

August 17, 2022

Advice 6682-E

(Pacific Gas and Electric Company ID U 39 E)

Public Utilities Commission of the State of California

Subject: Modifications to Electric Rule 21 and Net Energy Metering Tariffs for Generation Facilities Greater than One Megawatt Interconnecting on Transmission Pursuant to Decision 22-07-001 Ordering Paragraphs 1, 3 and 4.

Purpose

Pacific Gas and Electric Company (PG&E) hereby submits this Tier 2 Advice Letter (AL) to modify Electric Rule 21 - *Generating Facility Interconnections* – and Net Energy Metering (NEM) Tariffs in compliance with the California Public Utilities Commission (CPUC, Commission) Decision (D.) 22-07-001¹ *Decision Modifying Rule 21* Ordering Paragraphs (OPs) 1, 3 and 4.

Background**Rulemaking (R.) 11-09-011, Decision 12-09-018 and the Settlement Agreement**

On September 22, 2011, the Commission initiated Rulemaking (R.) 11-09-011 to review and, if necessary, revise the rules and regulations governing interconnecting generation and storage resources to the electric distribution systems in Rule 21. The resultant D.12-09-018² adopted a settlement agreement, reforming Rule 21.

Important to this Advice letter, D.12-09-018 adopted language in the Applicability subsection B.1 of Rule 21 to “*more clearly state when an applicant may apply for interconnection pursuant to Rule 21 procedures, as opposed to the California Independent System Operator (CAISO) procedure or the procedures in a utility’s [Wholesale Distribution Tariff]*”⁴ as follows:

“...Net Energy Metering Generating Facilities and Non-Export Generating Facilities subject to Commission jurisdiction shall interconnect under this Rule [21] regardless

¹ [D. 22-07-001](#) – *Decision Modifying Rule 21* - Date of Issuance 7/18/2022

² [D. 12-09-018](#) – *Decision Adopting Settlement Agreement Revising Distribution Level Interconnection Rules and Regulations – Electric Tariff Rule 21 and Granting Motions to Adopt the Utilities’ Rule 21 Transition Plans*

of whether they interconnect to Distribution Provider's Distribution or Transmission System."

D.12-09-018 effectively created a pathway for net energy metering systems less than or equal to one megawatt to interconnect to transmission grids through Rule 21.

R. 11-09-011 was subsequently closed in D. 16-06-052 on June 23, 2016.

NEM Successor Rulemaking 14-07-002 and Decision 16-01-044

R. 14-07-002 was filed July 10, 201 to Develop a Successor to Existing Net Energy Metering Tariffs Pursuant to Public Utilities Code Section 2827.1, and to Address Other Issues Related to Net Energy Metering. It resulted in D.16-01-044³, which among many other changes, increased the net energy metering generating facility size limit from one-megawatt to effectively, an unlimited size.

2021 Re-opening of Rulemaking 11-09-011

The assigned Administrative Law Judge issued a Ruling on April 7, 2021, which reopened R.11-09-011 because Net Energy Metering and non-export interconnections had raised grid stability issues with respect to two matters:

- 1) an absence of telemetry sharing between Utilities and CAISO; and
- 2) an inability to ensure that the facilities connected to the transmission system are safely configured to meet transmission grid requirements, especially as it relates to inverter programming.

If confirmed, it was noted that D.12-09-018 might need to be modified to remove the Rule 21 Section B.1 exception from CAISO interconnection exception due to concerns relating to the reliability and safety of the grid.

Rulemaking 11-09-011 Decision 22-07-001

On April 23, 2021, various parties filed comments responding to the questions in the April 7, 2021 Ruling.

On September 29, 2021, Energy Division facilitated a workshop to discuss stakeholder perspectives on maintaining transmission interconnection through Rule 21, and potential paths forward.

On November 23, 2021, the Administrative Law Judge issued a Ruling raising additional questions and instructed parties to file comments.

On February 10, 2022, the CAISO filed comments.

On July 18, 2022, D. 22-07-001 was issued.

³ [Decision 16-01-044](#) - Decision Adopting Successor To Net Energy Metering Tariff - Date of Issuance 2/5/2016

This Advice Letter

To address the concerns, the Commission found that an immediate revision of the NEM exception in Section B.1 of Rule 21 was necessary “as there are no viable solutions in the record to address these concerns.”⁴

Based on the this, PG&E notes additional issues may arise as NEM projects seek to interconnect to the transmission system via the CAISO Tariff or Wholesale Distribution Tariff, including metering requirements for NEM projects interconnecting to the transmission system, application of the 1 MW size limit, which types of net energy metering tariffs should be covered, special issues related to NEM aggregation and multiple tariffs, and coordination between the CAISO and Utilities throughout the process to ensure both interconnection and NEM eligibility. PG&E looks forward to working with the CAISO to develop the process further and will submit additional tariff changes if necessary.

Accordingly, PG&E submits this advice letter to modify its tariffs pursuant to the following D. 22-07-001 ordering paragraphs:

OP 1. Net Energy Metering generating facilities greater than one megawatt seeking interconnection with a distribution provider’s transmission system shall no longer be exempt from the requirement in Electric Tariff Rule 21 to apply to the California Independent System Operator (CAISO) for interconnection and be subject to the CAISO Tariff. This order is not applicable to net energy metering generating facilities with Permission to Operate letters received as of May 6, 2022, or proposed net energy metering facilities with materially complete interconnection applications submitted as of May 6, 2022.

OP 3. Within 30 days of the issuance of this decision, Pacific Gas and Electric Company, San Diego Gas & Electric Company and Southern California Edison Company shall submit a Tier 2 Advice Letter revising Section B.1 of Rule 21 as follows:

All Generating Facilities seeking Interconnection with Distribution Provider’s Transmission System shall apply to the California Independent System Operator (CAISO) for Interconnection and be subject to CAISO Tariff except for i) Net Energy Metering Generating Facilities less than or equal to one megawatt and ii) Generating Facilities that do not export to the grid or sell any exports sent to the grid (Non-Export Generating Facilities). Non-Export Generating Facilities subject to Commission jurisdiction shall interconnect under this Rule regardless of whether they interconnect to Distribution Provider’s Distribution or Transmission System.

⁴ D.22-07-001, Finding of Fact 20.

OP 4. Pacific Gas and Electric Company, San Diego Gas & Electric Company and Southern California Edison Company shall review the language in all related tariffs that could be impacted by the change in Ordering Paragraph 1. Utilities shall include all necessary language revisions for related tariffs in the Tier 2 Advice Letter filing required by Ordering Paragraph 3 above

Tariff Changes

1) Rule 21

a. Transmission Definition Existing Rule 21 Definitions:

PG&E notes the existing definitions for transmission. Of especial interest is that the exiting "Transmission System" definition refers specifically to the CAISO controlled grid. PG&E proposes to add a definition for *Transmission System (Non-CAISO Controlled)* because we believe the same concerns that exist for CAISO controlled transmission would exist for the non-CAISO controlled transmission.

- i. **CAISO Controlled Grid:** The system of transmission lines and associated facilities that have been placed under the CAISO's Operational Control.
- ii. **Distribution System:** All electrical wires, equipment, and other facilities owned or provided by Distribution Provider, other than Interconnection Facilities or the Transmission System, by which Distribution Provider provides Distribution Service to its Customers.
- iii. **Transmission System:** Transmission facilities owned by Distribution Provider that have been placed under the CAISO's operational control and are part of the CAISO Controlled Grid, as defined in the CAISO Tariff.

Existing PG&E Rule 1 – Definitions:

- iv. **DISTRIBUTION SYSTEM:** Those non-ISO transmission and distribution facilities owned, controlled, and operated by PG&E that are used to provide Distribution Service under these tariffs.
- v. **TRANSMISSION LOAD CUSTOMER:** A PG&E electric customer, interconnected to PG&E's power system at a transmission level voltage, who has no generation of its own paralleled with the PG&E system and is not interconnected with any generation source other

than PG&E.

Existing PG&E Rule 2 - See Section B,
Table B.1 of Transmission voltages

Proposed NEW Rule 21 definition:

Because the concerns raised in D. 22-07-001 are not just limited to CAISO controlled Transmission (and because that is already defined in Rule 21 as “Transmission System”), PG&E recommends including a similar definition for non-CAISO controlled Transmission:

Transmission System (Non-CAISO Controlled): Those non-ISO transmission voltage facilities (as defined in Electric Rule 2 Table B.1) owned, controlled, and operated by PG&E that are used to provide Distribution Service under these tariffs.

b. Section B.1 Applicability:

Pursuant to the direct wording in OP 3 (however, footnotes * and ** are added):

All Generating Facilities seeking Interconnection with Distribution Provider’s Transmission System* shall apply to the California Independent System Operator (CAISO) for Interconnection and be subject to CAISO Tariff except for i) Net Energy Metering Generating Facilities **less than or equal to one megawatt**** and ii) Generating Facilities that do not export to the grid or sell any exports sent to the grid (Non-Export Generating Facilities). ~~NEM Generating Facilities and~~ Non-Export Generating Facilities subject to Commission jurisdiction shall interconnect under this Rule regardless of whether they interconnect to Distribution Provider’s Distribution or Transmission System.

* This may also include a Transmission System (Non-CAISO Controlled). If so, they shall apply for Interconnection using the Wholesale Distribution Tariff- WDT (the WDT applies to both transmission and distribution interconnections, despite its name).

** This is not applicable Net Energy Metering Generating Facilities with Permission to Operate letters received as of May 6, 2022, or proposed Net Energy Metering Generating Facilities with materially complete interconnection applications submitted as of May 6, 2022.

c. Section D.13

Section D. 13 in Rule 21 specifically addresses net energy metering.

D. GENERAL, RULES, RIGHTS AND OBLIGATIONS

13. SPECIAL PROVISIONS APPLICABLE TO CERTAIN NET ENERGY METERED APPLICANTS

Notwithstanding any other provision in this Rule:

a. For NEM Generating Facilities with a capacity of 1 MW or smaller Distribution Provider may proceed from Initial to Supplemental Review to Independent Study Process to further study without waiting for Applicant concurrence, since Applicant is not responsible for payment of study costs.

For NEM-2 Generating Facilities with a capacity greater than a megawatt interconnecting on transmission see Section B.1 – Applicability.

