

PUBLIC UTILITIES COMMISSION

505 VAN NESS AVENUE
SAN FRANCISCO, CA 94102-3298



June 16, 2023

Advice Letter 6364-E, 6364-E-A, and 6364-E-B

Sidney Bob Dietz II
Director, Regulatory Relations
Pacific Gas and Electric Company
77 Beale St., Mail Code B13U
P.O. Box 770000
San Francisco, CA 94177

SUBJECT: Proposed Suspension of the Capacity Reservation Component of the Standby Charge for Eligible Microgrid Distributed Technologies Pursuant to Decision 21-07-011

Dear Mr. Dietz:

This disposition letter approves Pacific Gas and Electric Company (PG&E) Advice Letter 6364-E, Advice Letter Supplement 6364-E-A, and Advice Letter Supplement 6364-E-B, effective June 16, 2023. The approved tariff changes to the Standby Service Rate Schedules addressed herein shall be effective 45 days prospectively after receipt of this approved disposition letter that addressed the original and supplemental advice letters.

Attachment 1 contains a discussion of PG&E's Advice Letters, California Clean DG Coalition's Response to the Advice Letters, and staff's determination to approve the Advice Letters.

Please contact Energy Division staff Rosanne Ratkiewich at Rosanne.Ratkiewich@cpuc.ca.gov if you have any questions.

Sincerely,

Handwritten signature of Leuwam Tesfai in black ink, followed by the text "FOR".

Leuwam Tesfai
Deputy Executive Director for Energy and Climate Policy/
Director, Energy Division
California Public Utilities Commission

Cc:

Simon Baker, Director, Office of Distributed Energy Resources, Natural Gas, and Retail Energy Rates; simon.baker@cpuc.ca.gov
Matthew Coldwell, Program Manager, Energy Division; matthew.coldwell@cpuc.ca.gov
Jason Ortego, Program and Project Supervisor, Energy Division; jason.ortego@cpuc.ca.gov
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PG&E Tariffs, PGETariffs@pge.com
Ann Trowbridge for California Clean DG Coalition; atrowbridge@daycartermurphy.com
Energy Division Tariff Unit, EDTariffUnit@cpuc.ca.gov
Service List of R.19-09-009

Attachment 1

Background

This letter approves the disposition of PG&E Advice Letter (AL) 6364-E and PG&E Advice Letter Supplements 6364-E-A and 6364-E-B, effective June 16, 2023. Energy Division grants PG&E an extension of 45 days after this effective date to accomplish implementation.

PG&E timely filed AL 6364-E on October 13, 2021. PG&E requests modifications to its applicable electric standby rate schedules and forms to comply with Decision (D).21-07-011, Ordering Paragraph (OP) 2. Specifically, D.21-07-011 suspended the capacity reservation component of utility standby charges for eligible microgrids that meet California Air Resources Board (CARB) air pollution standards for generation. The Decision limits suspension of the capacity reservation component of the standby charge to specific eligibility and microgrid performance requirements.

The California Clean DG Coalition (CCDC) filed a response to PG&E AL 6364-E on November 2, 2021. CCDC asserts that the wording in PG&E's advice letter is potentially ambiguous with respect to compliance timing. CCDC states that it could be interpreted as requiring customers to recertify compliance with emissions standards semiannually in addition to recertifying compliance with the performance standard, which is inconsistent with D.21-07-011.¹

CCDC requested changes to the PG&E AL to make it consistent with the Decision and the Southern California Edison (SCE) AL. The minor revision would involve changing the word "variability" to "performance" in two places on Sheet 19.

PG&E and SDG&E provided a reply dated November 9, 2021, to the CCDC response of November 2, 2021.² PG&E and SDG&E assert that their ALs conform to the language in OP 2 of D.21-07-011. For instance, they state that OP 2 requires that "the microgrid's generation and storage resources meet the following performance standards" and then identifies two sub-bullet categories, variability and emissions, along with all the semi-annual recertification requirements.

In their reply, PG&E and SDG&E acknowledged that there appears to be a discrepancy between certain language in the dicta and the adopted OP.³ They argued that the question hinges upon whether emissions are merely an eligibility requirement at application, or also an ongoing performance requirement.

Accordingly, PG&E and SDG&E stated that they were working with the CPUC's Energy Division to review the decision and determine the appropriate action. The two utilities indicated that they would submit supplemental ALs to clarify that customers will not be required to semiannually recertify compliance with emissions standards and address the concerns raised by CCDC.⁴

Staff notes that the PG&E AL requested to delay implementation for Standby Reservation Capacity Charge suspension by 120 days after Commission disposition of PG&E AL 6364-E. PG&E states this delay is necessary to develop new internal processes and procedures and modify existing accounting and or billing system procedures. Staff disagrees with the length of this extension request and Staff denies this request because D.21-07-011 did not allow such a delay. Furthermore, more than 636 days have elapsed since D.21-07-011 was issued,

¹ Response of California Clean DG Coalition to Pacific Gas and Electric Company Advice Letter 6364-E dated November 2, 2021, at page 2.

² Reply To Responses On SDG&E Advice Letter 3876-E And PG&E Advice Letter 6364-E Proposing Modifications To Electric Standby Rate Schedules And Forms Pursuant To Decision 21-07-11, dated November 9, 2021.

³ SDG&E PGE Reply To Responses On SDG&E Advice Letter 3876-E And PG&E Advice Letter 6364-E Proposing Modifications To Electric Standby Rate Schedules And Forms Pursuant To Decision 21-07-011 dated November 9, 2021 at page 2.

⁴ SDG&E PGE Reply To Responses On SDG&E Advice Letter 3876-E And PG&E Advice Letter 6364-E Proposing Modifications To Electric Standby Rate Schedules And Forms Pursuant To Decision 21-07-011 dated November 9, 2021 at page 2.

and more than 546 days have already elapsed since the advice letter filing, providing more than adequate time to prepare.

With the exception of the implementation time and the emissions recertification issues, Staff found the proposed actions by SDG&E and PG&E as stated in their November 9, 2021 reply were reasonable, subject to additional discussion between Energy Division and the utilities regarding semi-annual certification. Staff disagreed in part with the utilities' understanding of D.21-07-011 and directed the utilities each to provide a Supplement to the Advice Letter.⁵

Staff requested PG&E to include the following information in its Supplement to PG&E AL 6364-E:

- a) In lieu of the requested 120 days, allow 45 days after the Commission approval for utility implementation.
- b) Define “performance standards” and “emissions standards” using a similar approach as SCE did in SCE AL 4612-E.
- c) Provide by compliance filing to the Energy Division compliance filing electronic mailbox, the annual emissions report received by the customer, under the applicable terms/conditions of the applicable local air district permit.
- d) Add conditions that in the event the annual emissions report shows that customer facilities are not in compliance with the emissions standards required by the local air district permit, suspend the rate schedule, allowing time for the customer to reapply.

Staff further clarified information necessary for the Supplement to the Advice Letter on July 12, 2022, and on December 1, 2022. Staff directed the utilities to provide by periodic compliance filing to the CPUC Energy Division electronic mailbox the following: (1) initial validation of emissions and performance as a baseline, and (2) recurring validation of emissions standards and performance standards (low variability). Staff stated that for administrative ease and consistency, the compliance filings can be submitted based on the schedule that the IOUs proposed.

Staff further clarified the definition and applicability of “bench test” data regarding its use *prior* to commercial operation and that actual real time operating performance data is used *after* commercial operations whether for performance standards or emissions standards validation. Staff provided examples of three optional ways that customers could demonstrate whether the resource continues to meet the emissions standards adopted by the State Air Resources Board on an annual basis. Staff requested the utilities to transmit their respective Supplemental Advice Letters by January 20, 2023.

PG&E transmitted its Supplemental Advice Letter 6364-E-A on January 20, 2023.⁶ In this supplemental filing, PG&E provides the following additional information:

- Change to 45 days in lieu of the requested 120 days, after the Commission approval, for utility implementation.
- Add a definition of “performance standards” and “emissions standards” using a similar approach as PG&E stated in PG&E AL 6364-E.⁷
- Provide by compliance filing to the Energy Division compliance filing electronic mailbox, the annual emissions report received by the customer, under the applicable terms/conditions of the applicable local air district permit.

⁵ Emails dated May 27, 2022; and July 12, 2022; from Joyce Steingass to Danielle Weizman, SDG&E and to Lisa Wan, PG&E.

⁶ PG&E Supplemental Advice Letter 6364-E-A, “Supplemental: Proposed Modifications Suspending the Capacity Reservation Component For Eligible Microgrid Distributed Technologies - Electric Standby Rate Schedules and Forms Pursuant to Decision 21-07-011” dated January 20, 2023.

⁷ Joyce Steingass confirmed the purpose of this statement with PG&E was to conform PG&E's approach with the approach utilized by SCE in AL 4612-E, on February 7, 2023.

- Add conditions that in the event the annual emissions report shows that customer facilities are not in compliance with the emissions standards required by the local air district permit, PG&E will suspend the rate schedule, allowing time for the customer to reapply.

Energy Division staff directed PG&E to transmit Substitute Sheets to adopt consistent language with the other utilities implementing D.21-07-011. Specifically, Staff instructed PG&E to allow the customer to demonstrate compliance with the emissions standards by transmitting a customer attestation “subject to penalty of perjury” and to conform the definition of capacity reservation amount with OP 2 and the other utilities.⁸

PG&E submitted PG&E Supplemental Advice Letter 6364-E-B dated March 16, 2023. Supplemental Advice Letter 6364-E-B seeks to modify the definition of “capacity reservation amount” to conform to OP 2 of D.21-07-011 and to modify the customer’s attestation to state “under penalty of perjury”. PG&E states that this supplement does not change the substance of ALs 6364-E and 6364-E-A except as provided therein.⁹

Staff Analysis

Commission Staff has reviewed PG&E Advice Letter 6364-E, the CCDC Response to the PG&E AL 6364-E, PG&E Response to the CCDC Response; PG&E supplemental Advice Letter 6364-E-A; and second supplemental AL 6364-E-B. Staff verified the utility materials for compliance with OP 2 of D.21-07-011.

Staff finds that the CCDC Response to PG&E AL 6364-E was timely filed in accordance with General Order 96-B. Staff clarified and approved the language regarding the definitions for the performance standards. Staff finds that the issue raised by CCDC regarding ambiguity about recertification of emissions standards has been resolved with the PG&E changes. The issue regarding requirements to meet the Low Variability Microgrid Performance Standards was resolved, where it states that customers can demonstrate compliance with actual real-time operating performance data documenting that the customer’s operation of the Low Variability Microgrid continues to comply with the performance standards and semiannually thereafter.¹⁰

Staff reviewed the Supplemental Advice Letters 6364-E-A and 6364-E-B. The purpose of Staff’s review was to verify that PG&E fully implemented the Staff’s advice regarding implementation of OP 2, particularly regarding the approach used for demonstrating compliance with the emissions criteria. Staff verifies that PG&E added the appropriate subsections to Schedule S Special Condition 16 and Schedule SB Special Condition 15 to implement the eligibility requirements for treatment as a low variability microgrid standby customer. Staff verifies that the performance standards and emissions standards were addressed according to staff’s guidance. Staff verifies that PG&E incorporated into Form No. 79-1219, Schedule S at Sheet 24, Schedule SB at Sheet 21, the appropriate definition for “capacity reservation amount” that is fully aligned with D.21-07-011, as follows:

“The utility shall set the capacity reservation amount at the maximum expected demand in excess of the demand regularly served by the utility based on the best available information. In determining the maximum expected demand, the utility should consider the documentation provided by the customer to satisfy the performance criteria required by this decision.”¹¹

Staff verifies that PG&E implemented the changes to enable the customer attestation to be provided “under penalty of perjury” in Form No. 79-1219, Schedule S at Sheet 23, and Schedule SB at Sheet 20. Staff disagrees with the utility request for an additional 120 days implementation time in its October 13, 2021 advice letter and

⁸ Email of Joyce Steingass to Lisa Wan dated February 22, 2023.

⁹ Advice 6364-E-B, “Second Supplemental: Proposed Modifications Suspending the Capacity Reservation Component For Eligible Microgrid Distributed Technologies - Electric Standby Rate Schedules and Forms Pursuant to Decision 21-07-011”; dated March 16, 2023.

¹⁰ PG&E Schedule S, “Standby Service” submitted Jan 20, 2023; at Sheet 22. PG&E Schedule SB, “Standby Service” submitted January 20, 2023, at sheet 19.

¹¹ D.21-07-011 issued July 16, 2021; at page 47.

denies this request because D.21-07-011 did not allow such a delay. Furthermore, more than 636 days have elapsed since D.21-07-011 was issued, and more than 546 days have already elapsed since the advice letter filing, providing more than adequate time to prepare. In lieu of the requested 120 days, staff agrees to allow 45 days after the effective date of this disposition letter to accomplish implementation.

Staff approves PG&E Advice Letter 6364-E, Supplemental Advice Letter 6364-E-A, and Supplemental Advice Letter 6364-E-B effective June 16, 2023. Staff grants PG&E 45 days after this effective date to accomplish implementation.

October 13, 2021

Advice 6364-E

(Pacific Gas and Electric Company ID U 39 E)

Public Utilities Commission of the State of California

Subject: Modifications to Electric Standby Rate Schedules and Forms Pursuant to Decision 21-07-011

Purpose

Pursuant to Ordering Paragraph (“OP”) 2 of Decision (“D.”) 21-07-011 (“Decision”), Pacific Gas and Electric Company (“PG&E”) hereby seeks modifications to its applicable electric standby rate schedules and forms to comply with the provisions of the Decision.

Background

The California Public Utilities Commission (“Commission” or “CPUC”) initiated Rulemaking (“R.”) 19-09-009 to develop a policy framework surrounding the commercialization of microgrids and related resiliency strategies and to implement Senate Bill (“SB”) 1339 (Stern, 2018).

On February 9, 2021, the Assigned Commissioner issued an Amended Scoping Memo and Ruling for Track 3 of the proceeding. The Amended Scoping Memo and Ruling focused on whether to waive or reduce standby service charges in exchange for the value that microgrids may offer. Parties were directed to file opening and reply comments to a series of questions that were included as an attachment to the Amended Scoping Memo and Ruling.

On July 15, 2021, the Commission adopted D.21-07-011, which suspends the capacity reservation component of utility standby charges for eligible microgrids that meet CARB air pollution standards for generation. The Decision provides that the suspension of the capacity reservation component of the standby charge is limited to specific eligibility and microgrid performance requirements.

The qualifying eligibility requirements include:

- a) technologies that meet the California Air Resources Board’s distributed generation criteria air pollution standards; and

- b) technologies that prove, by manufacturer certification, that they have the capability to operate using cleaner renewable fuels such as, but not limited to, renewable natural gas, biogas, or green hydrogen at the time of application for the suspension; and
- c) a commitment to convert the microgrid to and utilize only, as reasonably practicable, renewable fuels by December 31, 2030. In addition, the suspension of the capacity reservation component of the standby charge is limited to those eligible customers operating under retail tariffs and interconnected under Rule 21 who meet the microgrid performance standards adopted by the Decision.

The microgrid performance requirements include:

- a) have a capacity factor of greater than 85 percent or a self-supply factor of greater than 85 percent; and
- b) have an availability of greater than 95 percent. Additionally, the microgrid customer must certify, to the utility, at the time of interconnection, that the microgrid is designed to meet these performance standards by submitting:
 - i. independently verified, reputable third-party bench test data over a shorter time period that, when extrapolated, would meet the performance standards adopted by the Decision; or
 - ii. actual, real-time operating performance data for substantially similar equipment meeting the performance standards adopted by the Decision.

