eligible renewable technologies, the qualifying capacity counted towards reaching the participation cap is based on net renewable generating capacity (i.e., the amount of power actually delivered by the generator net of any losses such as auxiliary loads, thermal management loads, etc.).
- d) For stand-alone storage, the qualifying capacity counted towards the participation cap is the discharge capacity of the storage system. Discharge capacity shall be calculated for Option R using the same method as is used for Option S, which is a net output value after losses.
- e) For paired storage systems, the qualifying capacity counted towards the participation cap is the larger of the system's California Energy Commission (CEC) alternating current (AC) solar capacity or the discharge capacity of the discharge solar system (but not both).

### **Tariff Revisions**

PG&E provides, with this supplement, revisions to the current Option R tariff language to align with the settlement language adopted in D.21-11-016. This model tariff language is provided in Electric Schedule B-19, B-20, E-19, and E-20 rate schedules and would go into effect concurrently in a separate Tier 1 advice letter implementing the reservation system 60 days after the disposition of this advice letter. This ensures an orderly process for enrolling newly eligible customers on Option R while also monitoring and adhering to the new Option R participation cap.

The proposed tariff revisions expand eligibility from only customers with solar generation today to a customer with an expanded set of renewable generators, PLS or storage, as described above. In addition, the revisions replace previous language related to calculations to determine minimum renewable generator sizing with sizing requirements consistent with the settlement. Finally, language is added to describe the MW cap on Option R participation and how various technologies will be counted toward that cap.

### **Discussion**

Once the 600 MW participation cap for Option R is put in place, there is potential risk for a project developer that by the time their project has reached PTO, capacity within Option R is exhausted. This may occur even if capacity is available at the beginning of a project. As the project moves from development to design, permitting, construction, commissioning to PTO, the sunk cost into the project will grow. Between the time of initiation and the completion of a project, enrollment in Option R may reach its capacity cap, leaving the project developer with an in-flight project that now has lost access to a price structure that it was designed to optimize.

PG&E Option R enrollment to date is approximately 257 MW of the 600 MW total. Consistent with PG&E's current tariffs, these customers are all customers with photovoltaic solar systems (PV).

Table 1. Currently enrolled on Option R and operating (Received PTO)		
Rate	Number of Customers	MW
E19V	82	34.48
E19	47	46.08
E20	30	75.46
B19V	51	15.42
B19	24	16.39
B20	9	69.05

In addition, PG&E has a large number of existing customers that are potential Option R customers: those that are eligible for Option R but are not choosing to take service on Option R and those that will become eligible based on the expanded eligibility requirements adopted by D.21-11-016. For information purposes, table 2 below shows storage interconnection applications by category of rate eligibility for customers that would be eligible for service on Option R and would be subject to the cap.

Table 2. Existing storage interconnections by category of rate eligibility for customers that would be eligible for — and may elect to take service on — Option R		
Rate	Number of Customers	MW
E19V	234	64.76
E19	89	44.91
E20	68	120.21
B19V	644	99.03
B19	185	69.25
B20	175	114.00

### **Proposal for pre-PTO Reservation System**

The C&I Settlement adopted by D.21-11-016 proposed to expand the renewable distributed generation technologies eligible for Option R to include solar, wind, fuel cells or customers with behind the meter storage whether it is paired with such renewable distributed generation i.e., pressure reduction turbine, waste heat to power, steam turbine, gas turbine, micro-turbine, internal combustion engine, linear, generators, or it is standalone storage, or permanent load shifting (PLS) technologies.

PG&E proposes to implement a pre-PTO reservation system for the Option R rate modifier modeled after the Option S pre-PTO reservation system in an effort to address the concerns articulated above: the pre-PTO reservation system will reduce the risk to solar and storage developers of not qualifying for Option R at the time of post-PTO enrollment and the possibility that any of the available rate schedules reach the maximum capacity of 600 MW by the time a project reaches PTO. PG&E's proposed pre-PTO reservation system would enable customers that are eligible to reserve enrollment in Option R prior to PTO through PG&E's interconnection process.

PG&E customers will begin the reservation process on PG&E's Option R website, where they will be prompted to fill out a pre-formatted email and attach the signed interconnection agreement and send it to a dedicated email address. Once the customer's Option R reservation request is received, PG&E will verify the reservation request for completeness within 5 business days. Once a request is confirmed complete, PG&E will then conduct a preliminary Option R eligibility check within an additional 5 business days, and then confirm there is capacity left in the Option R cap to accommodate the customer's project. PG&E will then notify the customer of their reservation status and provide any reason(s) the request was denied. A customer reservation will be held for 18-months initially, and the customer can request up to two six-month extensions, by sending the request for extension and reason(s) to the dedicated email address.

Once the reservation process is in place – to occur on the first business day 60 days subsequent to the disposition of this advice letter – only PG&E customers that have reserved Option R capacity through this process will be considered for enrollment into Option R. Limiting enrollment to this single process ensures that reserved capacity cannot be taken by a project which enrolls through an alternate process. For example, if a project enrolls in Option R outside the reservation process and causes the cap to be reached while another project is in its five-day eligibility check window, the capacity that was available and should have been set aside for that reservation will have been already taken. In this scenario the certainty afforded by a reservation system breaks down.

To ensure a smooth transition to the reservation process, PG&E will provide reservation process instructions on its Option R website at least 45 days prior to the initiation of the process and at least 30 days prior to the initiation of the process, PG&E will notify interested customers (applicants with pending interconnection applications that will be eligible for Option R as well as customers with PTO that are newly eligible) that the new reservation process is going to into effect.

On PG&E's Option R website, PG&E will report Option R capacity availability.

The submittal would not increase any current rate or charge, cause the withdrawal of service, or conflict with any rate schedule or rule.

### **Protests**

Pursuant to CPUC General Order 96-B, Section 7.5.1, PG&E hereby requests the protest period be waived.

### **Effective Date**

PG&E requests that this Tier 2 advice submittal become effective concurrent with original Advice Letter 6532-E, which is April 17, 2022.





# ADVICE LETTER SUMMARY

## ENERGY UTILITY



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

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

Utility type:

- ELC       GAS       WATER  
 PLC       HEAT

Contact Person: Annie Ho  
 Phone #: (415) 973-8794  
 E-mail: PGETariffs@pge.com  
 E-mail Disposition Notice to: AMHP@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) #: 6532-E-A

Tier Designation: 2

Subject of AL: Supplemental: Revise Option R Eligibility Requirements and Implement a Participation Cap and Reservation System Pursuant to D.21-11-016 in PG&E's 2020 GRC Phase 2 Proceeding

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.21-11-016

Does AL replace a withdrawn or rejected AL? If so, identify the prior AL:

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

Confidential treatment requested?  Yes  No

If yes, specification of confidential information:

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

Resolution required?  Yes  No

Requested effective date: 4/17/22

No. of tariff sheets: N/A

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

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

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

Tariff schedules affected: N/A

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

California Public Utilities Commission  
Energy Division Tariff Unit Email:  
[EDTariffUnit@cpuc.ca.gov](mailto:EDTariffUnit@cpuc.ca.gov)

Contact Name: Sidnev Bob Dietz II. c/o Megan Lawson  
Title: Director, Regulatory Relations  
Utility/Entity Name: Pacific Gas and Electric Company  
  
Telephone (xxx) xxx-xxxx: (415)973-2093  
Facsimile (xxx) xxx-xxxx: (415)973-3582  
Email: PGETariffs@pge.com

Contact Name:  
Title:  
Utility/Entity Name:  
  
Telephone (xxx) xxx-xxxx:  
Facsimile (xxx) xxx-xxxx:  
Email:

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

Clear Form

# **Attachment 1**

## **Model Tariffs**



**ELECTRIC SCHEDULE B-19**

Sheet 2

**MEDIUM GENERAL DEMAND-METERED TOU SERVICE**

1. APPLICABILITY: **Assignment of New Customers:** If a customer is new and PG&E believes that the customer's maximum demand will be 500 through 999 kilowatts and that the customer should not be served under a time of use agricultural schedule, PG&E will serve the customer's account under Mandatory Schedule B-19.  
(Cont'd.)