Otherwise, except as provided in Section D.13.e below, for NEM-2 Generating Facilities with a capacity greater than 1 MW, the special provisions contained within Section D.13 and other exemptions applicable to NEM Applicants contained within this Rule do not apply. Instead, all provisions applicable to non-NEM Interconnection Requests shall apply, including but not limited to the requirement to pay all Interconnection Request fees, study costs and upgrade costs, and the adherence to all non-NEM timeline and interconnection provisions contained within Rule 21.

b. For NEM-1 and NEM-2 Generating Facilities with a capacity of 1 MW or smaller...

c. Unless Net Generator Output Metering is required, Metering Equipment necessary to obtain service under NEM-1 or NEM-2 shall be installed and operational within the timeframe required to complete Interconnection.

d. An Applicant with a Fast Track Interconnection Request for a NEM-1 or NEM-2 Generating Facility with a capacity of 1 MW or smaller that...

e. For the purposes of establishing the interconnection requirements for Net Energy Metering Generating Facilities with a capacity greater than one megawatt (1MW)* qualifying for service under PUC Section 2827(b)(4)(B) (i.e., the California Department of Corrections and

Rehabilitation or CDCR), Distribution Provider shall be afforded a prudent but necessary time, as determined by the executive director of the Commission, to study the impacts of the Interconnection Request. If the study reveals the need for upgrades to the Transmission and/or Distribution System arising solely from the Interconnection Request, Distribution Provider shall be afforded the time necessary to complete those upgrades before the Generating Facility is interconnected. The costs of the Network and/or Distribution Upgrades shall be borne by the Applicant, but the exemption from application fees and study costs applicable to Generating Facilities eligible for Net Energy Metering under PUC Section 2827 shall apply. Distribution Provider shall consider the receipt date of the completed Interconnection Request when completing the study allowed for herein and for purposes of determining the appropriate cost responsibility for the necessary Network and/or Distribution Upgrades triggered solely by the Interconnection Request. All Generating Facilities interconnected pursuant to this section shall comply with applicable state and federal requirements, including requirements of the FERC.

For CDCR Rate Schedule NEM interconnections of Generating Facilities with a capacity greater than 1 MW, the ~~United States Armed Forces~~ the CDCR shall comply with all FERC interconnection procedures and requirements for any Generating Facility that interconnects directly to the Transmission System or that requires upgrades to the Transmission System. ~~These same provisions also apply to the Interconnection Requests of the except that the and the CDCR and the United States Armed Forces~~ shall be additionally responsible for any application fees and study costs triggered by the NEM-2 Interconnection Request.** [DELETIONS for USAF- align with SCE]

* If the generating facility is greater than 1 megawatt and interconnecting on transmission, see Applicability Section B.1.

**If the CDCR generating facility is greater than 1 megawatt and interconnecting on transmission as NEM-2, also see Applicability Section B.1.

f. Applicants with an Interconnection Request for a Net Energy Metering Generating Facility, or a Non-Export Generating Facility, shall have the opportunity to select the Cost Envelope Option I

d. United States Armed Forces Language

In the above section the language for the United States Armed Forces for certain NEM projects greater than 1 MW is removed based on legislation that allowed this language to be removed from the NEM2 tariff in AL 5355-

E⁵, as it was rendered unnecessary with the implementation of NEM2, which allows for greater than one megawatt NEM projects generally.

e. Table E.1 update

Generating Facility Type	Interconnection Request Fee	Supplemental Review Fee	Detailed Study Deposit	Additional Commissioning Test Verification	Cost Envelope Option Deposit****	Modifications Fee per Ee *****
Non-Net Energy Metering and > 1 MW NEM-2	\$800	\$2,500*	For a Generating Facility with a Gross Nameplate Rating of 5 MW or less and applying to the Independent Study Process, \$10,000 for a System Impact Study or the DGS Phase I Interconnection Study in the case of the Distribution Group Study Process; and \$15,000 for an Interconnection Facilities Study or DGS Phase II Interconnection Study in the case of the Distribution Group Study Process. For a Generating Facility with a Gross Nameplate Rating above 5 MW, \$50,000 plus \$1,000 per MW of electrical output of the Generating Facility, or the increase in electrical output of the existing Generation Facility, as applicable, rounded up to the nearest whole MW, up to a maximum of \$250,000.	\$150/Person Hour**	\$2,500	\$0
≤ 1 MW NEM-2***	\$145	\$0	\$0	N/A	\$2,500	\$0
NEM-1	\$0	\$0	\$0	N/A	\$2,500	n/a
Non-NEM Solar ≤ 1MW*****	First \$5,000 of study fees waived			\$150/Person Hour**	\$2,500	\$0

* Optional \$1,000 additional fault current study fee pursuant to Section F.2.c.ii. Pursuant to D. 20-09-035, Applicants have the option to pre-pay the non-refundable Supplemental Review Fee (such as concurrently with the Interconnection Request fee) or separately upon completion of the Initial Review.

** Plus additional costs for travel, lodging and meals.

*** Applicants that participate in the Single-Family Affordable Solar Homes (SASH) program are exempt from the Interconnection Request fee.

**** Interconnection Requests that have selected the Cost Envelope Option and that subsequently qualify for and pass the Fast Track Process evaluation, as well as NEM Generating Facilities and Solar ≤ 1 MW Generating Facilities evaluated under the Independent Study Process, must provide the Cost Envelope Option deposit in accordance with Section F.7 to remain eligible for the Cost Envelope Option.

***** The fee will be set to \$0 for now, until PG&E submits a new Advice Letter to increase it. Note: the fee does not apply to NEM-1 nor NEMFC by statute. SASH is also exempt from this fee per D. 16-01-044.

NEW FOOTNOTE: see Section B.1 *Applicability* regarding NEM-2 projects greater than 1 MW interconnecting on Transmission.

⁵ [AL 5355-E](#) - *Modifications to Electric Rate Schedule NEM2 (Net Energy Metering Service) for the Armed Forces Pursuant to Senate Bill 854* - to eliminate Special Condition 8 (Armed Forces) pertaining to the Armed Forces.

f. Table E.2 update

Table E.2 Summary of Producer Cost Responsibility

Generating Facility Type	Interconnection Request Fee		Supplemental Review Fee		Detailed Study Cost (ISP, DGSP, or TCSP)		Interconnection Facilities Cost		Distribution Upgrades Cost		Transmission Network Upgrade Cost (per Applicable CAISO Tariff at signing of IA)	
	YES	NO	YES	NO	YES	NO	YES	NO	YES	NO	YES	NO
Non-NEM and NEM-2 (>1MW)	X		X		X		X		X		X	
NEM-1		X		X		X	X			X ^a		X ^a
NEM-2 (≤1MW)*	X			X		X ^{**}	X			X		X ^{**}

* Applicants participating in the Single-Family Affordable Solar Homes program are exempt from the Interconnection Request Fee.

** Except as provided in Section F.3.d.

FOOTNOTE: see Section B.1 *Applicability* regarding NEM-2 projects greater than 1 MW interconnecting on Transmission.

g. Section F.1.c

F. REVIEW PROCESS FOR INTERCONNECTION REQUESTS (Cont'd.)

1. OVERVIEW OF THE INTERCONNECTION REVIEW PROCESS (Cont'd.)

c. Detailed Studies

Except as provided in Section B.1 *Applicability* regarding NEM-2 projects greater than 1 MW on Transmission, Detailed Study will be required for Interconnection Requests that apply directly for Detailed Study, are not eligible for Fast Track evaluation, or do not pass Fast Track evaluation. Detailed Study shall consist of one of three study processes: (i) Independent Study Process; (ii) Distribution Group Study Process; or (iii) WDT Transmission Cluster Study Process. The specific study process that is applied will depend on the results of Screens Q and R in Section G.3. Interconnection Requests that are found to be electrically interdependent

with earlier queued interconnection requests with impacts on the Transmission System, and thereby fail screen Q, will proceed to the WDT Transmission Cluster Study Process. Interconnection Requests that are not electrically interdependent with earlier-queued interconnection requests with impacts on the Transmission System, and thereby pass Screen Q, will be studied under either the Independent Study Process or the Distribution Group Study Process, depending on the results of Screen R.

2) Changes to NEM2, NEM2V, NEM2VMSH and NEM2VSOM Applicability Sections

a. Note: this advice letter assumes the “Net Energy Metering” programs affected are:

- NEM2 (including NEM2A, NEM2MT, NEM2PS, NEM2CDCR)
- NEM2V
- NEM2VMSH
- NEM2VSOM

These programs are defined in Rule 21 as “NEM-2”.

PG&E does not include the following programs. However, they are also a type of net energy metering:

- [NEMFC](#) (including NEMFCA)⁶
- [RES-BCT](#)⁶
- [NEMCCSF](#)⁷

b. Generally, the following language will be added to the applicability section of aforementioned net energy metering tariffs:

An REGF greater than one megawatt seeking interconnection under this Rate Schedule with PG&E’s transmission system is subject to Section B.1 Applicability in Electric Tariff Rule 21. This requirement is not applicable to REGFs with Permission to Operate letters received as of May 6, 2022, or proposed REGFs with materially complete interconnection applications submitted as of May 6, 2022.

c. References to “compliance to Rule 21” or “projects greater than 1 megawatt” for interconnection are, where appropriate to add clarity, footnoted to cite to Rule 21 Section B.1 Applicability regarding NEM-2 projects greater than 1 MW interconnecting on Transmission.

⁶ [NEMFC](#) and [RES-BCT](#) are limited to 5 MW already.

⁷ [NEMCCSF](#) - *Net Energy Metering Service For City And County Of San Francisco Municipal Load Served By Hetch Hetchy At-Site Photovoltaic Generating Facilities*

Protests

Anyone wishing to protest this submittal may do so by letter sent electronically via E-mail, no later than September 6, 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 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 D. 22-07-001 OP 3, this advice letter is submitted with a Tier 2 designation. and is requested to become effective September 15, 2022.

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. 11-09-011. 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

cc: Service List R.11-09-011

Attachments:

Attachment 1 – Clean version of updated Tariff

Attachment 2 – Redline Tariff Revisions



ADVICE LETTER SUMMARY

ENERGY UTILITY



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

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

Utility type:

- ELC GAS WATER
 PLC HEAT

Contact Person: 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) #: 6682-E

Tier Designation: 2

Subject of AL: Modifications to Electric Rule 21 and Net Energy Metering Tariffs for Generation Facilities Greater than One Megawatt Interconnecting on Transmission Pursuant to Decision 22-07-001 Ordering Paragraphs 1, 3 and 4

Keywords (choose from CPUC listing): Compliance

AL Type: Monthly Quarterly Annual One-Time Other:

If AL submitted in compliance with a Commission order, indicate relevant Decision/Resolution #: D.22-07-001

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: 9/15/22

No. of tariff sheets: 38

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: 6668-E, 6395-E, 6533-E

¹Discuss in AL if more space is needed.