In addition, the Decision provides the following additional eligibility and/or participation requirements to be eligible for the suspension of the reservation component of standby charges:

- The suspension of the capacity reservation component of the standby charge is limited to those eligible customers operating under retail tariffs and interconnected under Rule 21 who meet the microgrid performance standards adopted by this decision.
- Microgrid customers utilizing technologies that receive payments from the Self Generation Incentive Program (“SGIP”) must demonstrate how the microgrid provides incremental benefits to qualify for the waiver.
- The microgrid customer must recertify semi-annually, to the utility, that the microgrid is maintaining compliance with the performance standard adopted by the Decision.

This advice letter seeks to modify PG&E’s applicable standby tariffs related to the provisions of standby service to comply with the requirements of the Decision. PG&E is taking this opportunity to also include minor cleanup items to the tariffs, as described below.

Tariff Revisions

In compliance with OP 2 of the Decision, PG&E modifies its Standby tariffs as summarized below. The details are shown in the tariff sheets provided as attachments to this advice letter.

1. The following language was added to the Applicability Section of Schedules S and SB:

Customers who operate a microgrid interconnected under Rule 21 and under a retail tariff where the microgrid's generation and storage resources meet certain performance standards (Variability and Emissions), and operational standards (Billing) as described in Special Condition 16/15 are exempt from Standby Reservation Capacity Charges, as directed by the Commission.

2. A new Special Condition 15 was added to Schedule SB and a new Special Condition 16 was added to Schedule S that describe qualification criteria, add definitions for Availability, Capacity Factor, Low Variability Microgrid Standby Customer, Microgrid, Non-Renewable Resources and Self-Supply Factor, and define requirements and method for determining compliance with this provision. Refined the definition of 'Availability' to be more in line with the generally acceptable definition.
3. A new Option 6 was added to PG&E's Form 79-285 for qualified microgrid customers.
4. A new form (Form 79-1219) to enable eligible customers to apply for the Low Variability Microgrid Customer option will need to be added to PG&E's tariff book. The intent of the new form is described in further detail below.
5. Revisions were made to Schedules S, SB and Form 79-285. These revisions are required to update the tariffs and associated Standby agreement, removing provisions that are no longer relevant, due to the sunset of applicable sections of the Public Utilities Code ("PU Code"). Also, a few minor corrections are made to simplify and clarify the use of the tariffs and associated agreement.

Application Process for Eligible Microgrid Customers to Request a Suspension of the Reservation Component of Standby Charges

PG&E developed a new application form for potential eligible microgrid customers to apply for suspension of the reservation component of Schedules S and SB. The application form is provided as an attachment to this advice letter. The applicant will need to complete the application, affirm the information provided is correct, and submit the completed application along with the required documentation to PG&E in order to become eligible as a Low Variability Microgrid Standby Customer.

Semi-Annual Recertification Process

Customers recertifying semi-annually that their microgrid is eligible to continue as a Low Variability Microgrid Standby Customer as required by OP 2 of Decision will need to submit an independent, third-party certification (e.g., certification from a licensed Professional Engineer firm) that the microgrid customer's operation of the microgrid continues to comply with the performance standards set forth in the Decision.¹

Failure to submit semi-annual third-party certification of the microgrid performance standards to PG&E shall result in immediate termination from the standby charge suspension.² A customer terminated as being a Low Variability Microgrid Standby Customer due to failure to submit proper recertification documentation in a timely manner will be eligible to re-apply for suspension of the reservation component of Schedules S and SB no earlier than one year from termination by PG&E.

Customers designated as Low Variability Microgrid Standby Customers' will need to submit the semi-annual third-party certification by January 31st and July 31st each year for the period July-December and January-June, respectively.

Proposed Implementation Timeline

PG&E requests to implement the suspension of the Standby Reservation Capacity Charges and the changes made to its Standby tariffs at least 120 days after the approval of this advice letter. The 120-day implementation period is necessary for PG&E to: (1) establish new internal processes and procedures for determining customer eligibility for the suspension (e.g. update PG&E's customer facing resources, website, *etc.*) for new interconnecting customers and existing microgrid customers, and (2) modify existing accounting and/or billing system processes to appropriately comply with the tracking and reporting requirements prescribed in the Decision and the final disposition of this advice letter.

Other Proposed Revisions to Standby Tariffs and Standby Agreement

PG&E is seeking approval to make revisions in its standby tariff (S and SB) as well as associated standby agreement. These changes include removing from the standby agreement reference to PU Code 353 which was codified on May 1, 2001 by the legislature to facilitate the installation of distributed energy resources to stem the severe and dire energy shortages during the California energy crisis at the start of the millennium. PU Code 353 had a sunset date of June 1, 2011. Even though it remained in PG&E's

¹ In addition to Ordering Paragraph 2, Finding of Fact 13 affirms that "[u]nless a microgrid technology can...meet specified and independently verified microgrid performance standards; and [*omit*] recertify on a semi-annual basis that it continues to meet those microgrid performance standards, it does not provide sufficient value to the system to justify eligibility for suspension of the capacity reservation component of the standby charge."

² Decision, p 29.

standby agreement, it has since been irrelevant. Nonetheless, PG&E representatives have needlessly spent time responding to inquiries regarding this provision that has been sunset for a decade.

PG&E also requests Commission approval to make the following minor changes with the key objective of clarifying the tariff and accordingly reducing inquiries that could be avoided with these simple revisions:

Standby tariff (S and SB):

- Scheduled Maintenance provision in SB is revised to clarify that the maximum demand for the purposes of standby billing shall be determined outside of the agreed scheduled maintenance period. It was implied and not expressly stated.

Standby Agreement (Form 79-285)

- Included kW as an option for customers to specify equipment capacity. This agreement currently specifies kVA which is typically employed for specifying capacities for conventional generators. With the introduction and penetration of inverter-based technologies, typically rated in kW, It is instructive to include both units.
- Item 14 has been added in the terms and conditions specifying agreement effective date. The agreement's effective date is now clearly specified as the date that PG&E and the customer have executed this agreement. It was implied but not expressly stated. PG&E believes clearly specifying the effective date will reduce inquiries regarding contract effective date.

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

Protests

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

Anyone wishing to protest this submittal may do so by letter sent via U.S. mail, facsimile or E-mail, no later than November 2, 2021, which is 20 days after the date of this submittal. Protests must be submitted to:

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

Facsimile: (415) 703-2200
E-mail: EDTariffUnit@cpuc.ca.gov

Copies of protests also should be mailed to the attention of the Director, Energy Division, Room 4004, at the address shown above.

The protest shall also be sent to PG&E either via E-mail or U.S. mail (and by facsimile, if possible) at the address shown below on the same date it is mailed or delivered to the Commission:

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

Facsimile: (415) 973-3582
E-mail: PGETariffs@pge.com

Any person (including individuals, groups, or organizations) may protest or respond to an advice letter (General Order 96-B, Section 7.4). The protest shall contain the following information: specification of the advice letter protested; grounds for the protest; supporting factual information or legal argument; name, telephone number, postal address, and (where appropriate) e-mail address of the protestant; and statement that the protest was sent to the utility no later than the day on which the protest was submitted to the reviewing Industry Division (General Order 96-B, Section 3.11).

Effective Date

Pursuant to General Order (GO) 96-B, Rule 5.2, and OP 2 of D.21-07-011, this advice letter is submitted with a Tier 2 designation. PG&E requests that this Tier 2 advice submittal become effective on regular notice, November 12, 2021, which is 30 calendar days after the date of submittal.

Notice

In accordance with General Order 96-B, Section IV, a copy of this advice letter is being sent electronically and via U.S. mail to parties shown on the attached list and the parties on the service list for R.19-09-009. Address changes to the General Order 96-B service list should be directed to PG&E at email address PGETariffs@pge.com. For changes to any other service list, please contact the Commission's Process Office at (415) 703-2021 or at Process_Office@cpuc.ca.gov. Send all electronic approvals to PGETariffs@pge.com. Advice letter submittals can also be accessed electronically at: <http://www.pge.com/tariffs/>.

/S/

Sidney Bob Dietz II
Director, Regulatory Relations

Attachments:

Attachment 1: Tariffs

Attachment 2: Redline Tariff Revisions

cc: Service List R.19-09-009



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 U39E)

Utility type:

- ELC GAS WATER
 PLC HEAT

Contact Person: Kimberly Loo

Phone #: (415)973-4587

E-mail: PGETariffs@pge.com

E-mail Disposition Notice to: KELM@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) #: 6364-E

Tier Designation: 2

Subject of AL: Modifications to Electric Standby Rate Schedules and Forms Pursuant to Decision 21-07-011

Keywords (choose from CPUC listing): Compliance, Standby Service

AL Type: Monthly Quarterly Annual One-Time Other:

If AL submitted in compliance with a Commission order, indicate relevant Decision/Resolution #: D.21-07-011

Does AL replace a withdrawn or rejected AL? If so, identify the prior AL: No

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

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: 11/12/21

No. of tariff sheets: 24

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

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

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

Tariff schedules affected: See Attachment 1

Service affected and changes proposed¹: N/A

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

¹Discuss in AL if more space is needed.

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

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

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

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

Cal P.U.C. Sheet No.	Title of Sheet	Cancelling Cal P.U.C. Sheet No.
51618-E	Electric Sample Form No. 79-1219 Low Variability Microgrid Standby Customer Application for Standby Waiver Per Special Condition 16 of Schedule S and Special Condition of Schedule SB Sheet 1	
51619-E	Electric Sample Form No. 79-285 Special Agreement for Electrical Standby Service Sheet 1	48685-E
51620-E	ELECTRIC SCHEDULE S STANDBY SERVICE Sheet 3	40245-E
51621-E	ELECTRIC SCHEDULE S STANDBY SERVICE Sheet 6	40248-E
51622-E	ELECTRIC SCHEDULE S STANDBY SERVICE Sheet 19	40261-E
51623-E	ELECTRIC SCHEDULE S STANDBY SERVICE Sheet 20	
51624-E	ELECTRIC SCHEDULE S STANDBY SERVICE Sheet 21	
51625-E	ELECTRIC SCHEDULE S STANDBY SERVICE Sheet 22	
51626-E	ELECTRIC SCHEDULE SB STANDBY SERVICE Sheet 2	45640-E
51627-E	ELECTRIC SCHEDULE SB STANDBY SERVICE Sheet 3	50790-E
51628-E	ELECTRIC SCHEDULE SB STANDBY SERVICE Sheet 6	45644-E
51629-E	ELECTRIC SCHEDULE SB STANDBY SERVICE Sheet 7	45645-E
51630-E	ELECTRIC SCHEDULE SB STANDBY SERVICE Sheet 9	45647-E

Cal P.U.C. Sheet No.	Title of Sheet	Cancelling Cal P.U.C. Sheet No.
51631-E	ELECTRIC SCHEDULE SB STANDBY SERVICE Sheet 12	45650-E
51632-E	ELECTRIC SCHEDULE SB STANDBY SERVICE Sheet 13	45651-E
51633-E	ELECTRIC SCHEDULE SB STANDBY SERVICE Sheet 14	49169-E
51634-E	ELECTRIC SCHEDULE SB STANDBY SERVICE Sheet 15	45653-E
51635-E	ELECTRIC SCHEDULE SB STANDBY SERVICE Sheet 16	45654-E
51636-E	ELECTRIC SCHEDULE SB STANDBY SERVICE Sheet 17	45655-E
51637-E	ELECTRIC SCHEDULE SB STANDBY SERVICE Sheet 18	
51638-E	ELECTRIC SCHEDULE SB STANDBY SERVICE Sheet 19	
51639-E	ELECTRIC TABLE OF CONTENTS Sheet 1	51615-E
51640-E	ELECTRIC TABLE OF CONTENTS Sheet 6	50799-E
51641-E	ELECTRIC TABLE OF CONTENTS Sheet 30	49307-E



Electric Sample Form No. 79-1219

Sheet 1

(N)

Low Variability Microgrid Standby Customer Application for Standby Waiver Per Special Condition 16 of
Schedule S and Special Condition of Schedule SB

(N)

**Please Refer to Attached
Sample Form**

(Continued)

Advice 6364-E
Decision D.21-07-011

Issued by
Robert S. Kenney
Vice President, Regulatory Affairs

Submitted
Effective
Resolution

October 13, 2021



LOW VARIABILITY MICROGRID STANDBY CUSTOMER APPLICATION FOR STANDBY WAIVER PER SPECIAL CONDITION 16 OF SCHEDULE S AND SPECIAL CONDITION 15 OF SCHEDULE SB

Microgrid Customer Name¹: _____

Address:

Street: _____

City/Zip Code: _____

PG&E project ID: _____ and/or

PG&E electric service account #: _____

Microgrid Customer operates a microgrid interconnected under Rule 21 and under one of PG&E's retail tariffs with generation and storage resources that meet the following performance standards, including resources that use natural gas as a fuel, and meets the following operating and emissions criteria:

Operating Criteria:

1. Microgrid has a Capacity Factor² of greater than 85 percent or Self-Supply Factor³ greater than 85 percent and;
2. Availability of the microgrid is greater than 95 percent where Availability is defined as the number of annual hours a resource is able to produce electricity divided by the total hours in a year.

Note: For demonstrating compliance with this **operating criteria**, PG&E accepts credible, publicly available independently verified third-party initial bench test data or actual real-time operational performance data from substantially similar equipment at the time of interconnection application and independent, third-party certification of performance data documenting that the microgrid customers operation of the project continues to comply with the performance standard semi-annually thereafter.

Does the resource comply with BOTH criteria above? Yes _____; No _____. Please attach evidence of compliance.

If 'No' then not qualified for Reservation Capacity suspension.

¹ Low Variability Microgrid Standby Customer definition and eligibility requirements are described in California Public Utilities Commission Decision (D.)D.21-07-011.

² Capacity Factor is defined as the ratio of energy actually produced by a generating unit to the maximum amount of energy it could produce over the course of a year.

³ Self-Supply Factor is defined as the ratio of electricity actually produced by the Customer's Microgrid to the total amount of electricity consumed at the Customer's site, regardless of source, over the course of a year.

† Information collected on this application is handled in accordance with PG&E's Privacy Policy.
The Privacy Policy is available at pge.com/privacy.

LOW VARIABILITY MICROGRID STANDBY CUSTOMER APPLICATION FOR STANDBY WAIVER PER SPECIAL CONDITION 16 OF SCHEDULE S AND SPECIAL CONDITION 15 OF SCHEDULE SB

Emissions Criteria:

1. Each non-Renewable Resource⁴ within a microgrid shall individually comply with the emissions standards adopted by the State Air Resources Board pursuant to the distributed generation certification program requirements of Section 94203 of Title 17 of the California Code of Regulations, or any successor regulation, regardless of if the resource is required to obtain certification, pursuant to the California Air Resources Board (CARB) distributed generation program;

Does the resource comply? Yes _____; No _____. Please attach evidence of compliance⁵.

If 'No' then not qualified for suspension.

2. Each non-Renewable Resource within a microgrid shall have the technical capacity to operate using at least one renewable fuel, such as, but not limited to, renewable natural gas, biogas, and green hydrogen by at the time of application for the suspension.

Does resource operate using at least one renewable fuel? Yes _____; No _____. Please attach evidence of compliance⁶. If 'No' see below.

If "No" then Microgrid Customer must commit at the time of this application to convert to and exclusively use renewable fuels, as reasonably feasible and practicable, by December 31, 2030. Additionally, Microgrid customer must submit the following information to the PG&E on their progress to transitioning to renewable fuels:

- a) status of renewable fuel use by percentage at the time of the report and
- b) activities under way for procurement of renewable fuels for all use by the microgrid by December 31, 2030. **Customer must submit this report to PG&E by January 1, 2025.**

⁴ Non-Renewable Resources are defined as a resource that is not renewable pursuant to the latest version of the California Energy Commission's (CEC's) Renewables Portfolio Standard (RPS) Eligibility Guidebook and the Overall Program Guidebook.

⁵ Evidence of compliance is an independently verified, reputable third-party bench test data meeting the first emissions criteria stated above or certification from CARB.

