**PUBLIC UTILITIES COMMISSION**
**505 Van Ness Avenue**
**San Francisco CA 94102-3298**

# Pacific Gas & Electric Company
# ELC (Corp ID 39)
# Status of Advice Letter 6730E
**As of November 7, 2022**

Subject: Additional Modifications to the Community Microgrid Enablement Tariff (CMET) Pursuant to Resolution E-5127

Division Assigned: Energy

Date Filed: 10-07-2022

Date to Calendar: 10-14-2022

Authorizing Documents: E-5127

| | |
|---|---|
| **Disposition:** | **Accepted** |
| **Effective Date:** | **11-07-2022** |

Resolution Required: No

Resolution Number: None

Commission Meeting Date: None

CPUC Contact Information:

edtariffunit@cpuc.ca.gov

AL Certificate Contact Information:

Kimberly Loo
(415)973-4587
PGETariffs@pge.com

**PUBLIC UTILITIES COMMISSION**
**505 Van Ness Avenue**
**San Francisco CA 94102-3298**

To: Energy Company Filing Advice Letter

From: Energy Division PAL Coordinator

Subject: Your Advice Letter Filing

The Energy Division of the California Public Utilities Commission has processed your recent Advice Letter (AL) filing and is returning an AL status certificate for your records.

The AL status certificate indicates:

Advice Letter Number
Name of Filer
CPUC Corporate ID number of Filer
Subject of Filing
Date Filed
Disposition of Filing (Accepted, Rejected, Withdrawn, etc.)
Effective Date of Filing
Other Miscellaneous Information (e.g., Resolution, if applicable, etc.)

The Energy Division has made no changes to your copy of the Advice Letter Filing; please review your Advice Letter Filing with the information contained in the AL status certificate, and update your Advice Letter and tariff records accordingly.

All inquiries to the California Public Utilities Commission on the status of your Advice Letter Filing will be answered by Energy Division staff based on the information contained in the Energy Division's PAL database from which the AL status certificate is generated. If you have any questions on this matter please contact the:

Energy Division's Tariff Unit by e-mail to
**edtariffunit@cpuc.ca.gov**

Pacific Gas and Electric Company

**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

October 7, 2022

**Advice 6730-E**
(Pacific Gas and Electric Company ID U 39 E)

Public Utilities Commission of the State of California

**Subject:** **Additional Modifications to the Community Microgrid Enablement Tariff (CMET) Pursuant to Resolution E-5127**

## Purpose

Pursuant to Ordering Paragraph (OP) 7 of Resolution E-5127, Pacific Gas and Electric Company (PG&E) hereby seeks modifications to the Community Microgrid Enablement Tariff (CMET) to extend the CMET Availability Period beyond December 31, 2022, to enable eligibility of mid-feeder community microgrids, and to streamline the study process for community microgrids. Finally, PG&E seeks edits to improve clarity, address grammatical and other inadvertent errors, and remedy minor deficiencies regarding defined terms.

## Background

On January 21, 2020, PG&E filed a Proposal in Track 1 of Rulemaking (R.)19-09-009[1], which included a request for approval of a Community Microgrid Enablement Program ("CMEP") for the years 2020 through 2022. The program provides incremental technical and financial support on a prioritized basis for community requested microgrids for PSPS mitigation purposes. On June 11, 2020, the Commission adopted Decision (D.) 20-06-017, which approves PG&E's CMEP subject to certain requirements and directed that PG&E submit a Tier 2 Advice Letter containing CMEP implementation details.[2] PG&E submitted Advice Letter 5918-E on August 17, 2020, in conformance with that Decision, and included a pro forma CMET as Appendix 4 to that filing.

On March 18, 2021, the Commission issued Resolution E-5127, which adopted with modification PG&E's implementation plan for the CMEP, and approved PG&E's pro forma

[1] Order Instituting Rulemaking Regarding Microgrids Pursuant to Senate Bill 1339 and Resiliency Strategies
[2] D.20-06-017, Ordering Paragraph 17.

CMET "for use on an experimental basis."[3] Ordering Paragraph (OP) 7 of Resolution E-5127 provides that "PG&E may seek modifications to the CMEP, including the Community Microgrid Enablement Tariff, through a subsequent Tier 2 Advice Letter on its own motion or in response to direction from the Commission." PG&E previously submitted an Advice Letter seeking certain modifications to the CMET.[4] This Advice Letter seeks further modifications to extend the availability of the tariff, broaden eligibility, clarify terms, and correct inadvertent errors, as more fully detailed below.

## General Description of Proposed CMET Revisions

In this section, PG&E provides a general description by category of the changes it proposes to the CMET. Each of the proposed changes to the CMET is identified and summarized in Attachment A to this Advice Letter, and all changes are presented in redline form to the tariff in Attachment B. The clean revised version of CMET is shown in Attachment C.

### *A. Extension Beyond December 31, 2022.*

The Availability Period of the CMET currently extends until December 31, 2022. That date was chosen in order to align with the initial requested years of the CMEP: 2020-2022. In the Track 2 Decision in R.19-09-009, the CPUC affirmed its commitment to CMEP by directing PG&E in that Decision to propose changes to CMEP in order to integrate it more fully with the Microgrid Incentive Program (MIP), and by directing Southern California Edison Company (SCE) and San Diego Gas & Electric Company (SDG&E) to ensure their customers have access to a similar one-time matching funds payment similar to CMEP.[5] In a December 17, 2021 Amended Scoping Memo issued in R.19-09-009, the CPUC also affirmed its commitment to consider further a multi-customer microgrid tariff in Track 4 Phase 2 of the proceeding, which remains pending. At this time, the CMET remains the only tariff in effect for PG&E customers to develop front-of-the-meter multi-customer community microgrids. For this reason, PG&E seeks an amendment to make CMET available to customers and communities until the CPUC directs, approves, or

[3] Resolution E-5127, Ordering Paragraph 2. *See also id.*, p. 7 ("While the Commission grants conditional approval of the CMET using the proposed tariff language as a starting point, it will be important to remain open to change so this experimental tariff evolves with experience. There may be a legitimate concern if the CMET is overly restrictive or inappropriately limiting participation in a contract or agreement.")

[4] On August 5, 2021, PG&E submitted Advice Letter 6283-E seeking modifications to the CMET to distinguish eligibility for the CMET from eligibility for the CMEP by removing certain CMET eligibility restrictions. That AL was approved by Disposition Letter on October 5, 2021.

[5] D.21-01-018 Decision Adopting Rates, Tariffs, and Rules Facilitating the Commercialization of Microgrids Pursuant to Senate Bill 1339 and Resiliency Strategies, p.62 and Ordering Paragraph (OP) 6. In conformance with that Decision, the Joint Utilities filed their Microgrid Incentive Program Implementation Plan on December 3, 2021. The CPUC has not issued a Decision at this time on that Plan.

makes effective a request that CMET be closed, as described in Section 4 (CMET Period) of the redlined tariff.

*B. Remove Single Microgrid Islanding Point Requirement*.

In engagements with communities through the CMEP, PG&E notes that the tariff's requirement that microgrids have a single Microgrid Islanding Point has impeded the potential development of mid-feeder microgrids, which, by design, will require more than one Microgrid Islanding Point. PG&E hereby seeks to remove such limitation in Section 3.3 of the tariff.

*C. Enable Parallel Work on Interconnection Study and Microgrid Islanding Study.*

Section 5.4 of the tariff currently includes a requirement that the CMET Applicant notify PG&E within 5 calendar days of review of the Interconnection Study of its agreement to proceed with a Microgrid Islanding Study (MIS) or its withdrawal of the Application. Such a stipulation enforces an unnecessary sequential timing between the completion of the Interconnection Study and the initiation of the MIS, denying any possibility of parallel workstreams and associated reduction in overall study timelines. As the elements of the MIS have come into sharper focus, it has become clear that the MIS can indeed begin prior to the completion of the interconnection study. In order to save the CMET Applicant project's time in the study process, PG&E seeks to remedy this by removal of paragraph 5.4, and insertion of a new paragraph 6.1 at the start of the MIS section of the new redlined tariff.