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

California Public Utilities Commission
Energy Division Tariff Unit Email:
EDTariffUnit@cpuc.ca.gov

Contact Name: Sidnev Bob Dietz II. c/o Megan Lawson
Title: Director, Regulatory Relations
Utility/Entity Name: Pacific Gas and Electric Company

Telephone (xxx) xxx-xxxx:
Facsimile (xxx) xxx-xxxx:
Email: PGETariffs@pge.com

Contact Name:
Title:
Utility/Entity Name:

Telephone (xxx) xxx-xxxx:
Facsimile (xxx) xxx-xxxx:
Email:

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

Clear Form

Cal P.U.C. Sheet No.	Title of Sheet	Cancelling Cal P.U.C. Sheet No.
53952-E	ELECTRIC SCHEDULE NEM2 NET ENERGY METERING SERVICE Sheet 1	50613-E
53953-E	ELECTRIC SCHEDULE NEM2 NET ENERGY METERING SERVICE Sheet 2	47174-E
53954-E	ELECTRIC SCHEDULE NEM2 NET ENERGY METERING SERVICE Sheet 3	50674-E
53955-E	ELECTRIC SCHEDULE NEM2 NET ENERGY METERING SERVICE Sheet 6	42931-E
53956-E	ELECTRIC SCHEDULE NEM2 NET ENERGY METERING SERVICE Sheet 13	52979-E
53957-E	ELECTRIC SCHEDULE NEM2 NET ENERGY METERING SERVICE Sheet 14	52980-E
53958-E	ELECTRIC SCHEDULE NEM2 NET ENERGY METERING SERVICE Sheet 15	48533-E
53959-E	ELECTRIC SCHEDULE NEM2 NET ENERGY METERING SERVICE Sheet 16	37810-E
53960-E	ELECTRIC SCHEDULE NEM2 NET ENERGY METERING SERVICE Sheet 29	46841-E
53961-E	ELECTRIC SCHEDULE NEM2 NET ENERGY METERING SERVICE Sheet 30	47361-E
53962-E	ELECTRIC SCHEDULE NEM2 NET ENERGY METERING SERVICE Sheet 33	52535-E
53963-E	ELECTRIC SCHEDULE NEM2 NET ENERGY METERING SERVICE Sheet 35	45735-E
53964-E	ELECTRIC SCHEDULE NEM2V VIRTUAL NET ENERGY METERING SERVICE Sheet 1	42589-E
53965-E	ELECTRIC SCHEDULE NEM2V VIRTUAL NET ENERGY METERING SERVICE Sheet 4	37828-E

Cal P.U.C. Sheet No.	Title of Sheet	Cancelling Cal P.U.C. Sheet No.
53966-E	ELECTRIC SCHEDULE NEM2V VIRTUAL NET ENERGY METERING SERVICE Sheet 7	42592-E
53967-E	ELECTRIC SCHEDULE NEM2V VIRTUAL NET ENERGY METERING SERVICE Sheet 17	44515-E
53968-E	ELECTRIC SCHEDULE NEM2V VIRTUAL NET ENERGY METERING SERVICE Sheet 18	37842-E
53969-E	ELECTRIC SCHEDULE NEM2V VIRTUAL NET ENERGY METERING SERVICE Sheet 22	44516-E
53970-E	ELECTRIC SCHEDULE NEM2VMSH VIRTUAL NET ENERGY METERING FOR MULTIFAMILY AFFORDABLE HOUSING (MASH/NSHP) WITH SOLAR GENERATOR(S) Sheet 1	50617-E
53971-E	ELECTRIC SCHEDULE NEM2VMSH VIRTUAL NET ENERGY METERING FOR MULTIFAMILY AFFORDABLE HOUSING (MASH/NSHP) WITH SOLAR GENERATOR(S) Sheet 4	37850-E
53972-E	ELECTRIC SCHEDULE NEM2VMSH VIRTUAL NET ENERGY METERING FOR MULTIFAMILY AFFORDABLE HOUSING (MASH/NSHP) WITH SOLAR GENERATOR(S) Sheet 6	42598-E
53973-E	ELECTRIC SCHEDULE NEM2VMSH VIRTUAL NET ENERGY METERING FOR MULTIFAMILY AFFORDABLE HOUSING (MASH/NSHP) WITH SOLAR GENERATOR(S) Sheet 15	44520-E
53974-E	ELECTRIC SCHEDULE NEM2VMSH VIRTUAL NET ENERGY METERING FOR MULTIFAMILY AFFORDABLE HOUSING (MASH/NSHP) WITH SOLAR GENERATOR(S) Sheet 19	44521-E
53975-E	ELECTRIC SCHEDULE NEM2VSOM VIRTUAL NET ENERGY METERING SOLAR ON MULTIFAMILY AFFORDABLE HOUSING (SOMAH) PROPERTIES Sheet 1	50618-E
53976-E	ELECTRIC SCHEDULE NEM2VSOM VIRTUAL NET ENERGY METERING SOLAR ON MULTIFAMILY AFFORDABLE HOUSING (SOMAH) PROPERTIES Sheet 3	42118-E

Cal P.U.C. Sheet No.	Title of Sheet	Cancelling Cal P.U.C. Sheet No.
53977-E	ELECTRIC SCHEDULE NEM2VSOM VIRTUAL NET ENERGY METERING SOLAR ON MULTIFAMILY AFFORDABLE HOUSING (SOMAH) PROPERTIES Sheet 14	46740-E
53978-E	ELECTRIC SCHEDULE NEM2VSOM VIRTUAL NET ENERGY METERING SOLAR ON MULTIFAMILY AFFORDABLE HOUSING (SOMAH) PROPERTIES Sheet 18	42133-E
53979-E	ELECTRIC RULE NO. 21 GENERATING FACILITY INTERCONNECTIONS Sheet 15	42312-E
53980-E	ELECTRIC RULE NO. 21 GENERATING FACILITY INTERCONNECTIONS Sheet 33	42330-E
53981-E	ELECTRIC RULE NO. 21 GENERATING FACILITY INTERCONNECTIONS Sheet 41	42338-E
53982-E	ELECTRIC RULE NO. 21 GENERATING FACILITY INTERCONNECTIONS Sheet 42	42339-E
53983-E	ELECTRIC RULE NO. 21 GENERATING FACILITY INTERCONNECTIONS Sheet 44	46374-E
53984-E	ELECTRIC RULE NO. 21 GENERATING FACILITY INTERCONNECTIONS Sheet 55	50338-E
53985-E	ELECTRIC RULE NO. 21 GENERATING FACILITY INTERCONNECTIONS Sheet 65	49794-E
53986-E	ELECTRIC RULE NO. 21 GENERATING FACILITY INTERCONNECTIONS Sheet 76	50346-E
53987-E	ELECTRIC TABLE OF CONTENTS Sheet 1	53936-E
53988-E	ELECTRIC TABLE OF CONTENTS Sheet 6	53117-E
53989-E	ELECTRIC TABLE OF CONTENTS Sheet 7	53563-E
53990-E	ELECTRIC TABLE OF CONTENTS Sheet 20	53937-E



**ELECTRIC SCHEDULE NEM2
NET ENERGY METERING SERVICE**

Sheet 1

APPLICABILITY: This net energy-metering schedule pursuant to Decision (D.) 16-01-044 is applicable to a customer who takes service on an applicable time-of-use (TOU) rate schedule^{1,2} and who uses a Renewable Electrical Generation Facility (REGF) as defined below that is located on the customer's owned, leased, or rented premises, is interconnected and operates in parallel with PG&E's transmission and distribution systems, and is intended primarily to offset part or all of the customer's own electrical requirements (hereinafter "eligible customer-generator" or "customer"). For a NEM REGF paired with storage, see Special Condition 9.

An REGF greater than one megawatt seeking interconnection under this Rate Schedule with PG&E's transmission system is subject to Section B.1 *Applicability* in Electric Tariff Rule 21. This requirement is not applicable to REGFs with Permission to Operate letters received as of May 6, 2022, or proposed REGFs with materially complete interconnection applications submitted as of May 6, 2022.

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Notwithstanding the definition of "eligible customer-generator" above, eligible customer generator also includes (i) the California Department of Corrections and Rehabilitation (CDCR) pursuant to Special Condition 7 of this tariff.

Subject to the requirements of Special Condition 6, Load Aggregation to determine the customer's own electrical requirements is permitted. Certain incremental billing and metering costs set forth in this schedule that are related to net energy metering are applicable to Electric Service Providers (ESPs) serving eligible customer-generators.

This service is not applicable to a Direct Access (DA) customer where the customer's ESP does not offer a net energy metering tariff. In addition, if the tariffs for the customer's ESP do not permit Load Aggregation, as described in Special Condition 6, this option is not available to the DA customer. In addition, if an eligible customer-generator participates in direct transactions with an ESP that does not provide distribution service for the direct transactions, the ESP, and not PG&E, is obligated to provide net energy metering to the customer.

This rate schedule is available to customers that provide PG&E with:

- (a) a completed, signed Net Energy Metering Application and Interconnection Agreement as described in Special Condition 3 including all supporting documents and required payments; AND
- (b) evidence of the customer's final inspection clearance from the governmental authority having jurisdiction over the REGF,

See Special Condition 8 for NEM2 Legacy Provisions.

¹ Customers on Schedules such as ET, ES, and ESR, which have no corresponding TOU Rate, are not required to switch to TOU rates, unless and until such a rate becomes available.

² Customers, including those on Load Accounts on NEMA as described in Special Condition 6, switching from Schedule NEM to this NEM2 successor tariff are required to take any applicable TOU rate, beginning at the time the customer switches to the NEM successor tariff, pursuant to D.14-03-041 and D. 16-01-044.

(Continued)



**ELECTRIC SCHEDULE NEM2
NET ENERGY METERING SERVICE**

Sheet 2

APPLICABILITY: Customers seeking generator interconnections in portions of San Francisco and Oakland where PG&E has a network grid must contact PG&E about generation export limitations.
(Cont'd.)