⁶ Evidence of compliance is the manufacturer's credible documentation of the ability of the equipment to operate using one or more renewable fuels while meeting all applicable performance standards.



LOW VARIABILITY MICROGRID STANDBY CUSTOMER APPLICATION FOR STANDBY WAIVER PER SPECIAL CONDITION 16 OF SCHEDULE S AND SPECIAL CONDITION 15 OF SCHEDULE SB

Demand Assurance Amount

Billing: For any month in which the Low Variability Microgrid Standby Customer's maximum created demand is below the Capacity Reservation Amount (kW), defined below, the Low Variability Microgrid Standby Customer will pay no Standby Reservation Capacity Charge. For any month in which the customer's maximum created demand exceeds the Capacity Reservation Amount, the microgrid customer will pay a Demand Assurance Amount which is defined as two times the Standby Reservation Capacity Charge.

Capacity Reservation Amount for this special condition: This amount equals the mutually agreed upon demand (kW) as measured at the microgrid customer's Meter that represents the load demand (kW) PG&E serves when the microgrid is operating.

Microgrid Customer agrees to the conditions set forth in this application.

Signed: _____

Name: _____

Title: _____

Date: _____



Electric Sample Form No. 79-285
Special Agreement for Electrical Standby Service

Sheet 1

**Please Refer to Attached
Sample Form**



SPECIAL AGREEMENT FOR ELECTRICAL STANDBY SERVICE

DISTRIBUTION

- Customer
- Division
- Tariff Interpretation
- Customer Relations
- Electric Billing Solutions

REFERENCES

QF Log #: _____
 Premises #: _____
 CDx/Acct#: _____

This is an agreement between Pacific Gas and Electric Company (PG&E), a California corporation, and _____ (Customer), a(n) _____ . This agreement will be herein referred to as "Agreement".

Customer has requested PG&E to provide standby service at Customer's premises at _____, County of _____ California, under one of the standby options designated below:

- [] **Option 1 – PG&E Standby Through Non-PG&E Supply Facilities** – Standby service for customers whose supply requirements would otherwise be delivered through PG&E owned facilities (including Independent System Operator controlled transmission facilities), are regularly and completely supplied through facilities not owned by PG&E.

The non-utility owned generating facilities have a total rated capacity of approximately _____ kVA, or _____ kW.

Note: The conventional Generators are typically rated in kVA, where inverter-based technologies (i.e. fuel cell or PV) are rated in kW.

All PG&E power deliveries will be made under Schedule S or Schedule SB -- *Standby Service*.

- [] **Option 2 – PG&E Standby When Service is from Another Utility** – Standby service for customers who regularly take electric service from another public utility but desire PG&E to reserve its generation, transmission or distribution capacity for their use:

Customer currently is supplied regular electric service from another utility's generation, transmission, or distribution system; Customer may be alternately served by PG&E by means of a double-throw switch. Both PG&E and the other utility have consented to this arrangement. Customer's maximum demand from electric equipment on his premises is _____ kW.

All PG&E power deliveries will be made under Schedule S or Schedule SB.

This option is closed to all new customers after January 19, 2001.

- [] **Option 3 – PG&E Standby for Non-Continuous/Irregular PG&E Supply** – Standby service for customers who require PG&E to reserve transmission or distribution capacity and stand ready at all times to deliver electricity on an irregular or non-continuous basis:

Customer has a) a premise which is normally, in part but not in whole, served by non-utility owned generation facilities with a total rated capacity of less than 100 percent of Customer's maximum demand for that premise, or b) a premise which qualifies for back-up service under the provisions of Special Condition 7 of Schedule S or Schedule SB (See Option 4) but chooses not to elect Option 4 or currently lacks the necessary on-site metering to bill Option 4 properly, or c) electrical equipment

† Information collected on this form is used in accordance with PG&E's Privacy Policy. The Privacy Policy is available at pge.com/privacy.

SPECIAL AGREEMENT FOR ELECTRICAL STANDBY SERVICE

which is used on an irregular or non-continuous basis. The total rated capacity of Customer's generation facilities or irregularly utilized equipment is _____ kVA, or _____ kW.

Note: The conventional Generators are typically rated in kVA, where inverter-based technologies (i.e. fuel cell or PV) are rated in kW.

Customer will be billed for all PG&E power deliveries on the otherwise applicable rate schedule; however, Special Conditions 1 through 6 and 8, 9, and 10 of Schedule S or Schedule SB will also apply to Customer's service.

- [] **Option 4 – PG&E Supplemental (Back-up and Maintenance) Standby Service** – Standby service for customers who do not meet the criteria described in Option 1 and 2 above, but elect to receive back-up and maintenance portion of their total standby requirements under the provisions of Special Condition 7 of Schedule S or Schedule SB:

At least 50 percent of Customer's maximum electric demand is served by a non-utility owned generator, and all necessary metering has been installed (by May 1, 1994, or the effective date of the contract) by PG&E to separately measure Customers net on-site generation and on-site load requirements. Customer would otherwise, except for such generation, qualify for service under Schedule E-19 (mandatory), E-20, B-19 or B-20.

Customer will be billed for the back-up and maintenance portion of the premises' total service requirements under the provisions of Special Condition 7 of Schedule S or Schedule SB, and for its ordinary supplemental power requirements (on-site load in excess of the capability of the customer's non-utility owned generation) under the provisions of the otherwise applicable rate schedule. All back-up and maintenance power deliveries by PG&E will be billed in accordance with Schedule S or Schedule SB. The total rated capacity of Customer's generation is _____ kVA.

- [] **Option 5 – PG&E Standby for Station Load Self-Supply** – Standby service for customers, whose supply requirements would otherwise be delivered through PG&E owned facilities (including Independent System Operator controlled transmission facilities), where the customers' Station Power requirements are regularly supplied through generating units in accord with the customer's CAISO-approved Station Power Portfolio (SPP), as described under the provisions of Special Condition 15 of Schedule S or Schedule SB .

- [] **Option 6 -- Low Variability Microgrid Standby Customer** -- A Low Variability Microgrid Standby Customer is a customer who operates a microgrid interconnected under Rule 21 and under a retail tariff where the microgrid's generation and storage resources, including resources that use natural gas as a fuel, meet the Schedule S Special Condition 16 or Schedule SB Special Condition 15 performance standards. The total rated capacity of Customer's generation facilities and/or energy storage facilities is _____ kW. Customer's Capacity Reservation Amount is _____ kW.

SPECIAL AGREEMENT FOR ELECTRICAL STANDBY SERVICE

Terms and Conditions

1. Customer has requested PG&E to stand ready at all times to deliver or supply and deliver electric energy to Customer's premises on an as-needed basis. Such standby service shall be provided to Customer in accordance with and subject to PG&E's applicable rates and rules as established from time to time by, and on file with, the California Public Utilities Commission (Commission).
2. PG&E shall be granted, without cost to it, all necessary rights-of-way and easements, satisfactory to PG&E, in both location and form of document, to establish such service.
3. All necessary service facilities to accommodate Customer's load shall be furnished by PG&E and Customer as specified in electric line extension and service rules or the otherwise appropriate extension agreements. Any necessary extensions and reinforcements of PG&E's distribution and transmission facilities that are furnished by PG&E at Customer's expense in accordance with either a separate line extension or special facilities agreement, in accordance with the applicable tariffs.
4. All facilities furnished by PG&E to provide electric service at all times shall be and remain the property of PG&E notwithstanding that they may be affixed to Customer's property. PG&E may remove such facilities upon termination of the Agreement.
5. During the term of this Agreement, Customer grants to PG&E the right to operate, maintain, replace, and repair PG&E's facilities on Customer's premises necessary to provide standby service hereunder and all rights necessary for access to and from such facilities at all reasonable times.
6. All standby electric service provided shall be _____ phase, 60 hertz, alternating current at an electromotive force of approximately _____ volts. Allowable variations in this frequency and voltage are specified in PG&E's electric Rule 2. The delivery point for PG&E's standby service shall be considered the point where conductors owned, or under license by Customer, contact PG&E's conductors, or as otherwise designated by applicable rules.
7. The initial reserved capacity for standby service shall be _____ kW (Reservation Capacity) and shall be billed monthly at the rate described in the "Rates" section of Schedule S or Schedule SB.

If the Customer is already receiving standby service from PG&E under a preceding contract, that contracted or reserved capacity, or the amount of capacity to which that contract has been subsequently ratcheted, shall automatically become the Customer's Reservation Capacity, until the ratchet period ends unless the Reservation Capacity has been increased in accordance with the preceding paragraph.

8. Customer elects to receive any backup and maintenance service that is to be billed under the provisions of Schedule S or Schedule SB under the following terms: _____ Firm Service Only.
9. If Customer has a generator and wishes to operate that generator in parallel with PG&E's system, Customer must also execute either a power purchase agreement, or parallel operation agreement, or applicable interconnection agreement with PG&E. Interconnection and operation of all non-utility owned generation paralleling with PG&E's system will be treated in accordance with electric Rule 21. Customers may need to meet those requirements as imposed by other governing entities having jurisdiction including the Independent System Operator and the Western Systems Coordinating Council.



SPECIAL AGREEMENT FOR ELECTRICAL STANDBY SERVICE

- 10. Customer shall pay PG&E the monthly charges for the standby service provided hereunder at any established office of PG&E.
- 11. The initial term of this Agreement shall be for a period of one (1) year from the date the standby service under this Agreement is first made available to Customer as such date is established in PG&E's records and shall continue thereafter from year to year. Customer may terminate this Agreement at the expiration of the initial or any subsequent one-year term, or PG&E may terminate this Agreement in accordance with its tariffs, provided that written notice of such termination is given to the other party at least thirty (30) days prior to such termination date.
- 12. Customer may, with PG&E's written consent, assign this Agreement to a subsequent owner of the premises if the assignee will, in writing; agree to perform the obligations of the Agreement.
- 13. This Agreement shall, at all times, be subject to such changes or modifications by the Commission as it may from time to time direct in the exercise of its jurisdiction.
- 14. This Agreement shall be effective upon the date that PG&E and the customer have executed this agreement.

APPROVED:

Customer

Authorized Signature

Print Name

Title

Date

PACIFIC GAS AND ELECTRIC COMPANY

Authorized Signature

Print Name

Title

Date

Mailing Address: _____

Mailing Address: Pacific Gas and Electric Co.
77 Beale St. B8M
San Francisco, CA 94105



**ELECTRIC SCHEDULE S
STANDBY SERVICE**

Sheet 3

APPLICABILITY: Customers who operate a microgrid interconnected under Rule 21 and under a retail tariff where the microgrid's generation and storage resources meet certain performance standards (Variability and Emissions), and operational standards (Billing) as describe in Special Condition 16 qualify for a suspension from Standby Reservation Capacity Charges, as directed by the Commission. (N)

TERRITORY: PG&E's entire service territory.

RATES: Total bundled service charges are calculated using the total rates shown below. Direct Access (DA) and Community Choice Aggregation (CCA) charges shall be calculated in accordance with the paragraph in this rate schedule titled Billing.

DEFINITION OF SERVICE VOLTAGE:

The following defines the three voltage classes of Schedule S rates. Standard Service Voltages are listed in Rule 2*.

- a. Secondary: This is the voltage class if the service voltage is less than 2,400 volts or if the definitions of "primary" and "transmission" do not apply to the service.
- b. Primary: This is the voltage class if the customer is served from a "single customer substation" or without transformation from PG&E's serving distribution system at one of the standard primary voltages specified in PG&E's Electric Rule 2, Section B.1.
- c. Transmission: This is the voltage class if the customer is served without utility transformation at one of the standard transmission voltages specified in PG&E's Electric Rule 2, Section B.1.

The Standby Reservation Charges for customers who have paid for the total cost of the service transformers as special facilities under electric Rule 2 are determined by the voltage at the high side of the service transformer. All other charges will be billed on the voltage level at the low side of the service transformer.

PG&E retains the right to change its line voltage at any time, after reasonable advance notice to any customer affected by the change. The customer then has the option of changing its system to receive service at the new line voltage or accepting service at the initial voltage level through transformers supplied by PG&E.

DEFINITION OF MAXIMUM DEMAND:

The real (kW) and reactive (kVAR) demands billed under this tariff will be averaged over each 15-minute interval. "Maximum demand" (real and reactive) will be the highest 15-minute interval average 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 Rules referred to in this rate schedule are part of PG&E's electric tariffs. Copies are available at PG&E's local offices.

(Continued)



**ELECTRIC SCHEDULE S
STANDBY SERVICE**

Sheet 19

SPECIAL
CONDITIONS:
(Cont'd.)

15. STANDBY SERVICE FOR STATION LOAD SELF-SUPPLY (Cont'd)

i) Definitions: (Cont'd)

Station Power: Energy for operating electric equipment, or portions thereof, located on the generating unit site owned by the same entity that owns the generating unit, which electrical equipment is used exclusively for the production of energy and any useful thermal energy associated with the production of energy by the generating unit; and for the incidental heating, lighting, air conditioning and office equipment needs of buildings, or portions thereof that are owned by the same entity that owns the generating unit; located on the generating unit site; and used exclusively in connection with the production of energy and any useful thermal energy associated with the production of energy by the generating unit. Station Power includes the energy associated with motoring a hydroelectric generating unit to keep the unit synchronized at zero real power output to provide regulation or spinning reserve. Station Power does not include any energy used to power synchronous condensers; used for pumping at a pumped storage facility; or provided during a black start procedure. Station Power does not include energy used to serve loads outside the CAISO-controlled grid.

Station Power Portfolio: One or more generation resources eligible to self-supply Station Power, including generating units in the CAISO control area and generating facilities outside of the CAISO control area, all of which are owned by the same entity.

16. LOW VARIABILITY MICROGRID STANDBY CUSTOMER ELIGIBILITY

(N)

A Low Variability Microgrid Standby Customer is a customer who operates a microgrid interconnected under Electric Rule 21 and under a retail tariff where the microgrid's generation and storage resources meet the following performance standards, including resources that use natural gas as a fuel:

Variability:

- a. Capacity Factor of the microgrid as a whole is greater than 85 percent or Self-Supply Factor of the microgrid as a whole is greater than 85 percent; and
- b. Availability of the microgrid as a whole is greater than 95 percent.

Emissions:

- a. Non-renewable microgrid resources shall each individually comply with the emissions standards adopted by the State Air Resources Board pursuant to the distributed generation certification program requirements of Section 94203 of Title 17 of the California Code of Regulations, or any successor regulation, regardless of if the resource is required to obtain certification, pursuant to the California Air Resources Board (CARB) distributed generation program.

(N)



**ELECTRIC SCHEDULE S
STANDBY SERVICE**

Sheet 20

SPECIAL
CONDITIONS:
(Cont'd.)

16. LOW VARIABILITY MICROGRID STANDBY CUSTOMER ELIGIBILITY
(Cont'd)

(N)

Emissions (Cont'd):

- b. Non-renewable resources have the technical capacity to operate using at least one renewable fuel, such as, but not limited to, renewable natural gas, biogas, and green hydrogen at the time of application for the suspension.
- c. Microgrid customers utilizing non-renewable resources must commit at the time of application for the suspension to converting to and exclusively utilizing renewable fuels, as reasonably feasible and practicable, by December 31, 2030.
- d. Microgrid customers utilizing non-renewable resources must submit the following information to PG&E on their progress to transitioning to renewable fuels: a) status of renewable fuel use by percentage at the time of the report and b) activities under way for procurement of renewable fuels for all use by the microgrid by December 31, 2030. Customers must submit this report to PG&E by January 1, 2025.

The microgrid customer must not have received, or be expected to receive, an incentive payment through the Self-Generation Incentive Program unless it can demonstrate incremental benefit.