**Definition of Maximum Demand:** Demand will be averaged over 15-minute intervals for customers whose maximum demand exceeds 499 kW. "Maximum demand" will be the highest of all the 15-minute averages for the billing month. If the customer's use of electricity is intermittent or subject to severe fluctuations, a 5-minute interval may be used. If the customer has any welding machines, the diversified resistance welder load, calculated in accordance with Section J of Rule 2, will be considered the maximum demand if it exceeds the maximum demand that results from averaging the demand over 15-minute intervals. The customer's maximum-peak-period demand will be the highest of all the 15-minute averages for the peak period during the billing month. (See Section 6 for a definition of "Peak-Period.") See Section 13 for the definition of maximum demand for customers voluntarily selecting B-19.

**Option R for Standalone Solar:** The Option R rate is available to qualifying customers taking Bundled, Direct Access (DA) or Community Choice Aggregation (CCA) service under Schedule B-19, or voluntary B-19. Eligible customers system must have a minimum discharge capacity equal to or greater than 20 percent of the customer's annual peak demand, as recorded over the previous 12 months to be eligible for Option R. Discharge capacity for Option R will be calculated using the same method as that used for Option S. For additional Option R details and program specifics, see Sections 3 and 18. (T)

**Option R for Renewable Distributed Generation Technologies:** The Option R rate is available to qualifying customers taking Bundled, DA or CCA service under Schedule B-19, or voluntary B-19. Eligible customers system with solar, wind, fuel cells or other eligible onsite renewable distributed generation technologies as defined by the California Solar Initiative program (CSI) or Self Generation Incentive Program (SGIP), customers with behind-the-meter storage paired with such renewable distributed generation, and Permanent Load Shifting (PLS) technologies. Eligible renewable generation systems and PLS systems must have a net renewable generating capacity or load shift capacity equal to or greater than 15 percent of the customer's annual peak demand, as recorded over the previous 12 months. For additional Option R details and program specifics, including the participation cap, see Sections 3 and 18. (N)

**Option S for Storage:** The Option S rate for storage is available to qualifying customers taking Bundled, DA or CCA service under Schedule B-19 or voluntary B-19. Eligible customers must have storage systems with rated capacity in watts which is at least 10% of the customer's peak demand over the previous 12 months. Option S is available subject to an enrollment cap. For additional Option S details and program specifics see Sections 3 and 20.

**Standby Demand:** For customers served under this rate schedule and for whom Schedule SB—Standby Service Special Conditions 1 through 6 apply, standby demand is the portion of a customer's maximum demand in any month caused by nonoperation of the customer's alternate source of power, and for which a demand charge is paid under the regular service schedule.

(L)  
(L)

(Continued)



**ELECTRIC SCHEDULE B-19**  
MEDIUM GENERAL DEMAND-METERED TOU SERVICE

Sheet 3

1. APPLICABILITY: If the customer imposes standby demand in any month, then the regular service maximum demand charge will be reduced by the applicable reservation capacity charge (see Schedule SB Special Condition 1). (L)

To qualify for the above reduction in the maximum demand charge, the customer must, within 30 days of the regular meter-read date, demonstrate to the satisfaction of PG&E the amount of standby demand in any month. This may be done by submitting to PG&E a completed Electric Standby Service Log Sheet (Form 79-726). (L)

**Peak Day Pricing Default Rates:** Peak Day Pricing (PDP) rates provide customers the opportunity to manage their electric costs by reducing load during high cost periods or shifting load from high cost periods to lower cost periods. Decision 10-02-032 ordered that beginning May 1, 2010, eligible large Commercial and Industrial (C&I) customers default to PDP rates. A customer is eligible for default when 1) it has at least twelve (12) months of hourly usage data available, and 2) it has measured demands equal to or exceeding 200 kW for three (3) consecutive months during the past 12 months. All eligible customers will be placed on PDP rates unless they opt-out to a TOU rate.

Decision 10-02-032, as modified by Decision 11-11-008, ordered that beginning November 1, 2014, eligible small and medium C&I customers (those with demands that are not equal to or greater than 200 kW for three consecutive months) default to PDP rates. A customer is eligible for default when it has at least twelve (12) billing months of hourly usage data available and two years of experience on TOU rates. All eligible customers will be placed on PDP rates unless they opt-out to a TOU rate. Customers with a SmartMeter™ system, or interval meter, installed that can be remotely read by PG&E may also voluntarily elect to enroll on PDP rates.

Bundled service customers are eligible for PDP. Direct Access (DA) and Community Choice Aggregation (CCA) service customers are not eligible, including those DA customers on transitional bundled service (TBS). Customers on standby service (Schedule SB) whose premises are regularly supplied in full by electric energy from a nonutility source of supply, net-energy metering Schedules NEMFC, NEMBIO, NEMCCSF, or NEMA, or an energy payment demand response program are not eligible for PDP. Customers that take standby service whose premises are regularly supplied in part (but not in full) by electric energy from a nonutility source of supply are eligible for PDP on the non-standby portion of their service. In addition, master-metered customers are not eligible, except for commercial buildings with submetering as stated in PG&E Rule 1 and Rule 18.

For additional details and program specifics, see the Peak Day Pricing Details section below.

2. TERRITORY: This rate schedule applies everywhere PG&E provides electricity service.

(Continued)

Advice 6532-E-A  
Decision

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

Submitted  
Effective  
Resolution

April 4, 2022



**ELECTRIC SCHEDULE B-19**  
MEDIUM GENERAL DEMAND-METERED TOU SERVICE

Sheet 19

18. Option R The Option R rate is available to qualifying customers with eligible technologies as described in the applicability section of this tariff. Across all applicable rate schedules, Option R participation is capped at 600 MW of generating or storage discharge capacity. Eligible Permanent Load Shift (PLS) technologies are not subject to this cap. (T)

For eligible stand-alone storage, the qualifying capacity counted towards the Option R cap is the discharge capacity of the storage system or systems, calculating using the same method as is used for Option S. (N)

For eligible renewable technologies, the qualifying capacity counted towards the Option R participation cap is based on net renewable generating capacity (i.e., the amount of power actually delivered by the generator or generators net of any losses such as auxiliary loads, thermal management loads, etc.).

For paired storage systems, the qualifying capacity counted towards the Option R cap is the larger of the system's California Energy Commission (CEC) alternating current (AC) solar capacity or the discharge capacity of the storage system calculated using the same method as that used for Option S (but not both). No Benefitting\* or Aggregated\* account is eligible for Option R unless there is an eligible technology interconnected at that account that independently meets the Option R minimum size requirements relative to peak load, as described in the applicability section of this tariff. (N)

\* Benefiting and Aggregated accounts are defined in rate schedules that allows for such accounts for example, NEM2, RES-BCT and other tariffs.