A REGF means a generating facility that generates electricity by using:

- a) biomass,
- b) solar thermal,
- c) photovoltaic,
- d) wind,
- e) geothermal,
- f) fuel cells using renewable fuels,
- g) small hydroelectric generation (but a small hydroelectric generation facility is not an eligible REGF if it will cause an adverse impact on instream beneficial uses or cause a change in the volume or timing of streamflow),
- h) digester gas,
- i) municipal solid waste conversion,
- j) landfill gas,
- k) ocean wave,
- l) ocean thermal, or
- m) tidal current,

and any additions or enhancements to the facility using that technology pursuant to paragraph (1) of subdivision (a) of Section 25741 of the Public Resources Code. These renewable sources are defined in the latest version of the California Energy Commission's (CEC's) Renewables Portfolio Standard (RPS) Eligibility Guidebook and the Overall Program Guidebook.³

Schedule NEM2 applies also to specified net energy metering eligible (NEM2-eligible) generators in a REGF comprised of multiple NEM2- and non-NEM2-eligible generators, served through the same Point of Common Coupling (PCC), where the NEM2-eligible generating capacity sized to customer load and in the case of the CDCR, for CDCR accounts also satisfies Special Condition 7, respectively. Such facilities will be referred to as Multiple Tariff Facilities, and any group of generators within such a facility that is subject to the same tariff provisions for billing and metering purposes will be referred to as a Constituent Generator Group. In order to be eligible for this rate schedule in a Multiple Tariff Facility, the customer-generator must meet all the requirements of Special Condition 4 for the schedule NEM2-eligible generator, and must also meet any other applicable tariffs.

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³ The RPS Guidebooks can be found at: <https://www.energy.ca.gov/programs-and-topics/programs/renewables-portfolio-standard>

(Continued)



**ELECTRIC SCHEDULE NEM2
NET ENERGY METERING SERVICE**

Sheet 3

APPLICABILITY:
(Cont'd.)

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Due to the complexity of Load Aggregation Arrangements and/or Multiple Tariff Facilities NEM2 generating facilities interconnecting under the provisions of Special Conditions 4 and 6 may require additional review and/or interconnection facilities and other equipment, and may incur interconnection costs, as provided for in electric Rule 21*.

(T)

All Customers with Renewable Electrical Generation Facilities larger than 1 MW are subject to interconnection, Network and/or Distribution upgrade costs in accordance with Rule 21*.

(T)

All Customers must:

- 1) ensure that the generating facility is compliant with all applicable safety and performance standards as delineated in PG&E's Electric Rule 21 and other applicable tariffs*;
- 2) understand that PG&E may from time to time release to the California Energy Commission and/or the California Public Utilities Commission, information regarding the Customer's facility, including Customer's name and REGF location, capacity and operational characteristics. Furthermore, as a condition of receiving service under this tariff, pursuant to CPUC Decisions 14-11-001 and 21-06-026, PG&E is required to provide certain data, including, but not limited to, confidential customer information, to the CPUC, its contractors, the California Department of Consumer Affairs Contractors State License Board, and the California Department of Financial Protection & Innovation. Customer authorizes PG&E to release any and all information provided in the Net Energy Metering Application for interconnection to the entities identified above without further notification or consent.

(T)

Change of Party for 30 kW or less: A Customer who owns, rents or leases a premises that includes solar and/or wind turbine electrical generating facilities, or a hybrid of both with a capacity of 30 kW or less, that was approved by PG&E for NEM2 interconnection prior to the Customer moving in and/or taking electric service with PG&E (Change of party Customer) will take service on this tariff (or other appropriate tariffs as determined by the Commission) as long as the requirements of the section above (regarding tariff compliance and release of information) are met. Any type of REGF other than either a solar and/or wind turbine electrical generating facilities, or a hybrid of both with a capacity of 30 kW or less, may at PG&E's request be required to complete and submit to PG&E a new NEM2MT Interconnection Agreement as indicated in Special Condition 3 and/or Affidavit (Appendix C).

* See Rule 21 Section B.1 Applicability regarding NEM-2 projects greater than 1 MW interconnecting on Transmission.

(N)
(N)

(Continued)



**ELECTRIC SCHEDULE NEM2
NET ENERGY METERING SERVICE**

Sheet 6

SUB-SCHEDULES: Eligible customer-generators will be placed on the appropriate sub-schedule as described below:

1. NEM2S – For Small Customer (as defined in Rule 1) customer-generators taking service with solar and/or wind generating facilities of 30 kilowatts or less.
2. NEM2EXP – For Small Customer (as defined in Rule 1) customer-generators with (i) solar and/or wind generating facilities of 1,000 kilowatts or less, other than facilities of 30 kilowatts or less, or (ii) any other REGF of 1,000 kilowatts or less.
3. NEM2EXPM – For all other commercial, industrial customer-generators, and agricultural customers billed monthly under Special Condition 2.
4. NEM2MT – For customer-generators taking service as a Multiple Tariff Facility under Special Condition 4 of this tariff.
5. NEM2A – For a customer-generator with a Load Aggregation Arrangement pursuant to Special Condition 6 of this tariff.
6. NEM2CDCR – For a CDCR customer-generator pursuant to Special Condition 7.

SPECIAL CONDITIONS:

1. METERING*: Multiple Tariff Facilities will be metered under one of the options described in Special Condition 4. All other net energy metering shall be accomplished using a single meter capable of separately registering the flow of electricity in two directions (imports and exports). If the eligible customer-generator's existing electrical meter is not capable of separately measuring the flow of electricity in two directions, the eligible customer-generator shall be responsible for all expenses involved in purchasing and installing a meter that is able to separately measure electricity flow in two directions (imports and exports). (T)

If none of the normal metering options available at PG&E's disposal which are necessary to render accurate billing are acceptable to the customer-generator, PG&E shall have the right to refuse interconnection. As an alternative, PG&E shall have the option to provide an estimation methodology for such customers.

Customer-generators with Load Aggregation Arrangements will need metering on the Generating Account capable of separately measuring imports and exports in a manner commensurate with the smallest time interval used by PG&E to establish billing determinates for any of the Aggregated Account meters. If a newly installed REGF can use the existing metering, the metering charges will be based on applicable meter charges in the Generating Account TOU OAS; if a new meter is requested by the customer for a new service as allowed in Special Condition 3, it must be installed at the customer's expense as a Special Facility using incremental costs, pursuant to Section I, Electric Rule 2.

*There may be additional metering requirements under Rule 21 Section B.1 Applicability regarding net energy metering NEM-2 projects greater than 1 MW interconnecting on Transmission. (N)
(N)

(Continued)



**ELECTRIC SCHEDULE NEM2
NET ENERGY METERING SERVICE**

Sheet 13

SPECIAL
CONDITIONS:
(Cont'd.)

3. INTERCONNECTION: Prior to receiving approval for Parallel Operation, the customer-generator must submit a completed PG&E application form and interconnection agreement as follows:

Rate Option	Application	Interconnection Agreement
NEM2S	For Solar and/or Wind Electric Generating Facilities of 30 Kilowatts or Less: <i>Application - Net Energy Metering (NEM2) Interconnection for Solar and/or Wind Electric Generating Facilities of 30 Kilowatts or Less (Form 79-1151B-02)⁴</i>	<i>Agreement and Customer Authorization – Net Energy Metering (NEM2) Interconnection for Solar and/or Wind Electric Generating Facilities of 30 Kilowatts or Less (Form 79-1151A-02)⁴</i>
NEM2EXP NEM2EXPM	For Solar and/or Wind Net Energy Metering (NEM2) Generating Facilities of 1,000 Kilowatts or Less, other than Facilities of 30 Kilowatts or Less: <i>Generating Facility Interconnection Application, (Form 79-1174-02)</i>	<i>Interconnection Agreement for Net Energy Metering (NEM2) of Solar or Wind Electric Generating Facilities of 1,000 Kilowatts or Less, other than Facilities of 30 Kilowatts or Less (Form 79-1198-02)</i>
	For Net Energy Metering (NEM2) non-Solar and/or Wind Generating Facilities of any size, and Solar and/or Wind Generating Facilities greater than 1,000 kW*: <i>Generating Facility Interconnection Application, (Form 79-1174-02)</i>	<i>Interconnection Agreement For Net Energy Metering (NEM2) non-Solar and/or Wind Generating Facilities of any size, and Solar and/or Wind Generating Facilities greater than 1,000 kW (Form 79-1198-02)</i>

(T)

⁴ Both the Agreement and Customer Authorization (79-1151A-02) and Application (79-1151B-02) forms must have been submitted before PG&E will issue the Permission to Operation (PTO) letter. Information in the Application can be submitted by the Company or Customer in an electronic format, subject to approval by PG&E.

* Also see Rule 21 Section B.1 Applicability regarding NEM-2 projects greater than 1 MW interconnecting on Transmission.

(N)
(N)

(Continued)



**ELECTRIC SCHEDULE NEM2
NET ENERGY METERING SERVICE**

Sheet 14

SPECIAL
CONDITIONS:
(Cont'd.)

3. INTERCONNECTION: (Cont'd.)

Rate Option	Application	Interconnection Agreement
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NEMPS	For NEMPS (Special Condition 9) for projects that meet NEM integrity requirements	
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<i>Generating Facility Interconnection Application, (Form 79-1174-02)</i>	79-1193-02- AGREEMENT AND CUSTOMER AUTHORIZATION Net Energy Metering (NEM2) Interconnection For Solar And/Or Wind Electric Generating Facilities Of 30 Kilowatts Or Less with Energy Storage of 10 Kilowatts Or Less or Energy Storage with Power Control System Certification
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NEM2, NEM2EXP, NEM2A ,or NEM2MT > 1,000 kW	<i>Generating Facility Interconnection Application (Form 79-1174-02)</i>	<i>Rule 21 Generator Interconnection Agreement for New Energy Metering (NEM-2) Generating Facilities Greater than 1,000 Kilowatts Interconnecting Under the Fast Track Process (Form 79-1198-02)</i>
--	--	--

<i>Rule 21 Generator Interconnection Agreement (GIA) for Net Energy Metering (NEM2) Generating Facilities Greater than 1,000 Kilowatts Interconnecting Under the Independent Study, Distribution Study, or Transmission Cluster Process (Form 79-1198-02)*</i>	(T)
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NEM2MT	For customer-generators ≤ 1 MW taking service as a Multiple Tariff Facility under Special Condition 4 of this tariff:
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<i>Generating Facility Interconnection Application (Form 79-1174-02)</i>	<i>Generating Facility Interconnection Agreement (NEM2MT - Multiple Tariff) (Form 79-1069-02)</i>
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NEM2A	NEM2 Load Aggregation ≤ 1 MW
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Along with the applicable interconnection form above, also submit:

NEM2 Load Aggregation Appendix (Form 79-1202)

NEM2CDCR	See Special Condition 7
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* Also see Rule 21 Section B.1 Applicability regarding NEM-2 projects greater than 1 MW interconnecting on Transmission.