*D. Clarify 20MW Export Capacity*.

PG&E proposes several edits throughout the CMET for clarity. For example, in Section 3.3, the tariff includes a requirement that the CMET Project "must include interconnected exporting energy producing resources (Project Resources) that do not exceed 20MW in aggregate". However, it was not specified whether that 20MW referred to nameplate capacity or export capacity. PG&E seeks to clarify that "export capacity" is intended, with an edit to Section 3.3 of the CMET.

*E. Improve Clarity, Readability, and Accuracy of CMET.*

Finally, PG&E proposes several other minor edits throughout the CMET for clarity, grammar, remedy of inadvertent errors, and clarification of defined terms.

**Attachments**

**Attachment A**: Detailed Summary of Proposed Changes to the CMET
**Attachment B**: Redline comparing the Proposed CMET to the CMET Currently in Effect
**Attachment C**: Clean Sheets of CMET

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

**Protests**

Anyone wishing to protest this submittal may do so by letter sent electronically via E-mail, no later than October 27, 2022, 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 7 of Resolution E-5127), this advice letter is submitted with a Tier 2 designation. PG&E requests that this Tier 2 advice submittal become effective on regular notice, November 6, 2022, which is 30 calendar days after the date of submittal.

**Notice**

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

/S/

Sidney Bob Dietz II
Director, Regulatory Relations

Attachments

cc: Service List R.19-09-009
Joyce Steingass, Joyce.Steingass@cpuc.ca.gov
Jessica Tse, Jessica.Tse@cpuc.ca.gov

# California Public Utilities Commission

# ADVICE LETTER SUMMARY

ENERGY UTILITY

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

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

Utility type:
- [x] 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) #: 6730-E

Tier Designation: 2

Subject of AL: Additional Modifications to the Community Microgrid Enablement Tariff (CMET) Pursuant to Resolution E-5127

Keywords (choose from CPUC listing): Compliance

AL Type: [ ] Monthly [ ] Quarterly [ ] Annual [x] One-Time [ ] Other:

If AL submitted in compliance with a Commission order, indicate relevant Decision/Resolution #:
Resolution E-5127

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 [x] 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 [x] No

Requested effective date: 11/6/22

No. of tariff sheets: 15

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 C

Service affected and changes proposed[1]: N/A

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

[1]Discuss in AL if more space is needed.

Clear Form

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

| | |
|---|---|
| California Public Utilities Commission<br>Energy Division Tariff Unit Email:<br>EDTariffUnit@cpuc.ca.gov | Contact Name: Sidney Bob Dietz II, c/o Megan Lawson<br>Title: Director, Regulatory Relations<br>Utility/Entity Name: Pacific Gas and Electric Company<br><br>Telephone (xxx) xxx-xxxx:<br>Facsimile (xxx) xxx-xxxx:<br>Email: PGETariffs@pge.com |
| | Contact Name:<br>Title:<br>Utility/Entity Name:<br><br>Telephone (xxx) xxx-xxxx:<br>Facsimile (xxx) xxx-xxxx:<br>Email: |

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

Clear Form

Advice 6730-E
October 7, 2022

# Attachment A

## Detailed Summary of Proposed Changes to the CMET

Detailed Summary of Proposed Changes to the Community Microgrid Enablement Tariff (CMET)
Attachment A

| Section | Change | Justification | Category |
|---|---|---|---|
| 1 | Remove two references to CMEP | AL 6283-A, approved via Disposition Letter on 10/5/21, made edits to CMET to distinguish eligibility between CMET and CMEP. While the first usage of "CMEP" in this paragraph is correct, the second two are legacy language and should be removed. | CGI |
| 1 | Replace Section letters with numbers | Inadvertent formatting error | CGI |
| 3.3 | Specify “export capacity” of 20MW | The current language is unclear as to whether the 20 MW limit refers to nameplate or export capacity. PG&E seeks to clarify that "export capacity" is intended. | CGI |
| 3.3 | Remove “single Microgrid Islanding Point” | The current language excludes mid-feeder microgrids. See Advice Letter for further explanation. | O |
| 3.3 | Specify PG&E's WDT Generator Interconnection Procedures | Seeking to clarify the interconnection procedure with specificity. Additions of "GIP" after "PG&E's WDT" made throughout tariff for clarity. | CGI |
| 4 | Extend CMET Availability Period | End date of 12/31/22 needs to be extended. See Advice Letter for further explanation. | O |
| 5.4 | Eliminate sequential timing requirement between Interconnection Study and Microgrid Islanding Study (MIS) | See addition of paragraph 6.1, and see Advice Letter for further explanation. | O |
| 6.1 | Add new paragraph describing initiation of MIS | Addition for clarity to indicate that the parties may agree to initiate the MIS prior to completion of the interconnection study. | O |
| 6.2 | Add "requiring cooperation of the Applicant" | Addition for clarity to ensure applicant is aware that MIS will require their participation. | CGI |
| 6.2 | Replace "Facilities" with "Islanding" | Inadvertent use of "Microgrid Facilities Study" in place of "Microgrid Islanding Study" | CGI |
| 6.2 | Replace "CMET Project" SFA with "Microgrid" SFA | Rename for clarity | CGI |
| 6.3.a | Add "Microgrid" prior to "SFA"; Replace "Project SFA" with "Microgrid SFA" | Rename for clarity | CGI |



CGI – Clarity, Grammar or Inadvertent Error
DT – Defined term/not defined term
O - Other

| | | | |
|---|---|---|---|
| 6.3.a | Remove "and agree in writing to enter into a Microgrid Operating Agreement" | Section 7.3.a contains language regarding timing requirement for MOA | CGI |
| 6.3.b | Remove unnecessary paragraph | This is controlled by the interconnection tariff; seeking to avoid conflicts between that tariff and the CMET. | CGI |
| 6.3.b | Add "of the Microgrid Special Facilities Agreement" | Addition for clarity | CGI |
| 7 | Add "and/or other similar agreement(s) to carry out this tariff" | The Project development may be governed partially or in full by a separate agreement between the CMA and PG&E. | CGI |
| 7.3 | Change from "Material Modification" to "System Change" | System Change is the term used in the MOA. Seeking to avoid confusion with the interconnection process, which uses "Material Modification", and has distinct criteria. | DT |
| 8.1 | Remove capitalization of "services" | Not a defined term | DT |
| 8.2 | Replace "Section E" with "Section 5" | Inadvertent formatting error | CGI |
| 8.3 | Capitalize "Special Facilities" | "Special Facilities" is a defined term | DT |
| 9.2 | Remove excess “Island mode” | Inadvertent grammatical error | CGI |
| 9.3 | Spell out PPA | First usage of PPA should be spelled out | CGI |
| 10.1 | Add "with" | Inadvertent grammatical error | CGI |
| 14 | Remove "Affected System" | Only used in the Definitions, not in the tariff. Does not need to be a defined term. | DT |
| 14.3 | Capitalize "Distribution Service" | "Distribution Service" is a defined term | DT |
| 14.4 | Replace "generation" with "CMET Project Resources" | Updated for clarity; "Project Resources" is a defined term | CGI |
| 14.5 | Remove "one Critical Facility and at least one other customer" | CMET Eligibility was updated in AL 6283-E and approved via Disposition Letter dated October 5, 2021. This paragraph was not updated inadvertently. | CGI |
| 14.8 | Replace "D.19-05-042" with "R.18-12-005" | The definition of "Critical Facilities" has been updated multiple times in various Decisions within the Proceeding. | CGI |