Definitions:

- a. Capacity Factor: ratio of energy actually produced by a generating unit to the maximum amount of energy it could produce over the course of a year.
- b. Self-Supply Factor: ratio of electricity actually produced by the customer's microgrid to the total amount of electricity consumed at Customer's site, regardless of source, over the course of a year.
- c. Availability: the number of hours a resource is able to produce electricity or available to produce electricity divided by the total hours in a year.
- d. Non-renewable resources: resources that are not defined as renewable in the latest version of the California Energy Commission's Renewables Portfolio Standard Eligibility Guidebook and the Overall Program Guidebook.

(N)

(Continued)

Advice 6364-E
Decision D.21-07-011

Issued by
Robert S. Kenney
Vice President, Regulatory Affairs

Submitted
Effective
Resolution

October 13, 2021



**ELECTRIC SCHEDULE S
STANDBY SERVICE**

Sheet 21

SPECIAL
CONDITIONS:
(Cont'd.)

16. LOW VARIABILITY MICROGRID STANDBY CUSTOMER ELIGIBILITY
(Cont'd)

(N)

Documentation required for Customer to demonstrate eligibility for treatment as a Low Variability Microgrid Standby Customer, consistent with the following:

- a. The microgrid customer is not required to demonstrate how they would physically separate their system from PG&E's distribution system or reduce load in the event their on-site microgrid generators are unable to serve load and in order to prevent their load from being served by the utility distribution system and avoid overloading the utility system.
- b. For demonstrating compliance with the microgrid performance criteria, Customer may submit independently verified, reputable third-party bench test data over a shorter time period that when extrapolated would meet the performance standards, real-time operating performance data from substantially similar equipment meeting the performance standards, and actual real-time operating performance data documenting that Customer's operation of the microgrid continues to comply with the microgrid performance standards semi-annually thereafter.
- c. For demonstrating compliance with the first emissions criterion, stated above, PG&E must accept independently verified, reputable third-party bench test data meeting the emissions standards or certification from CARB.
- d. For demonstrating compliance with the second emissions criterion stated above, PG&E must accept the manufacturer's credible documentation of the ability of the equipment to operate using one or more renewable fuels while meeting all applicable performance standards.
- e. For demonstrating compliance with the third emissions criterion stated above, language stating the Customer's commitment for its microgrid to use renewable fuel by December 31, 2030, if reasonably practicable and feasible. Customer must submit a progress report to PG&E on their activities to meet this commitment by January 1, 2025.

(N)

(Continued)

Advice 6364-E
Decision D.21-07-011

Issued by
Robert S. Kenney
Vice President, Regulatory Affairs

Submitted
Effective
Resolution

October 13, 2021



**ELECTRIC SCHEDULE S
STANDBY SERVICE**

Sheet 22

SPECIAL
CONDITIONS:
(Cont'd.)

16. **LOW VARIABILITY MICROGRID STANDBY CUSTOMER ELIGIBILITY**
(Cont'd)

(N)

Failure to maintain semi-annual certification of the microgrid performance standards to PG&E shall result in immediate termination from the standby charge suspension.

Agreement: Customers participating in this provision must sign PG&E's Special Agreement for Electrical Standby Service (Form 79-285).

Verification: Information provided by the customer is subject to verification by PG&E. Refusal or failure of a customer to provide eligibility information upon request by PG&E in the form of written approval or certification by PG&E shall delay the provisions of service under Special Condition 15.

Billing: For any month in which the microgrid customer's maximum created demand is below the Capacity Reservation Amount (kW), defined below, the microgrid customer will pay no Standby Reservation Capacity Charge. For any month in which the customer's maximum created demand exceeds the Capacity Reservation Amount, the microgrid customer will pay a Demand Assurance Amount defined as two times the Standby Reservation Capacity Charge.

Capacity Reservation Amount: The Capacity Reservation Amount equals the mutually agreed upon demand (kW) as measured at the microgrid customer's Meter that represents the load demand (kW) PG&E serves when the microgrid is operating.

Metering: PG&E Metering employed to bill the microgrid account under the provisions of this Special Condition, Low Variability Microgrid Standby Customer, will be at a service point behind which the microgrid is formed.

Microgrid customer is required to provide, own, install and maintain all facilities necessary to accommodate any metering equipment specified by PG&E, including but not limited to net generation output metering (NGOM), and data monitoring equipment. Data from these meters shall provide, at a minimum, monthly values to validate calculations for the operating performance requirement of this Schedule S.

(N)



**ELECTRIC SCHEDULE SB
STANDBY SERVICE**

Sheet 2

APPLICABILITY: Customers whose:
(Cont'd.)

- a. premises are supplied only in part by electric energy from a non-utility source of supply, and who do not qualify for or elect to take back-up service under the provisions of Special Condition 7, and/or
- b. regular non-utility source of supply is subject to an extended outage as defined under Special Condition 8,

will receive service under one of PG&E's other applicable rate schedules.

However, this service will be provided subject to the provisions of Special Conditions 1 through 6 and 8 through 9 below, and reservation charges as specified under Section 1 will also be applicable.

Solar customers who are taking service under PG&E's net metering tariffs or who utilize solar generating facilities which are less than or equal to one megawatt to serve load and who do not sell power or make more than incidental export of power into PG&E's power grid are exempt from standby charges. Non-solar customers taking service under one of PG&E net metering schedules may be exempt from standby charges pursuant to PU Code 2827.

For customers with in Front of The Meter (FTM) storage devices who will at any time charge using grid power and require station service, PG&E's Schedule E-STORE also applies. FTM storage applications are where all energy discharged from the storage device, less its station load, is intended for grid export. Existing storage installations with station service requirements must also take charging service under Schedule E-STORE, including pilot storage facilities, storage facilities with only station load, as well as energy storage collocated with another generator within the same service delivery point.

Customers who operate a microgrid interconnected under Rule 21 and under a retail tariff where the microgrid's generation and storage resources meet certain performance standards (Variability and Emissions), and operational standards (Billing) as describe in Special Condition 16 qualify for a suspension from Standby Reservation Capacity Charges, as directed by the Commission.

(N)
|
|
|
(N)

TERRITORY: PG&E's entire service territory.

RATES Total bundled service charges are calculated using the total rates shown below. Direct Access (DA) and Community Choice Aggregation (CCA) charges shall be calculated in accordance with the paragraph in this rate schedule titled Billing.

DEFINITION OF SERVICE VOLTAGE:

The following defines the three voltage classes of Schedule SB rates. Standard Service Voltages are listed in Rule 2*.

- a. Secondary: This is the voltage class if the service voltage is less than 2,400 volts or if the definitions of "primary" and "transmission" do not apply to the service.
- b. Primary: This is the voltage class if the customer is served from a "single customer substation" or without transformation from PG&E's serving distribution system at one of the standard primary voltages specified in PG&E's Electric Rule 2, Section B.1.

(L)

(Continued)



**ELECTRIC SCHEDULE SB
STANDBY SERVICE**

Sheet 3

RATES: (Cont'd) **DEFINITION OF SERVICE VOLTAGE:** (Cont'd)

- c. Transmission: This is the voltage class if the customer is served without utility transformation at one of the standard transmission voltages specified in PG&E's Electric Rule 2, Section B.1. (L)
(L)

The Standby Reservation Charges for customers who have paid for the total cost of the service transformers as special facilities under electric Rule 2 are determined by the voltage at the high side of the service transformer. All other charges will be billed on the voltage level at the low side of the service transformer.

PG&E retains the right to change its line voltage at any time, after reasonable advance notice to any customer affected by the change. The customer then has the option of changing its system to receive service at the new line voltage or accepting service at the initial voltage level through transformers supplied by PG&E.

DEFINITION OF MAXIMUM DEMAND:

The real (kW) and reactive (kVAR) demands billed under this tariff will be averaged over each 15-minute interval. "Maximum demand" (real and reactive) will be the highest 15-minute interval average 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.

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
Total Maximum Reactive Demand Charge (\$ per kVAR)	\$0.35	\$0.35	\$0.35
Total Reservation Charge Rate (\$/kW)			
Reservation Charge (per KW per month applied to 85 percent of the Reservation Capacity)	\$8.67	\$8.67	\$0.87
Total Energy Rates (\$ per kWh)			
Peak Summer	\$0.70740	\$0.70801	\$0.13012
Part-Peak Summer	\$0.37724	\$0.37785	\$0.11866
Off-Peak Summer	\$0.12730	\$0.12791	\$0.10590
Peak Winter	\$0.15275	\$0.15336	\$0.12562
Off-Peak Winter	\$0.12842	\$0.12903	\$0.10709
Super Off-Peak Winter	\$0.08596	\$0.08657	\$0.06475
Power Factor Adjustment Rate (\$/kWh/%)	\$0.00005	\$0.00005	\$0.00005

(Continued)



**ELECTRIC SCHEDULE SB
STANDBY SERVICE**

Sheet 6

RATES:
(Cont'd.)

TYPES OF CHARGES:

The customer's monthly charge for service under Schedule SB is the sum of the Reservation, Energy, Customer, and TOU Meter Charges.

- a. The **Reservation Charge**, in dollars per kilowatt (kW), applies to the customer's Reservation Capacity, as defined in Special Condition 1.
- b. The **Energy Charge** is the sum of Energy Charges from the peak, partial-peak and off-peak periods. The customer pays for energy by the kilowatt-hour (kWh), and rates are differentiated to times of day and time of year.
- c. The **Customer Charge** will be paid monthly by all nonresidential customers. Residential customers will pay a Customer Charge only in months when the Customer Charge exceeds the customer's bill under Schedule SB.
- d. The Customer Charge varies by class of service, Reservation Capacity, and Voltage Level (for customers with Reservation Capacity greater than 499 kW).
- e. The **Load Profile Meter Charge** applies to customers electing to receive the back-up and maintenance portions of their total service requirements under the provisions of Special Condition 7. This charge will be paid in addition to the regular Schedule B-19, or Schedule B-20 monthly customer charge.
- f. The **Demand Assurance Amount** applies to customers who qualify as a Low Variability Microgrid Standby Customer under the provisions of Special Condition 16. The Low Variability Microgrid Standby Customer will pay a Demand Assurance Amount when capacity used in any month exceeds the Capacity Reservation Amount.

(N)
—
(N)
—
(L)
—
(L)

(Continued)



**ELECTRIC SCHEDULE SB
STANDBY SERVICE**

Sheet 7

RATES:
(Cont'd.)

DEFINITION OF TIME PERIODS:

(L)

Times of the year and times of the day are defined as follows:

SUMMER - Service from June 1 through September 30:

Peak:	4:00 p.m. to 9:00 p.m.	Every day, including weekends and holidays
Partial-peak:	2:00 p.m. to 4:00 pm AND 9:00 p.m. to 11:00 p.m.	Every day, including weekends and holidays
Off-peak:	All other Hours.	

WINTER - Service from October 1 through May 31:

Peak:	4:00 p.m. to 9:00 p.m.	Every day, including weekends and holidays
Super Off-Peak	9:00 a.m. to 2:00 p.m.	Every day in March, April and May including weekends and holidays
Off-peak:	All other Hours.	

(L)

RATES:
(Cont'd.)

PHYSICAL ASSURANCE SERVICE:

A distribution-level customer receiving standby service under Schedule SB may elect to execute a contract for Physical Assurance (PG&E Form 79-1050). This contract requires that the customer's load automatically and instantaneously drop in an amount equal to the energy shortfall arising from a reduction in the on-site generator's output. Customers fulfilling the performance requirements of the physical assurance agreement do not pay the Reservation Charge Rate for the amount of capacity designated under the contract for Physical Assurance.

- a. **ELIGIBILITY:** To qualify for Physical Assurance service under Schedule SB, the customer must have an executed contract for Physical Assurance. The contract for physical assurance acts as a rider contract to the customer's existing contract for standby service (PG&E Form Contract, 79-285) and applies to customers who install, or have already installed, on-site generation. Existing standby customers with on-site generators qualify if they meet the conditions set forth in the contract for physical assurance.

If the contract for Physical Assurance is terminated, the customer reverts to billing under its contract for standby service (Form 79-285) provided that it continues to meet the terms of that contract.

(Continued)



**ELECTRIC SCHEDULE SB
STANDBY SERVICE**

Sheet 9

SPECIAL
CONDITIONS:
(Cont'd.)

2. **REACTIVE DEMAND CHARGE:** When the customer's non-utility generation equipment is operated in parallel with PG&E's system, the customer will design and attempt to operate its facilities in such a way that the reactive current requirements of that portion of the customer's load which ordinarily is supplied from the customer's generation is not supplied at any time from PG&E's system. If the customer does place a reactive demand on PG&E's system in any month, the customer's monthly bill will be adjusted as follows:
- a. A monthly Reactive Demand Charge power factor is computed from the ratio of lagging maximum reactive kilovolt-amperes consumed in the month to the Reservation Capacity kilowatts. This power factor is rounded to the nearest whole percent.
 - b. If the calculated monthly Reactive Demand Charge power factor is below 95 percent, the total monthly bill will be increased by the product of the maximum reactive kilovolt-amperes consumed in the month and the Reactive Demand Charge rate.

Those customers are obligated to comply with PG&E switching center voltage orders are exempt from the Reactive Demand Charge, provided that customer is in compliance with all valid PG&E switching center voltage orders. Those customers operating synchronous generators who are not otherwise obligated to comply with PG&E switching center voltage orders may elect to comply with voltage orders on a voluntary basis and thereby receive the same exemption from the Reactive Demand Charge as is received by customers subject to mandatory voltage order obligations. (T)

A customer who is operating under PG&E switching center voltage orders will become exempt from the Reactive Demand Charge after providing PG&E with the following written information:

- a. Notification requesting an exemption including the name, address, and telephone number of the party requesting the exemption;
- b. The location, telephone number, electronic mail address and Fax number of the entity to which PG&E switching center orders are to be transmitted; and
- c. The generator equipment limits for operating voltages and plus and minus VARs.

(Continued)



**ELECTRIC SCHEDULE SB
STANDBY SERVICE**

Sheet 12

SPECIAL
CONDITIONS:
(Cont'd.)

7. SUPPLEMENTAL STANDBY SERVICE (BACKUP REQUIREMENTS):

- a. Schedule B-19 and Schedule B-20 customers whose nonutility source of generation does not regularly supply all the power necessary at their premises may elect to receive the back-up portion of their total service requirement under Schedule SB if the appropriate metering is installed to separately record the net on-site generation and the on-site load. If the customer elects instead to receive all of their service under Schedule B-19 or B-20, however, Special Conditions 1 through 6 of this Schedule will apply to the back-up portion of their load, with a Reservation capacity as determined in accordance with Special Condition 1 of this tariff.
- b. Supplemental standby service requires the installation of a load profile recorder. PG&E will install load profile recorders, subject to meter availability. The customer shall provide, install, own, and maintain all facilities necessary to accommodate metering equipment specified by PG&E. An additional charge applies for Supplemental Standby Service. A Supplemental Standby Service Meter Charge will be added to the standby customer's bill in addition to the TOU Energy Charges for back-up requirements, specified in the Rates Section. Supplemental standby service customers will also pay the appropriate rate Schedule B-19 or B-20 charges, including the Customer Charge, for their supplemental power use.
- c. Back-up requirements are the portion of the customer's maximum demand and energy usage in any billing month caused by the nonoperation of the customer's alternative source of power. The customer's Reservation Capacity shall be determined in accordance with Special Condition 1 of this tariff.

The customer's metered reactive power usage will be prorated for the purpose of assigning such usage separately to the customer's bills for backup power and for supplemental power. The Reactive Demand Charge (see Special Condition 2) will be calculated by multiplying the customer's maximum measured reactive demand by the ratio of the current Reservation Capacity and the customer's maximum total kW of backup and supplemental load.