(N)
(N)

(Continued)



**ELECTRIC SCHEDULE NEM2
NET ENERGY METERING SERVICE**

Sheet 15

SPECIAL
CONDITIONS:
(Cont'd.)

3. INTERCONNECTION: (Cont'd.)

For Load Aggregation, a completed and signed "NEM Load Aggregation Appendix" (Form 79-1202) must be submitted together with the appropriate NEM interconnection agreement listed above.

The eligible customer-generator must meet all applicable safety, and performance standards established by the National Electrical Code, the Institute of Electrical and Electronics Engineers, and accredited testing laboratories such as Underwriters Laboratories and, where applicable, rules of the California Public Utilities Commission regarding safety and reliability.

In order to promote the safety and reliability of the customer REGF, the applicant is required to verify as a part of each interconnection request for this tariff, that all major solar system components are on the verified equipment list maintained by the California Energy Commission and other equipment, as determined by PG&E, should be verified by the customer as having safety certification from a nationally recognized testing laboratory.

Applicant is required to verify as a part of each interconnection request for this tariff, that (i) a warranty of at least 10 years, or (ii) a 10-year service warranty or executed "agreement" ensuring proper maintenance and continued system performance has been provided on all equipment and on its installation.

For Load Aggregation Arrangements Requesting an additional service for Generator – Subject to all other applicable rules, an additional service may be allowed for the Generating Account if it has no load other than that associated directly with the REGF. However, a customer may not subsequently add load to that additional service, and if the REGF is removed, the additional service, may not be converted to a load account.

Customers on this tariff must pay for the interconnection of their REGF as provided in Electric Rule 21*, including an application fee. This application fee must be paid through PG&E's online application portal in order to complete the application, unless otherwise directed by PG&E. For application fees for Customers impacted by a Natural or Man-Made Disasters⁵, see Special Condition 10.

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* See Rule 21 Section B.1 Applicability regarding NEM-2 projects greater than 1 MW interconnecting on Transmission.

(N)

⁵ Natural or man-made disasters includes such events as a fire, earthquake, flood, or severe storms.

(N)

(Continued)



**ELECTRIC SCHEDULE NEM2
NET ENERGY METERING SERVICE**

Sheet 16

SPECIAL
CONDITIONS:
(Cont'd.)

3. INTERCONNECTION: (Cont'd.)

For the purposes of the NEM2, NEM2V, and NEM2VMSH tariffs, the rating of the generating facility, for the purposes of comparing its size relative to the 1 megawatt (MW) limit*, will be determined based on:

- (a) For each PV generator, the California Energy Commission's (CEC) AC rating;
- (b) For each inverter based generator, the gross nameplate rating of the inverter; or
- (c) For each non-inverter based generator, the generator gross nameplate.

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(L)

4. MULTIPLE TARIFF FACILITIES:

Multiple Tariff Facilities have the following additional provisions:

- a. When Net Generation Output Metering (NGOM) is required, such NGOM must conform to the requirements set forth in Electric Rule 21, Section J.
- b. A NEM2-eligible Constituent Generator Group is defined as a constituent generator group that is eligible for service under the provisions of either schedule NEM, NEM2, NEMBIO or NEMFC or their sub-schedules.
- c. A non-NEM2-eligible Constituent Generator Group is defined as a constituent generator group that does not take service under the provisions of schedule NEM, NEM2, NEMBIO or NEMFC, but interconnects under the non-NEM2 provisions of Electric Rule 21.
- d. All metering for Multiple Tariff Facilities called for in this Special Condition must meet the requirements needed to bill under the customer-generator's OAS. All metering, equipment and Non Export relays necessary to implement the provisions in this section will be provided at the Customer-Generator's expense.
- e. Any generators eligible for tariffs NEMA, NEM2, NEMFCA or NEMBIOA (accounts with the loads from eligible accounts aggregated on the main NEM, NEM2, NEMFC or NEMBIO account pursuant as allowed under this Special Condition 4 of this NEM2 tariff) will be treated as a separate Constituent Generator Group. However at this time NEM2A may not be combined with NEMA, NEMFCA or NEMBIOA under this Special Condition.

*For the purposes of Rule 21 Section B.1 Applicability regarding NEM-2 projects greater than 1 MW interconnecting on Transmission, the capacity of all Generating Facilities in will be considered in counting towards the 1MW limit.

(N)
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(N)

(Continued)



**ELECTRIC SCHEDULE NEM2
NET ENERGY METERING SERVICE**

Sheet 29

SPECIAL
CONDITIONS:
(Cont'd.)

9. NEM Paired Storage

a. Definitions: (Cont'd.)

No Grid Charging:

A storage system that uses a power control configuration that is either certified to a national standard or to a utility-approved interim testing procedure, either of which ensures that the storage system cannot be charged from the PG&E grid⁹. A PG&E approved physical non-import relay or a functionally equivalent non-import configuration to prevent grid power from flowing to the storage device is also permitted. Customers may not have access to software settings, only the installer and the storage provider would be able to access and select settings profiles. Inadvertent but minor instances of grid import are permitted. Such inadvertent grid imports must not exceed durations of ten seconds.

No Storage Export:

A storage system that uses a power-control configuration that is certified either to a national standard or to a utility-approved interim testing procedure, either of which ensures that the storage system cannot export to PG&E's grid. A PG&E approved physical non-export relay or a functionally equivalent non-export configuration to prevent grid power from flowing to the storage device is also permitted. Inadvertent but minor instances of storage export are permitted. Such inadvertent grid exports must not exceed durations of ten seconds.

b. Interconnection

NEM Paired Storage will have the same interconnection cost responsibility as the NEM generator that it is paired with, including charges or fees related to the interconnection application, Rule 21* engineering study/review, and/or any associated distribution upgrades.

(T)

See Section c.5. below for additional information

c. Types of NEM Paired Storage

The Renewables Portfolio Standard (RPS) Guidebook⁸ establishes two categories of energy storage that may be considered an addition or enhancement to a renewable electrical generation facility: "integrated" and "directly connected" storage.

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(L)

⁹In the event of an expected PSPS (Public Safety Power Shutoff) outage, as evidenced by a 48-hour notice from PG&E to the expected outage start, a storage system defined as "No Grid Charging" and designed for resiliency, meaning it is capable of providing back-up power safely and in compliance with all relevant tariffs, electric rules, other requirements, and is qualified by PG&E to participate, will be temporarily permitted to charge from the grid in order to prepare for the PSPS outage. The notification must specify an impact to the customer generator location. This temporary permission will begin at the publication of the 48-hour notification and will end 24 hours after the end of the PSPS event, as marked by the restoration of power at the site. If power is not shutoff, the temporary permission will end 72 hours after the original 48-hour notice. At the end of the temporary permission period as described above, the storage system will need to revert to "No Grid Charging" operation mode in order to maintain compliance with the NEM tariff, notwithstanding additional PSPS Alerts. At no point during the temporary permission period will the system be permitted to violate the interconnection agreement. Specifically, the storage system must not increase the host facility's historical peak demand.

* See Rule 21 Section B.1 Applicability regarding NEM-2 projects greater than 1 MW interconnecting on Transmission.

(N)

(Continued)



**ELECTRIC SCHEDULE NEM2
NET ENERGY METERING SERVICE**

Sheet 30

SPECIAL
CONDITIONS:
(Cont'd.)

9. NEM Paired Storage

c. Types of NEM Paired Storage

1) Integrated Storage:

Integrated Energy Storage is defined in the RPS guidelines as methods of storing energy from a renewable energy resource that are integrated into the REGF as part of the generation process. Note that, for battery-based storage, the storage device must **only** be capable of storing energy from the REGF to be considered Integrated Storage.

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INTEGRATED STORAGE (By definition the storage device must only be capable of storing energy from the REGF)			
SCENARIO	Billed As	Interconnection Agreements	Interconnection Costs
AC Coupled Or DC Coupled	billed as if storage and REGF were all one generator (e.g. NEMS, NEMEXP)	≤ 1 MW apply with 79-1174-02 and Interconnection agreement 79-1193-02	Per 5.i
		> 1 MW apply with 79-1174-02 and Interconnection agreement 79-1198-02*	Per 5.ii or iii

(T)

2) Directly Connected:

Directly Connected NEM Paired Storage is defined in the RPS guidelines as meeting the following requirements:

(i) The storage device is directly connected to the REGF via an internal power line (i.e., power may not be transmitted from the renewable facility to the energy storage via an external distribution line) and

(ii) The storage device must be operated as part of the NEM eligible facility.

Note that the storage device is **not** required to be exclusively charged by the REGF.

* See Rule 21 Section B.1 Applicability regarding NEM-2 projects greater than 1 MW interconnecting on Transmission.

(N)

(N)

(Continued)



**ELECTRIC SCHEDULE NEM2
NET ENERGY METERING SERVICE**

Sheet 33

SPECIAL
CONDITIONS:
(Cont'd.)

- 9. NEM Paired Storage
 - c. Types of NEM Paired Storage

DIRECTLY CONNECTED - Table 11.2 (This table covers storage that is NOT 100% REGF charged) For Both AC and DC Coupled Storage						
May Include ▶ No-Grid Charged storage (if other nonrenewable generation present) ▶ Non Storage Export (if other nonrenewable generation present) Includes All ▶ Grid Charged Storage And Storage Exports All apply with Application 79-1174-02 Includes ▶ Non-Storage Export with either NGOM or non-export relay equivalent (if no other nonrenewable generation present) All apply with Application 79-1174-02						
	PV/Wind < 30 kW	Non- PV/Wind REGF ≤1MW >30 kW PV/Wind ≤1MW	REGF >1Mw*	Bill as	IC costs	Notes
Storage ≤ 10 kW	79-1193-02	79-1069-02	79-1198-02	§3i	Per 5.i	Estimation Methodology
Storage > 10 kW And < 150% ¹⁰	79-1069-02	79-1069-02	79-1198-02	§3ii	Per 5.ii or iii	NGOM, No Grid Charging, No Storage Export¹¹
Storage > 10 kW And > 150%	Set up and bill as NEMMT (not under NEM-Paired Storage section)					

(T)

* See Rule 21 Section B.1 Applicability regarding NEM-2 projects greater than 1 MW interconnecting on Transmission

(N)
(N)

¹⁰ the storage system shall have a maximum output power no larger than 150% of the NEM-eligible generator's maximum output capacity. Pursuant to Decision 20-06-017 the maximum output capacity limit shall not apply for a period of 3 years starting on August 16, 2020.

