

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
Rosanne Ratkiewich, Senior Analyst, Energy Division; Rosanne.ratkiewich@cpuc.ca.gov
Kimberley Loo, PG&E; KELM@pge.com
Lisa Wan, PG&E; Lisa.Wan@PGE.com
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.



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

Fax: 415-973-3582

January 20, 2023

Advice 6364-E-A

(Pacific Gas and Electric Company ID U 39 E)

Public Utilities Commission of the State of California

Subject: 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

Purpose

Pursuant to Ordering Paragraph (“OP”) 2 of Decision (“D.”) 21-07-011 (“Decision”) and requests from the California Public Utilities Commission’s (Commission or CPUC) Energy Division staff, Pacific Gas and Electric Company (“PG&E”) hereby submits additional modifications to its applicable electric standby rate schedules and companion agreements. The revised tariff sheets are listed on Attachment 1 and are attached hereto. The purpose of this advice letter is to supplement, in part, PG&E’s Advice Letter (“AL”) 6364-E.

PG&E’s AL 6364-E seeks to modify PG&E’s Standby tariff, Schedule S and SB, to comply with the Commission’s order in the Decision. The modifications set forth (i) the eligibility criteria for customers to qualify for the suspension of the Capacity Reservation Component (“CRC”) of the Standby Reservation Charge, and (ii) the Demand Assurance Amount applicable to customers whose load demand exceeds their capacity reservation amount. This supplemental advice letter does not change the substance of AL 6364-E except as provided herein.

Background

The Commission 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 Decision (“D.”) 21-07-011, which suspends the CRC of utility standby charges for eligible microgrids that meet California Air Resources Board (“CARB”) air pollution standards for distributed generation, among other requirements. Specifically, D.21-07-011 provides that the suspension of the CRC of the standby charge is limited to specific eligibility and microgrid performance requirements.

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.
- 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.
- 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 to reapply.

On July 12, 2022, PG&E received further clarification that the investor-owned utilities (“IOUs”) should 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). The Energy Division stated that for administrative ease and consistency, the compliance filings can be submitted based on the schedule that the IOUs proposed.¹

Tariff Revisions

Pursuant to the Energy Division’s request to supplement AL 6364-E, PG&E proposes the following additional modifications to its tariff.

Implementation Timeline

In lieu of the originally requested 120 days, PG&E requests a shortened period of 45 days after the Commission approval for utility implementation.

¹ The performance standard certification will be submitted by the Microgrid customers on January 31 and July 31 of every year. Accordingly, the IOUs proposed to submit the performance standard certification received the following month. As for the emission standard report, the IOUs proposed to submit the emissions standard report received from the Microgrid customers on January 31 annually.

Revision to Special Condition in Schedules S and SB

PG&E proposes to add the following subsection (f) to Schedule S Special Condition 16 and Schedule SB Special Condition 15 - Documentation required for Customer to demonstrate eligibility for treatment as a Low Variability Microgrid Standby Customer.

For demonstrating ongoing compliance with the first emissions criteria [on p. 45 of **D.21-07-011** stated in both Special Condition 16 in Schedule S and Special Condition 15 in Schedule SB] and Form 79-1219, the customer shall annually, upon both application and renewal, provide the utilities with either: (a) certification from the CARB that the microgrid resource receiving a standby charge exemption continues to be certified, or has been re-certified, 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; or (b) independently verified, reputable third-party bench test data demonstrating that the resource continues to meet 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 (“CARB Emissions Standards”), regardless of if the resource is required to obtain certification. To satisfy (b), the customer may provide to the IOU:

1. the annual emissions report the customer transmits to the customer’s local air district;
2. the same information requested of the customer by the Air Pollution Control Officer regarding emissions from the equipment; or
3. an attestation that the periodic emissions information they are providing is accurate.

Electric Form 79-285

PG&E does not propose additional changes to Form 79-285 - Special Agreement for Electrical Standby Service.