- 8. **EXTENDED OUTAGES:** If a customer's generation equipment or alternative supply source is subject to an extended outage, and this outage is expected to persist for at least thirty consecutive calendar days, the customer may request alternate billing under the terms of that otherwise-applicable, demand-metered regular service tariff indicated by the customer's current reservation capacity, by providing formal written notification to PG&E. Billing under the indicated otherwise-applicable schedule would begin with the customer's first regular meter read date after the beginning of the outage. After PG&E is notified that the generation equipment has been returned to service, billing under Schedule SB will resume as of the last regular meter read date that has preceded resolution of the outage. In the interim, reservation charges as specified under Section 1 of this tariff would not continue to apply to the customer's bill for the duration of the outage. However, all charges from the indicated otherwise-applicable tariff will apply.

(T)

(Continued)



**ELECTRIC SCHEDULE SB
STANDBY SERVICE**

Sheet 13

SPECIAL
CONDITIONS:
(Cont'd.)

- 9. **NON-TIME-OF-USE METERING:** In those cases where PG&E deems it is not cost-effective to install a time-of-use (TOU) meter, PG&E will estimate the customer's kWh usage for each TOU period, and apply all TOU charges to the estimated kWh usage by TOU period. PG&E will estimate the customer's total kWh usage in the billing period to kWh usage within each TOU period based on a percentage breakdown using the ratio of the number of hours in each TOU period to total hours in the billing period.

(D)

(D)

- 10. **MULTIPLE TECHNOLOGIES:** Customers with generating facilities that are comprised of multiple generating units that apply different technologies, and with at least one generating unit that qualifies for a PG&E net energy metering tariff, and where all of the generating units are served through the same Point of Common Coupling as defined in PG&E's Rule 21, may be eligible for standby exemption for a portion of their standby requirement. Such exemption will be granted only for the duration allowed by the applicable tariff schedule and in accordance with the California Public Utilities Code. The customer will be billed under its otherwise-applicable rate schedule, and Special Conditions 1 through 7 of this Schedule SB will not apply to the eligible generating portion qualifying for standby exemption. For the generating portion not qualifying for standby exemption, Special Conditions 1 through 7 of Schedule SB will apply. The Standby reservation capacity will be set at a level not to exceed the nominal rated capacity of the non-eligible generating unit(s). Qualification for and receipt of this exemption does not exempt customers with multiple technologies from metering charges applicable to TOU and real-time pricing, or exempt the customer from reasonable interconnection charges, non-bypassable charges and other applicable tariff obligations.

(T)

(Continued)

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**ELECTRIC SCHEDULE SB
STANDBY SERVICE**

Sheet 14

SPECIAL
CONDITIONS:
(Cont'd.)

11. **BILLING:** A customer's bill is calculated based on the option applicable to the customer. (T)

Bundled Service Customers receive supply and delivery service solely from PG&E. The customer's bill is based on the Total Rates and Conditions set forth in this schedule.

Transitional Bundled Service Customers take transitional bundled service as prescribed in Rules 22.1 and 23.1, or take bundled service prior to the end of the six (6) month advance notice period required to elect bundled portfolio service as prescribed in Rules 22.1 and 23.1. These customers shall pay charges for transmission, transmission rate adjustments, reliability services, distribution, nuclear decommissioning, public purpose programs, New System Generation Charges, the applicable Cost Responsibility Surcharge (CRS) pursuant to Schedule DA CRS or Schedule CCA CRS, and short-term commodity prices as set forth in Schedule TBCC.

Direct Access (DA) and Community Choice Aggregation (CCA) Customers purchase energy from their non-utility provider and continue receiving delivery services from PG&E. Bills are equal to the sum of charges for transmission, transmission rate adjustments, reliability services, distribution, public purpose programs, nuclear decommissioning, New System Generation Charges, the franchise fee surcharge, and the applicable CRS. The CRS is equal to the sum of the individual charges set forth below. Exemptions to the CRS are set forth in Schedules DA CRS and CCA CRS.

	DA / CCA CRS
Energy Cost Recovery Amount Charge (per kWh)	\$0.00032
Wildfire Fund Charge (per kWh)	\$0.00580
CTC Charge (per kWh)	\$0.00003
Power Charge Indifference Adjustment (per kWh)	
2009 Vintage	\$0.02541
2010 Vintage	\$0.03059
2011 Vintage	\$0.03196
2012 Vintage	\$0.03385
2013 Vintage	\$0.03401
2014 Vintage	\$0.03403
2015 Vintage	\$0.03419
2016 Vintage	\$0.03442
2017 Vintage	\$0.03444
2018 Vintage	\$0.03405
2019 Vintage	\$0.02593
2020 Vintage	\$0.02090
2021 Vintage	\$0.02090

12. **WILDFIRE FUND CHARGE:** The Wildfire Fund Charge was imposed by California Public Utilities Commission Decisions 19-10-056, 20-07-014, 20-09-005, and 20-09-023 and is property of Department of Water Resources (DWR) for all purposes under California law. The Charge became effective October 1, 2020, and applies to all retail sales, excluding CARE and Medical Baseline sales. The Wildfire Fund Charge (where applicable) is included in customers' total billed amounts. The Wildfire Fund Charge replaces the DWR Bond Charge imposed by California Public Utilities Commission Decisions 02-10-063 and 02-12-082. (T)

(Continued)



**ELECTRIC SCHEDULE SB
STANDBY SERVICE**

Sheet 15

SPECIAL
CONDITIONS:
(Cont'd.)

- 13. **SCHEDULED MAINTENANCE:** Customers may be allowed to place maintenance load on the distribution system during mutually agreed times (Scheduled Maintenance). The maximum demand for the purposes of standby billing shall be determined outside of the agreed scheduled maintenance period. Maintenance load is defined as a customer's load that would have otherwise been served by the DG that is down for maintenance. Customers shall provide four (4) days notice prior to PG&E determining whether and when Scheduled Maintenance is available ("Request"). For each Request, customers shall pay PG&E, at the time of such notification, for its expenses related to the scheduling and any necessary rearrangement of its facilities to accommodate Scheduled Maintenance. (T)
- 14. **STANDBY SERVICE FOR STATION LOAD SELF-SUPPLY:** Standby Service for Station Load Self-Supply permits customers operating an On-Site Self-Supply generating unit under the CAISO tariff, Station Power Protocol (SPP) subject to the conditions described below, to determine if transmission charges apply based on the CAISO meter registration in a calendar month. All other charges apply, including distribution charges, meter charges, applicable non-bypassable charges, and assessments. (See defined terms at the end of this special condition.) This Special Condition 15 does not apply to and does not modify other tariff charges or conditions on permitted netting as defined by CAISO, Federal Energy Regulatory Commission (FERC) Electric Tariff, Replacement Vol. No. 1, Section 10.1.3 (as amended from time to time). (T)
 - a. **Eligibility:** To be eligible for this Special Condition, a generating unit supplying Station Power must be:
 - i. On-Site Self-Supply Only: Remote-Self-Supply and Third Party are not applicable; and
 - ii. located in the CAISO control area, and
 - iii. a part of a CAISO-approved Station Power Portfolio.
 - b. **Charges:** If a generating unit in the station power portfolio requires the use of the CAISO-controlled transmission facilities and/or PG&E's distribution facilities, it will be subject to all applicable retail standby charges. Generating units that do not use either the CAISO-controlled transmission facilities and/or PG&E's facilities will be subject to all applicable retail charges (except for the Transmission Access Charge (TAC)) if, in a calendar month, deliveries to the grid exceed station power usage.

(Continued)

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**ELECTRIC SCHEDULE SB
STANDBY SERVICE**

Sheet 16

SPECIAL
CONDITIONS:
(Cont'd.)

14. STANDBY SERVICE FOR STATION LOAD SELF-SUPPLY (Cont'd) (T)

- c. **Agreement:** Customers participating in the CAISO SPP must sign PG&E's Special Agreement for Electrical Standby Service for Station Self-Supply (Form 79-285).
- d. **Commencement of Rate:** Customers requesting service under SPP are required to notify PG&E of their eligibility for this service by submitting the above agreement. Eligible customers shall be billed under this Special Condition 15 after written receipt and approval of the customer's SPP agreement, or on the date of verification by PG&E of customer's eligibility under the SPP.
- e. **Eligibility Change Notice:** It is the customer's responsibility to notify PG&E if there is a change in the customer's eligibility status. The customer must notify PG&E within ten (10) business days from the date that there is any change in the customer's eligibility under Schedule SB, Special Condition 15. Customers shall be re-billed during periods of ineligibility under the provisions of retail standby service under Schedule SB.
- f. **Verification:** Information provided by the customer is subject to verification by PG&E. Refusal or failure of a customer to provide eligibility information upon request by PG&E in the form of written approval or certification by the CAISO shall delay the provisions of service under Special Condition 15.
- g. **Billing:** All customer usage will be based on metered data in a Netting Period.

Meter data allocated to On-Site Self-Supply load ID, Remote Self-Supply load ID, and Third Party Supply load ID, which is used for billing under Special Condition 15.
- h. **Metering:** Prior to receiving service under Special Condition 15, the customer shall:
 - i. Provide, own, install, and maintain all facilities necessary to accommodate any metering equipment specified by PG&E including any additional metering if the customer serves any non-Station Power load, and
 - ii. Provide consent to enable PG&E to receive the customer's metered data from the CAISO and shall be in acceptable format for billing under this Schedule.

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**ELECTRIC SCHEDULE SB
STANDBY SERVICE**

Sheet 17

SPECIAL
CONDITIONS:
(Cont'd.)

15. LOW VARIABILITY MICROGRID STANDBY CUSTOMER

A Low Variability Microgrid Standby Customer is a customer who operates a microgrid interconnected under Electric Rule 21 and under a retail tariff where the microgrid's generation and storage resources meet the following performance standards, including resources that use natural gas as a fuel:

Variability:

- a. Capacity Factor of the microgrid as a whole is greater than 85 percent or Self-Supply Factor of the microgrid as a whole is greater than 85 percent; and
- b. Availability of the microgrid as a whole is greater than 95 percent.

Emissions:

- a. Non-renewable microgrid resources shall each individually comply with the emissions standards adopted by the State Air Resources Board pursuant to the distributed generation certification program requirements of Section 94203 of Title 17 of the California Code of Regulations, or any successor regulation, regardless of if the resource is required to obtain certification, pursuant to the California Air Resources Board (CARB) distributed generation program.
- b. Non-renewable resources have the technical capacity to operate using at least one renewable fuel, such as, but not limited to, renewable natural gas, biogas, and green hydrogen at the time of application for the suspension.
- c. Microgrid customers utilizing non-renewable resources must commit at the time of application for the suspension to converting to and exclusively utilizing renewable fuels, as reasonably feasible and practicable, by December 31, 2030.
- d. Microgrid customers utilizing non-renewable resources must submit the following information to PG&E on their progress to transitioning to renewable fuels: a) status of renewable fuel use by percentage at the time of the report and b) activities under way for procurement of renewable fuels for all use by the microgrid by December 31, 2030. Customers must submit this report to PG&E by January 1, 2025.

The microgrid customer must not have received, or be expected to receive, an incentive payment through the Self-Generation Incentive Program unless it can demonstrate incremental benefit.

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STANDBY SERVICE**

Sheet 18

SPECIAL
CONDITIONS:
(Cont'd.)

15. LOW VARIABILITY MICROGRID STANDBY CUSTOMER (Cont'd)

(N)

Definitions:

- a. **Capacity Factor:** ratio of energy actually produced by a generating unit to the maximum amount of energy it could produce over the course of a year.
- b. **Self-Supply Factor:** ratio of electricity actually produced by the customer's microgrid to the total amount of electricity consumed at Customer's site, regardless of source, over the course of a year.
- c. **Availability:** the number of annual hours a resource is able to produce electricity divided by the total hours in a year.
- d. **Non-renewable resources:** resources that are not defined as renewable in the latest version of the California Energy Commission's Renewables Portfolio Standard Eligibility Guidebook and the Overall Program Guidebook.

Documentation required for Customer to demonstrate eligibility for treatment as a Low Variability Microgrid Standby Customer, consistent with the following:

- a. The microgrid customer is not required to demonstrate how they would physically separate their system from PG&E's distribution system or reduce load in the event their on-site microgrid generators are unable to serve load and in order to prevent their load from being served by the utility distribution system and avoid overloading the utility system;
- b. For demonstrating compliance with the microgrid performance criteria, Customer may submit independently verified, reputable third-party bench test data over a shorter time period that when extrapolated would meet the performance standards, real-time operating performance data from substantially similar equipment meeting the performance standards, and actual real-time operating performance data documenting that Customer's operation of the microgrid continues to comply with the microgrid performance standards semi-annually thereafter.
- c. For demonstrating compliance with the first emissions criterion, stated above, PG&E must accept independently verified, reputable third-party bench test data meeting the emissions standards or certification from CARB;
- d. For demonstrating compliance with the second emissions criterion stated above, PG&E must accept the manufacturer's credible documentation of the ability of the equipment to operate using one or more renewable fuels while meeting all applicable performance standards; and

(N)

(Continued)



**ELECTRIC SCHEDULE SB
STANDBY SERVICE**

Sheet 19

SPECIAL
CONDITIONS:
(Cont'd.)

15. Low Variability Microgrid Standby Customer (Cont'd)

(N)

Documentation required for Customer to demonstrate eligibility for treatment as a Low Variability Microgrid Standby Customer, consistent with the following (Cont'd):

- e. For demonstrating compliance with the third emissions criterion stated above, language stating the Customer's commitment for its microgrid to use renewable fuel by December 31, 2030, if reasonably practicable and feasible. Customer must submit a progress report to PG&E on their activities to meet this commitment by January 1, 2025.

Failure to maintain semi-annual certification of the microgrid performance standards to PG&E shall result in immediate termination from the standby charge suspension.

Agreement: Customers participating in this provision must sign PG&E's Special Agreement for Electrical Standby Service (Form 79-285).

Verification: Information provided by the customer is subject to verification by PG&E. Refusal or failure of a customer to provide eligibility information upon request by PG&E in the form of written approval or certification by PG&E shall delay the provisions of service under Special Condition 15.

Billing: For any month in which the microgrid customer's maximum created demand is below the Capacity Reservation Amount (kW), defined below, the microgrid customer will pay no Standby Reservation Capacity Charge. For any month in which the customer's maximum created demand exceeds the Capacity Reservation Amount, the microgrid customer will pay a Demand Assurance Amount defined as two times the Standby Reservation Capacity Charge.

Capacity Reservation Amount: The Capacity Reservation Amount equals the mutually agreed upon demand (kW) as measured at the microgrid customer's Meter that represents the load demand (kW) PG&E serves when the microgrid is operating.

Metering: PG&E Metering employed to bill the microgrid account under the provisions of this Special Condition, Low Variability Microgrid Standby Customer, will be at a service point behind which the microgrid is formed.

Microgrid customer is required to provide, own, install and maintain all facilities necessary to accommodate any metering equipment specified by PG&E, including but not limited to, net generation output metering (NGOM), and data monitoring equipment. Data from these meters shall provide, at a minimum, monthly values to validate calculations for the operating performance requirement of this schedule SB.

(N)



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79-1050	Contract for Customer Provision of Physically Assured Load Reduction	48579-E
79-1075	Notice to Add or Delete Customers Participating in the Capacity Bidding Program	49224-E
79-1076	Agreement for Aggregators Participating in the Capacity Bidding Program	48584-E
79-1079	Agreement for Aggregators Participating in the Base Interruptible Program	48586-E
79-1080	Notice to Add or Delete Customers Participating in the Base Interruptible Program	48587-E
79-1102	Section 399.20 Power Purchase Agreement	48593-E
79-1103	Small Renewable Generator Power Purchase Agreement	48594-E
79-1104	Bill Calculation Service Agreement	48595-E
79-1106	Transferred Municipal Departing Load Nonbypassable Charge Statement	47385-E
79-1118	General Off-Bill and On-Bill Financing Loan Agreement	48606-E

(Continued)

Advice 6364-E
October 13, 2021

Attachment 2

Redline Tariff Revisions



SPECIAL AGREEMENT FOR ELECTRICAL STANDBY SERVICE

DISTRIBUTION

- Customer
- Division
- Tariff Interpretation
- Customer Relations
- Electric Billing Solutions

REFERENCES

QF Log #: _____
 Premises #: _____
 CDx/Acct#: _____

This is an agreement between Pacific Gas and Electric Company (PG&E), a California corporation, and _____ (Customer), a(n) _____. This agreement will be herein referred to as "Agreement".