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(Continued)



**ELECTRIC SCHEDULE B-20**  
SERVICE TO CUSTOMERS WITH MAXIMUM  
DEMANDS of 1000 KILOWATTS or MORE

Sheet 2

1. APPLICABILITY: **Definition of Maximum Demand:** Demand will be averaged over 15-minute intervals. (Cont'd.) "Maximum demand" will be the highest of all the 15-minute averages for the billing month. If the customer's use of electricity is intermittent or subject to severe fluctuations, a 5-minute interval may be used. If the customer has any welding machines, the diversified resistance welder load, calculated in accordance with Section J of Rule 2, will be considered the maximum demand if it exceeds the maximum demand that results from averaging the demand over 15-minute intervals. The customer's maximum-peak-period demand will be the highest of all the 15-minute averages for the peak period during the billing month. (See Section 6 for a definition of "Peak-Period.")

**Standby Demand:** For customers under this rate schedule and for whom Schedule SB—Standby Service Special Conditions 1 through 6 apply, standby demand is the portion of a customer's maximum demand in any month caused by nonoperation of the customer's alternate source of power, and for which a demand charge is paid under the regular service schedule.

If the customer imposes standby demand in any month, then the regular service maximum demand charge will be reduced by the applicable reservation capacity charge (see Schedule SB Special Condition 1).

To qualify for the above reduction in the maximum demand charge, the customer must, within 30 days of the regular meter read date, demonstrate to the satisfaction of PG&E the amount of standby demand in any month. This may be done by submitting to PG&E a completed Electric Standby Service Long Sheet (Form 79-726).

**Option R for Standalone Solar:** The Option R rate is available to qualifying Bundled, DA and CCA B-20 customers. Eligible customers system must have a minimum discharge capacity equal to or greater than 20 percent of the customer's annual peak demand, as recorded over the previous 12 months to be eligible for Option R. Discharge capacity for Option R will be calculated using the same method as that used for Option S. For additional Option R details and program specifics, including the participation cap, see Sections 3 and 16. (T)

**Option R for Renewable Distributed Generation Technologies:** The Option R rate is available to qualifying customers taking Bundled, DA or CCA service under Schedule B-20. Eligible customers system with solar, wind, fuel cells or other eligible onsite renewable distributed generation technologies as defined by the California Solar Initiative program (CSI) or Self Generation Incentive Program (SGIP), customers with behind-the-meter storage paired with such renewable distributed generation, and Permanent Load Shifting (PLS) technologies. Eligible renewable generation systems and PLS systems must have a net renewable generating capacity or load shift capacity equal to or greater than 15 percent of the customer's annual peak demand, as recorded over the previous 12 months. For additional Option R details and program specifics, including the participation cap, see Sections 3 and 16. (N)

(L)  
(L)

(Continued)



**ELECTRIC SCHEDULE B-20**  
**SERVICE TO CUSTOMERS WITH MAXIMUM**  
**DEMANDS of 1000 KILOWATTS or MORE**

Sheet 3

1. APPLICABILITY: **Fuel Cell Generation Demand Adjustment:** A customer who installs a fuel cell electric generation facility may be eligible to receive a Generation Demand Adjustment. A customer will qualify for a Generation Demand Adjustment if both of the following conditions are met: (L)

(Cont'd.) (1) the customer's fuel cell electric generation facility was installed (and approved for interconnection by PG&E); and (2) the electric generation facility reduces the customer's maximum demand to the point that the customer would no longer be eligible for service under this schedule. The Generation Demand Adjustment will be the fixed reduction in demand as determined by PG&E from the customer's interconnection agreement, and will be added to the customer's maximum demand for the sole purpose of determining the customer's eligibility for Schedule B-20.

The Generation Demand Adjustment does not specifically guarantee the customer's continued eligibility for service under this schedule nor will it be applied to the customer's maximum demand for purposes of calculating the monthly maximum demand charge.

**Option S for Storage:** The Option S rate for storage is available to qualifying Bundled, DA and CCA service under Schedule B-20 customers with storage systems with a rated capacity in watts which is at least 10% of the customer's peak demand over the previous 12 months. Option S is available subject to an enrollment cap. For additional Option S details and program specifics, see Sections 3 and 18.

**Peak Day Pricing Default Rates:** Peak Day Pricing (PDP) rates provide customers the opportunity to manage their electric costs by reducing load during high cost periods or shifting load from high cost periods to lower cost periods. Decision 10-02-032 ordered that beginning May 1, 2010, eligible large Commercial and Industrial (C&I) customers default to PDP rates. A customer is eligible for default when 1) it has at least twelve (12) months of hourly usage data available, and 2) it has measured demands equal to or exceeding 200 kW for three (3) consecutive months during the past 12 months. All eligible customers will be placed on PDP rates unless they opt-out to a TOU rate.

Decision 10-02-032, as modified by Decision 11-11-008, ordered that beginning November 1, 2014, eligible small and medium C&I customers (those with demands that are not equal to or greater than 200 kW for three consecutive months) default to PDP rates. A customer is eligible for default when it has at least twelve (12) billing months of hourly usage data available and two years of experience on TOU rates. All eligible customers will be placed on PDP rates unless they opt-out to a TOU rate. Customers with a SmartMeter™ system, or interval meter, installed that can be remotely read by PG&E may also voluntarily elect to enroll on PDP rates.

Bundled service customers are eligible for PDP. Direct Access (DA) and Community Choice Aggregation (CCA) service customers are not eligible, including those DA customers on transitional bundled service (TBS). Customers on standby service (Schedule SB) whose premises are regularly supplied in full by electric energy from a nonutility source of supply, net-energy metering Schedules NEMFC, NEMBIO, NEMCCSF, or NEMA, or an energy payment demand response program are not eligible for PDP. Customers that take standby service whose premises are regularly supplied in part (but not in full) by electric energy from a nonutility source of supply are eligible for PDP on the non-standby portion of their service. In addition, master-metered customers are not eligible, except for commercial buildings with submetering as stated in PG&E Rule 1 and Rule 18.

For additional details and program specifics, see the Peak Day Pricing Details section below.

2. TERRITORY: Schedule B-20 applies everywhere PG&E provides electric service.

(Continued)



**ELECTRIC SCHEDULE B-20**  
**SERVICE TO CUSTOMERS WITH MAXIMUM**  
**DEMANDS of 1000 KILOWATTS or MORE**

Sheet 18

16. Option R The Option R rate is available to qualifying customers with eligible technologies as described in the applicability section of this tariff. Across all applicable rate schedules, Option R participation is capped at 600 MW of generating or storage discharge capacity. Eligible Permanent Load Shift (PLS) technologies are not subject to this cap. (T)

For eligible stand-alone storage, the qualifying capacity counted towards the Option R cap is the discharge capacity of the storage system or systems, calculating using the same method as is used for Option S. (N)

For eligible renewable technologies, the qualifying capacity counted towards the Option R participation cap is based on net renewable generating capacity (i.e., the amount of power actually delivered by the generator or generators net of any losses such as auxiliary loads, thermal management loads, etc.).

For paired storage systems, the qualifying capacity counted towards the Option R cap is the larger of the system's California Energy Commission (CEC) alternating current (AC) solar capacity or the discharge capacity of the storage system calculated using the same method as that used for Option S (but not both). No Benefiting\* or Aggregated\* account is eligible for Option R unless there is an eligible technology interconnected at that account that independently meets the Option R minimum size requirements relative to peak load, as described in the applicability section of this tariff. (N)

\* Benefiting and Aggregated accounts are defined in rate schedules that allows for such accounts for example, NEM2, RES-BCT and other tariffs. (D)

(Continued)



**ELECTRIC SCHEDULE E-19**  
MEDIUM GENERAL DEMAND-METERED TOU SERVICE

Sheet 4

1. APPLICABILITY:  
(Cont'd.)

**Definition of Maximum Demand:** Demand will be averaged over 15-minute intervals for customers whose maximum demand exceeds 499 kW. "Maximum demand" will be the highest of all the 15-minute averages for the billing month. If the customer's use of electricity is intermittent or subject to severe fluctuations, a 5-minute interval may be used. If the customer has any welding machines, the diversified resistance welder load, calculated in accordance with Section J of Rule 2, will be considered the maximum demand if it exceeds the maximum demand that results from averaging the demand over 15-minute intervals. The customer's maximum-peak-period demand will be the highest of all the 15-minute averages for the peak period during the billing month. (See Section 6 for a definition of "Peak-Period.") See Section 14 for the definition of maximum demand for customers voluntarily selecting E-19.