Electric Form 79-1219

PG&E proposes to add the following in the new application, *Form 79-1219 – Low Variability Microgrid Standby Customer Application for Standby Waiver Per Special Condition 16 of Schedule S and Special Condition 15 of Schedule SB.*

2. Semi-annual and Annual Performance Standard Certification

For demonstrating compliance with the Microgrid performance criteria, PG&E will accept either: (1) independently verified, reputable third-party bench test data over a shorter time period that when extrapolated would meet the performance standards adopted in CPUC Decision 21-07-011; or (2) actual, real-time operating

performance data from substantially similar equipment demonstrating that it meets the performance standards adopted by D.21-07-011. Additionally, PG&E will accept actual real-time operating performance data documenting that the Low Variability Microgrid Standby Customer's operation of the Microgrid continues to comply with the Microgrid performance standard semi-annually thereafter. Customers designated as Low Variability Microgrid Standby Customers will need to submit the semi-annual third-party certification by January 31 and July 31 each year for the period July-December and January-June, respectively. The performance standards certification or report received from a Low Variability Microgrid Standby Customer will be submitted by PG&E to the CPUC's Energy Division via compliance filing (i.e., Energy Division electronic mailbox) semiannually by February 28 and August 31. Failure to maintain semi-annual certification of the microgrid performance standards shall result in immediate termination from the Capacity Reservation Charge (CRC) suspension. 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 CRC no earlier than one year from termination by PG&E.

2. Emissions Certification

For demonstrating ongoing compliance with the first emissions criteria [on p. 45 of **D.21-07-011** stated in both Special Condition 16 in Schedule S and Special Condition 15 in Schedule SB], the customer shall annually, upon both application and renewal, provide the utilities with either: (a) certification from the CARB that the microgrid resource receiving a standby charge exemption continues to be certified, or has been re-certified, 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; or (b) independently verified, reputable third-party bench test data demonstrating that the resource continues to meet 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 ("CARB Emissions Standards"), regardless of if the resource is required to obtain certification. To satisfy (b), the customer may provide to the IOU:

1. the annual emissions report the customer transmits to the customer's local air district;
2. the same information requested of the customer by the Air Pollution Control Officer regarding emissions from the equipment; or
3. an attestation that the periodic emissions information they are providing is accurate.

TIER DESIGNATION

Pursuant to OP 2 of D.21-07-011, this supplemental advice letter is submitted with a Tier 2 designation.

Protests

Anyone wishing to protest this submittal may do so by letter sent electronically via E-mail, no later than February 9, 2023, which is 20 days after the date of this submittal. Protests must be submitted to:

CPUC Energy Division
ED Tariff Unit
E-mail: EDTariffUnit@cpuc.ca.gov

The protest shall also be electronically sent to PG&E via E-mail at the address shown below on the same date it is electronically delivered to the Commission:

Sidney Bob Dietz II
Director, Regulatory Relations
c/o Megan Lawson
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 and 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. Advice 6364-E requests that it become effective on November 21, 2021, 30 calendar days after the date submitted. Because Advice 6364-E has been suspended beyond that date, PG&E requests that the tariff modifications made in Advice 6364-E and 6364-E-A be effective upon approval of the advice letter.

Notice

In accordance with General Order 96-B, Section IV, a copy of this advice letter is being sent electronically 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



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-A

Tier Designation: 2

Subject of AL: Supplemental: 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:

No. of tariff sheets: 29

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.
55146-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 15 of Schedule SB Sheet 1	
55147-E	ELECTRIC SCHEDULE S STANDBY SERVICE Sheet 3	40245-E
55148-E	ELECTRIC SCHEDULE S STANDBY SERVICE Sheet 7	52142-E
55149-E	ELECTRIC SCHEDULE S STANDBY SERVICE Sheet 11	52146-E
55150-E	ELECTRIC SCHEDULE S STANDBY SERVICE Sheet 12	52147-E
55151-E	ELECTRIC SCHEDULE S STANDBY SERVICE Sheet 14	52149-E
55152-E	ELECTRIC SCHEDULE S STANDBY SERVICE Sheet 17	52152-E
55153-E	ELECTRIC SCHEDULE S STANDBY SERVICE Sheet 20	52155-E
55154-E	ELECTRIC SCHEDULE S STANDBY SERVICE Sheet 21	
55155-E	ELECTRIC SCHEDULE S STANDBY SERVICE Sheet 22	
55156-E	ELECTRIC SCHEDULE S STANDBY SERVICE Sheet 23	
55157-E	ELECTRIC SCHEDULE S STANDBY SERVICE Sheet 24	
55158-E	ELECTRIC SCHEDULE SB STANDBY SERVICE Sheet 2	45640-E