Customer has requested PG&E to provide standby service at Customer's premises at _____, County of _____ California, under one of the standby options designated below:

- [] **Option 1 – PG&E Standby Through Non-PG&E Supply Facilities** – Standby service for customers whose supply requirements would otherwise be delivered through PG&E owned facilities (including Independent System Operator controlled transmission facilities), are regularly and completely supplied through facilities not owned by PG&E.

The non-utility owned generating facilities have a total rated capacity of approximately _____ kVA, or _____ kW.

Note: The conventional Generators are typically rated in kVA, where inverter-based technologies (i.e. fuel cell or PV) are rated in kW.

All PG&E power deliveries will be made under Schedule S or Schedule SB -- *Standby Service*.

- [] **Option 2 – PG&E Standby When Service is from Another Utility** – Standby service for customers who regularly take electric service from another public utility but desire PG&E to reserve its generation, transmission or distribution capacity for their use:

Customer currently is supplied regular electric service from another utility's generation, transmission, or distribution system; Customer may be alternately served by PG&E by means of a double-throw switch. Both PG&E and the other utility have consented to this arrangement. Customer's maximum demand from electric equipment on his premises is _____ kW.

All PG&E power deliveries will be made under Schedule S or Schedule SB.

This option is closed to all new customers after January 19, 2001.

- [] **Option 3 – PG&E Standby for Non-Continuous/Irregular PG&E Supply** – Standby service for customers who require PG&E to reserve transmission or distribution capacity and stand ready at all times to deliver electricity on an irregular or non-continuous basis:

Customer has a) a premise which is normally, in part but not in whole, served by non-utility owned generation facilities with a total rated capacity of less than 100 percent of Customer's maximum demand for that premise, or b) a premise which qualifies for back-up service under the provisions of Special Condition 7 of Schedule S or Schedule SB (See Option 4) but chooses not to elect Option 4 or currently lacks the necessary on-site metering to bill Option 4 properly, or c) electrical equipment

† Information collected on this form is used in accordance with PG&E's Privacy Policy. The Privacy Policy is available at pge.com/privacy.

SPECIAL AGREEMENT FOR ELECTRICAL STANDBY SERVICE

which is used on an irregular or non-continuous basis. The total rated capacity of Customer's generation facilities or irregularly utilized equipment is _____ kVA, or _____ kW.

Note: The conventional Generators are typically rated in kVA, where inverter-based technologies (i.e. fuel cell or PV) are rated in kW.

Customer will be billed for all PG&E power deliveries on the otherwise applicable rate schedule; however, Special Conditions 1 through 6 and 8, 9, and 10 of Schedule S or Schedule SB will also apply to Customer's service.

- Option 4 – PG&E Supplemental (Back-up and Maintenance) Standby Service** – Standby service for customers who do not meet the criteria described in Option 1 and 2 above, but elect to receive back-up and maintenance portion of their total standby requirements under the provisions of Special Condition 7 of Schedule S or Schedule SB:

At least 50 percent of Customer's maximum electric demand is served by a non-utility owned generator, and all necessary metering has been installed (by May 1, 1994, or the effective date of the contract) by PG&E to separately measure Customers net on-site generation and on-site load requirements. Customer would otherwise, except for such generation, qualify for service under Schedule E-19 (mandatory), E-20, B-19 or B-20.

Customer will be billed for the back-up and maintenance portion of the premises' total service requirements under the provisions of Special Condition 7 of Schedule S or Schedule SB, and for its ordinary supplemental power requirements (on-site load in excess of the capability of the customer's non-utility owned generation) under the provisions of the otherwise applicable rate schedule. All back-up and maintenance power deliveries by PG&E will be billed in accordance with Schedule S or Schedule SB. The total rated capacity of Customer's generation is _____ kVA.

- Option 5 – PG&E Standby for Station Load Self-Supply** – Standby service for customers, whose supply requirements would otherwise be delivered through PG&E owned facilities (including Independent System Operator controlled transmission facilities), where the customers' Station Power requirements are regularly supplied through generating units in accord with the customer's CAISO-approved Station Power Portfolio (SPP), as described under the provisions of Special Condition 15 of Schedule S or Schedule SB .

- Option 6 -- Low Variability Microgrid Standby Customer -- A Low Variability Microgrid Standby Customer is a customer who operates a microgrid interconnected under Rule 21 and under a retail tariff where the microgrid's generation and storage resources, including resources that use natural gas as a fuel, meet the Schedule S Special Condition 16 or Schedule SB Special Condition 15 performance standards. The total rated capacity of Customer's generation facilities and/or energy storage facilities is — kW. Customer's Capacity Reservation Amount is _____ kW.**

PU Code 353 exemption:

Standby service for customers who qualify for exemption under PU Code 353 and elect to take this exemption.

SPECIAL AGREEMENT FOR ELECTRICAL STANDBY SERVICE

~~[-] Customers does NOT qualify for PU Code 353 exemption~~

~~[-] Customers with supplemental power requirements:~~

~~— For customers with supplemental power requirements (on-site load in excess of the capability of the customer's non-utility owned generation) under the provisions of the otherwise applicable rate schedule, Special Conditions 1 through 7 of Schedule S or Schedule SB will not apply. (Option 3)~~

~~[-] Customers with excess generation:~~

~~— For those customers who operate electric generation equipment capable of serving their entire load and elect to take this exemption, Special Condition 1 (reservation capacity) will not apply. All other applicable charges of Schedule S or Schedule SB will apply. (Options 1, 2 and 4)~~

Terms and Conditions

1. Customer has requested PG&E to stand ready at all times to deliver or supply and deliver electric energy to Customer's premises on an as-needed basis. Such standby service shall be provided to Customer in accordance with and subject to PG&E's applicable rates and rules as established from time to time by, and on file with, the California Public Utilities Commission (Commission).
2. PG&E shall be granted, without cost to it, all necessary rights-of-way and easements, satisfactory to PG&E, in both location and form of document, to establish such service.
3. All necessary service facilities to accommodate Customer's load shall be furnished by PG&E and Customer as specified in electric line extension and service rules or the otherwise appropriate extension agreements. Any necessary extensions and reinforcements of PG&E's distribution and transmission facilities that are furnished by PG&E at Customer's expense in accordance with either a separate line extension or special facilities agreement, in accordance with the applicable tariffs.
4. All facilities furnished by PG&E to provide electric service at all times shall be and remain the property of PG&E notwithstanding that they may be affixed to Customer's property. PG&E may remove such facilities upon termination of the Agreement.
5. During the term of this Agreement, Customer grants to PG&E the right to operate, maintain, replace, and repair PG&E's facilities on Customer's premises necessary to provide standby service hereunder and all rights necessary for access to and from such facilities at all reasonable times.
6. All standby electric service provided shall be _____ phase, 60 hertz, alternating current at an electromotive force of approximately _____ volts. Allowable variations in this frequency and voltage are specified in PG&E's electric Rule 2. The delivery point for PG&E's standby service shall be considered the point where conductors owned, or under license by Customer, contact PG&E's conductors, or as otherwise designated by applicable rules.

SPECIAL AGREEMENT FOR ELECTRICAL STANDBY SERVICE

7. The initial reserved capacity for standby service shall be _____ kW (Reservation Capacity) and shall be billed monthly at the rate described in the "Rates" section of Schedule S or Schedule SB.

If the Customer is already receiving standby service from PG&E under a preceding contract, that contracted or reserved capacity, or the amount of capacity to which that contract has been subsequently ratcheted, shall automatically become the Customer's Reservation Capacity, until the ratchet period ends unless the Reservation Capacity has been increased in accordance with the preceding paragraph.

8. Customer elects to receive any backup and maintenance service that is to be billed under the provisions of Schedule S or Schedule SB under the following terms: _____ Firm Service Only.
9. If Customer has a generator and wishes to operate that generator in parallel with PG&E's system, Customer must also execute either a power purchase agreement, or parallel operation agreement, or applicable interconnection agreement with PG&E. Interconnection and operation of all non-utility owned generation paralleling with PG&E's system will be treated in accordance with electric Rule 21. Customers may need to meet those requirements as imposed by other governing entities having jurisdiction including the Independent System Operator and the Western Systems Coordinating Council.
10. Customer shall pay PG&E the monthly charges for the standby service provided hereunder at any established office of PG&E.
11. The initial term of this Agreement shall be for a period of one (1) year from the date the standby service under this Agreement is first made available to Customer as such date is established in PG&E's records and shall continue thereafter from year to year. Customer may terminate this Agreement at the expiration of the initial or any subsequent one-year term, or PG&E may terminate this Agreement in accordance with its tariffs, provided that written notice of such termination is given to the other party at least thirty (30) days prior to such termination date.
12. Customer may, with PG&E's written consent, assign this Agreement to a subsequent owner of the premises if the assignee will, in writing; agree to perform the obligations of the Agreement.

13. This Agreement shall, at all times, be subject to such changes or modifications by the Commission as it may from time to time direct in the exercise of its jurisdiction.

~~13-14.~~ This Agreement shall be effective upon the date that PG&E and the customer have executed this agreement.

APPROVED:

Customer

PACIFIC GAS AND ELECTRIC COMPANY



SPECIAL AGREEMENT FOR ELECTRICAL STANDBY SERVICE

Authorized Signature

Authorized Signature

Print Name

Print Name

Title

Title

Date

Date

Mailing Address: _____

Mailing Address: Pacific Gas and Electric Co.

77 Beale St. B8M

San Francisco, CA 94105



**ELECTRIC SCHEDULE S
STANDBY SERVICE**

Sheet 3

APPLICABILITY: Customers who operate a microgrid interconnected under Rule 21 and under a retail tariff where the microgrid's generation and storage resources meet certain performance standards (Variability and Emissions), and operational standards (Billing) as describe in Special Condition 16 qualify for a suspension from Standby Reservation Capacity Charges, as directed by the Commission.

TERRITORY: PG&E's entire service territory.

RATES: Total bundled service charges are calculated using the total rates shown below. Direct Access (DA) and Community Choice Aggregation (CCA) charges shall be calculated in accordance with the paragraph in this rate schedule titled Billing.

DEFINITION OF SERVICE VOLTAGE:

The following defines the three voltage classes of Schedule S rates. Standard Service Voltages are listed in Rule 2^x.

- a. Secondary: This is the voltage class if the service voltage is less than 2,400 volts or if the definitions of "primary" and "transmission" do not apply to the service.
- b. Primary: This is the voltage class if the customer is served from a "single customer substation" or without transformation from PG&E's serving distribution system at one of the standard primary voltages specified in PG&E's Electric Rule 2, Section B.1.
- c. Transmission: This is the voltage class if the customer is served without utility transformation at one of the standard transmission voltages specified in PG&E's Electric Rule 2, Section B.1.

The Standby Reservation Charges for customers who have paid for the total cost of the service transformers as special facilities under electric Rule 2 are determined by the voltage at the high side of the service transformer. All other charges will be billed on the voltage level at the low side of the service transformer.

PG&E retains the right to change its line voltage at any time, after reasonable advance notice to any customer affected by the change. The customer then has the option of changing its system to receive service at the new line voltage or accepting service at the initial voltage level through transformers supplied by PG&E.

DEFINITION OF MAXIMUM DEMAND:

The real (kW) and reactive (kVAR) demands billed under this tariff will be averaged over each 15-minute interval. "Maximum demand" (real and reactive) will be the highest 15-minute interval average 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.

(Continued)

<i>Advice</i>	5076-E	<i>Issued by</i>	<i>Date Filed</i>	May 26, 2017
<i>Decision</i>	17-04-039	Robert S. Kenney	<i>Effective</i>	May 26, 2017
		<i>Vice President, Regulatory Affairs</i>	<i>Resolution</i>	



**ELECTRIC SCHEDULE S
STANDBY SERVICE**

Sheet 6

RATES:
(Cont'd.)

TYPES OF CHARGES:

The customer's monthly charge for service under Schedule S is the sum of the Reservation, Energy, Customer, and TOU Meter Charges.

- a. The **Reservation Charge**, in dollars per kilowatt (kW), applies to the customer's Reservation Capacity, as defined in Special Condition 1.
- b. The **Energy Charge** is the sum of Energy Charges from the peak, partial-peak and off-peak periods. The customer pays for energy by the kilowatt-hour (kWh), and rates are differentiated to times of day and time of year.
- c. The **Customer Charge** will be paid monthly by all nonresidential customers. Residential customers will pay a Customer Charge only in months when the Customer Charge exceeds the customer's bill under Schedule S.
- d. The Customer Charge varies by class of service, Reservation Capacity, and Voltage Level (for customers with Reservation Capacity greater than 499 kW).
- e. The **TOU Meter Charge** applies to Residential, Agricultural, and Small and Medium Light and Power customers, with Reservation Capacity less than 500 kW. This charge will be paid in addition to the monthly Customer Charge.
- f. The **Load Profile Meter Charge** applies to customers electing to receive the back-up and maintenance portions of their total service requirements under the provisions of Special Condition 7. This charge will be paid in addition to the regular Schedule E-19, Schedule E-20, or Schedule E-37 monthly customer charge.
- f.g. The Demand Assurance Amount applies to customers who qualify as a Low Variability Microgrid Standby Customer under the provisions of Special Condition 16. The Low Variability Microgrid Standby Customer will pay a Demand Assurance Amount when capacity used in any month exceeds the Capacity Reservation Amount.

(Continued)

Advice	5076-E	Issued by	Date Filed	May 26, 2017
Decision	17-04-039	Robert S. Kenney	Effective	May 26, 2017
		Vice President, Regulatory Affairs	Resolution	



**ELECTRIC SCHEDULE S
STANDBY SERVICE**

Sheet 19

SPECIAL
CONDITIONS:
(Cont'd.)

15. STANDBY SERVICE FOR STATION LOAD SELF-SUPPLY (Cont'd)

i) **Definitions:** (Cont'd)

Station Power: Energy for operating electric equipment, or portions thereof, located on the generating unit site owned by the same entity that owns the generating unit, which electrical equipment is used exclusively for the production of energy and any useful thermal energy associated with the production of energy by the generating unit; and for the incidental heating, lighting, air conditioning and office equipment needs of buildings, or portions thereof that are owned by the same entity that owns the generating unit; located on the generating unit site; and used exclusively in connection with the production of energy and any useful thermal energy associated with the production of energy by the generating unit. Station Power includes the energy associated with motoring a hydroelectric generating unit to keep the unit synchronized at zero real power output to provide regulation or spinning reserve. Station Power does not include any energy used to power synchronous condensers; used for pumping at a pumped storage facility; or provided during a black start procedure. Station Power does not include energy used to serve loads outside the CAISO-controlled grid.

Station Power Portfolio: One or more generation resources eligible to self-supply Station Power, including generating units in the CAISO control area and generating facilities outside of the CAISO control area, all of which are owned by the same entity.

16. LOW VARIABILITY MICROGRID STANDBY CUSTOMER ELIGIBILITY

A Low Variability Microgrid Standby Customer is a customer who operates a microgrid interconnected under Electric Rule 21 and under a retail tariff where the microgrid's generation and storage resources meet the following performance standards, including resources that use natural gas as a fuel:

Variability:

- a. Capacity Factor of the microgrid as a whole is greater than 85 percent or Self-Supply Factor of the microgrid as a whole is greater than 85 percent; and
- b. Availability of the microgrid as a whole is greater than 95 percent.