**Option R for Standalone Storage:** The Option R rate is available to qualifying customers taking Bundled, DA or CCA service under Schedule E-19, or voluntary E-19. Eligible customers system must have a minimum discharge capacity equal to or greater than 20 percent of the customer's annual peak demand, as recorded over the previous 12 months to be eligible for Option R. Discharge capacity for Option R will be calculated using the same method as that used for Option S. For additional Option R details and program specifics, including the participation cap, see Sections 3 and 18. (T)

**Option R for Renewable Distributed Generation Technologies:** The Option R rate is available to qualifying customers taking Bundled, DA or CCA service under Schedule E-19, or voluntary E-19. Eligible customers system with solar, wind, fuel cells or other eligible onsite renewable distributed generation technologies as defined by the California Solar Initiative program (CSI) or Self Generation Incentive Program (SGIP), customers with behind-the-meter storage paired with such renewable distributed generation, and Permanent Load Shifting (PLS) technologies. Eligible renewable generation systems and PLS systems must have a net renewable generating capacity or load shift capacity equal to or greater than 15 percent of the customer's annual peak demand, as recorded over the previous 12 months. For additional Option R details and program specifics, including the participation cap, see Sections 3 and 18. (N)

**Standby Demand:** For customers for whom Schedule S—Standby Service Special Conditions 1 through 6 apply, standby demand is the portion of a customer's maximum demand in any month caused by nonoperation of the customer's alternate source of power, and for which a demand charge is paid under the regular service schedule.

If the customer imposes standby demand in any month, then the regular service maximum demand charge will be reduced by the applicable reservation capacity charge (see Schedule S Special Condition 1).

To qualify for the above reduction in the maximum demand charge, the customer must, within 30 days of the regular meter-read date, demonstrate to the satisfaction of PG&E the amount of standby demand in any month. This may be done by submitting to PG&E a completed Electric Standby Service Log Sheet (Form 79-726).

2. TERRITORY: This rate schedule applies everywhere PG&E provides electricity service.

(Continued)



**ELECTRIC SCHEDULE E-19**  
MEDIUM GENERAL DEMAND-METERED TOU SERVICE

Sheet 19

18. Option R The Option R rate is available to qualifying customers with eligible technologies as described in the applicability section of this tariff. Across all applicable rate schedules, Option R participation is capped at 600 MW of generating or storage discharge capacity. Eligible Permanent Load Shift (PLS) technologies are not subject to this cap. (T)

For eligible stand-alone storage, the qualifying capacity counted towards the Option R cap is the discharge capacity of the storage system or systems, calculating using the same method as is used for Option S. (N)

For eligible renewable technologies, the qualifying capacity counted towards the Option R participation cap is based on net renewable generating capacity (i.e., the amount of power actually delivered by the generator or generators net of any losses such as auxiliary loads, thermal management loads, etc.).

For paired storage systems, the qualifying capacity counted towards the Option R cap is the larger of the system's California Energy Commission (CEC) alternating current (AC) solar capacity or the discharge capacity of the storage system calculated using the same method as that used for Option S (but not both). No Benefitting\* or Aggregated\* account is eligible for Option R unless there is an eligible technology interconnected at that account that independently meets the Option R minimum size requirements relative to peak load, as described in the applicability section of this tariff. (T)

\* Benefiting and Aggregated accounts are defined in rate schedules that allows for such accounts for example, NEM2, RES-BCT and other tariffs.

(Continued)



**ELECTRIC SCHEDULE E-20**  
**SERVICE TO CUSTOMERS WITH MAXIMUM**  
**DEMANDS of 1000 KILOWATTS or MORE**

Sheet 4

1. APPLICABILITY: **Option R for Standalone Storage:** The Option R rate is available to qualifying customers taking Bundled, DA and CCA service under Schedule E-20. Eligible customers system must have a minimum discharge capacity equal to or greater than 20 percent of the customer's annual peak demand, as recorded over the previous 12 months to be eligible for Option R. Discharge capacity for Option R will be calculated using the same method as that used for Option S. For additional Option R details and program specifics, see Sections 3 and 16. (T)
- Option R for Renewable Distributed Generation Technologies:** The Option R rate is available to qualifying customers taking Bundled, DA or CCA service under Schedule E-20. Eligible customers system with solar, wind, fuel cells or other eligible onsite renewable distributed generation technologies as defined by the California Solar Initiative program (CSI, or Self Generation Incentive Program (SGIP), customers with behind-the-meter storage paired with such renewable distributed generation and Permanent Load Shifting (PLS) technologies. Eligible renewable generation systems and PLS systems must have a net renewable generating capacity or load shift capacity equal to or greater than 15 percent of the customer's annual peak demand, as recorded over the previous 12 months. For additional Option R details and program specifics, including the participation cap, see Sections 3 and 16. (T)
2. TERRITORY: Schedule E-20 applies everywhere PG&E provides electric service.
3. RATES: Total bundled service charges are calculated using the total rates shown below. DA and CCA charges shall be calculated in accordance with the paragraph in this rate schedule titled Billing

**TOTAL RATES**

	Secondary Voltage	Primary Voltage	Transmission Voltage
<u>Total Customer/Meter Charge Rates</u>			
Customer Charge Mandatory E-20 (\$ per meter per day)	\$53.72582	\$53.45785	\$36.57149
<u>Total Demand Rates (\$ per kW)</u>			
Maximum Peak Demand Summer	\$17.06	\$17.11	\$15.02
Maximum Part-Peak Demand Summer	\$13.90	\$14.56	\$15.02
Maximum Demand Summer	\$28.61	\$26.15	\$13.55
Maximum Part-Peak Demand Winter	\$0.00	\$0.00	\$0.00
Maximum Demand Winter	\$28.61	\$26.15	\$13.55
<u>Total Energy Rates (\$ per kWh)</u>			
Peak Summer	\$0.13402	\$0.12932	\$0.11401
Part-Peak Summer	\$0.13402	\$0.12932	\$0.11401
Off-Peak Summer	\$0.12810	\$0.12356	\$0.10834
Part-Peak Winter	\$0.12551	\$0.12109	\$0.10591
Off-Peak Winter	\$0.12480	\$0.12042	\$0.10525
<b>Power Factor Adjustment Rate (\$/kWh/%)</b>	\$0.00005	\$0.00005	\$0.00005

(Continued)



## **Attachment 2**

### **Redline Tariffs**



**ELECTRIC SCHEDULE B-19**  
MEDIUM GENERAL DEMAND-METERED TOU SERVICE

Sheet 2

1. APPLICABILITY: **Assignment of New Customers:** If a customer is new and PG&E believes that the customer’s maximum demand will be 500 through 999 kilowatts and that the customer should not be served under a time of use agricultural schedule, PG&E will serve the customer’s account under Mandatory Schedule B-19.

(Cont’d.)