Cal P.U.C. Sheet No.	Title of Sheet	Cancelling Cal P.U.C. Sheet No.
55159-E	ELECTRIC SCHEDULE SB STANDBY SERVICE Sheet 3	55035-E
55160-E	ELECTRIC SCHEDULE SB STANDBY SERVICE Sheet 7	53543-E
55161-E	ELECTRIC SCHEDULE SB STANDBY SERVICE Sheet 8	53544-E
55162-E	ELECTRIC SCHEDULE SB STANDBY SERVICE Sheet 10	53546-E
55163-E	ELECTRIC SCHEDULE SB STANDBY SERVICE Sheet 13	53549-E
55164-E	ELECTRIC SCHEDULE SB STANDBY SERVICE Sheet 14	53550-E
55165-E	ELECTRIC SCHEDULE SB STANDBY SERVICE Sheet 15	55039-E
55166-E	ELECTRIC SCHEDULE SB STANDBY SERVICE Sheet 16	53552-E
55167-E	ELECTRIC SCHEDULE SB STANDBY SERVICE Sheet 17	53553-E
55168-E	ELECTRIC SCHEDULE SB STANDBY SERVICE Sheet 18	53554-E
55169-E	ELECTRIC SCHEDULE SB STANDBY SERVICE Sheet 19	
55170-E	ELECTRIC SCHEDULE SB STANDBY SERVICE Sheet 20	
55171-E	ELECTRIC SCHEDULE SB STANDBY SERVICE Sheet 21	
55172-E	ELECTRIC TABLE OF CONTENTS Sheet 1	55042-E

Cal P.U.C. Sheet No.	Title of Sheet	Cancelling Cal P.U.C. Sheet No.
55173-E	ELECTRIC TABLE OF CONTENTS Sheet 6	55097-E
55174-E	ELECTRIC TABLE OF CONTENTS Sheet 30	52256-E
55175-E	ELECTRIC TABLE OF CONTENTS Sheet 31	54792-E*



Electric Sample Form No. 79-1219

Sheet 1

Low Variability Microgrid Standby Customer Application for Standby Waiver Per Special Condition 16 of
Schedule S and Special Condition 15 of Schedule SB

**Please Refer to Attached
Sample Form**

(Continued)

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

Issued by
Meredith Allen
Vice President, Regulatory Affairs

Submitted January 20, 2023
Effective _____
Resolution _____



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: _____

Service 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 Reservation Capacity 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.**

3. Semi-annual and Annual Performance Standard Certification

For demonstrating compliance with the Microgrid performance criteria, PG&E will accept either: (1) independently verified, reputable third-party bench test data over a shorter time period that when extrapolated would meet the performance standards adopted in CPUC Decision 21-07-011; or (2) actual, real-time operating performance data from substantially similar equipment demonstrating that it meets the performance standards adopted by D.21-

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

07-011. Additionally, PG&E will accept actual real-time operating performance data documenting that the Low Variability Microgrid Standby Customer's operation of the Microgrid continues to comply with the Microgrid performance standard semi-annually thereafter. Customers designated as Low Variability Microgrid Standby Customers will need to submit the semi-annual third-party certification by January 31 and July 31 each year for the period July-December and January-June, respectively. The performance standards certification or report received from a Low Variability Microgrid Standby Customer will be submitted by PG&E to the CPUC's Energy Division via compliance filing (i.e., Energy Division electronic mailbox) semiannually by February 28 and August 31. Failure to maintain semi-annual certification of the microgrid performance standards shall result in immediate termination from the Capacity Reservation Charge (CRC) suspension. 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 CRC no earlier than one year from termination by PG&E.

4. Emissions Certification

For demonstrating ongoing compliance with the first emissions criteria [on p. 45 of **D.21-07-011** stated in both Special Condition 16 in Schedule S and Special Condition 15 in Schedule SB], the customer shall annually, upon both application and renewal, provide the utilities with either: (a) certification from the CARB that the microgrid resource receiving a standby charge exemption continues to be certified, or has been re-certified, 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; or (b) independently verified, reputable third-party bench test data demonstrating that the resource continues to meet 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 ("CARB Emissions Standards"), regardless of if the resource is required to obtain certification. To satisfy (b), the customer may provide to the IOU:

1. the annual emissions report the customer transmits to the customer's local air district;
2. the same information requested of the customer by the Air Pollution Control Officer regarding emissions from the equipment; or
3. an attestation that the periodic emissions information they are providing is accurate.



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 SCHEDULE S
STANDBY SERVICE**

Sheet 7

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.
- 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.

(N)
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(N)

(Continued)

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

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Submitted January 20, 2023
Effective _____
Resolution _____



**ELECTRIC SCHEDULE S
STANDBY SERVICE**

Sheet 11

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 operating 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.