CGI – Clarity, Grammar or Inadvertent Error
DT – Defined term/not defined term
O - Other

| | | | |
|---|---|---|---|
| 14.10 | Remove capitalization of “distribution customer”, “point(s) of receipt”, and “point(s) of delivery” | Not defined terms | DT |
| 14.11 | “apply” not “applies” | Grammatical error | CGI |
| 14.13 | Remove capitalization of "scheduled" and "operation" | "scheduled Island Mode operation" is not a defined term | DT |
| 14.14 | Add “May also be referred to as a Project Resource” | Additional language for clarity | CGI |
| 14.16 | Add “Interconnection Agreement” definition | Addition of new defined term for clarity | DT |
| 14.18 | Replace “Grid Connected” with “Blue Sky" Mode | “Blue Sky Mode” is a defined term. “Grid Connected” is not. | DT |
| 14.18 | Add “and Distribution Provider” | Addition for clarity | CGI |
| 14.19 | Remove “Material Modification” definition and replace with “System Change” | To avoid confusion with interconnection agreement terminology. See Section 7.4. | DT |
| 14.21 | Capitalize Distribution System | Distribution System is a defined term | DT |
| 14.22 | Add “or its agents” | Addition for clarity | CGI |
| 14.22 | Add “to support Island Mode” | Addition for clarity | CGI |
| 14.25 | Add “Microgrid Special Facilities” definition | Defined term used throughout document | DT |
| 14.26 | Rename and edit “Microgrid Special Facilities Agreement” definition | For clarity and to align with the definition used in the MIP | DT |
| 14.27 | Remove “Project Special Facilities Agreement” definition | Replaced by “Microgrid Special Facilities Agreement” | DT |



CGI – Clarity, Grammar or Inadvertent Error
DT – Defined term/not defined term
O - Other

| | | | |
|---|---|---|---|
| 14.32 | Add “Special Facilities” definition | Defined term used throughout CMET | DT |
| 14.34 | Add "System Change" definition | Defined term, replaces "Material Modification". See Sections 7.4 and 14.19. | DT |



CGI – Clarity, Grammar or Inadvertent Error
DT – Defined term/not defined term
O - Other

# Attachment B

## Redline comparing the Proposed CMET to the CMET Currently in Effect

**ELECTRIC SCHEDULE E-CMET** Sheet 1
COMMUNITY MICROGRID ENABLEMENT TARIFF

1. APPLICABILITY: The Community Microgrid Enablement Tariff (CMET) schedule (Schedule CMET or this Schedule) implements, in part, on an experimental basis the Community Microgrid Enablement Program (CMEP) pursuant to Public Utilities Commission (CPUC) Decision (D.) D.20-06-017 and CPUC Resolution E-5127. This CMET governs the eligibility, engineering studies, development, and island and transitional operation of Community Microgrids, as defined herein~~, under the CMEP~~. As an experimental tariff ~~associated with a limited CMEP~~, this Schedule is available, on a first-come, first-served basis, to applicants (CMET Applicants) who (i) meet the CMET Eligibility Criteria in Section ~~C~~3, and (ii) submit a complete CMET Application (Application). This Schedule will close to CMET Applicants on the date set forth in Section ~~D~~4, below. Capitalized terms specific to this tariff are defined in section ~~N~~ 14 below.

2. TERRITORY: This schedule applies throughout PG&E's electric service area.

3. CMET ELIGIBILITY CRITERIA: A CMET Applicant must meet all of the eligibility criteria outlined below (CMET Eligibility Criteria):

   1. Community Microgrid: The CMET Project must meet the needs of at least two customers or two customer premises connected by PG&E's distribution infrastructure within the Microgrid Boundary. All customers within the Microgrid Boundary of the CMET Project must be PG&E retail distribution customers; provided that, where PG&E determines in its sole discretion that inclusion of electrical loads or customers which do not take PG&E retail distribution service in a CMET Project will benefit PG&E retail distribution customers, PG&E may agree to the inclusion of such loads and/or customers and will submit a notice of and justification for this determination through a Tier 1 Advice Letter.

   2. Location: The CMET project must be located in an area served, entirely or in part, by PG&E retail distribution service.

(Continued)

3. CMET ELIGIBILITY CRITERIA (Cont'd.)

3. Community Microgrid Parameters: The CMET Project must include interconnected exporting energy producing resources (Project Resources) that do not exceed 20MW in aggregated export capacity within a clearly defined Microgrid in PG&E's Distribution System ~~with a single Microgrid Islanding Point~~; the CMET Project must act as a single, controllable entity; the CMET Project must be able to connect to, disconnect from, and run in parallel with larger portions of the electrical grid; and the CMET Project must be capable of maintaining electrical supply and service quality when isolated to connected customers during larger grid disturbances. Project Resources must be interconnected to PG&E's Distribution System pursuant to PG&E's Wholesale Distribution Tariff~~-~~, Attachment I "Generator Interconnection Procedures" (WDT GIP) and/or Electric Rule 21 as applicable.

4. Pre-Application Report: The CMET Applicant must complete a Community Microgrid Pre-Application Report (CM Pre-Application Report) and consultation with PG&E prior to submitting a CMET Application.

5. Applicant Experience: The CMET Applicant must provide to PG&E an attestation that at least one current member of its development team has: (a) completed the development of at least one microgrid project of similar technology and capacity; or (b) begun construction of at least one other project of similar technology and capacity. The CMET Applicant must identify the entity(ies), if not the Applicant, that will be responsible for development of the CMET Project and the entity that will be the CMET Aggregator responsible for coordinated operation with PG&E pursuant to Rule 24 and an executed CMET Microgrid Operating Agreement ("CMET MOA" or "MOA").

(Continued)

**ELECTRIC SCHEDULE E-CMET** Sheet 3 (N)
COMMUNITY MICROGRID ENABLEMENT TARIFF (N)

4. CMET PERIOD

CMET Availability Period: The CMET shall begin on the Effective Date and shall continue thereafter until ~~the close on December 31, 2022~~the CPUC directs, approves, or makes effective a request by PG&E that this tariff be closed. At the close of the CMET, this Schedule will close to new Applications and no new CMET MOAs will be offered by PG&E. Applications submitted prior to the close will continue to be processed under this Schedule. Any MOA executed under this Schedule will continue in effect pursuant to the terms of the agreement.

5. INTERCON-NECTION STUDIES

1. Each Project Resource is required to be interconnected to PG&E's Distribution System under PG&E's WDT GIP or Electric Rule 21, according to the applicability of each of those tariffs.

2. Interconnection Study: A CMET Project will require a separate application for Interconnection Study of a CMET Project's proposed Project Resources pursuant to PG&E's WDT GIP or Electric Rule 21, as applicable for each of the Generating Facilities participating as a Project Resource.

3. Interconnection Agreement: The Interconnection Study will identify any required Interconnection Facilities, Distribution Upgrades, or Network Upgrades consistent with PG&E's WDT GIP and Electric Rule 21, as applicable. The CMET Project is required to execute an Interconnection Agreement for each Project Resource.

4. ~~A CMET Applicant will have up to 30 calendar days to review the Interconnection Study. The CMET Applicant, after review, will notify PG&E in writing within 5 calendar days its agreement to proceed with a Microgrid Islanding Study and pay any additional fees for this study, or its withdrawal of the Application. If the CMET Applicant fails to notify PG&E in writing within 5 calendar days after review of the Interconnection Study, the Application for the purpose of CMET Project development will be deemed withdrawn.~~

~~5.~~ Applicant may continue with the interconnection of resources under PG&E's WDT GIP or Rule 21 independent of a withdrawn CMET Application.

(Continued)

6. MICROGRID ISLANDING STUDY

1. In advance of the completion of the Interconnection Study, PG&E and the CMET Applicant may, at each party's discretion, agree to proceed with a Microgrid Islanding Study.