**Definition of Maximum Demand:** Demand will be averaged over 15-minute intervals for customers whose maximum demand exceeds 499 kW. “Maximum demand” will be the highest of all the 15-minute averages for the billing month. If the customer’s use of electricity is intermittent or subject to severe fluctuations, a 5-minute interval may be used. If the customer has any welding machines, the diversified resistance welder load, calculated in accordance with Section J of Rule 2, will be considered the maximum demand if it exceeds the maximum demand that results from averaging the demand over 15-minute intervals. The customer’s maximum-peak-period demand will be the highest of all the 15-minute averages for the peak period during the billing month. (See Section 6 for a definition of “Peak-Period.”) See Section 13 for the definition of maximum demand for customers voluntarily selecting B-19.

**Option R for Standalone Solar:** The Option R rate is available to qualifying customers taking Bundled, Direct Access (DA) or Community Choice Aggregation (CCA) service under Schedule B-19, or voluntary B-19. Eligible customers ~~system must have a minimum discharge capacity equal to or greater than 20 percent of the customer’s annual peak demand, as recorded over the previous 12 months to be eligible for Option R. Discharge capacity for Option R will be calculated using the same method as that used for Option S. system must have a minimum discharge capacity equal to or greater than 20 percent of the customer’s annual peak demand, as recorded over the previous 12 months to be eligible for Option R. Discharge capacity for Option R will be calculated using the same method as that used for Option S. For additional Option R details and program specifics, including the participation cap, see Sections 3 and 18.~~

**Option R for Renewable Distributed Generation Technologies:** The Option R rate is available to qualifying customers taking Bundled, DA or CCA service under Schedule B-19, or voluntary B-19. Eligible customers ~~system with solar, wind, fuel cells or other eligible onsite renewable distributed generation technologies as defined by the California Solar Initiative program (CSI) or Self Generation Incentive Program (SGIP), customers with behind-the-meter storage paired with such renewable distributed generation, and Permanent Load Shifting (PLS) technologies. Eligible renewable generation systems and PLS systems must have a net renewable generating capacity or load shift capacity equal to or greater than 15 percent of the customer’s annual peak demand, as recorded over the previous 12 months. For additional Option R details and program specifics, including the participation cap, see Sections 3 and 18.~~

**Option S for Storage:** The Option S rate for storage is available to qualifying customers taking Bundled, DA or CCA service under Schedule B-19 or voluntary B-19. Eligible customers must have storage systems with rated capacity in watts which is at least 10% of the customer’s peak demand over the previous 12 months. Option S is available subject to an enrollment cap. For additional Option S details and program specifics see Sections 3 and 20.

**Standby Demand:** For customers served under this rate schedule and for whom Schedule SB—Standby Service Special Conditions 1 through 6 apply, standby demand is the portion of a customer’s maximum demand in any month caused by nonoperation of the customer’s alternate source of power, and for which a demand

(Continued)



**ELECTRIC SCHEDULE B-19**  
MEDIUM GENERAL DEMAND-METERED TOU SERVICE

Sheet 2

charge is paid under the regular service schedule.

If the customer imposes standby demand in any month, then the regular service maximum demand charge will be reduced by the applicable reservation capacity charge (see Schedule SB Special Condition 1).

To qualify for the above reduction in the maximum demand charge, the customer must, within 30 days of the regular meter-read date, demonstrate to the satisfaction of PG&E the amount of standby demand in any month. This may be done by submitting to PG&E a completed Electric Standby Service Log Sheet (Form 79-726).

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(Continued)

Advice Decision 6090-E-A

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

Submitted Effective Resolution February 26, 2021  
March 1, 2021



**ELECTRIC SCHEDULE B-19**  
**MEDIUM GENERAL DEMAND-METERED TOU SERVICE**

Sheet 19

18. Option R

The Option R rate is available to qualifying customers with eligible technologies as described in the applicability section of this tariff. Across all applicable rate schedules, Option R participation is capped at 600 MW of generating or storage discharge capacity. Eligible Permanent Load Shift (PLS) technologies are not subject to this cap.

For eligible stand-alone storage, the qualifying capacity counted towards the Option R cap is the discharge capacity of the storage system or systems, calculating using the same method as is used for Option S.

For eligible renewable technologies, the qualifying capacity counted towards the Option R participation cap is based on net renewable generating capacity (i.e., the amount of power actually delivered by the generator or generators net of any losses such as auxiliary loads, thermal management loads, etc.).

For paired storage systems, the qualifying capacity counted towards the Option R cap is the larger of the system's California Energy Commission (CEC) alternating current (AC) solar capacity or the discharge capacity of the storage system calculated using the same method as that used for Option S (but not both). No Benefitting\* or Aggregated\* account is eligible for Option R unless there is an eligible technology interconnected at that account that independently meets the Option R minimum size requirements relative to peak load, as described in the applicability section of this tariff.

~~PV systems that provide 15% or more of their annual electricity usage<sup>1</sup> as described below. No Benefitting\* or Aggregated\* account is eligible for Option R unless there is PV interconnected at that account that independently meets the requirements of Option R. i.e., the PV interconnected on that account meets 15% of the load at that account.~~

~~Customers:~~

- ~~a) Installing a new PV system with no existing generation or with existing non-PV generation; or~~
- ~~b) With existing PV and non-PV generation (as an existing NEMMT)~~

~~Must meet the following eligibility requirement:~~

$$\frac{\text{Annual PV system output}^2}{\text{Annual electricity usage}^1} \geq 15\%$$

~~Customers:~~

- ~~a) With an existing PV system, that are installing new PV system~~
- ~~b) Adding new solar to existing PV and Non-PV generation~~

~~Must meet the following eligibility requirement:~~

$$\frac{\text{Annual PV system (new + existing) output}^2}{\text{Annual PV system (new + existing) output}^2 + \text{Annual electricity usage}^1} \geq 15\%$$

\* Benefiting and Aggregated accounts are defined in rate schedules that allows for such accounts for example, NEM2, RES-BCT and other tariffs.

<sup>1</sup> Annual electricity usage (kWh): for customers with no generation will be the most recent usage over twelve billing periods, and for customers with existing generation it will be the net of imports and exports (if any, for all generators), measured at the PG&E meter over the most recent 12 billing periods. In cases where the most recent 12-month usage is not available PG&E will offer an alternate

(Continued)



**ELECTRIC SCHEDULE B-19**  
**MEDIUM GENERAL DEMAND-METERED TOU SERVICE**

Sheet 19

method.

~~2—Annual PV system Output (kWh) = CEC<sub>AC</sub> rating of the panels (kW) x 8760 hours/year x 18% capacity factor where:~~

$$\begin{array}{l} \text{CEC}_{AC}\text{-Rating} \\ \text{of the} \\ \text{panels} \\ \text{(kW)} \end{array} = \frac{(\text{Quantity of PV Modules (W)} \times \text{PTC Rating of PV Modules} \times \text{CEC Inverter Efficiency Rating})}{1000}$$

~~Where the PTC and CEC inverter Efficiency Rating can be found at:~~

~~The PTC rating can be found here:~~

~~<https://www.energy.ca.gov/programs-and-topics/topics/renewable-energy/solar-equipment-lists>~~

~~The above Annual PV System Output formula can be modified based on the following alternatives:~~

- ~~a) For customers with existing PV system, the customer may choose to supply PG&E with reliable metered data measuring Annual PV system Output, if such data is available.~~
- ~~b) Customers with trackers can use the alternate capacity factors of:~~

<del>Have single axis</del>	<del>24%</del>
<del>Have dual axis</del>	<del>24%</del>

(L)

(Continued)



**ELECTRIC SCHEDULE B-20**  
SERVICE TO CUSTOMERS WITH MAXIMUM  
DEMANDS of 1000 KILOWATTS or MORE

Sheet 2

1. APPLICABILITY: **Definition of Maximum Demand:** Demand will be averaged over 15-minute intervals. (Cont'd.) "Maximum demand" will be the highest of all the 15-minute averages for the billing month. If the customer's use of electricity is intermittent or subject to severe fluctuations, a 5-minute interval may be used. If the customer has any welding machines, the diversified resistance welder load, calculated in accordance with Section J of Rule 2, will be considered the maximum demand if it exceeds the maximum demand that results from averaging the demand over 15-minute intervals. The customer's maximum-peak-period demand will be the highest of all the 15-minute averages for the peak period during the billing month. (See Section 6 for a definition of "Peak-Period.")