Emissions:

- a. Non-renewable microgrid resources shall each individually comply with the emissions standards adopted by the State Air Resources Board pursuant to the distributed generation certification program requirements of Section 94203 of Title 17 of the California Code of Regulations, or any successor regulation, regardless of if the resource is required to obtain certification, pursuant to the California Air Resources Board (CARB) distributed generation program.



**ELECTRIC SCHEDULE S
STANDBY SERVICE**

Sheet 19

b. Non-renewable resources have the technical capacity to operate using at least one renewable fuel, such as, but not limited to, renewable natural gas, biogas, and green hydrogen at the time of application for the suspension.

c. Microgrid customers utilizing non-renewable resources must commit at the time of application for the suspension to converting to and exclusively utilizing renewable fuels, as reasonably feasible and practicable, by December 31, 2030.

d. Microgrid customers utilizing non-renewable resources must submit the following information to PG&E on their progress to transitioning to renewable fuels: a) status of renewable fuel use by percentage at the time of the report and b) activities under way for procurement of renewable fuels for all use by the microgrid by December 31, 2030. Customers must submit this report to PG&E by January 1, 2025.

The microgrid customer must not have received, or be expected to receive, an incentive payment through the Self-Generation Incentive Program unless it can demonstrate incremental benefit.

Definitions:

a. Capacity Factor: ratio of energy actually produced by a generating unit to the maximum amount of energy it could produce over the course of a year.

b. Self-Supply Factor: ratio of electricity actually produced by the customer's microgrid to the total amount of electricity consumed at Customer's site, regardless of source, over the course of a year.

c. Availability: the number of hours a resource is producingable to produce electricity or available to produce electricity divided by the total hours in a year.

d. Non-renewable resources: resources that are not defined as renewable in the latest version of the California Energy Commission's Renewables Portfolio Standard Eligibility Guidebook and the Overall Program Guidebook.

Documentation required for Customer to demonstrate eligibility for treatment as a Low Variability Microgrid Standby Customer, consistent with the following:

a. The microgrid customer is not required to demonstrate how they would physically separate their system from PG&E's distribution system or reduce load in the event their on-site microgrid generators are unable to serve load and in order to prevent their load from being served by the utility distribution system and avoid overloading the utility system.

b. For demonstrating compliance with the microgrid performance criteria, Customer may submit independently verified, reputable third-party bench test data over a shorter time period that when extrapolated would meet the performance standards, real-time



**ELECTRIC SCHEDULE S
STANDBY SERVICE**

Sheet 19

operating performance data from substantially similar equipment meeting the performance standards, and actual real-time operating performance data documenting that Customer's operation of the microgrid continues to comply with the microgrid performance standards semi-annually thereafter.

- c. For demonstrating compliance with the first emissions criterion, stated above, PG&E must accept independently verified, reputable third-party bench test data meeting the emissions standards or certification from CARB.
- d. For demonstrating compliance with the second emissions criterion stated above, PG&E must accept the manufacturer's credible documentation of the ability of the equipment to operate using one or more renewable fuels while meeting all applicable performance standards.
- e. For demonstrating compliance with the third emissions criterion stated above, language stating the Customer's commitment for its microgrid to use renewable fuel by December 31, 2030, if reasonably practicable and feasible. Customer must submit a progress report to PG&E on their activities to meet this commitment by January 1, 2025.

Failure to maintain semi-annual certification of the microgrid performance standards to PG&E shall result in immediate termination from the standby charge suspension.

Agreement: Customers participating in this provision must sign PG&E's Special Agreement for Electrical Standby Service (Form 79-285).

Verification: Information provided by the customer is subject to verification by PG&E. Refusal or failure of a customer to provide eligibility information upon request by PG&E in the form of written approval or certification by PG&E shall delay the provisions of service under Special Condition 15.

Billing: For any month in which the microgrid customer's maximum created demand is below the Capacity Reservation Amount (kW), defined below, the microgrid customer will pay no Standby Reservation Capacity Charge. For any month in which the customer's maximum created demand exceeds the Capacity Reservation Amount, the microgrid customer will pay a Demand Assurance Amount defined as two times the Standby Reservation Capacity Charge.

Capacity Reservation Amount: The Capacity Reservation Amount equals the mutually agreed upon demand (kW) as measured at the microgrid customer's Meter that represents the load demand (kW) PG&E serves when the microgrid is operating.

Metering: PG&E Metering employed to bill the microgrid account under the provisions of this Special Condition, Low Variability Microgrid Standby Customer, will be at a service point behind which the microgrid is formed.

Microgrid customer is required to provide, own, install and maintain all facilities necessary to accommodate any metering equipment specified by PG&E, including but not limited to net generation output metering (NGOM).



**ELECTRIC SCHEDULE SB
STANDBY SERVICE**

Sheet 2

(N)
(N)

APPLICABILITY: Customers whose:
(Cont'd.)

- a. premises are supplied only in part by electric energy from a non-utility source of supply, and who do not qualify for or elect to take back-up service under the provisions of Special Condition 7, and/or
- b. regular non-utility source of supply is subject to an extended outage as defined under Special Condition 8,

will receive service under one of PG&E's other applicable rate schedules.

However, this service will be provided subject to the provisions of Special Conditions 1 through 6 and 8 through 9 below, and reservation charges as specified under Section 1 will also be applicable.

Solar customers who are taking service under PG&E's net metering tariffs or who utilize solar generating facilities which are less than or equal to one megawatt to serve load and who do not sell power or make more than incidental export of power into PG&E's power grid are exempt from standby charges. Non-solar customers taking service under one of PG&E net metering schedules may be exempt from standby charges pursuant to PU Code 2827.

For customers with in Front of The Meter (FTM) storage devices who will at any time charge using grid power and require station service, PG&E's Schedule E-STORE also applies. FTM storage applications are where all energy discharged from the storage device, less its station load, is intended for grid export. Existing storage installations with station service requirements must also take charging service under Schedule E-STORE, including pilot storage facilities, storage facilities with only station load, as well as energy storage collocated with another generator within the same service delivery point.

Customers who operate a microgrid interconnected under Rule 21 and under a retail tariff where the microgrid's generation and storage resources meet certain performance standards (Variability and Emissions), and operational standards (Billing) as describe in Special Condition 16 qualify for a suspension from Standby Reservation Capacity Charges, as directed by the Commission.

TERRITORY: PG&E's entire service territory.

RATES Total bundled service charges are calculated using the total rates shown below. Direct Access (DA) and Community Choice Aggregation (CCA) charges shall be calculated in accordance with the paragraph in this rate schedule titled Billing.

DEFINITION OF SERVICE VOLTAGE:

The following defines the three voltage classes of Schedule SB rates. Standard Service Voltages are listed in Rule 2*.

- a. Secondary: This is the voltage class if the service voltage is less than 2,400 volts or if the definitions of "primary" and "transmission" do not apply to the service.
- b. Primary: This is the voltage class if the customer is served from a "single customer substation" or without transformation from PG&E's serving distribution system at one of the standard primary voltages

(Continued)

Advice 5667-E
Decision 18-08-013

Issued by
Robert S. Kenney
Vice President, Regulatory Affairs

Submitted
Effective
Resolution

October 28, 2019
November 1, 2019



ELECTRIC SCHEDULE SB
STANDBY SERVICE

Sheet 2

(N)
(N)

specified in PG&E's Electric Rule 2, Section B.1.

- c. Transmission: This is the voltage class if the customer is served without utility transformation at one of the standard transmission voltages specified in PG&E's Electric Rule 2, Section B.1.

(Continued)

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November 1, 2019



**ELECTRIC SCHEDULE SB
STANDBY SERVICE**

Sheet 6

(N)
(N)

RATES:
(Cont'd.)

TYPES OF CHARGES:

The customer's monthly charge for service under Schedule SB is the sum of the Reservation, Energy, Customer, and TOU Meter Charges.

- a. The **Reservation Charge**, in dollars per kilowatt (kW), applies to the customer's Reservation Capacity, as defined in Special Condition 1.
- b. The **Energy Charge** is the sum of Energy Charges from the peak, partial-peak and off-peak periods. The customer pays for energy by the kilowatt-hour (kWh), and rates are differentiated to times of day and time of year.
- c. The **Customer Charge** will be paid monthly by all nonresidential customers. Residential customers will pay a Customer Charge only in months when the Customer Charge exceeds the customer's bill under Schedule SB.
- d. The Customer Charge varies by class of service, Reservation Capacity, and Voltage Level (for customers with Reservation Capacity greater than 499 kW).
- e. The **Load Profile Meter Charge** applies to customers electing to receive the back-up and maintenance portions of their total service requirements under the provisions of Special Condition 7. This charge will be paid in addition to the regular Schedule B-19, or Schedule B-20 monthly customer charge.

e-f. The Demand Assurance Amount applies to customers who qualify as a Low Variability Microgrid Standby Customer under the provisions of Special Condition 16. The Low Variability Microgrid Standby Customer will pay a Demand Assurance Amount when capacity used in any month exceeds the Capacity Reservation Amount.

RATES:
(Cont'd.)

DEFINITION OF TIME PERIODS:

Times of the year and times of the day are defined as follows:

SUMMER - Service from June 1 through September 30:

Peak:	4:00 p.m. to 9:00 p.m.	Every day, including weekends and holidays
Partial-peak:	2:00 p.m. to 4:00 pm AND 9:00 p.m. to 11:00 p.m.	Every day, including weekends and holidays
Off-peak:	All other Hours.	

WINTER - Service from October 1 through May 31:

Peak:	4:00 p.m. to 9:00 p.m.	Every day, including weekends and holidays
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(Continued)

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STANDBY SERVICE

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(N)
(N)

Super Off-Peak	9:00 a.m. to 2:00 p.m.	Every day in March, April and May including weekends and holidays
Off-peak:	All other Hours.	

(Continued)

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November 1, 2019



**ELECTRIC SCHEDULE SB
STANDBY SERVICE**

Sheet 9

(N)
(N)

SPECIAL
CONDITIONS:
(Cont'd.)

2. **REACTIVE DEMAND CHARGE:** When the customer's non-utility generation equipment is operated in parallel with PG&E's system, the customer will design and attempt to operate its facilities in such a way that the reactive current requirements of that portion of the customer's load which ordinarily is supplied from the customer's generation is not supplied at any time from PG&E's system. If the customer does place a reactive demand on PG&E's system in any month, the customer's monthly bill will be adjusted as follows:

- a. A monthly Reactive Demand Charge power factor is computed from the ratio of lagging maximum reactive kilovolt-amperes consumed in the month to the Reservation Capacity kilowatts. This power factor is rounded to the nearest whole percent.
- b. If the calculated monthly Reactive Demand Charge power factor is below 95 percent, the total monthly bill will be increased by the product of the maximum reactive kilovolt-amperes consumed in the month and the Reactive Demand Charge rate.

Those customers ~~are operating synchronous generators who are otherwise~~ obligated to comply with PG&E switching center voltage orders are exempt from the Reactive Demand Charge, provided that customer is in compliance with all valid PG&E switching center voltage orders. Those customers operating synchronous generators who are not otherwise obligated to comply with PG&E switching center voltage orders may elect to comply with voltage orders on a voluntary basis and thereby receive the same exemption from the Reactive Demand Charge as is received by customers subject to mandatory voltage order obligations.

A customer who is operating under PG&E switching center voltage orders will become exempt from the Reactive Demand Charge after providing PG&E with the following written information:

- a. Notification requesting an exemption including the name, address, and telephone number of the party requesting the exemption;
- b. The location, telephone number, electronic mail address and Fax number of the entity to which PG&E switching center orders are to be transmitted; and
- c. The generator equipment limits for operating voltages and plus and minus VARs.

(Continued)

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Decision 18-08-013

Issued by
Robert S. Kenney
Vice President, Regulatory Affairs

Submitted
Effective
Resolution

October 28, 2019
November 1, 2019



**ELECTRIC SCHEDULE SB
STANDBY SERVICE**

Sheet 12

(N)
(N)

SPECIAL
CONDITIONS:
(Cont'd.)

7. SUPPLEMENTAL STANDBY SERVICE (BACKUP REQUIREMENTS):

- a. Schedule B-19 and Schedule B-20 customers whose nonutility source of generation does not regularly supply all the power necessary at their premises may elect to receive the back-up portion of their total service requirement under Schedule SB if the appropriate metering is installed to separately record the net on-site generation and the on-site load. If the customer elects instead to receive all of their service under Schedule B-19 or B-20, however, Special Conditions 1 through 6 of this Schedule will apply to the back-up portion of their load, with a Reservation capacity as determined in accordance with Special Condition 1 of this tariff.
- b. Supplemental standby service requires the installation of a load profile recorder. PG&E will install load profile recorders, subject to meter availability. The customer shall provide, install, own, and maintain all facilities necessary to accommodate metering equipment specified by PG&E. An additional charge applies for Supplemental Standby Service. A Supplemental Standby Service Meter Charge will be added to the standby customer's bill in addition to the TOU Energy Charges for back-up requirements, specified in the Rates Section. Supplemental standby service customers will also pay the appropriate rate Schedule B-19 or B-20 charges, including the Customer Charge, for their supplemental power use.
- c. Back-up requirements are the portion of the customer's maximum demand and energy usage in any billing month caused by the nonoperation of the customer's alternative source of power. The customer's Reservation Capacity shall be determined in accordance with Special Condition 1 of this tariff.

The customer's metered reactive power usage will be prorated for the purpose of assigning such usage separately to the customer's bills for backup power and for supplemental power. The Reactive Demand Charge (see Special Condition 2) will be calculated by multiplying the customer's maximum measured reactive demand by the ratio of the current Reservation Capacity and the customer's maximum total kW of backup and supplemental load.

- 8. **EXTENDED OUTAGES:** If a customer's generation equipment or alternative supply source is subject to an extended outage, and this outage is expected to persist for at least ~~thirty consecutive calendar days one complete regular billing cycle~~, the customer may request alternate billing under the terms of that otherwise-applicable, demand-metered regular service tariff indicated by the customer's current reservation capacity, by providing formal written notification to PG&E. Billing under the indicated otherwise-applicable schedule would begin with the customer's first regular meter read date after the beginning of the outage. After PG&E is notified that the generation equipment has been returned to service, billing under Schedule SB will resume as of the last regular meter read date that has preceded resolution of the outage. In the interim, reservation charges as specified under Section 1 of this tariff would not continue to apply to the customer's bill for the duration of the outage. However, all charges from the indicated otherwise-applicable tariff will apply.

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(N)

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(Cont'd.)

9. **NON-TIME-OF-USE METERING:** In those cases where PG&E deems it is not cost-effective to install a time-of-use (TOU) meter, PG&E will estimate the customer's kWh usage for each TOU period, and apply all TOU charges to the estimated kWh usage by TOU period. PG&E will estimate the customer's total kWh usage in the billing period to kWh usage within each TOU period based on a percentage breakdown using the ratio of the number of hours in each TOU period to total hours in the billing period.