¹¹ see definition of "No Grid Charging" storage and "No Storage Export" above in 9.a above.

(Continued)



**ELECTRIC SCHEDULE NEM2
NET ENERGY METERING SERVICE**

Sheet 35

SPECIAL
CONDITIONS:
(Cont'd.)

9. NEM Paired Storage

c. Types of NEM Paired Storage

4) NEM Paired Storage Output Metering Costs

PG&E will install standard metering equipment whenever possible while interconnecting NEM Paired Storage systems. Standard metering equipment for this purpose comprises a single meter which is a self-contained, single phase, SmartMeter. The fee for installation of standard metering equipment is no more than \$600.00.

However, this fee cap does not apply to NEM Paired Storage requiring complex metering solutions. Complex metering solutions include any configuration other than the standard equipment described above. The cost for complex metering varies and is based on actual costs which will be described in the customer's invoice.

5) NEM Paired Storage Interconnection Cost Responsibility

For the purpose of determining if a NEM Paired Storage REGF exceeds 1 MW criterion, refer to the sizing definition included in the AC-Coupled and DC-Coupled definition at the beginning of this Special Condition.

- i) NEM Paired Storage REGF < 1 MW - The storage will have the same interconnection cost responsibility as the NEM-eligible GF that it is paired with for a REGF less than or equal to 1 MW.
- ii) NEM Paired Storage REGF > 1 MW - The storage will have the same interconnection cost responsibility as the NEM generator that it is paired with for a REGF greater than 1 MW
- iii) In the event the storage is added at a later date after the permission to operate of the NEM-eligible GF it is subsequently paired with, the storage applicant will be required to pay the same interconnection fees and costs that the NEM-eligible GF would be required to pay, as provided in Electric Rule 21*.

(T)

* See Rule 21 Section B.1 Applicability regarding NEM-2 projects greater than 1 MW interconnecting on Transmission.

(N)
(N)



ELECTRIC SCHEDULE NEM2V
VIRTUAL NET ENERGY METERING SERVICE

Sheet 1

APPLICABILITY: This virtual net energy-metering schedule is applicable to a multi-tenant or multi-meter¹ Eligible NEM2V installation on a single eligible Property, as defined below, and that includes the following:

- a. A Generator Account that:
 - 1) consists of a Renewable Electrical Generation Facility (REGF)², sized no larger than the energy requirements of all Benefitting Accounts; and
 - 2) is taking service on an applicable time-of-use TOU rate
 - 3) has no load other than that required by the REGF or the combination of such; and
 - 4) takes service, with the generator owner or their designee as the Customer of record (“Owner”); and
- b. Benefitting Account(s), each of which:
 - 1) takes service from PG&E; and
 - 2) is an individually metered, electric account serving a tenant or common area with no other generating facility interconnected with PG&E on the account; and
 - 3) is taking service on an applicable TOU^{3,4} rate schedule
 - 4) does not participate in another virtual net energy metering program or the RES-BCT program.

An REGF greater than one megawatt (MW) seeking interconnection under this Rate Schedule with PG&E’s transmission system is subject to Section B.1 Applicability in Electric Tariff Rule 21. This requirement is not applicable to REGFs with Permission to Operate letters received as of May 6, 2022, or proposed REGFs with materially complete interconnection applications submitted as of May 6, 2022.

(N)
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(N)

¹ Multi-meter” means two or more utility revenue meters, including master meters, participating in the NEM2V program, in addition to the Generator Account meter.

² Consistent with Decision (D.) 14-05-033, as modified by D. 16-01-044, NEM paired storage may interconnect under this tariff subject to the metering and sizing requirements specified in D. 14-05-033. For a REGF with storage (NEM2V Storage), please see Special Condition 6.

³ Customers on Schedules such as ET, ES, ESR, which have no available corresponding TOU Rate are not required to switch to TOU rates, unless and until such a rate becomes available.

⁴ Customers, including those at Benefitting accounts, when the arrangement switches from Schedule NEMV to this NEM2V successor tariff are required to take any applicable TOU rate, beginning at the time the customer switches to the NEM successor tariff, pursuant to D.14-03-041 and D.16-01-044. Any account not found to be on a TOU rate will automatically be defaulted to the specified TOU rate defined in the “Rate” section below.

(Continued)



ELECTRIC SCHEDULE NEM2V
VIRTUAL NET ENERGY METERING SERVICE

Sheet 4

APPLICABILITY: **Network Grid Limitations** – Portions of San Francisco and Oakland, where PG&E has a network grid, have generation export limitations. Customers seeking generator interconnections in San Francisco and Oakland must contact PG&E before beginning any work.

(Cont'd.)

Disconnect/Reconnect – PG&E will inform the Owner of any disconnect/reconnect procedure charges they may expect at the time of interconnection. Typically these charges range from no charge to \$4000.00, depending on individual circumstances, such as (i) whether the disconnection can be performed locally at a switch or requires additional manpower for circuit switching and/or disconnection work at multiple locations; (2) whether or not the work will be performed on overtime, either due to Qualified Customer's request or the needs of adjacent customers; (3) if the customer requests the PG&E resources to standby for reconnection, and (4) other factors.

Owner Obligations – The Owner must:

- a. comply with all applicable safety and performance standards as delineated in PG&E's Electric Rule 21* and other applicable tariffs, safety and performance standards established by the National Electrical Code, the Institute of Electrical and Electronics Engineers, and accredited testing laboratories such as Underwriters Laboratories and, where applicable, rules of the California Public Utilities Commission regarding safety and reliability. The Owner is solely responsible for the ongoing maintenance and operation of the REGF; and (T)
- b. keep in force the amount of property, commercial general liability and/or personal liability insurance the Owner has in place at the time they initiate service on this tariff; and
- c. agree that PG&E may from time to time release to the California Energy Commission and/or the California Public Utilities Commission, information regarding the NEM2V Arrangement, including the Owner's name, and their REGF location, capacity and operational characteristics, and Qualified Customer names at the Benefitting Accounts; and
- d. agree to and comply with all applicable rules and requirements of this NEM2V Rate Schedule; and
- e. verify as a part of each interconnection request for this tariff, that all major solar system components are on the verified equipment list maintained by the California Energy Commission and other equipment, as determined by PG&E, is verified by the customer as having safety certification from a nationally recognized testing laboratory.
- f. provide as a part of each interconnection request for this tariff, (i) a warranty of at least 10 years on all equipment and on its installation, or (ii) a 10-year service warranty or executed "agreement" ensuring proper maintenance and continued system performance.

* See Rule 21 Section B.1 Applicability regarding NEM-2 projects greater than 1 MW interconnecting on Transmission.

(N)
(N)

(Continued)

Advice 6682-E
Decision D.22-07-001

Issued by
Meredith Allen
Vice President, Regulatory Affairs

Submitted
Effective
Resolution

August 17, 2022



ELECTRIC SCHEDULE NEM2V
VIRTUAL NET ENERGY METERING SERVICE

Sheet 7

RATES:
(Cont'd.)

Generator Accounts eligible for service under NEM2V are exempt from the requirements of Schedule S—Standby Service.

PG&E rates and rate design, including the rates and rate design reflected in this Tariff, are subject to change from time to time. Customers should take this into consideration when making any long term decisions based on rate structures that are currently in place.

SPECIAL
CONDITIONS:

1. METERING: NEM2V net energy metering shall be accomplished at:

a. The Generator Account* where the REGF is located, using either: (T)

- 1) An interval meter (capable of recording the REGF's output in up to fifteen minute increments), if required by PG&E to allocate the Eligible Energy Credit based on the OAS of the Benefitting Accounts in an NEM2V Arrangement. For example, if any Benefitting Accounts in the NEM2V Arrangement takes service on an OAS with a Demand Charge where the Qualified Customer at the Benefitting Account opts to receive a demand credit pursuant to Special Conditions 1 and 3.g, the Owner must install a PG&E interval meter under this option. The Owner shall be responsible for, and shall bear all costs associated with PG&E providing and installing an interval meter for the Generator Account. The cost of the interval meter installation will be determined by PG&E and will vary on a site-specific basis as described below.

If the Owner is participating in a renewable incentive program such as the California Solar Initiative (CSI) Program or the Self-Generation Incentive Program (SGIP), for the Generator Account then the meter installed under this option may also be used to issue performance payments consistent with the current incentive program handbook requirements. This tariff's metering requirements will take precedence over the incentive program metering requirements for the performance meter.

The Owner or Operator selecting this option to use a single meter for the dual purpose of tracking the generation for the NEM2V Generator Account and to issue performance based incentives will need to install a meter that must be: 1) a PG&E owned meter, 2) a PG&E read meter where PG&E will read the meter data for purposes of providing an incentive payment, and 3) installed in a location approved by PG&E. In addition to this metering requirement for incentives, the Owner and Operator will need to contract separately for any Performance Monitoring and Reporting Service (PMRS) as required by the incentive program.

* There may be additional metering requirements under Rule 21 Section B.1 Applicability regarding net energy metering NEM-2 projects greater than 1 MW interconnecting on Transmission.

(N)
(N)

(Continued)



ELECTRIC SCHEDULE NEM2V
VIRTUAL NET ENERGY METERING SERVICE

Sheet 17

SPECIAL
CONDITIONS:
(Cont'd.)

3. BILLING: (Cont'd.)

k. OAS Payment Option

Eligible Small Customer (as defined in Rule 1) Benefitting Accounts will be required to pay monthly, unless they specifically request to pay annually, for the net energy (kWh) consumed. For commercial Benefitting Accounts other than Small Commercial, the net balance of all moneys owed must be paid on each monthly billing cycle. When the Qualified Customer is a net electricity producer over a monthly billing cycle, the value of any excess kilowatt-hours generated during the billing cycle shall be carried over to the following billing period and appear as a credit on the Qualified Customer's account, until the end of the Relevant Period.

l. Electric Service Providers (ESP) Charges:

If PG&E provides direct access (DA) metering for the ESP, UDC consolidated billing (that is, PG&E Consolidated Billing as described on PG&E's Rule 22), or ESP dual or consolidated billing support services for DA Qualified Customer served under PG&E's rates or their ESP's rates, PG&E may recover the incremental costs related to net energy metering from the customer's ESP as follows:

Metering services: \$104 Metering Service Base charge, plus \$73/hour for on-site work, plus materials.

Billing: \$85/hour plus materials.