2. Once it has received an agreement with the Applicant to do so, PG&E will conduct a Microgrid Islanding Study, requiring cooperation of the Applicant, to determine i) the engineering and operational viability of the proposed CMET Project's Microgrid Boundary, ii) protection requirements to ensure faults within the microgrid can be detected when in Island Mode, iii) controls requirements to ensure power quality is maintained when in Island Mode, iv) telemetry and cybersecurity requirements, iv) and the required electrical system upgrades (Special Facilities) to establish the CMET Project Microgrid Boundary and microgrid operational controls, and v) the non-binding preliminary estimated costs and scheduled completion date for such Special Facilities, that will be required to enable the CMET Project. This Microgrid Islanding Study will include a description of operations for the CMET Project that includes a logical architecture for the associated protection, controls, communications, cybersecurity and other system components. One outcome of the Microgrid ~~Facilities~~ Islanding Study will be to produce a required ~~CMET~~ Microgrid ~~Project~~ Special Facilities Agreement, pursuant to Electric Rule 2. Customer owned microgrid controllers and protective relays must be validated by PG&E for the interoperability with PG&E's electric distribution system. PG&E will publish a list of approved equipment and establish open and objective criteria for vendors to seek acceptance by PG&E.

3~~2~~. CMET Applicant Review

a. CMET Applicant will have up to 30 calendar days to review the Microgrid Islanding Study and sign the Microgrid Special Facilities Agreement (~~Project~~ Microgrid SFA) ~~and agree in writing to enter into a Microgrid Operating Agreement~~.

~~b. If an Applicant agrees to proceed, the CMET Project will be included in the Allocated Capacity calculation under the applicable Interconnection Study.~~

b~~c~~. If, after review of the Microgrid Special Facilities Agreement, the CMET Applicant declines to proceed with the CMET Project, the CMET Applicant will notify PG&E in writing within 5 calendar days and the Application will be deemed withdrawn.

(Continued)

**ELECTRIC SCHEDULE E-CMET** Sheet 5 (N)
COMMUNITY MICROGRID ENABLEMENT TARIFF (N)

7. COMMUNITY MICROGRID DEVELOP-MENT AND OPERATION

CMET Project development and operation will be governed by the MOA and/or other similar agreement(s) to carry out this tariff. A CMET Project's use of PG&E's Distribution System to form a Community Microgrid requires operational coordination for public safety and overall Distribution System operation.

1. Roles and Responsibilities.

   a. Distribution Provider. PG&E as utility distribution owner and operator is responsible for Distribution Service under both Blue Sky and Island Modes including the sole determination of Emergency Events.

   b. Distribution Service. PG&E will provide Distribution Service for the customers and resources within the CMET Project during Blue Sky and Island Modes pursuant to all applicable rules on file with the CPUC.

   c. Community Microgrid Aggregator (CMG Aggregator). A third-party aggregator that coordinates control of distributed resources, including Project Resources and any demand side management resources, consistent with relevant provisions of Electric Rule 2, PG&E's WDT GIP, and Electric Rule 21 including frequency and voltage and other power quality requirements within PG&E established control parameters to enable the CMET Project to operate in Island Mode.

2. Microgrid Operating Agreement. An MOA between the CMG Aggregator and PG&E will govern CMET Project development testing and commercial operations. The MOA will include operational coordination requirements applicable to the unique characteristics of the CMET Project and general requirements consistent with relevant provisions of Electric Rule 2, Electric Rule 21, PG&E's WDT GIP -and associated I~~i~~nterconnection A~~a~~greements, Project SFA and operating protocols of the Distribution Provider to ensure operational coordination for public safety and overall system operation. The MOA is dependent upon execution of any required Interconnection Agreements and Special Facilities Agreements.

(Continued)

**ELECTRIC SCHEDULE E-CMET** Sheet 6 (N)
COMMUNITY MICROGRID ENABLEMENT TARIFF (N)

7. COMMUNITY MICROGRID DEVELOP-MENT AND OPERATION (Cont'd.)

2. Microgrid Operating Agreement. (Cont'd.)

   a. Applicant and PG&E will execute a mutually agreeable MOA within 90 days of execution of the later of any applicable Interconnection or Special Facilities Agreements.

   b. If the CMET Aggregator and PG&E fail to execute a MOA within the specific time period, the Application will be considered rejected.

3. ~~Material Modification~~System Change. A System Change~~Material Modification~~ will require re-study of the changes in a new Microgrid Islanding Study.

4. PG&E reserves the right to suspend CMET Project operation, change the Microgrid Islanding Point, or other Distribution System changes required to meet its service obligations pursuant to all applicable rules on file with the CPUC.

8. CMET SERVICES AND FEES

1. PG&E s~~S~~ervices provided under this tariff will be provided pursuant to PG&E's WDT GIP or Electric Rule 21 as applicable, and other applicable tariffs or rules, as may be amended from time to time.

2. CMET Applicant is responsible for all applicable interconnection study fees and, subject to Section 5~~E~~.3, any required distributed resource interconnection distribution upgrades and service upgrades pursuant to applicable rules including NEM or D.02-03-057 as may pertain to individual Project Resources.

3. CMET Applicant is responsible for the Microgrid Pre-Application Study, Microgrid Islanding Study fees and subsequent Special Facilities costs pursuant to Electric Rule 2. Such study fees and ~~s~~Special ~~f~~Facilities costs may be eligible for credits to offset any applicable costs to Applicant pursuant to the CMEP.

(Continued)

**ELECTRIC SCHEDULE E-CMET** Sheet 7 (N)
COMMUNITY MICROGRID ENABLEMENT TARIFF (N)

9. PG&E TARIFFS, PROGRAMS AND SERVICE AGREEMENTS

1. PG&E Tariffs During Island and Blue Sky Modes. Billing for PG&E Bundled Customers will continue to occur under their applicable PG&E tariff provisions and rules.

2. Participation in PG&E Programs. Project Resources are eligible to provide distribution services and/or participate in demand side management programs during Blue Sky Mode consistent with applicable PG&E tariffs, programs or procurements. However, participation in PG&E programs shall not impede the ability to enable Island Mode, as determined by the Distribution provider, ~~Island Mode,~~ at any time during which this tariff applies to the CMET Project or the CMET MOA for the CMET Project is in effect.

3. Services Agreements. An existing power purchase agreement or other contract for energy, capacity or distribution services to PG&E, or any other counterparty, is prohibited for a CMET Project, if such ~~PPA~~ power purchase agreement or other contract impedes the ability to enable Island Mode, as determined by Distribution Provider, at any time during which this tariff applies to the CMET Project or the CMET MOA for the CMET Project is in effect.

10. CAISO MARKET PARTICIPAT-ION

1. Participation in CAISO Market: Project Resources are eligible to participate in the CAISO markets consistent with applicable tariffs and the governing Interconnection Agreement for each Generating Facility during Blue Sky Mode. During Island Mode, the settlement of energy transactions associated with the Project Resources will continue to occur according to applicable CAISO tariff provisions and rules, as further described in the CMET MOA.

11. METERING

CMET Project metering requirements are defined in the applicable PG&E Electric Rules including, but not limited to, 2, 15, 16, 17, 18, 21, and PG&E's WDT GIP.

(Continued)

**ELECTRIC SCHEDULE E-CMET** Sheet 9 (N)
COMMUNITY MICROGRID ENABLEMENT TARIFF (N)

14. CMET DEFINITIONS

Capitalized terms in this Schedule have the meaning as defined in this Section.

~~1. Affected System. An electric system other than the Distribution Provider's Distribution System that may be affected by a Material Modification.~~

1~~2~~. Blue Sky Mode. The normal mode of operation when the Community Microgrid is Interconnected to and operating in parallel with the Distribution System, is not operating in Island Mode, and PG&E maintains operational coordination of the delivery of electric service.

~~3~~2. CMET Applicant. The person or entity who submits an Application for a CMET Project to PG&E to apply to participate on this Schedule.