(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)

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**ELECTRIC SCHEDULE S
STANDBY SERVICE**

Sheet 12

SPECIAL
CONDITIONS:
(Cont'd.)

2. REACTIVE DEMAND CHARGE (Cont'd)

Customers operating generators subject to exemption from paying the Reactive Demand Charge must comply with valid PG&E switching center voltage orders, as defined below for the purposes of this Special Condition 2. Upon request, the customer shall provide PG&E with written documentation sufficient to confirm customer's compliance with valid PG&E switching center voltage orders. Failure of the customer to comply with a valid PG&E switching center voltage order shall result in the following actions by PG&E: (T)

- a. On the initial noncompliance occurrence or an occurrence of noncompliance following the imposition of a penalty, PG&E will provide to the customer in writing, through U.S. or electronic mail, the date and nature of the noncompliance and notice that another failure to comply within the next 12 months will result in assessment of a penalty.
- b. On any second or further event of noncompliance within 12 months of the prior noncompliance occurrence, a penalty will be billed to the account, equal to the lesser of the number of months since the last noncompliance penalty and the number 12, multiplied by the highest created Reactive Demand in the most recent noncompliance period, multiplied by the current Reactive Demand Charge rate.
- c. Customer eligibility for the exemption shall not be interrupted after a subsequent noncompliance occurrence (after a prior warning has been issued). However, a penalty for noncompliance as described here will be billed to the account.

A valid PG&E switching center voltage order shall specify the requested operating voltage, as measured at the customer's generator terminals (or some other mutually agreeable metering location), and shall request operation of the customer's generator within a power factor range that is no stricter than: (1) the customer's power factor range obligation as specified in a contractual agreement (if any); (2) the minimum power factor range specified by the applicable CAISO tariff; or (3) the customer specified generator equipment limits.

Notwithstanding any other provision of this Special Condition 2, a valid PG&E switching center voltage order request shall ordinarily allow operation of the customer's generator within a power factor range that does not require the generator to reduce its MW output in order to comply with such request, with exceptions only to occur on an emergency basis, such as an unexpected loss of a major transmission line or large generation facility, or under extreme weather and/or system peak load conditions. No such exceptional voltage order request need be treated as valid if compliance with such a request would conflict with any protections that might be afforded to the customer's load in those instances where a valid Essential Use Customer designation applies to the load at the site.

(Continued)

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**ELECTRIC SCHEDULE S
STANDBY SERVICE**

Sheet 14

SPECIAL
CONDITIONS:
(Cont'd.)

7. SUPPLEMENTAL STANDBY SERVICE (BACKUP REQUIREMENTS):

- a. Schedule E-19 and Schedule E-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 S 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 E-19 or E-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 E-19 or E-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 (30) 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 S 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)

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**ELECTRIC SCHEDULE S
STANDBY SERVICE**

Sheet 17

SPECIAL
CONDITIONS:
(Cont'd.)

13. **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.

14. **SCHEDULED MAINTENANCE:** Customers may be allowed to place maintenance load on the distribution system during mutually agreed times (Scheduled Maintenance). The electric demand (kW) incurred during the mutually agreed scheduled maintenance period will be waived. 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)
(T)

15. **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.

(Continued)



**ELECTRIC SCHEDULE S
STANDBY SERVICE**

Sheet 20

SPECIAL
CONDITIONS:
(Cont'd.)

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

j) Definitions: (Cont'd)

(T)

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.

(N)

(Continued)



**ELECTRIC SCHEDULE S
STANDBY SERVICE**

Sheet 21

SPECIAL
CONDITIONS:
(Cont'd.)

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

(N)

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 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)



**ELECTRIC SCHEDULE S
STANDBY SERVICE**

Sheet 22

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)

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**ELECTRIC SCHEDULE S
STANDBY SERVICE**

Sheet 23

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 (Cont'd):

- a. The customer shall annually, upon both application and renewal, provide the utilities with either: (a) certification from the CARB that the microgrid resource receiving a standby charge exemption continues to be certified, or has been re-certified, 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; or (b) independently verified, reputable third-party bench test data demonstrating that the resource continues to meet the emissions standards adopted by the State Air Resources Board pursuant to the distributed generation certification Code of Regulations, or any successor regulation ("CARB Emissions Standards"), regardless of if the resource is required to obtain certification. To satisfy (b), the customer may provide to the IOU:
 - 1. the annual emissions report the customer transmits to the customer's local air district;
 - 2. the same information requested of the customer by the Air Pollution Control Officer regarding emissions from the equipment; or
 - 3. an attestation that the periodic emissions information they are providing is accurate.