**Standby Demand:** For customers under this rate schedule and for whom Schedule SB—Standby Service Special Conditions 1 through 6 apply, standby demand is the portion of a customer's maximum demand in any month caused by nonoperation of the customer's alternate source of power, and for which a demand charge is paid under the regular service schedule.

If the customer imposes standby demand in any month, then the regular service maximum demand charge will be reduced by the applicable reservation capacity charge (see Schedule SB Special Condition 1).

To qualify for the above reduction in the maximum demand charge, the customer must, within 30 days of the regular meter read date, demonstrate to the satisfaction of PG&E the amount of standby demand in any month. This may be done by submitting to PG&E a completed Electric Standby Service Long Sheet (Form 79-726).

**Option R for Standalone Solar:** The Option R rate is available to qualifying Bundled, DA and CCA B-20 customers Eligible customers system must have a minimum discharge capacity equal to or greater than 20 percent of the customer's annual peak demand, as recorded over the previous 12 months to be eligible for Option R. Discharge capacity for Option R will be calculated using the same method as that used for Option S. For additional Option R details and program specifics, including the participation cap, see Sections 3 and 16; with solar photovoltaic (PV) systems that provide 15% or more of their annual electricity usage. For additional Option R details and program specifics, see Sections 3 and 16.

**Option R for Renewable Distributed Generation Technologies:** The Option R rate is available to qualifying customers taking Bundled, DA or CCA service under Schedule B-20. Eligible customers system with solar, wind, fuel cells or other eligible onsite renewable distributed generation technologies as defined by the California Solar Initiative program (CSI) or Self Generation Incentive Program (SGIP), customers with behind-the-meter storage paired with such renewable distributed generation, and Permanent Load Shifting (PLS) technologies. Eligible renewable generation systems and PLS systems must have a net renewable generating capacity or load shift capacity equal to or greater than 15 percent of the customer's annual peak demand, as recorded over the previous 12 months. For additional Option R details and program specifics, including the participation cap, see Sections 3 and 16.

**Fuel Cell Generation Demand Adjustment:** A customer who installs a fuel cell electric generation facility may be eligible to receive a Generation Demand Adjustment. A customer will qualify for a Generation Demand Adjustment if both of the following conditions are met: (1) the customer's fuel cell electric generation facility was installed (and approved for interconnection by PG&E); and (2) the electric generation facility reduces the customer's maximum demand to the point that the customer would no longer be eligible for service

(Continued)



**ELECTRIC SCHEDULE B-20**  
SERVICE TO CUSTOMERS WITH MAXIMUM  
DEMANDS of 1000 KILOWATTS or MORE

Sheet 2

under this schedule. The Generation Demand Adjustment will be the fixed reduction in demand as determined by PG&E from the customer's interconnection agreement, and will be added to the customer's maximum demand for the sole purpose of determining the customer's eligibility for Schedule B-20.

The Generation Demand Adjustment does not specifically guarantee the customer's continued eligibility for service under this schedule nor will it be applied to the customer's maximum demand for purposes of calculating the monthly maximum demand charge.

**Option S for Storage:** The Option S rate for storage is available to qualifying Bundled, DA and CCA service under Schedule B-20 customers with storage systems with a rated capacity in watts which is at least 10% of the customer's peak demand over the previous 12 months. Option S is available subject to an enrollment cap. For additional Option S details and program specifics, sett Sections 3 and 18.

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Advice 6090-E-A  
Decision

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

Submitted February 26, 2021  
Effective March 1, 2021  
Resolution



**ELECTRIC SCHEDULE B-20**  
SERVICE TO CUSTOMERS WITH MAXIMUM  
DEMANDS of 1000 KILOWATTS or MORE

Sheet 18

16. Option R

The Option R rate is available to qualifying customers with eligible technologies as described in the applicability section of this tariff. Across all applicable rate schedules, Option R participation is capped at 600 MW of generating or storage discharge capacity. Eligible Permanent Load Shift (PLS) technologies are not subject to this cap.

(L)

~~PV systems that provide 15% or more of their annual electricity usage<sup>1</sup> as described below. No Benefitting\* or Aggregated\* account is eligible for Option R unless there is PV interconnected at that account that independently meets the requirements of Option R. i.e., the PV interconnected on that account meets 15% of the load at that account.~~

For eligible stand-alone storage, the qualifying capacity counted towards the Option R cap is the discharge capacity of the storage system or systems, calculating using the same method as is used for Option S.

For eligible renewable technologies, the qualifying capacity counted towards the Option R participation cap is based on net renewable generating capacity (i.e., the amount of power actually delivered by the generator or generators net of any losses such as auxiliary loads, thermal management loads, etc.).

For paired storage systems, the qualifying capacity counted towards the Option R cap is the larger of the system's California Energy Commission (CEC) alternating current (AC) solar capacity or the discharge capacity of the storage system calculated using the same method as that used for Option S (but not both). No Benefitting\* or Aggregated\* account is eligible for Option R unless there is an eligible technology interconnected at that account that independently meets the Option R minimum size requirements relative to peak load, as described in the applicability section of this tariff.

~~Customers:~~

- ~~a) Installing a new PV system with no existing generation or with existing non-PV generation; or~~
  - ~~a) With existing PV and non-PV generation (as an existing NEMMT)~~
- ~~Must meet the following eligibility requirement:~~

$$\frac{\text{Annual PV system output}^2}{\text{Annual electricity usage}^1} \geq 15\%$$

~~Customers:~~

- ~~a) With an existing PV system, that are installing new PV system~~
  - ~~a) Adding new solar to existing PV and Non-PV generation~~
- ~~Must meet the following eligibility requirement:~~

$$\frac{\text{Annual PV system (new + existing) output}^2}{\text{Annual PV system (new + existing) output}^2 + \text{Annual electricity usage}^1} \geq 15\%$$

\* Benefiting and Aggregated accounts are defined in rate schedules that allows for such accounts for example, NEM2, RES-BCT and other tariffs.