~~4~~3. CMET Customer. A customer receiving PG&E ~~d~~Distribution ~~s~~Service within the CMET Project Microgrid Boundary.

~~5~~4. CMET Project. Facilities and equipment needed to create and operate a Community Microgrid, including the CMET Project Resources~~generation~~, breakers, protective and associated equipment, improvements, and other tangible assets, contract rights, easements, rights of way, licenses and other interests or rights in real estate reasonably necessary for the construction, operation, and maintenance of the Community Microgrid subject to this CMET.

~~6~~5. Community Microgrid. For the purposes of this Schedule, a Community Microgrid is defined as a microgrid with distribution system connected Project Resources that supply energy to at least two customers or two customer premises connected by PG&E's distribution infrastructure ~~one Critical Facility and at least one other customer~~ within a Microgrid Boundary capable of Island Mode.

~~7~~6. Community Microgrid Aggregator (CMG Aggregator). The entity that is providing microgrid forming service to PG&E under an executed CMET MOA pursuant to Rule 24.

(Continued)

14. CMET DEFINITIONS (Cont'd.)

~~8~~7. Community Microgrid Enablement Program (CMEP). PG&E program to enable community-proposed microgrids that provide enhanced resilience for critical facilities and vulnerable customer groups pursuant to D.20-06-017.

~~9~~8. Critical Facility. A facility that provides critical services to the surrounding community pursuant to the definition of Critical Facilities in ~~D.19-05-042~~R.18-12-005, aligned with Department of Homeland Security's Critical Infrastructure Sectors, as may be amended by the CPUC.

~~10~~9. Distribution Provider. PG&E, which owns, controls, or operates facilities used for the delivery of electric energy and provides Distribution Service under this CMET.

10~~1~~. Distribution Service. The transporting of electric power over and through various PG&E facilities for delivery to a d~~D~~istribution ~~C~~customer. The Distribution Service provided under this CMET is the distribution of capacity and energy from the p~~P~~oint(s) of r~~R~~eceipt to the p~~P~~oint(s) of d~~D~~elivery under this CMET.

11~~2~~. Distribution System. PG&E's distribution system broadly consists of the stepdown substations, the primary distribution circuits, and the secondary distribution system. The secondary distribution system consists of the line transformers that step the primary voltage down to a secondary voltage, and the secondary conductors. The provisions of this CMET apply ~~ies~~ to service on this Distribution System.

12~~3~~. Effective Date. The date upon which any CPUC disposition of the CMEP Advice Letter makes that Advice Letter effective.

(Continued)

14. CMET DEFINITIONS (Cont'd.)

134. Emergency Events. As determined by PG&E in its reasonable discretion, a condition or situation requiring prompt action by PG&E (a) to maintain the reliable operation of the Distribution System; (b) to prevent or limit the loss of load or generation; (c) to maintain public safety or the safety of PG&E's personnel; (d) to protect PG&E, Customer, or third-party property; or as a ~~S~~scheduled Island Mode ~~O~~operation as a preventative action ahead of impending weather events or natural disasters or in response to other unusual conditions.

145. Generating Facility. All generators, electrical wires, equipment, and other facilities, excluding Interconnection Facilities, owned or provided by p~~P~~roducer for the purpose of producing electric power, including storage. May also be referred to as a Project Resource.

156. High Fire Threat District. An area where there is an elevated risk for power line fires igniting and spreading rapidly as identified in the CPUC Fire-Threat Map, as may be amended.

167. Interconnection Agreement. An interconnection agreement executed pursuant to PG&E's Wholesale Distribution Tariff or Electric Rule 21.

178. Interconnection Study. A study to establish the requirements for Interconnection of a Generating Facility with Distribution Provider's Distribution System or Transmission System, pursuant to PG&E's WDT GIP or Rule 21, as applicable.

18. Island Mode. A mode of operation when a Microgrid that normally operates in ~~Grid-Connected~~Blue Sky Mode is disconnected from the Distribution System at MIP, and the Microgrid is generating or producing energy to provide electric service within the Microgrid under the operational coordination of the CMET Aggregator and Distribution Provider.

~~19. Material Modification is a change in Project Resources, non-Project Resources, or customer loads within the Microgrid Boundary, or other Affected Systems outside the Microgrid Boundary that has a material impact on the ability of a CMET Project to function in Island Mode.~~

(Continued)

**ELECTRIC SCHEDULE E-CMET** Sheet 12 (N)
COMMUNITY MICROGRID ENABLEMENT TARIFF (N)

14. CMET DEFINITIONS (Cont'd.)

1920. Microgrid. An interconnected system of loads and energy resources, including, but not limited to, distributed energy resources, energy storage, demand response tools, or other management, forecasting, and analytical tools, appropriately sized to meet customer needs, within a clearly defined electrical boundary that can act as a single, controllable entity, and can connect to, disconnect from, or run in parallel with, larger portions of the electrical grid, or can be managed and isolated to withstand larger disturbances and maintain electrical supply to connected critical infrastructure.

201. Microgrid Boundary. An electrically contiguous area beyond a Microgrid Islanding Point on the Distribution System that defines a microgrid as a single controllable entity.

212. Microgrid Islanding Point (MIP). The point on PG&E's dDistribution System that establishes the microgrid interface consistent with applicable standards including IEEE 1547-2018 and IEEE 519.

223. Microgrid Island Study. An engineering study conducted by the Distribution Provider or its agents to determine the required modifications to the Distribution Provider's Distribution Facilities, to support Island Mode, including the cost and scheduled completion date for such modifications, that will be required to provide the requested Microgrid Boundary and island operation capable of maintaining voltage, frequency and power quality within PG&E control parameters in accordance with Rule 2.

234. Microgrid Operating Agreement. An agreement between the PG&E and CMG Aggregator that governs CMET Project development and testing, and commercial operations to ensure safety and service quality in compliance with applicable rules.

(Continued)

14. CMET DEFINITIONS (Cont'd.)

24~~5~~. Microgrid Pre-Application Study. A preliminary study of a proposed Community Microgrid and consultation for the purpose of enabling an Applicant to develop an effective CMET Application.

25. Microgrid Special Facilities. Those Special Facilities described in a Microgrid Special Facilities Agreement.

26. Microgrid Special Facilities Agreement (Microgrid SFA). The agreement that describes the upgrades on the Distribution System, and at the project site to be installed under the terms and conditions regarding Special Facilities (or added facilities) on file with the Commission, pursuant to Electric Rule 2, and incorporated in the MOA.

27~~6~~. Outage Prone Area. Areas served by the top 1% Worst Performing Circuits excluding Major Event Days as shown in PG&E's Annual Electric Reliability Report, in either the AIDI or AIFI category, in either of the last 2 years.

28~~7~~. PG&E Bundled Customer. A customer receiving full retail electric service from PG&E under an applicable retail tariff.

~~27~~8. ~~Project Special Facilities Agreement (Project SFA). A Special Facilities Agreement for the CMET Project Service Facilities upgrades necessary to enable Blue Sky and Island Mode operations.~~

29. Project Resource. Electric generation and storage technology used to form a microgrid that are interconnected to the Distribution System pursuant to PG&E's WDT GIP or Electric Rule 21 within the Community Microgrid Project Microgrid Boundary that complies 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.

30. Scheduled Island Mode Operation. A Microgrid operating in Island Mode that is scheduled and coordinated between the CMG Aggregator and PG&E.

(Continued)

**ELECTRIC SCHEDULE E-CMET** Sheet 14 (N)
COMMUNITY MICROGRID ENABLEMENT TARIFF (N)

14. CMET DEFINITIONS (Cont'd.)

31. Service Facilities. PG&E's Service Facilities shall consist of (a) primary or secondary underground or overhead service conductors, (b) poles to support overhead service conductors, (c) service transformers, (d) PG&E-owned metering equipment, and (e) other PG&E-owned service-related equipment that extend from PG&E's Distribution Facilities to the Customer's Service Delivery Point as defined in PG&E's Electric Rule 16.