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

(N)

(Continued)

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**ELECTRIC SCHEDULE S
STANDBY SERVICE**

Sheet 24

SPECIAL
CONDITIONS:
(Cont'd.)

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

(N)

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 15 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 BUNDLED TIME-OF-USE 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)	\$10.15 (R)	\$10.15 (R)	\$2.21 (I)
Total Energy Rates (\$ per kWh)			
Peak Summer	\$0.78349 (I)	\$0.79079 (I)	\$0.16977 (I)
Part-Peak Summer	\$0.42840 (I)	\$0.43570 (I)	\$0.15780 (I)
Off-Peak Summer	\$0.15974 (I)	\$0.16704 (I)	\$0.14448 (I)
Peak Winter	\$0.18640 (I)	\$0.19370 (I)	\$0.16507 (I)
Off-Peak Winter	\$0.16090 (I)	\$0.16820 (I)	\$0.14572 (I)
Super Off-Peak Winter	\$0.11675 (I)	\$0.12405 (I)	\$0.10150 (I)
Power Factor Adjustment Rate (\$/kWh/%)	\$0.00005	\$0.00005	\$0.00005

(Continued)



**ELECTRIC SCHEDULE SB
STANDBY SERVICE**

Sheet 7

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 15. The Low Variability Microgrid Standby Customer will pay a Demand Assurance Amount when capacity used in any month exceeds the Capacity Reservation Amount.

(N)
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(N)
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(L)
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(L)

(Continued)



**ELECTRIC SCHEDULE SB
STANDBY SERVICE**

Sheet 10

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 13

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 14

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 15

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 generation and delivery service solely from PG&E. The customer's bill is based on the Unbundling of Total Rates and Conditions set forth in this schedule.

Transitional Bundled Service (TBS) Customers take TBS as prescribed in Rules 22.1 and 23.1, or take PG&E bundled service prior to the end of the six (6) month advance notice period required to elect PG&E bundled service as prescribed in Rules 22.1 and 23.1. TBS customers shall pay all charges shown in the Unbundling of Total Rates except for the Bundled Power Charge Indifference Adjustment and the generation charge. TBS customers shall also pay for their applicable Vintaged Power Charge Indifference Adjustment provided in the table below, and the for short-term commodity prices as set forth in Schedule TBCC.

Direct Access (DA) and Community Choice Aggregation (CCA) Generation Service Customers purchase energy from their non-utility provider and continue receiving delivery services from PG&E. These customers shall pay all charges shown in the Unbundling of Total Rates except for the Bundled Power Charge Indifference Adjustment and the generation charge. These customers shall also pay for their applicable Vintaged Power Charge Indifference Adjustment provided in the table below, the franchise fee surcharge provided in Schedule E-FFS, and the Generation Service from their non-utility provider. Exemptions to charges for DA and CCA customers are set forth in Schedules DA CRS and CCA CRS.

Vintaged Power Charge Indifference Adjustment (per kWh)	Rate
2009 Vintage	\$0.00065
2010 Vintage	\$0.00321
2011 Vintage	\$0.00290
2012 Vintage	\$0.00160
2013 Vintage	\$0.00239
2014 Vintage	\$0.00244
2015 Vintage	\$0.00241
2016 Vintage	\$0.00234
2017 Vintage	\$0.00203
2018 Vintage	\$0.00185
2019 Vintage	\$0.00016
2020 Vintage	(\$0.00115)
2021 Vintage	(\$0.00275)
2022 Vintage	\$0.00913
2023 Vintage	\$0.00913

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 16

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). 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 14 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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STANDBY SERVICE**

Sheet 17

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 14 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. (T)
 - 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 14. Customers shall be re-billed during periods of ineligibility under the provisions of retail standby service under Schedule SB. (T)
 - 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 14. (T)
 - 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 14. (T)
 - h. **Metering:** Prior to receiving service under Special Condition 14, the customer shall: (T)
 - 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.

(Continued)



**ELECTRIC SCHEDULE SB
STANDBY SERVICE**

Sheet 18

SPECIAL
CONDITIONS:
(Cont'd.)

(D)
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(D)

15. LOW VARIABILITY MICROGRID STANDBY CUSTOMER

(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.
- 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.