(Continued)



**ELECTRIC SCHEDULE B-20**  
SERVICE TO CUSTOMERS WITH MAXIMUM DEMANDS of 1000 KILOWATTS or MORE

Sheet 18

~~1 Annual electricity usage (kWh): for customers with no generation will be the most recent usage over twelve billing periods, and for customers with existing generation it will be the net of imports and exports (if any, for all generators), measured at the PG&E meter over the most recent 12 billing periods. In cases where the most recent 12 month usage is not available PG&E will offer an alternate method.~~

~~2 Annual PV system Output (kWh) = CEC<sub>AC</sub> rating of the panels (kW) x 8760 hours/year x 18% capacity factor where:~~

$$\text{CEC}_{AC} \text{ Rating of the panels (kW)} = \frac{(\text{Quantity of PV Modules (W)} \times \text{PTC Rating of PV Modules} \times \text{CEC Inverter Efficiency Rating})}{1000}$$

~~Where the PTC and CEC inverter Efficiency Rating can be found at:~~

~~<https://www.energy.ca.gov/programs-and-topics/topics/renewable-energy/solar-equipment-lists>~~

~~The above Annual PV System Output formula can be modified based on the following alternatives:~~

~~a) For customers with existing PV system, the customer may choose to supply PG&E with reliable metered data measuring Annual PV system Output, if such data is available.~~

~~a) Customers with trackers can use the alternate capacity factors of:~~

<del>Have single axis</del>	<del>21%</del>
<del>Have dual axis</del>	<del>24%</del>

(L)

(Continued)



**ELECTRIC SCHEDULE E-19**  
**MEDIUM GENERAL DEMAND-METERED TOU SERVICE**

Sheet 4

1. APPLICABILITY:  
(Cont'd.)

**Definition of Maximum Demand:** Demand will be averaged over 15-minute intervals for customers whose maximum demand exceeds 499 kW. "Maximum demand" will be the highest of all the 15-minute averages for the billing month. If the customer's use of electricity is intermittent or subject to severe fluctuations, a 5-minute interval may be used. If the customer has any welding machines, the diversified resistance welder load, calculated in accordance with Section J of Rule 2, will be considered the maximum demand if it exceeds the maximum demand that results from averaging the demand over 15-minute intervals. The customer's maximum-peak-period demand will be the highest of all the 15-minute averages for the peak period during the billing month. (See Section 6 for a definition of "Peak-Period.") See Section 14 for the definition of maximum demand for customers voluntarily selecting E-19.

**Option R for Standalone StorageSolar:** The Option R rate is available to qualifying customers taking Bundled, DA or CCA service under Schedule E-19, or voluntary E-19. Eligible customers system must have a minimum discharge capacity equal to or greater than 20 percent of the customer's annual peak demand, as recorded over the previous 12 months to be eligible for Option R. Discharge capacity for Option R will be calculated using the same method as that used for Option S. must have solar photovoltaic (PV) systems that provide 15% or more of their annual electricity usage. For additional Option R details and program specifics, including the participation cap, see Sections 3 and 2018.

**Option R for Renewable Distributed Generation Technologies:** The Option R rate is available to qualifying customers taking Bundled, DA or CCA service under Schedule E-19, or voluntary E-19. Eligible customers system with solar, wind, fuel cells or other eligible onsite renewable distributed generation technologies as defined by the California Solar Initiative program (CSI) or Self Generation Incentive Program (SGIP), customers with behind-the-meter storage whether it is paired with such renewable distributed generation or it is stand-alone storage, and Permanent Load Shifting (PLS) technologies. Eligible renewable generation systems and PLS systems must have a net renewable generating capacity or load shift capacity equal to or greater than 15 percent of the customer's annual peak demand, as recorded over the previous 12 months. For additional Option R details and program specifics, including the participation cap, see Sections 3 and 18.

For eligible renewable technologies, the qualifying capacity counted towards the 600 MW Option R participation cap is based on net renewable generating capacity (i.e., the amount of power actually delivered by the generator net of any losses such as auxiliary loads, thermal management loads, etc.).

For paired storage systems, the qualifying capacity counted towards the 600 MW Option R cap is the larger of the system's California Energy Commission (CEC) alternating current (AC) solar capacity or the discharge capacity of the discharge storage system (but not both). CEC AC rating for solar can be found at CSI's website.

**Standby Demand:** For customers for whom Schedule S—Standby Service Special Conditions 1 through 6 apply, standby demand is the portion of a customer's maximum demand in any month caused by nonoperation of the customer's alternate source of power, and for which a demand charge is paid under the regular service schedule.

If the customer imposes standby demand in any month, then the regular service maximum demand charge will be reduced by the applicable reservation capacity charge (see Schedule S Special Condition 1).

To qualify for the above reduction in the maximum demand charge, the customer must, within 30 days of the regular meter-read date, demonstrate to the satisfaction of

(Continued)





**ELECTRIC SCHEDULE E-19**  
**MEDIUM GENERAL DEMAND-METERED TOU SERVICE**

Sheet 19

18. Option R The Option R rate is available to qualifying customers with eligible technologies as described in the applicability section of this tariff. Across all applicable rate schedules, Option R participation is capped at 600 MW of generating or storage discharge capacity. Eligible Permanent Load Shift (PLS) technologies are not subject to this cap. (T)/(L)  
(L)

For eligible stand-alone storage, the qualifying capacity counted towards the Option R cap is the discharge capacity of the storage system or systems, calculating using the same method as is used for Option S.

For eligible renewable technologies, the qualifying capacity counted towards the Option R participation cap is based on net renewable generating capacity (i.e., the amount of power actually delivered by the generator or generators net of any losses such as auxiliary loads, thermal management loads, etc.).

For paired storage systems, the qualifying capacity counted towards the Option R cap is the larger of the system's California Energy Commission (CEC) alternating current (AC) solar capacity or the discharge capacity of the storage system calculated using the same method as that used for Option S (but not both). ~~renewable distributed generation technologies as defined by CSI or SGIP, or PV systems that provide 15% or more of their annual electricity usage<sup>1</sup> as described below.~~ No Benefitting\* or Aggregated\* account is eligible for Option R unless there is an eligible technology PV interconnected at that account that independently meets the Option R minimum size requirements relative to peak load, of Option Ras described in the applicability section of this tariff. i.e., the PV interconnected on that account meets 15% of the load at that account.

~~Customers:~~

- ~~a) Installing a new PV system with no existing generation or with existing non-PV generation; or~~
- ~~a) With existing PV and non-PV generation (as an existing NEMMT)~~

~~Must meet the following eligibility requirement:~~

$$\frac{\text{Annual PV system output}_2}{\text{Annual electricity usage}_1} \geq 15\%$$

~~Customers:~~

- ~~a) With an existing PV system, that are installing new PV system~~
- ~~a) Adding new solar to existing PV and Non-PV generation~~

~~Must meet the following eligibility requirement:~~

$$\frac{\text{Annual PV system (new + existing) output}_2}{\text{Annual PV system (new + existing) output}_2 + \text{Annual electricity usage}_1} \geq 15\%$$

(Continued)



**ELECTRIC SCHEDULE E-19**  
**MEDIUM GENERAL DEMAND-METERED TOU SERVICE**

Sheet 19

\* Benefiting and Aggregated accounts are defined in rate schedules that allows for such accounts for example, NEM2, RES-BCT and other tariffs.

~~<sup>1</sup> Annual electricity usage (kWh): for customers with no generation will be the most recent usage over twelve billing periods, and for customers with existing generation it will be the net of imports and exports (if any, for all generators), measured at the PG&E meter over the most recent 12 billing periods. In cases where the most recent 12-month usage is not available PG&E will offer an alternate method.~~

~~<sup>2</sup> Annual PV system Output (kWh) = CEC<sub>AC</sub> rating of the panels (kW) \* 8760 hours/year \* 18% capacity factor where:~~

~~CEC<sub>AC</sub> Rating of the panels (kW) =  
(Quantity of PV Modules (W) x PTC Rating of PV Modules x CEC Inverter Efficiency Rating)~~

~~1000~~

~~Where the PTC and CEC inverter Efficiency Rating can be found at:~~

~~<https://www.energy.ca.gov/programs-and-topics/topics/renewable-energy/solar-equipment-lists>~~

~~The above Annual PV System Output formula can be modified based on the following alternatives:~~

- ~~a) For customers with existing PV system, the customer may choose to supply PG&E with reliable metered data measuring Annual PV system Output, if such data is available.~~
- ~~a) Customers with trackers can use the alternate capacity factors of:~~

<del>Have single axis</del>	<del>21%</del>
<del>Have dual axis</del>	<del>24%</del>

(L)

(Continued)