32. Special Facilities. Shall have the same meaning as defined in PG&E's Electric Rule 2, as may be modified from time to time.

33~~12~~. Special Facilities Agreement. Special facilities will be installed under the terms and conditions of a contract in the form on file with the Commission, pursuant to Electric Rule 2.

34~~2~~. System Change is a change in Project Resources, non-Project Resources, or customer loads within the Microgrid Boundary, or other affected systems outside the Microgrid Boundary that has a material impact on the ability of a CMET Project to function in Island Mode.

35~~3~~. Unscheduled Island Mode Operation. A Microgrid operating in Island Mode that is not scheduled or coordinated between the CMG Aggregator and PG&E in response to an unplanned event on the Distribution System.

(Continued)

| Cal P.U.C. Sheet No. | Title of Sheet | Cancelling Cal P.U.C. Sheet No. |
|---|---|---|
| 54454-E | ELECTRIC SCHEDULE E-CMET<br>COMMUNITY MICROGRID ENABLEMENT TARIFF<br>Sheet 1 | 51670-E |
| 54455-E | ELECTRIC SCHEDULE E-CMET<br>COMMUNITY MICROGRID ENABLEMENT TARIFF<br>Sheet 2 | 50809-E |
| 54456-E | ELECTRIC SCHEDULE E-CMET<br>COMMUNITY MICROGRID ENABLEMENT TARIFF<br>Sheet 3 | 49634-E |
| 54457-E | ELECTRIC SCHEDULE E-CMET<br>COMMUNITY MICROGRID ENABLEMENT TARIFF<br>Sheet 4 | 49635-E |
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| 54459-E | ELECTRIC SCHEDULE E-CMET<br>COMMUNITY MICROGRID ENABLEMENT TARIFF<br>Sheet 6 | 49637-E |
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| 54461-E | ELECTRIC SCHEDULE E-CMET<br>COMMUNITY MICROGRID ENABLEMENT TARIFF<br>Sheet 9 | 49640-E |
| 54462-E | ELECTRIC SCHEDULE E-CMET<br>COMMUNITY MICROGRID ENABLEMENT TARIFF<br>Sheet 10 | 49641-E |
| 54463-E | ELECTRIC SCHEDULE E-CMET<br>COMMUNITY MICROGRID ENABLEMENT TARIFF<br>Sheet 11 | 49642-E |
| 54464-E | ELECTRIC SCHEDULE E-CMET<br>COMMUNITY MICROGRID ENABLEMENT TARIFF<br>Sheet 12 | 49643-E |
| 54465-E | ELECTRIC SCHEDULE E-CMET<br>COMMUNITY MICROGRID ENABLEMENT TARIFF<br>Sheet 13 | 49644-E |
| 54466-E | ELECTRIC SCHEDULE E-CMET<br>COMMUNITY MICROGRID ENABLEMENT TARIFF<br>Sheet 14 | 49645-E |
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| 54468-E | ELECTRIC TABLE OF CONTENTS<br>Sheet 7 | 54050-E |

**ELECTRIC SCHEDULE E-CMET** Sheet 1
COMMUNITY MICROGRID ENABLEMENT TARIFF

1. APPLICABILITY: The Community Microgrid Enablement Tariff (CMET) schedule (Schedule CMET or this Schedule) implements, in part, on an experimental basis the Community Microgrid Enablement Program (CMEP) pursuant to Public Utilities Commission (CPUC) Decision (D.) D.20-06-017 and CPUC Resolution E-5127. This CMET governs the eligibility, engineering studies, development, and island and transitional operation of Community Microgrids, as defined herein. As an experimental tariff, this Schedule is (T) available, on a first-come, first-served basis, to applicants (CMET Applicants) who (i) meet the CMET Eligibility Criteria in Section 3, (T) and (ii) submit a complete CMET Application (Application). This Schedule will close to CMET Applicants on the date set forth in Section 4, below. Capitalized terms specific to this tariff are defined in section 14 below. (T)

2. TERRITORY: This schedule applies throughout PG&E's electric service area.

3. CMET ELIGIBILITY CRITERIA: A CMET Applicant must meet all of the eligibility criteria outlined below (CMET Eligibility Criteria):

   1. Community Microgrid: The CMET Project must meet the needs of at least two customers or two customer premises connected by PG&E's distribution infrastructure within the Microgrid Boundary. All customers within the Microgrid Boundary of the CMET Project must be PG&E retail distribution customers; provided that, where PG&E determines in its sole discretion that inclusion of electrical loads or customers which do not take PG&E retail distribution service in a CMET Project will benefit PG&E retail distribution customers, PG&E may agree to the inclusion of such loads and/or customers and will submit a notice of and justification for this determination through a Tier 1 Advice Letter.

   2. Location: The CMET project must be located in an area served, entirely or in part, by PG&E retail distribution service.

(Continued)

3. CMET ELIGIBILITY CRITERIA (Cont'd.)

3. Community Microgrid Parameters: The CMET Project must include interconnected exporting energy producing resources (Project Resources) that do not exceed 20MW in aggregated export capacity within a clearly defined Microgrid in PG&E's Distribution System; the CMET Project must act as a single, controllable entity; the CMET Project must be able to connect to, disconnect from, and run in parallel with larger portions of the electrical grid; and the CMET Project must be capable of maintaining electrical supply and service quality when isolated to connected customers during larger grid disturbances. Project Resources must be interconnected to PG&E's Distribution System pursuant to PG&E's Wholesale Distribution Tariff, Attachment I "Generator Interconnection Procedures" (WDT GIP) and/or Electric Rule 21 as applicable. (T) | (T) (T) (T)

4. Pre-Application Report: The CMET Applicant must complete a Community Microgrid Pre-Application Report (CM Pre-Application Report) and consultation with PG&E prior to submitting a CMET Application.

5. Applicant Experience: The CMET Applicant must provide to PG&E an attestation that at least one current member of its development team has: (a) completed the development of at least one microgrid project of similar technology and capacity; or (b) begun construction of at least one other project of similar technology and capacity. The CMET Applicant must identify the entity(ies), if not the Applicant, that will be responsible for development of the CMET Project and the entity that will be the CMET Aggregator responsible for coordinated operation with PG&E pursuant to Rule 24 and an executed CMET Microgrid Operating Agreement ("CMET MOA" or "MOA").

(Continued)

**ELECTRIC SCHEDULE E-CMET** Sheet 3
COMMUNITY MICROGRID ENABLEMENT TARIFF

4. CMET PERIOD

CMET Availability Period: The CMET shall begin on the Effective Date and shall continue thereafter until the CPUC directs, approves, or makes effective a request by PG&E that this tariff be closed. At the close of the CMET, this Schedule will close to new Applications and no new CMET MOAs will be offered by PG&E. Applications submitted prior to the close will continue to be processed under this Schedule. Any MOA executed under this Schedule will continue in effect pursuant to the terms of the agreement. (T) (T)

5. INTERCON-NECTION STUDIES

1. Each Project Resource is required to be interconnected to PG&E's Distribution System under PG&E's WDT GIP or Electric Rule 21, according to the applicability of each of those tariffs. (T)

2. Interconnection Study: A CMET Project will require a separate application for Interconnection Study of a CMET Project's proposed Project Resources pursuant to PG&E's WDT GIP or Electric Rule 21, as applicable for each of the Generating Facilities participating as a Project Resource. (T)

3. Interconnection Agreement: The Interconnection Study will identify any required Interconnection Facilities, Distribution Upgrades, or Network Upgrades consistent with PG&E's WDT GIP and Electric Rule 21, as applicable. The CMET Project is required to execute an Interconnection Agreement for each Project Resource. (T)

(D)
(D)

4. Applicant may continue with the interconnection of resources under PG&E's WDT GIP or Rule 21 independent of a withdrawn CMET Application. (T)