(N)

(Continued)



**ELECTRIC SCHEDULE SB
STANDBY SERVICE**

Sheet 19

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 20

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):

- a. 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.
- b. The customer shall annually, upon both application and renewal, provide the utilities with either: (a) certification from the CARB that the microgrid resource receiving a standby charge exemption continues to be certified, or has been re-certified, 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; or (b) independently verified, reputable third-party bench test data demonstrating that the resource continues to meet the emissions standards adopted by the State Air Resources Board pursuant to the distributed generation certification Code of Regulations, or any successor regulation ("CARB Emissions Standards"), regardless of if the resource is required to obtain certification. To satisfy (b), the customer may provide to the IOU:
 - 1. the annual emissions report the customer transmits to the customer's local air district;
 - 2. the same information requested of the customer by the Air Pollution Control Officer regarding emissions from the equipment; or
 - 3. an attestation that the periodic emissions information they are providing is accurate.

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

(N)

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**ELECTRIC SCHEDULE SB
STANDBY SERVICE**

Sheet 21

SPECIAL
CONDITIONS:
(Cont'd.)

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

(N)

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.

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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Attachment 2

Redline Tariff Revisions



**ELECTRIC SCHEDULE S
STANDBY SERVICE**

Sheet 3

APPLICABILITY (Cont'd): 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) paragraph and Community Choice Aggregation (CCA) charges shall be calculated in accordance with the 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)

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 7

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)



**ELECTRIC SCHEDULE S
STANDBY SERVICE**

Sheet 11

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 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)



**ELECTRIC SCHEDULE S
STANDBY SERVICE**

Sheet 12

SPECIAL
CONDITIONS:
(Cont'd.)

2. REACTIVE DEMAND CHARGE (Cont'd)

Customers operating ~~synchronous~~ generators subject to exemption from paying the Reactive Demand Charge must comply with valid PG&E switching center voltage orders, as defined below for the purposes of this Special Condition 2. Upon request, the customer shall provide PG&E with written documentation sufficient to confirm customer's compliance with valid PG&E switching center voltage orders. Failure of the customer to comply with a valid PG&E switching center voltage order shall result in the following actions by PG&E:

- a. On the initial noncompliance occurrence or an occurrence of noncompliance following the imposition of a penalty, PG&E will provide to the customer in writing, through U.S. or electronic mail, the date and nature of the noncompliance and notice that another failure to comply within the next 12 months will result in assessment of a penalty.
- b. On any second or further event of noncompliance within 12 months of the prior noncompliance occurrence, a penalty will be billed to the account, equal to the lesser of the number of months since the last noncompliance penalty and the number 12, multiplied by the highest created Reactive Demand in the most recent noncompliance period, multiplied by the current Reactive Demand Charge rate.
- c. Customer eligibility for the exemption shall not be interrupted after a subsequent noncompliance occurrence (after a prior warning has been issued). However, a penalty for noncompliance as described here will be billed to the account.

A valid PG&E switching center voltage order shall specify the requested operating voltage, as measured at the customer's generator terminals (or some other mutually agreeable metering location), and shall request operation of the customer's generator within a power factor range that is no stricter than: (1) the customer's power factor range obligation as specified in a contractual agreement (if any); (2) the minimum power factor range specified by the applicable CAISO tariff; or (3) the customer specified generator equipment limits.

Notwithstanding any other provision of this Special Condition 2, a valid PG&E switching center voltage order request shall ordinarily allow operation of the customer's generator within a power factor range that does not require the generator to reduce its MW output in order to comply with such request, with exceptions only to occur on an emergency basis, such as an unexpected loss of a major transmission line or large generation facility, or under extreme weather and/or system peak load conditions. No such exceptional voltage order request need be treated as valid if compliance with such a request would conflict with any protections that might be afforded to the customer's load in those instances where a valid Essential Use Customer designation applies to the load at the site.

(Continued)

Advice 6415-E
Decision

Issued by
Robert S. Kenney
Vice President, Regulatory Affairs

Submitted
Effective
Resolution

November 30, 2021
December 1, 2021



**ELECTRIC SCHEDULE S
STANDBY SERVICE**

Sheet 14

SPECIAL
CONDITIONS:
(Cont'd.)

7. SUPPLEMENTAL STANDBY SERVICE (BACKUP REQUIREMENTS):

- a. Schedule E-19 and Schedule E-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 S 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 E-19 or E-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 E-19 or E-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 ~~one complete regular billing cycle~~ thirty (30) 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 S 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.