**ELECTRIC SCHEDULE E-20**  
SERVICE TO CUSTOMERS WITH MAXIMUM DEMANDS of 1000 KILOWATTS or MORE

Sheet 4

1. APPLICABILITY: (Cont'd.) **Option R for Standalone Storage Solar:** The Option R rate is available to qualifying customers taking Bundled, DA and CCA service under Schedule E-20. Eligible customers system must have a minimum discharge capacity equal to or greater than 20 percent of the customer's annual peak demand, as recorded over the previous 12 months to be eligible for Option R. Discharge capacity for Option R will be calculated using the same method as that used for Option S. solar photovoltaic (PV) systems that provide 15% or more of their annual electricity usage. For additional Option R details and program specifics, including the participation cap, see Sections 3 and 16.
- Option R for Renewable Distributed Generation Technologies:** The Option R rate is available to qualifying customers taking Bundled, DA or CCA service under Schedule E-20. Eligible customers system with solar, wind, fuel cells or other eligible onsite renewable distributed generation technologies as defined by the California Solar Initiative program (CSI, or Self Generation Incentive Program (SGIP), customers with behind-the-meter storage paired with such renewable distributed generation and Permanent Load Shifting (PLS) technologies. Eligible renewable generation systems and PLS systems must have a net renewable generating capacity or load shift capacity equal to or greater than 15 percent of the customer's annual peak demand, as recorded over the previous 12 months. For additional Option R details and program specifics, including the participation cap, see Sections 3 and 16.
2. TERRITORY: Schedule E-20 applies everywhere PG&E provides electric service.
3. RATES: Total bundled service charges are calculated using the total rates shown below. DA and CCA charges shall be calculated in accordance with the paragraph in this rate schedule titled Billing

**TOTAL RATES**

	Secondary Voltage	Primary Voltage	Transmission Voltage
<u>Total Customer/Meter Charge Rates</u>			
Customer Charge Mandatory E-20 (\$ per meter per day)	\$53.72582 (l)	\$53.45785 (l)	\$36.57149 (l)
<u>Total Demand Rates (\$ per kW)</u>			
Maximum Peak Demand Summer	\$17.06 (l)	\$17.11 (l)	\$15.02 (l)
Maximum Part-Peak Demand Summer	\$13.90 (l)	\$14.56 (l)	\$15.02 (l)
Maximum Demand Summer	\$28.61 (l)	\$26.15 (l)	\$13.55
Maximum Part-Peak Demand Winter	\$0.00	\$0.00	\$0.00
Maximum Demand Winter	\$28.61 (l)	\$26.15 (l)	\$13.55
<u>Total Energy Rates (\$ per kWh)</u>			
Peak Summer	\$0.13402 (l)	\$0.12932 (l)	\$0.11401 (l)
Part-Peak Summer	\$0.13402 (l)	\$0.12932 (l)	\$0.11401 (l)
Off-Peak Summer	\$0.12810 (l)	\$0.12356 (l)	\$0.10834 (l)
Part-Peak Winter	\$0.12551 (l)	\$0.12109 (l)	\$0.10591 (l)
Off-Peak Winter	\$0.12480 (l)	\$0.12042 (l)	\$0.10525 (l)
<b>Power Factor Adjustment Rate (\$/kWh/%)</b>	\$0.00005	\$0.00005	\$0.00005

(Continued)



**ELECTRIC SCHEDULE E-20**  
SERVICE TO CUSTOMERS WITH MAXIMUM  
DEMANDS of 1000 KILOWATTS or MORE

Sheet 14

16. Option R The Option R rate is available to qualifying customers with eligible technologies as described in the applicability section of this tariff. Across all applicable rate schedules, Option R participation is capped at 600 MW of generating or storage discharge capacity. Eligible Permanent Load Shift (PLS) technologies are not subject to this cap. (T)/(L)  
(L)

~~PV systems that provide 15% or more of their annual electricity usage<sup>1</sup> as described below. No Benefitting\* or Aggregated\* account is eligible for Option R unless there is PV interconnected at that account that independently meets the requirements of Option R. i.e., the PV interconnected on that account meets 15% of the load at that account.~~

~~For eligible stand-alone storage, the qualifying capacity counted towards the Option R cap is the discharge capacity of the storage system or systems, calculating using the same method as is used for Option S.~~

~~For eligible renewable technologies, the qualifying capacity counted towards the Option R participation cap is based on net renewable generating capacity (i.e., the amount of power actually delivered by the generator or generators net of any losses such as auxiliary loads, thermal management loads, etc.).~~

~~For paired storage systems, the qualifying capacity counted towards the Option R cap is the larger of the system's California Energy Commission (CEC) alternating current (AC) solar capacity or the discharge capacity of the storage system calculated using the same method as that used for Option S (but not both). No Benefitting\* or Aggregated\* account is eligible for Option R unless there is an eligible technology interconnected at that account that independently meets the Option R minimum size requirements relative to peak load, as described in the applicability section of this tariff.~~

~~Customers:~~

- ~~a) Installing a new PV system with no existing generation or with existing non-PV generation; or~~
- ~~a) With existing PV and non-PV generation (as an existing NEMMT)~~

~~Must meet the following eligibility requirement:~~

$$\frac{\text{Annual PV system output}_2}{\text{Annual electricity usage}_1} \geq 15\%$$

~~Customers:~~

- ~~a) With an existing PV system, that are installing new PV system~~
- ~~a) Adding new solar to existing PV and Non-PV generation~~

~~Must meet the following eligibility requirement:~~

$$\frac{\text{Annual PV system (new + existing) output}_2}{\text{Annual PV system (new + existing) output}_2 + \text{Annual electricity usage}_1} \geq 15\%$$

\* Benefiting and Aggregated accounts are defined in rate schedules that allows for such accounts for example, NEM2, RES-BCT and other tariffs.

<sup>1</sup> Annual electricity usage (kWh): for customers with no generation will be the most recent usage over twelve billing periods, and for customers with existing generation it will be the net of imports and exports (if any, for all generators), measured at the PG&E meter over the most recent 12 billing periods. In cases where the most recent 12 month usage is not available PG&E will offer an alternate method.

<sup>2</sup> Annual PV system Output (kWh) = CEC<sub>AC</sub> rating of the panels (kW) \* 8760 hours/year \* 18% capacity factor  
-where:

CEC<sub>AC</sub> Rating of the panels (kW) =

(Continued)



**ELECTRIC SCHEDULE E-20**  
SERVICE TO CUSTOMERS WITH MAXIMUM  
DEMANDS of 1000 KILOWATTS or MORE

Sheet 14

~~(Quantity of PV Modules (W) x PTC Rating of PV Modules x CEC Inverter Efficiency Rating)  
1000~~

~~Where the PTC and CEC inverter Efficiency Rating can be found at:  
<https://www.energy.ca.gov/programs-and-topics/topics/renewable-energy/solar-equipment-lists>~~

~~The above Annual PV System Output formula can be modified based on the following alternatives:  
a) For customers with existing PV system, the customer may choose to supply PG&E with reliable metered data measuring Annual PV system Output, if such data is available.  
a) Customers with trackers can use the alternate capacity factors of:~~

Have single axis	21%
Have dual axis	24%

(L)

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

California Hub for Energy Efficiency  
Financing

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

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

Chevron Pipeline and Power  
City of Palo Alto

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

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

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

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

Intertie

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

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

Modesto Irrigation District  
NLine Energy, Inc.  
NRG Solar

OnGrid Solar  
Pacific Gas and Electric Company  
Peninsula Clean Energy

Pioneer Community Energy

Public Advocates Office

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

SPURR  
San Francisco Water Power and Sewer  
Sempra Utilities

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

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