4. INTERCONNECTION:

In order to receive approval for Parallel Operation of the REGF, including NEM2V Storage per Special Condition 6 (if applicable), or to resume service after being impacted by a Natural or Man-Made Disaster per Special Condition 7, the Owner must submit a completed PG&E application and interconnection agreement form as follows:

Interconnection Costs: The Owner or Operator of the Eligible Generator must pay all interconnection costs and application fees required under Rule 21*, including but not limited to re-wiring, trenching, conduit, and other facility costs that are needed. This application fee must be paid through PG&E's online application portal in order to complete the application, unless otherwise directed by PG&E. For NEM2V Storage Interconnection cost, see Special Condition 6. For application costs associated with systems impacted by a Natural or Man-Made Disaster, see Special Condition 7.

(T)

* See Rule 21 Section B.1 Applicability regarding NEM-2 projects greater than 1 MW interconnecting on Transmission.

(N)
(N)

(Continued)



ELECTRIC SCHEDULE NEM2V
VIRTUAL NET ENERGY METERING SERVICE

Sheet 18

SPECIAL
CONDITIONS:
(Cont'd.)

4. INTERCONNECTION: (Cont'd.)

Facility Type:

Forms Required

NEM2V
Solar or
Wind
Renewable
Generation
Facility

Online Rule 21 Generator Interconnection Application
(Form 79-1174-02)
NEM2V Application and Interconnection Agreement for a Solar (PV) or Wind Generating Facility of 1 Megawatt or Less
(Form 79-1131-02)
Appendix A – Designation of NEM2V Generating Account and Benefitting Accounts and their respective Eligible Energy Credit Allocation

Appendix B – Owner Affidavit Warranting That NEM2V Arrangement Is Sized to Load.

Appendix C- Generator Interconnection Point Documentation
Online Rule 21 Generator Interconnection Application

NEM2V
Renewable
Generation
Facility other
than Solar
(PV) or Wind

(Form 79-1174-02)
Appendix A – Designation of NEM2V Generating Account and Benefitting Accounts and their respective Eligible Energy Credit Allocation

Appendix B – Owner Affidavit Warranting That NEM2V Arrangement Is Sized to Load.

Appendix C- Generator Interconnection Point Documentation
Interconnection Agreement For Net Energy Metering For A Renewable Electrical Generation Facility Of 1,000 Kilowatts Or Less
(Form 79-1137-02)

Appendix A – Description Of Generating Facility And Single-Line Diagram (Provided by Customer-Generator)

Appendix B - Any Rule 2 or Rule 21 Agreements for the Installation or Allocation of Special Facilities (Forms 79-255, 79-280, 79-702) or Agreements to Perform Any Tariff Related Work (62-4527)(Formed between the Parties)

Appendix C – Schedule NEM Customer-Generator Warranty That It Meets The Requirements For An Eligible Customer-Generator And Is An Eligible Renewable Electrical Generator Facility Pursuant To Section 2827 Of The California Public Utilities Code

NEM2V
greater than
1 MW

(Form 79-1174-02)
Rule 21 Generator Interconnection Agreement for New Energy Metering (NEM-2) Generating Facilities Greater than 1,000 Kilowatts Interconnecting Under the Fast Track Process

(Form 79-1161-02)*
Rule 21 Generator Interconnection Agreement (GIA) for Net Energy Metering (NEM2) Generating Facilities Greater than 1,000 Kilowatts Interconnecting Under the Independent Study, Distribution Study, or Transmission Cluster Process

(T)

Customers on this tariff must pay for the interconnection of their systems. Customers eligible for single-family affordable solar housing (SASH) who interconnect under this tariff do not have pay any charge for

* Also see Rule 21 Section B.1 Applicability regarding NEM-2 projects greater than 1 MW interconnecting on Transmission.

(N)
(N)

(Continued)



ELECTRIC SCHEDULE NEM2V
VIRTUAL NET ENERGY METERING SERVICE

Sheet 22

SPECIAL
CONDITIONS:
(Cont'd.)

6. NEM2V Storage

a. Definition of NEM2V Storage

NEM2V Storage is defined as an arrangement where a NEM2V REGF including a storage device is located behind the same meter on the generating account under a configuration that prevents the storage device from charging from another source other than the co-located NEM2V REGF generator (i.e. the storage cannot be charged from grid power). This can be accomplished with a physical, non-import relay—or a functionally equivalent non-import configuration as outlined in the PG&E Distribution Generation Interconnection Handbook—to prevent grid power from flowing toward the battery.

If the NEM2V Storage device has found to be charging from the grid, then this arrangement shall no longer be eligible for this tariff.

b. Interconnection Cost

Customers interconnecting storage shall be responsible for all applicable charges in Electric Rule 21*.

(T)

c. Storage Size Dependent Requirements

Requirements may differ depending on the size of the NEM2V Storage. The storage device size is determined by the inverter alternating current nameplate rating.

7. Natural or Man-Made Disasters

NEM2V Transition Eligible Customers impacted by a Natural or Man-Made disaster⁸ may request to resume service on this tariff from (i) the date of the issuance of their original pre-natural-or-man-made disaster “permission to operate” (PTO) letter until (ii) the date of the customer’s first Energy True Up in the twenty first (21st) year.

An Impacted Owner must:

- (i) reapply for interconnection with a replacement system(s) sized to generate no more than the 12 months of historic, or estimated usage (kWh), where the new NEM2V Arrangement is located on the same integral parcel as the original NEM2V Arrangement, and
- (ii) when reapplying for interconnection, submit proof of destruction of the renewable generator(s), if requested by PG&E.

* See Rule 21 Section B.1 Applicability regarding NEM-2 projects greater than 1 MW interconnecting on Transmission.

(N)
(N)

⁸ Natural or man-made disasters includes such events as a fire, earthquake, flood, or severe storms.

(Continued)



ELECTRIC SCHEDULE NEM2VMSH
VIRTUAL NET ENERGY METERING FOR MULTIFAMILY
AFFORDABLE HOUSING (MASH/NSHP) WITH SOLAR GENERATOR(S)

Sheet 1

APPLICABILITY: This virtual net energy-metering schedule is applicable to Customers, who operate (a) solar generator(s) in parallel with PG&E's electric system, all on the same Premises¹ for:

- a. an existing building or buildings are or would have been qualified for PG&E's California Solar Initiative (CSI) Multifamily Affordable Solar Housing (MASH) Program, or
- b. new, "Affordable Housing" consisting of one or more buildings that are or would have been qualified for the New Solar Homes Partnership (NSHP) Program in PG&E's service territory, or
- c. an existing building or buildings that are or would have been qualified for the State of California's Low-Income Weatherization Program (LIWP) Program,

Customers on this Schedule NEM2VMSH will be covered under the Special Condition titled *NEM2 Legacy Provisions*, in Schedule NEM2. Customers meeting those conditions are referred to as "NEM2VMSH Transition Eligible Customers".

An NEM2VMSH Eligible Generating Facility interconnecting at one PCC greater than one megawatt (MW) seeking interconnection under this Rate Schedule with PG&E's transmission system is subject to Section B.1 Applicability in Electric Tariff Rule 21. This requirement is not applicable to NEM2VMSH Eligible Generating Facility with Permission to Operate letters received as of May 6, 2022, or proposed NEM2VMSH Eligible Generating Facility with materially complete interconnection applications submitted as of May 6, 2022.

(N)
|
(N)

¹ Customers may elect to serve Accounts located at multiple Customer Service Delivery Points within their "Eligible Low Income Development" so as to fully utilize their solar generator(s) also sited within their "Eligible Low Income Development."

(Continued)

<i>Advice</i>	6682-E	<i>Issued by</i>	<i>Submitted</i>	<u>August 17, 2022</u>
<i>Decision</i>	D.22-07-001	Meredith Allen	<i>Effective</i>	_____
		<i>Vice President, Regulatory Affairs</i>	<i>Resolution</i>	_____



ELECTRIC SCHEDULE NEM2VMSH
VIRTUAL NET ENERGY METERING FOR MULTIFAMILY
AFFORDABLE HOUSING (MASH/NSHP) WITH SOLAR GENERATOR(S)

Sheet 4

APPLICABILITY: **Owner Obligations** – The Owner must:
(Cont'd.)

- a. comply with all applicable safety and performance standards as delineated in PG&E's Electric Rule 21* and other applicable tariffs, safety and performance standards established by the National Electrical Code, the Institute of Electrical and Electronics Engineers, and accredited testing laboratories such as Underwriters Laboratories and, where applicable, rules of the California Public Utilities Commission regarding safety and reliability. The Owner is solely responsible for the ongoing maintenance and operation of the Solar Generating Facility; (T)
- b. in order to promote the safety and reliability of the customer Generating Facility, the applicant is required to verify as a part of each interconnection request for this tariff, that all major solar system components are on the verified equipment list maintained by the California Energy Commission and other equipment, as determined by PG&E, should be verified by the customer as having safety certification from a nationally recognized testing laboratory.
- c. Owner is required to verify as a part of each interconnection request for this tariff, that (i) a warranty of at least 10 years has been provided on all equipment and on its installation, or (ii) have a 10-year service warranty or executed "agreement" ensuring proper maintenance and continued system performance.
- d. keep in force the amount of property, commercial general liability and/or personal liability insurance the Owner has in place at the time they initiate service on this tariff;
- e. agree that PG&E may from time to time release to the California Energy Commission and/or the California Public Utilities Commission, information regarding the Eligible Low Income Facility, including the Owner's name, and Solar Generating Facility location, capacity and operational characteristics, and Customer names at the Residential Unit Accounts; AND
- f. agree to comply with all applicable rules and requirements of PG&E's Net Energy Metering tariffs.

Modifications to Solar Generating Facility – If the Eligible Low Income Facility's Solar Generating Facility has not been previously approved for interconnection by PG&E, or where any modification to the previously approved Solar Generating Facility has been made, the Owner must complete the interconnection process in Special Condition 3 of this tariff.

Change in Owner – A change in the Owner responsible for the Eligible Low Income Facility ("Change of Owner"), where no modification to the Solar Generating Facility has been made, does not need to complete the interconnection process in Special Condition 3, as long as the requirements of this section are met.

* See Rule 21 Section B.1 Applicability regarding NEM-2 projects greater than 1 MW interconnecting on Transmission. (N)
(N)

(Continued)



ELECTRIC SCHEDULE NEM2VMSH
VIRTUAL NET ENERGY METERING FOR MULTIFAMILY
AFFORDABLE HOUSING (MASH/NSHP) WITH SOLAR GENERATOR(S)

Sheet 6

RATES (CON'T): PG&E rates and rate design, including the rates and rate design reflected in this Tariff, are subject to change from time to time. Customers should take this into consideration when making any long term decisions based on rate structures that are currently in place.