(Continued)

6. MICROGRID ISLANDING STUDY

1. In advance of the completion of the Interconnection Study, PG&E and the CMET Applicant may, at each party's discretion, agree to proceed with a Microgrid Islanding Study. (N) | (N)

2. Once it has received an agreement with the Applicant to do so, PG&E will conduct a Microgrid Islanding Study, requiring cooperation of the Applicant, to determine i) the engineering and operational viability of the proposed CMET Project's Microgrid Boundary, ii) protection requirements to ensure faults within the microgrid can be detected when in Island Mode, iii) controls requirements to ensure power quality is maintained when in Island Mode, iv) telemetry and cybersecurity requirements, iv) and the required electrical system upgrades (Special Facilities) to establish the CMET Project Microgrid Boundary and microgrid operational controls, and v) the non-binding preliminary estimated costs and scheduled completion date for such Special Facilities, that will be required to enable the CMET Project. This Microgrid Islanding Study will include a description of operations for the CMET Project that includes a logical architecture for the associated protection, controls, communications, cybersecurity and other system components. One outcome of the Microgrid Islanding Study will be to produce a required Microgrid Special Facilities Agreement, pursuant to Electric Rule 2. Customer owned microgrid controllers and protective relays must be validated by PG&E for the interoperability with PG&E's electric distribution system. PG&E will publish a list of approved equipment and establish open and objective criteria for vendors to seek acceptance by PG&E. (T) | (T) (T)

3. CMET Applicant Review

   a. CMET Applicant will have up to 30 calendar days to review the Microgrid Islanding Study and sign the Microgrid Special Facilities Agreement (Microgrid SFA). (T)

(D)
(D)

   b. If, after review of the Microgrid Special Facilities Agreement, the CMET Applicant declines to proceed with the CMET Project, the CMET Applicant will notify PG&E in writing within 5 calendar days and the Application will be deemed withdrawn. (T) | (T)

(Continued)

7. COMMUNITY MICROGRID DEVELOP-MENT AND OPERATION

CMET Project development and operation will be governed by the MOA and/or other similar agreement(s) to carry out this tariff. A CMET Project's use of PG&E's Distribution System to form a Community Microgrid requires operational coordination for public safety and overall Distribution System operation. (T)

1. Roles and Responsibilities.

   a. Distribution Provider. PG&E as utility distribution owner and operator is responsible for Distribution Service under both Blue Sky and Island Modes including the sole determination of Emergency Events.

   b. Distribution Service. PG&E will provide Distribution Service for the customers and resources within the CMET Project during Blue Sky and Island Modes pursuant to all applicable rules on file with the CPUC.

   c. Community Microgrid Aggregator (CMG Aggregator). A third-party aggregator that coordinates control of distributed resources, including Project Resources and any demand side management resources, consistent with relevant provisions of Electric Rule 2, PG&E's WDT GIP, and Electric Rule 21 including frequency and voltage and other power quality requirements within PG&E established control parameters to enable the CMET Project to operate in Island Mode. (T)

2. Microgrid Operating Agreement. An MOA between the CMG Aggregator and PG&E will govern CMET Project development testing and commercial operations. The MOA will include operational coordination requirements applicable to the unique characteristics of the CMET Project and general requirements consistent with relevant provisions of Electric Rule 2, Electric Rule 21, PG&E's WDT GIP and associated (T) Interconnection Agreements, Project SFA and operating (T) protocols of the Distribution Provider to ensure operational coordination for public safety and overall system operation. The MOA is dependent upon execution of any required Interconnection Agreements and Special Facilities Agreements.

(Continued)

**ELECTRIC SCHEDULE E-CMET** Sheet 6
COMMUNITY MICROGRID ENABLEMENT TARIFF

7. COMMUNITY MICROGRID DEVELOP-MENT AND OPERATION (Cont'd.)

2. Microgrid Operating Agreement. (Cont'd.) (T)

   a. Applicant and PG&E will execute a mutually agreeable MOA within 90 days of execution of the later of any applicable Interconnection or Special Facilities Agreements.

   b. If the CMET Aggregator and PG&E fail to execute a MOA within the specific time period, the Application will be considered rejected.

3. System Change. A System Change will require re-study of the changes in a new Microgrid Islanding Study. (T)

4. PG&E reserves the right to suspend CMET Project operation, change the Microgrid Islanding Point, or other Distribution System changes required to meet its service obligations pursuant to all applicable rules on file with the CPUC.

8. CMET SERVICES AND FEES

1. PG&E services provided under this tariff will be provided pursuant to PG&E's WDT GIP or Electric Rule 21 as applicable, and other applicable tariffs or rules, as may be amended from time to time. (T) (T)

2. CMET Applicant is responsible for all applicable interconnection study fees and, subject to Section 5.3, any required distributed resource interconnection distribution upgrades and service upgrades pursuant to applicable rules including NEM or D.02-03-057 as may pertain to individual Project Resources. (T)

3. CMET Applicant is responsible for the Microgrid Pre-Application Study, Microgrid Islanding Study fees and subsequent Special Facilities costs pursuant to Electric Rule 2. Such study fees and Special Facilities costs may be eligible for credits to offset any applicable costs to Applicant pursuant to the CMEP. (T)

(Continued)

**ELECTRIC SCHEDULE E-CMET** Sheet 7
COMMUNITY MICROGRID ENABLEMENT TARIFF

9. PG&E TARIFFS, PROGRAMS AND SERVICE AGREEMENTS

1. PG&E Tariffs During Island and Blue Sky Modes. Billing for PG&E Bundled Customers will continue to occur under their applicable PG&E tariff provisions and rules.

2. Participation in PG&E Programs. Project Resources are eligible to provide distribution services and/or participate in demand side management programs during Blue Sky Mode consistent with applicable PG&E tariffs, programs or procurements. However, participation in PG&E programs shall not impede the ability to enable Island Mode, as determined by the Distribution provider, at any time during which this tariff applies to the CMET Project or the CMET MOA for the CMET Project is in effect. (T)

3. Services Agreements. An existing power purchase agreement or other contract for energy, capacity or distribution services to PG&E, or any other counterparty, is prohibited for a CMET Project, if such power purchase agreement or other contract impedes the ability to enable Island Mode, as determined by Distribution Provider, at any time during which this tariff applies to the CMET Project or the CMET MOA for the CMET Project is in effect. (T)

10. CAISO MARKET PARTICIPAT-ION

1. Participation in CAISO Market: Project Resources are eligible to participate in the CAISO markets consistent with applicable tariffs and the governing Interconnection Agreement for each Generating Facility during Blue Sky Mode. During Island Mode, the settlement of energy transactions associated with the Project Resources will continue to occur according to applicable CAISO tariff provisions and rules, as further described in the CMET MOA. (T)

11. METERING

CMET Project metering requirements are defined in the applicable PG&E Electric Rules including, but not limited to, 2, 15, 16, 17, 18, 21, and PG&E's WDT GIP. (T)

(Continued)

**ELECTRIC SCHEDULE E-CMET** Sheet 9
COMMUNITY MICROGRID ENABLEMENT TARIFF

14. CMET DEFINITIONS Capitalized terms in this Schedule have the meaning as defined in this Section.

(D)
|
(D)

1. Blue Sky Mode. The normal mode of operation when the Community Microgrid is Interconnected to and operating in parallel with the Distribution System, is not operating in Island Mode, and PG&E maintains operational coordination of the delivery of electric service.

2. CMET Applicant. The person or entity who submits an Application for a CMET Project to PG&E to apply to participate on this Schedule.