(Continued)



**ELECTRIC SCHEDULE S
STANDBY SERVICE**

Sheet 17

SPECIAL
CONDITIONS:
(Cont'd.)

- 13. **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.
- 14. **SCHEDULED MAINTENANCE:** Customers may be allowed to place maintenance load on the distribution system during mutually agreed times (Scheduled Maintenance). The electric demand (kW) incurred during the mutually agreed scheduled maintenance period will be waived. 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.
- 15. **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.

(Continued)



**ELECTRIC SCHEDULE S
STANDBY SERVICE**

Sheet 20

SPECIAL
CONDITIONS:
(Cont'd.)

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

ij) 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.



**ELECTRIC SCHEDULE S
STANDBY SERVICE**

Sheet 20

SPECIAL
CONDITIONS:
(Cont'd.)

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

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 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.



**ELECTRIC SCHEDULE S
STANDBY SERVICE**

Sheet 20

SPECIAL
CONDITIONS:
(Cont'd.)

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

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.



**ELECTRIC SCHEDULE S
STANDBY SERVICE**

Sheet 20

SPECIAL
CONDITIONS:
(Cont'd.)

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

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

- f. The customer shall annually, upon both application and renewal, provide the utilities with either: (a) certification from the CARB that the microgrid resource receiving a standby charge exemption continues to be certified, or has been re-certified, 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; or (b) independently verified, reputable third-party bench test data demonstrating that the resource continues to meet the emissions standards adopted by the State Air Resources Board pursuant to the distributed generation certification Code of Regulations, or any successor regulation ("CARB Emissions Standards"), regardless of if the resource is required to obtain certification. To satisfy (b), the customer may provide to the IOU:
 - 1. the annual emissions report the customer transmits to the customer's local air district;
 - 2. the same information requested of the customer by the Air Pollution Control Officer regarding emissions from the equipment; or
 - 3. an attestation that the periodic emissions information they are providing is accurate.

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



**ELECTRIC SCHEDULE S
STANDBY SERVICE**

Sheet 20

SPECIAL
CONDITIONS:
(Cont'd.)

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

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.



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

(Continued)

Advice	5667-E	Issued by	Submitted	October 28, 2019
Decision	18-08-013	Robert S. Kenney	Effective	November 1, 2019
		Vice President, Regulatory Affairs	Resolution	



ELECTRIC SCHEDULE SB
STANDBY SERVICE

Sheet 2

(N)
(N)

- 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)

Advice 5667-E
Decision 18-08-013

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Robert S. Kenney
Vice President, Regulatory Affairs

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Effective
Resolution

October 28, 2019
November 1, 2019



**ELECTRIC SCHEDULE SB
STANDBY SERVICE**

Sheet 7

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 15. 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)



**ELECTRIC SCHEDULE SB
STANDBY SERVICE**

Sheet 10

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 ~~operating synchronous generators who are otherwise 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.

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 13

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 ~~one complete regular billing cycle~~ 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.

(Continued)

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Resolution

May 31, 2022
June 1, 2022



**ELECTRIC SCHEDULE SB
STANDBY SERVICE**

Sheet 14

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.

~~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.

(Continued)



**ELECTRIC SCHEDULE SB
STANDBY SERVICE**

Sheet 15

SPECIAL
CONDITIONS:
(Cont'd.)

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

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

Transitional Bundled Service (TBS) Customers take TBS as prescribed in Rules 22.1 and 23.1, or take PG&E bundled service prior to the end of the six (6) month advance notice period required to elect PG&E bundled service as prescribed in Rules 22.1 and 23.1. TBS customers shall pay all charges shown in the Unbundling of Total Rates except for the Bundled Power Charge Indifference Adjustment and the generation charge. TBS customers shall also pay for their applicable Vintaged Power Charge Indifference Adjustment provided in the table below, and the for short-term commodity prices as set forth in Schedule TBCC.

Direct Access (DA) and Community Choice Aggregation (CCA) Generation Service Customers purchase energy from their non-utility provider and continue receiving delivery services from PG&E. These customers shall pay all charges shown in the Unbundling of Total Rates except for the Bundled Power Charge Indifference Adjustment and the generation charge. These customers shall also pay for their applicable Vintaged Power Charge Indifference Adjustment provided in the table below, the franchise fee surcharge provided in Schedule E-FFS, and the Generation Service from their non-utility provider. Exemptions to charges for DA and CCA customers are set forth in Schedules DA CRS and CCA CRS.