~~10. **DISTRIBUTED ENERGY RESOURCES EXEMPTION:** Public Utilities (PU) Code Sections 353.1, 353.2 and 353.3, provide for certain exemptions of standby reservation charges for qualifying "distributed energy resources." Customers qualifying for an exemption from standby charges under PU Code Sections 353.1 and 353.3, as described above, must take service on a TOU schedule in order to receive this exemption until a real-time pricing program, as described in PU Code Section 353.3, is made available. Once available, customers qualifying for the distributed energy resources exemption must participate in the real-time program referred to above. Qualification for and receipt of this distributed energy resources exemption does not exempt the customer from metering charges applicable to TOU and real-time pricing, or exempt the customer from reasonable interconnection charges, non-bypassable charges as required in Preliminary Statement BB - Competition Transition Charge Responsibility for All Customers and CTC Procurement, or obligations determined by the Commission to result from participation in the purchase of power through the California Department of Water Resources, as provided in PU Code Section 353.7.~~

~~See electric Rule 1 for the criteria to be considered a Distributed Energy Resources and for limitations on this standby service exemption.~~

10. **MULTIPLE TECHNOLOGIES:** Customers with generating facilities that are comprised of multiple generating units that apply different technologies, and with at least one generating unit that qualifies for a PG&E net energy metering tariff, and where all of the generating units are served through the same Point of Common Coupling as defined in PG&E's Rule 21, may be eligible for standby exemption for a portion of their standby requirement. Such exemption will be granted only for the duration allowed by the applicable tariff schedule and in accordance with the California Public Utilities Code. The customer will be billed under its otherwise-applicable rate schedule, and Special Conditions 1 through 7 of this Schedule SB will not apply to the eligible generating portion qualifying for standby exemption. For the generating portion not qualifying for standby exemption, Special Conditions 1 through 7 of Schedule SB will apply. The Standby reservation capacity will be set at a level not to exceed the nominal rated capacity of the non-eligible generating unit(s). Qualification for and receipt of this exemption does not exempt customers with multiple technologies from metering charges applicable to TOU and real-time pricing, or exempt the customer from reasonable interconnection charges, non-bypassable charges and other applicable tariff obligations.

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112. BILLING: A customer's bill is calculated based on the option applicable to the customer.

Bundled Service Customers receive supply and delivery service solely from PG&E. The customer's bill is based on the Total Rates and Conditions set forth in this schedule.

Transitional Bundled Service Customers take transitional bundled service as prescribed in Rules 22.1 and 23.1, or take bundled service prior to the end of the six (6) month advance notice period required to elect bundled portfolio service as prescribed in Rules 22.1 and 23.1. These customers shall pay charges for transmission, transmission rate adjustments, reliability services, distribution, nuclear decommissioning, public purpose programs, New System Generation Charges, the applicable Cost Responsibility Surcharge (CRS) pursuant to Schedule DA CRS or Schedule CCA CRS, and short-term commodity prices as set forth in Schedule TBCC.

Direct Access (DA) and Community Choice Aggregation (CCA) Customers purchase energy from their non-utility provider and continue receiving delivery services from PG&E. Bills are equal to the sum of charges for transmission, transmission rate adjustments, reliability services, distribution, public purpose programs, nuclear decommissioning, New System Generation Charges, the franchise fee surcharge, and the applicable CRS. The CRS is equal to the sum of the individual charges set forth below. Exemptions to the CRS are set forth in Schedules DA CRS and CCA CRS.

	DA / CCA CRS	
Energy Cost Recovery Amount Charge (per kWh)	\$0.00032	
Wildfire Fund Charge (per kWh)	\$0.00580	
CTC Charge (per kWh)	\$0.00003	
Power Charge Indifference Adjustment (per kWh)		
2009 Vintage	\$0.02541	(I)
2010 Vintage	\$0.03059	(I)
2011 Vintage	\$0.03196	(I)
2012 Vintage	\$0.03385	(I)
2013 Vintage	\$0.03401	(I)
2014 Vintage	\$0.03403	(I)
2015 Vintage	\$0.03419	(I)
2016 Vintage	\$0.03442	(I)
2017 Vintage	\$0.03444	(I)
2018 Vintage	\$0.03405	(I)
2019 Vintage	\$0.02593	(I)
2020 Vintage	\$0.02090	(I)
2021 Vintage	\$0.02090	(I)

123. WILDFIRE FUND CHARGE: The Wildfire Fund Charge was imposed by California Public Utilities Commission Decisions 19-10-056, 20-07-014, 20-09-005, and 20-09-023 and is property of Department of Water Resources (DWR) for all purposes under California law. The Charge became effective October 1, 2020, and applies to all retail sales, excluding CARE and Medical Baseline sales. The Wildfire Fund Charge (where applicable) is included in customers' total billed amounts. The Wildfire Fund Charge replaces the DWR Bond Charge imposed by California Public Utilities Commission Decisions 02-10-063 and 02-12-082.

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SPECIAL
CONDITIONS:
(Cont'd.)

134. SCHEDULED MAINTENANCE: Customers may be allowed to place maintenance load on the distribution system during mutually agreed times (Scheduled Maintenance). The maximum demand for the purposes of standby billing shall be determined outside of the agreed scheduled maintenance period. Maintenance load is defined as a customer's load that would have otherwise been served by the DG that is down for maintenance. Customers shall provide four (4) days notice prior to PG&E determining whether and when Scheduled Maintenance is available ("Request"). For each Request, customers shall pay PG&E, at the time of such notification, for its expenses related to the scheduling and any necessary rearrangement of its facilities to accommodate Scheduled Maintenance.

145. STANDBY SERVICE FOR STATION LOAD SELF-SUPPLY: Standby Service for Station Load Self-Supply permits customers operating an On-Site Self-Supply generating unit under the CAISO tariff, Station Power Protocol (SPP) subject to the conditions described below, to determine if transmission charges apply based on the CAISO meter registration in a calendar month. All other charges apply, including distribution charges, meter charges, applicable non-bypassable charges, and assessments. (See defined terms at the end of this special condition.) This Special Condition 15 does not apply to and does not modify other tariff charges or conditions on permitted netting as defined by CAISO, Federal Energy Regulatory Commission (FERC) Electric Tariff, Replacement Vol. No. 1, Section 10.1.3 (as amended from time to time).

a. **Eligibility:** To be eligible for this Special Condition, a generating unit supplying Station Power must be:

- i. On-Site Self-Supply Only: Remote-Self-Supply and Third Party are not applicable; and
- ii. located in the CAISO control area, and
- iii. a part of a CAISO-approved Station Power Portfolio.

b. **Charges:** If a generating unit in the station power portfolio requires the use of the CAISO-controlled transmission facilities and/or PG&E's distribution facilities, it will be subject to all applicable retail standby charges. Generating units that do not use either the CAISO-controlled transmission facilities and/or PG&E's facilities will be subject to all applicable retail charges (except for the Transmission Access Charge (TAC)) if, in a calendar month, deliveries to the grid exceed station power usage.

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<i>Decision</i>	18-08-013	Robert S. Kenney	<i>Effective</i>	November 1, 2019
		<i>Vice President, Regulatory Affairs</i>	<i>Resolution</i>	



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(Cont'd.)

145. STANDBY SERVICE FOR STATION LOAD SELF-SUPPLY (Cont'd)

- c. **Agreement:** Customers participating in the CAISO SPP must sign PG&E's Special Agreement for Electrical Standby Service for Station Self-Supply (Form 79-285).
- d. **Commencement of Rate:** Customers requesting service under SPP are required to notify PG&E of their eligibility for this service by submitting the above agreement. Eligible customers shall be billed under this Special Condition 15 after written receipt and approval of the customer's SPP agreement, or on the date of verification by PG&E of customer's eligibility under the SPP.
- e. **Eligibility Change Notice:** It is the customer's responsibility to notify PG&E if there is a change in the customer's eligibility status. The customer must notify PG&E within ten (10) business days from the date that there is any change in the customer's eligibility under Schedule SB, Special Condition 15. Customers shall be re-billed during periods of ineligibility under the provisions of retail standby service under Schedule SB.
- f. **Verification:** Information provided by the customer is subject to verification by PG&E. Refusal or failure of a customer to provide eligibility information upon request by PG&E in the form of written approval or certification by the CAISO shall delay the provisions of service under Special Condition 15.
- g. **Billing:** All customer usage will be based on metered data in a Netting Period.

Meter data allocated to On-Site Self-Supply load ID, Remote Self-Supply load ID, and Third Party Supply load ID, which is used for billing under Special Condition 15.

- h. **Metering:** Prior to receiving service under Special Condition 15, the customer shall:
 - i. Provide, own, install, and maintain all facilities necessary to accommodate any metering equipment specified by PG&E including any additional metering if the customer serves any non-Station Power load, and
 - ii. Provide consent to enable PG&E to receive the customer's metered data from the CAISO and shall be in acceptable format for billing under this Schedule.

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15. LOW VARIABILITY MICROGRID STANDBY CUSTOMER

A Low Variability Microgrid Standby Customer is a customer who operates a microgrid interconnected under Electric Rule 21 and under a retail tariff where the microgrid's generation and storage resources meet the following performance standards, including resources that use natural gas as a fuel:

Variability:

- a. Capacity Factor of the microgrid as a whole is greater than 85 percent or Self-Supply Factor of the microgrid as a whole is greater than 85 percent; and
- b. Availability of the microgrid as a whole is greater than 95 percent.

Emissions:

- a. Non-renewable microgrid resources shall each individually comply with the emissions standards adopted by the State Air Resources Board pursuant to the distributed generation certification program requirements of Section 94203 of Title 17 of the California Code of Regulations, or any successor regulation, regardless of if the resource is required to obtain certification, pursuant to the California Air Resources Board (CARB) distributed generation program;
- b. Non-renewable resources have the technical capacity to operate using at least one renewable fuel, such as, but not limited to, renewable natural gas, biogas, and green hydrogen at the time of application for the suspension.
- c. Microgrid customers utilizing non-renewable resources must commit at the time of application for the suspension to converting to and exclusively utilizing renewable fuels, as reasonably feasible and practicable, by December 31, 2030.
- d. Microgrid customers utilizing non-renewable resources must submit the following information to PG&E on their progress to transitioning to renewable fuels: a) status of renewable fuel use by percentage at the time of the report and b) activities under way for procurement of renewable fuels for all use by the microgrid by December 31, 2030. Customers must submit this report to PG&E by January 1, 2025.

The microgrid customer must not have received, or be expected to receive, an incentive payment through the Self-Generation Incentive Program unless it can demonstrate incremental benefit.

Definitions:

- a. **Capacity Factor:** ratio of energy actually produced by a generating unit to the maximum amount of energy it could produce over the course of a year.;
- b. **Self-Supply Factor:** ratio of electricity actually produced by the customer's microgrid to the total amount of electricity consumed at the customer's site, regardless of source, over the course of a year.;

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c. **Availability:** the number of annual hours a resource is able to produce electricity divided by the total hours in a year.

d. **Non-renewable resources:** resources that are not defined as renewable in the latest version of the California Energy Commission's Renewables Portfolio Standard Eligibility Guidebook and the Overall Program Guidebook.

Documentation required for a eCustomer to demonstrate eligibility for treatment as a Low Variability Microgrid Standby Customer, consistent with the following:

a. The microgrid customer is not required to demonstrate how they would physically separate their system from PG&E's distribution system or reduce load in the event their on-site microgrid generators are unable to serve load and in order to prevent their load from being served by the utility distribution system and avoid overloading the utility system;

b. For demonstrating compliance with the microgrid performance criteria, Customer may submit independently verified, reputable third-party bench test data over a shorter time period that when extrapolated would meet the performance standards, real-time operating performance data from substantially similar equipment meeting the performance standards, and actual real-time operating performance data documenting that the microgrid customer's operation of the microgrid continues to comply with the microgrid performance standards semi-annually thereafter.

c. For demonstrating compliance with the first emissions criterion, stated above, PG&E must accept independently verified, reputable third-party bench test data meeting the emissions standards or certification from CARB;

d. For demonstrating compliance with the second emissions criterion stated above, PG&E must accept the manufacturer's credible documentation of the ability of the equipment to operate using one or more renewable fuels while meeting all applicable performance standards; and

e. For demonstrating compliance with the third emissions criterion stated above, language stating the Customer's commitment for its microgrid to use renewable fuel by December 31, 2030, if reasonably practicable and feasible. Customer must submit a progress report to PG&E on their activities to meet this commitment by January 1, 2025.

Failure to maintain semi-annual certification of the microgrid performance standards to PG&E the utility shall result in immediate termination from the standby charge suspension.

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Agreement: Customers participating in this provision must sign PG&E's Special Agreement for Electrical Standby Service (Form 79-285).

Verification: Information provided by the customer is subject to verification by PG&E. Refusal or failure of a customer to provide eligibility information upon request by PG&E in the form of written approval or certification by PG&E shall delay the provisions of service under Special Condition 15.

Billing: For any month in which the microgrid customer's maximum created demand is below the Capacity Reservation Amount (kW), defined below, the microgrid customer will pay no Standby Reservation Capacity Charge. For any month in which the customer's maximum created demand exceeds the Capacity Reservation Amount, the microgrid customer will pay a Demand Assurance Amount defined as two times the Standby Reservation Capacity Charge.

Capacity Reservation Amount: The Capacity Reservation Amount equals the mutually agreed upon demand (kW) as measured at the microgrid customer's Meter that represents the load demand (kW) PG&E serves when the microgrid is operating.

Metering: PG&E Metering employed to bill the microgrid account under the provisions of this Special Condition, Low Variability Microgrid Standby Customer, will be at a service point behind which the microgrid is formed.

Microgrid customer is required to provide, own, install and maintain all facilities necessary to accommodate any metering equipment specified by PG&E, including but not limited to, net generation output metering (NGOM), and data monitoring equipment. Data from these meters shall provide, at a minimum, monthly values to validate calculations for the operating performance requirement of this schedule SB.

~~Charges Subject to Change: The charges applicable to CAISO SPP-certified generators are subject to change as directed by CAISO/FERC orders.~~

~~Definitions:~~

~~**Net Output:** The gross energy output from a generating unit less the Station Power requirements for such generating unit during the Netting Period, or the energy available to provide Remote Self-Supply from a generating facility in another control area during the monthly Netting Period.~~

~~**Net Negative Output:** The Net Output over the netting period is negative, that is, over the netting period either On-Site Self-Supply, or Remote Self-Supply provides less than all (<100%) of the customer's Station Power requiring it to draw on Third Party Supply.~~

~~**Net Positive Output:** The Net Output over the netting period is positive, that is, over the netting period the customer relies only on either On-Site Self-Supplies, or Remote Self-Supplies for all (100%) of its Station Power.~~

~~**Netting Period:** A calendar month representing the interval over which the~~

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~~Net Output of one or many generating resources in a Station Power Portfolio is available to be attributed to the self supply of the Station Power in that Station Power Portfolio.~~

~~**Station Power:** Energy for operating electric equipment, or portions thereof, located on the generating unit site owned by the same entity that owns the generating unit, which electrical equipment is used exclusively for the production of energy and any useful thermal energy associated with the production of energy by the generating unit; and for the incidental heating, lighting, air conditioning and office equipment needs of buildings, or portions thereof that are owned by the same entity that owns the generating unit; located on the generating unit site; and used exclusively in connection with the production of energy and any useful thermal energy associated with the production of energy by the generating unit. Station Power includes the energy associated with motoring a hydroelectric generating unit to keep the unit synchronized at zero real power output to provide regulation or spinning reserve. Station Power does not include any energy used to power synchronous condensers; used for pumping at a pumped storage facility; or provided during a black start procedure. Station Power does not include energy used to serve loads outside the CAISO-controlled grid.~~

~~**Station Power Portfolio:** One or more generation resources eligible to self-supply Station Power, including generating units in the CAISO control area and generating facilities outside of the CAISO control area, all of which are owned by the same entity.~~

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and data monitoring equipment. Data from these meters shall provide, at a minimum, monthly values to validate calculations for the operating performance requirement of this schedule S.

**PG&E Gas and Electric
Advice Submittal List
General Order 96-B, Section IV**

AT&T
Albion Power Company

Alta Power Group, LLC
Anderson & Poole

Atlas ReFuel
BART

Barkovich & Yap, Inc.
California Cotton Ginners & Growers Assn
California Energy Commission

California Hub for Energy Efficiency
Financing

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

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

Chevron Pipeline and Power
City of Palo Alto

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

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

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

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

Green Power Institute
Hanna & Morton
ICF

IGS Energy
International Power Technology

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
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
Semptra Utilities

Sierra Telephone Company, Inc.
Southern California Edison Company
Southern California Gas Company
Spark Energy

Sun Light & Power
Sunshine Design
Tecogen, Inc.
TerraVerde Renewable Partners
Tiger Natural Gas, Inc.

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