3. CMET Customer. A customer receiving PG&E Distribution Service within the CMET Project Microgrid Boundary. (T) (T)

4. CMET Project. Facilities and equipment needed to create and operate a Community Microgrid, including the CMET Project Resources, breakers, protective and associated equipment, improvements, and other tangible assets, contract rights, easements, rights of way, licenses and other interests or rights in real estate reasonably necessary for the construction, operation, and maintenance of the Community Microgrid subject to this CMET. (T) (T)

5. Community Microgrid. For the purposes of this Schedule, a Community Microgrid is defined as a microgrid with distribution system connected Project Resources that supply energy to at least two customers or two customer premises connected by PG&E's distribution infrastructure within a Microgrid Boundary capable of Island Mode. (T) (T)

6. Community Microgrid Aggregator (CMG Aggregator). The entity that is providing microgrid forming service to PG&E under an executed CMET MOA pursuant to Rule 24. (T)

(Continued)

14. CMET DEFINITIONS (Cont'd.)

7. Community Microgrid Enablement Program (CMEP). PG&E program to enable community-proposed microgrids that provide enhanced resilience for critical facilities and vulnerable customer groups pursuant to D.20-06-017. (T)

8. Critical Facility. A facility that provides critical services to the surrounding community pursuant to the definition of Critical Facilities in R.18-12-005, aligned with Department of Homeland Security's Critical Infrastructure Sectors, as may be amended by the CPUC. (T) (T)

9. Distribution Provider. PG&E, which owns, controls, or operates facilities used for the delivery of electric energy and provides Distribution Service under this CMET. (T)

10. Distribution Service. The transporting of electric power over and through various PG&E facilities for delivery to a distribution customer. The Distribution Service provided under this CMET is the distribution of capacity and energy from the point(s) of receipt to the point(s) of delivery under this CMET. (T) (T) (T)

11. Distribution System. PG&E's distribution system broadly consists of the stepdown substations, the primary distribution circuits, and the secondary distribution system. The secondary distribution system consists of the line transformers that step the primary voltage down to a secondary voltage, and the secondary conductors. The provisions of this CMET apply to service on this Distribution System. (T) (T)

12. Effective Date. The date upon which any CPUC disposition of the CMEP Advice Letter makes that Advice Letter effective. (T)

(Continued)

14. CMET DEFINITIONS (Cont'd.)

13. Emergency Events. As determined by PG&E in its reasonable discretion, a condition or situation requiring prompt action by PG&E (a) to maintain the reliable operation of the Distribution System; (b) to prevent or limit the loss of load or generation; (c) to maintain public safety or the safety of PG&E's personnel; (d) to protect PG&E, Customer, or third-party property; or as a scheduled Island Mode operation as a preventative action ahead of impending weather events or natural disasters or in response to other unusual conditions. (T) (T)

14. Generating Facility. All generators, electrical wires, equipment, and other facilities, excluding Interconnection Facilities, owned or provided by producer for the purpose of producing electric power, including storage. May also be referred to as a Project Resource. (T) (N) (N)

15. High Fire Threat District. An area where there is an elevated risk for power line fires igniting and spreading rapidly as identified in the CPUC Fire-Threat Map, as may be amended. (T)

16. Interconnection Agreement. An interconnection agreement executed pursuant to PG&E's Wholesale Distribution Tariff or Electric Rule 21. (N) | (N)

17. Interconnection Study. A study to establish the requirements for Interconnection of a Generating Facility with Distribution Provider's Distribution System or Transmission System, pursuant to PG&E's WDT GIP or Rule 21, as applicable. (T) (T)

18. Island Mode. A mode of operation when a Microgrid that normally operates in Blue Sky Mode is disconnected from the Distribution System at MIP, and the Microgrid is generating or producing energy to provide electric service within the Microgrid under the operational coordination of the CMET Aggregator and Distribution Provider. (T) (T) (T)

(D) | | | | | (D)

(Continued)

14. CMET DEFINITIONS (Cont'd.)

19. Microgrid. An interconnected system of loads and energy resources, including, but not limited to, distributed energy resources, energy storage, demand response tools, or other management, forecasting, and analytical tools, appropriately sized to meet customer needs, within a clearly defined electrical boundary that can act as a single, controllable entity, and can connect to, disconnect from, or run in parallel with, larger portions of the electrical grid, or can be managed and isolated to withstand larger disturbances and maintain electrical supply to connected critical infrastructure. (T)

20. Microgrid Boundary. An electrically contiguous area beyond a Microgrid Islanding Point on the Distribution System that defines a microgrid as a single controllable entity.

21. Microgrid Islanding Point (MIP). The point on PG&E's Distribution System that establishes the microgrid interface consistent with applicable standards including IEEE 1547-2018 and IEEE 519. (T)

22. Microgrid Island Study. An engineering study conducted by the Distribution Provider or its agents to determine the required modifications to the Distribution Provider's Distribution Facilities to support Island Mode, including the cost and scheduled completion date for such modifications, that will be required to provide the requested Microgrid Boundary and island operation capable of maintaining voltage, frequency and power quality within PG&E control parameters in accordance with Rule 2. (T) (T)

23. Microgrid Operating Agreement. An agreement between the PG&E and CMG Aggregator that governs CMET Project development and testing, and commercial operations to ensure safety and service quality in compliance with applicable rules.

(Continued)

14. CMET DEFINITIONS (Cont'd.)

24. Microgrid Pre-Application Study. A preliminary study of a proposed Community Microgrid and consultation for the purpose of enabling an Applicant to develop an effective CMET Application. (T)

25. Microgrid Special Facilities. Those Special Facilities described in a Microgrid Special Facilities Agreement. (N) (N)

26. Microgrid Special Facilities Agreement (Microgrid SFA). The agreement that describes the upgrades on the Distribution System, and at the project site to be installed under the terms and conditions regarding Special Facilities (or added facilities) on file with the Commission, pursuant to Electric Rule 2, and incorporated in the MOA. (N) | | | | (N)

27. Outage Prone Area. Areas served by the top 1% Worst Performing Circuits excluding Major Event Days as shown in PG&E's Annual Electric Reliability Report, in either the AIDI or AIFI category, in either of the last 2 years.

28. PG&E Bundled Customer. A customer receiving full retail electric service from PG&E under an applicable retail tariff.

(D) | (D)

29. Project Resource. Electric generation and storage technology used to form a microgrid that are interconnected to the Distribution System pursuant to PG&E's WDT GIP or Electric Rule 21 within the Community Microgrid Project Microgrid Boundary that complies 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. (T)

30. Scheduled Island Mode Operation. A Microgrid operating in Island Mode that is scheduled and coordinated between the CMG Aggregator and PG&E.

(Continued)

14. CMET DEFINITIONS (Cont'd.)

31. Service Facilities. PG&E's Service Facilities shall consist of (a) primary or secondary underground or overhead service conductors, (b) poles to support overhead service conductors, (c) service transformers, (d) PG&E-owned metering equipment, and (e) other PG&E-owned service-related equipment that extend from PG&E's Distribution Facilities to the Customer's Service Delivery Point as defined in PG&E's Electric Rule 16.

32. Special Facilities. Shall have the same meaning as defined in PG&E's Electric Rule 2, as may be modified from time to time. (N) (N)

33. Special Facilities Agreement. Special facilities will be installed under the terms and conditions of a contract in the form on file with the Commission, pursuant to Electric Rule 2. (T)

34. System Change is a change in Project Resources, non-Project Resources, or customer loads within the Microgrid Boundary, or other affected systems outside the Microgrid Boundary that has a material impact on the ability of a CMET Project to function in Island Mode. (N) | | | (N)

35. Unscheduled Island Mode Operation. A Microgrid operating in Island Mode that is not scheduled or coordinated between the CMG Aggregator and PG&E in response to an unplanned event on the Distribution System. (T)

(Continued)

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**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

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

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

Intertie

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

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

Modesto Irrigation District
NLine Energy, Inc.
NRG Solar

OnGrid Solar
Pacific Gas and Electric Company
Peninsula Clean Energy

Pioneer Community Energy

Public Advocates Office

Redwood Coast Energy Authority
Regulatory & Cogeneration Service, Inc.

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