Vintaged Power Charge Indifference Adjustment (per kWh)	Rate	
2009 Vintage	\$0.00065	(R)
2010 Vintage	\$0.00321	(R)
2011 Vintage	\$0.00290	(R)
2012 Vintage	\$0.00160	(R)
2013 Vintage	\$0.00239	(R)
2014 Vintage	\$0.00244	(R)
2015 Vintage	\$0.00241	(R)
2016 Vintage	\$0.00234	(R)
2017 Vintage	\$0.00203	(R)
2018 Vintage	\$0.00185	(R)
2019 Vintage	\$0.00016	(R)
2020 Vintage	(\$0.00115)	(R)
2021 Vintage	(\$0.00275)	(R)
2022 Vintage	\$0.00913	(R)
2023 Vintage	\$0.00913	(N)

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.

(Continued)



**ELECTRIC SCHEDULE SB
STANDBY SERVICE**

Sheet 16

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 ~~145~~ 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.

(Continued)



**ELECTRIC SCHEDULE SB
STANDBY SERVICE**

Sheet 17

SPECIAL
CONDITIONS:
(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 145 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 145. 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 145.
- 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 145.
- h. **Metering:** Prior to receiving service under Special Condition 145, 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.

(Continued)



**ELECTRIC SCHEDULE SB
STANDBY SERVICE**

Sheet 18

SPECIAL
CONDITIONS:
(Cont'd.)

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

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

~~j. **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 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.~~

(Continued)

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**ELECTRIC SCHEDULE SB
STANDBY SERVICE**

Sheet 18

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.

(Continued)



**ELECTRIC SCHEDULE SB
STANDBY SERVICE**

Sheet 18

SPECIAL
CONDITIONS:
(Cont'd.)

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

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

(Continued)



**ELECTRIC SCHEDULE SB
STANDBY SERVICE**

Sheet 18

SPECIAL
CONDITIONS:
(Cont'd.)

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

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.
- f. The customer shall annually, upon both application and renewal, provide the utilities with either: (a) certification from the CARB that the microgrid resource receiving a standby charge exemption continues to be certified, or has been re-certified, 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; or (b) independently verified, reputable third-party bench test data demonstrating that the resource continues to meet the emissions standards adopted by the State Air Resources Board pursuant to the distributed generation certification Code of Regulations, or any successor regulation ("CARB Emissions Standards"), regardless of if the resource is required to obtain certification. To satisfy (b), the customer may provide to the IOU:

 - 1. the annual emissions report the customer transmits to the customer's local air district;
 - 2. the same information requested of the customer by the Air Pollution Control Officer regarding emissions from the equipment;
or
 - 3. an attestation that the periodic emissions information they are providing is accurate.

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

(Continued)

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**ELECTRIC SCHEDULE SB
STANDBY SERVICE**

Sheet 18

SPECIAL
CONDITIONS:
(Cont'd.)

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

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.

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.

(Continued)

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Robert S. Kenney
Vice President, Regulatory Affairs

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Effective
Resolution

May 31, 2022
June 1, 2022

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

AT&T
Albion Power Company

Alta Power Group, LLC
Anderson & Poole

Atlas ReFuel
BART

Barkovich & Yap, Inc.
Braun Blaising Smith Wynne, P.C.
California Cotton Ginners & Growers Assn
California Energy Commission

California Hub for Energy Efficiency
Financing

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

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

Chevron Pipeline and Power
City of Palo Alto

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

Dept of General Services
Don Pickett & Associates, Inc.
Douglass & Liddell
Dish Wireless L.L.C.

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

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

iCommLaw
International Power Technology
Intertie

Intestate Gas Services, Inc.

Johnston, Kevin
Kelly Group
Ken Bohn Consulting
Keyes & Fox LLP
Leviton Manufacturing Co., Inc.

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

Modesto Irrigation District
NLine Energy, Inc.
NRG Solar

OnGrid Solar
Pacific Gas and Electric Company
Peninsula Clean Energy

Pioneer Community Energy

Public Advocates Office

Redwood Coast Energy Authority
Regulatory & Cogeneration Service, Inc.

Resource Innovations

SCD Energy Solutions
San Diego Gas & Electric Company

SPURR
San Francisco Water Power and Sewer
Sempra Utilities

Sierra Telephone Company, Inc.
Southern California Edison Company
Southern California Gas Company
Spark Energy
Sun Light & Power
Sunshine Design
Stoel Rives LLP

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