SPECIAL CONDITIONS: 1. **METERING:** NEM2VMSH net energy metering shall be accomplished at:

a. The Generator Account(s)* where the Solar Generating Facilities are located, using either: (T)

1) a PG&E interval meter (capable of recording solar energy system output in up to fifteen minute increments), if required by PG&E to allocate the Solar Energy Credit based on the OAS of the Customer Load Accounts in an Eligible Low Income Facility. The Owner shall be responsible for, and shall bear all costs associated with PG&E providing and installing an interval meter for each Generator Account. The cost of the Owner's interval meter installation will be determined by PG&E and will vary on a site specific basis.

If the Generator Account is on DA service and the Owner uses a third-party Meter Data Management Agent (MDMA), the Owner will be responsible for any and all costs associated with providing PG&E acceptable interval data into the PG&E system on a timely basis.

2) a PG&E "TOU" (TOU) meter, if based on review of the Customer Load Accounts' OASs PG&E is able to allocate the Solar Energy Credits. This option will only be available until any Customer Load Account OAS change necessitates that the Owner provide an interval meter per (i) in order to properly allocate Solar Energy Credits. The Owner shall be responsible for, and shall bear all costs associated with, PG&E providing and installing a TOU meter for the Generator Account (or upgrading to an interval meter if required in the future). For the TOU option, the Owner may choose charges based on either a one-time, up-front fee or as a monthly meter charge. Prices are as follows:

TOU Meter Option	One Time Upfront Fee	Monthly Meter Charge
Single Phase	\$755.00	Based on the OAS monthly meter charge
Three Phase	\$890.00	Based on the OAS monthly meter charge

*There may be additional metering requirements under Rule 21 Section B.1 Applicability regarding a net energy metering NEM-2 Generating Facility greater than 1 MW interconnecting on Transmission at one PCC.

(N)
|
(N)

(Continued)



ELECTRIC SCHEDULE NEM2VMSH
VIRTUAL NET ENERGY METERING FOR MULTIFAMILY
AFFORDABLE HOUSING (MASH/NSHP) WITH SOLAR GENERATOR(S)

Sheet 15

SPECIAL
CONDITIONS:
(Cont'd.)

3. INTERCONNECTION:

In order to receive approval for Parallel Operation of the Solar Generating Facilities, including NEM2VMSH Storage per Special Condition 5 (if applicable), or to resume service after being impacted by a Natural or Man-Made Disaster per Special Condition 6, the Owner must submit a completed PG&E application form and interconnection agreement* as follows:

(T)

Facility Type	Application	Interconnection Agreement
For an Eligible Low Income Facility with one Single Point of Delivery	<i>Online Rule 21 Generator Interconnection Application (Form 79-1174-02)</i>	<i>NEM2VMSH Virtual Net Energy Metering Application and Interconnection Agreement for the Building Owner of Multifamily Affordable Housing with a Solar Generating Facility of 1 Megawatt or Less (Form 79-1109-02)</i> <i>Appendix A – Designation of Multifamily Common Area Accounts, Residential Units and Their Respective Solar Energy Credit Allocation</i>
For an Eligible Low Income Facility with Multiple Service Delivery Points and/or Multiple Generators	<i>Online Rule 21 Generator Interconnection Application (79-1174-02)</i>	<i>Eligible Low Income Development Virtual Net Energy Metering (NEM2VMSH) Application and Interconnection Agreement for Multifamily Affordable Housing with Solar Generation Totalling 1 Megawatt or Less (Form 79-1124-02)</i> <i>Appendix A – Designation of Multifamily Common Area Accounts, Residential Units and Their Respective Solar Energy Credit Allocation</i> <i>Appendix B – Designation of Multifamily Common Area Accounts, Residential Units and Their Respective Solar Energy Credit Allocation</i>

Customers on this tariff must pay for the interconnection of their REGF as provided in Electric Rule 21, including an application fee. This application fee must be paid through PG&E's online application portal in order to complete the application, unless otherwise directed by PG&E. For application costs associated with systems impacted by a Natural or Man-Made Disaster, see Special Condition 6.

* See Rule 21 Section B.1 Applicability regarding NEM-2 projects greater than 1 MW interconnecting on Transmission.

(N)
(N)

(Continued)



ELECTRIC SCHEDULE NEM2VMSH
VIRTUAL NET ENERGY METERING FOR MULTIFAMILY
AFFORDABLE HOUSING (MASH/NSHP) WITH SOLAR GENERATOR(S)

Sheet 19

SPECIAL
CONDITIONS:
(Cont'd.)

5. NEM2VMSH Storage

a. Definition of NEM2VMSH Storage

NEM2VMSH Storage is defined as an arrangement where a NEM2VMSH REGF including a storage device is located behind the same meter on the generating account under a configuration that prevents the storage device from charging from another source other than the co-located NEM2VMSH REGF generator (i.e. the storage cannot be charged from grid power). This can be accomplished with a physical, non-import relay—or a functionally equivalent non-import configuration as outlined in the PG&E Distribution Generation Interconnection Handbook—to prevent grid power from flowing toward the battery.

b. Interconnection Cost

Customers interconnecting storage shall be responsible for all applicable charges in Electric Rule 21*.

(T)

c. Storage Size Dependent Requirements

Requirements may differ depending on the size of the NEM2VMSH Storage. The storage device size is determined by the inverter alternating current nameplate rating.

6. Natural or Man-Made Disasters

NEM2VMSH Transition Eligible Customers impacted by a Natural or Man-Made disaster⁶ may request to resume service on this tariff from (i) the date of the issuance of their original pre-natural-or-man-made disaster “permission to operate” (PTO) letter until (ii) the date of the customer’s first Energy True Up in the twenty first (21st) year.

An Impacted Owner must:

- (i) be in accordance with incentive program rules in effect at the time of submitting the interconnection application,
- (ii) reapply for interconnection with a replacement system(s) sized to generate no more than the 12 months of historic, or estimated usage (kWh), where the new NEM2VMSH Arrangement is located on the same parcel(s) as the original NEM2VMSH Arrangement, and
- (iii) when reapplying for interconnection, submit proof of destruction of the renewable generator(s), if requested by PG&E.

* See Rule 21 Section B.1 Applicability regarding NEM-2 projects greater than 1 MW interconnecting on Transmission.

(N)
(N)

⁶ Natural or man-made disasters includes such events as a fire, earthquake, flood, or severe storms.

(Continued)



ELECTRIC SCHEDULE NEM2VSOM
VIRTUAL NET ENERGY METERING SOLAR ON MULTIFAMILY
AFFORDABLE HOUSING (SOMAH) PROPERTIES

Sheet 1

APPLICABILITY: This virtual net energy-metering schedule is applicable to Customers, who operates one or more solar generators¹ (“Eligible Solar Generating Facility”, “ESGF”) in parallel with PG&E’s electric system, all on the same Eligible Low Income Development (as defined below) where the existing building or buildings receives incentives under the Solar on Multifamily Affordable Housing (SOMAH) program.²

An “Eligible Low Income Development” is defined as all of the real property and apparatus employed in a single low income housing enterprise on contiguous parcels of land. These parcels may be divided by a dedicated street, highway or public thoroughfare or railway, so long as they are otherwise contiguous and part of the same single low income housing enterprise, and all under the same ownership.

Customers on this Schedule NEM2VSOM will be covered under Special Condition 9, *NEM2 Legacy Provisions*, in Schedule NEM2.

Certain incremental billing and metering costs set forth in this schedule that are related to net energy metering are applicable to Electric Service Providers (ESPs) and Community Choice Aggregators (CCA’s) serving a Customer with a Load Account (as defined below in the Applicability, Account Types section).

This service is not applicable to a Direct Access (DA) Customer with a Load Account, where the Customer’s ESP does not offer a net energy metering tariff. In addition, if the Customer participates in direct transactions with an ESP that does not provide distribution service for the direct transactions, the ESP, and not PG&E, is obligated to provide virtual net energy metering for multifamily affordable housing to the Customer.

An ESGF interconnecting at one PCC greater than one megawatt (MW) seeking interconnection under this Rate Schedule with PG&E’s transmission system is subject to Section B.1 Applicability in Electric Tariff Rule 21. This requirement is not applicable to ESGF with Permission to Operate letters received as of May 6, 2022, or proposed ESGF with materially complete interconnection applications submitted as of May 6, 2022.

(N)
|
(N)

¹ Consistent with Decision (D.) 14-05-033, as modified by D.16-01-044. NEM paired storage may be interconnected under this tariff, subject to the metering and sizing requirements specified in D.14-05-33. For a Solar Generating Facilities with storage (NEM2VSOM Storage), please see Special Condition 5.
² Pursuant to CPUC Decision 17-12-022, “the new SOMAH program will provide incentives for the installation of solar distributed generation projects sited on existing multifamily affordable housing. In doing so, the SOMAH program will ensure that the benefits of such solar generation systems, especially the bill credits customers can receive with net-metered on-site solar generation, accrue primarily to the tenants of participating properties.”

(Continued)

<i>Advice</i>	6682-E	<i>Issued by</i>	<i>Submitted</i>	August 17, 2022
<i>Decision</i>	D.22-07-001	Meredith Allen	<i>Effective</i>	
		<i>Vice President, Regulatory Affairs</i>	<i>Resolution</i>	



ELECTRIC SCHEDULE NEM2VSOM
VIRTUAL NET ENERGY METERING SOLAR ON MULTIFAMILY
AFFORDABLE HOUSING (SOMAH) PROPERTIES

Sheet 3

APPLICABILITY: **Owner Obligations** – The Owner must:
(Cont'd.)

- a. comply with all applicable safety and performance standards as delineated in PG&E's Electric Rule 21* and other applicable tariffs, safety and performance standards established by the National Electrical Code, the Institute of Electrical and Electronics Engineers, and accredited testing laboratories such as Underwriters Laboratories and, where applicable, rules of the California Public Utilities Commission regarding safety and reliability. The Owner is solely responsible for the ongoing maintenance and operation of the ESGF; (T)
- b. in order to promote the safety and reliability of the customer ESGF, the applicant is required to verify as a part of each interconnection request for this tariff, that all major ESGF components are on the verified equipment list maintained by the California Energy Commission and other equipment, as determined by PG&E, should be verified by the customer as having safety certification from a nationally recognized testing laboratory.
- c. Owner is required to verify as a part of each interconnection request for this tariff, that:
 - (i) a warranty of at least 10 years has been provided on all equipment and on its installation, or
 - (ii) have a 10-year service warranty or executed "agreement" ensuring proper maintenance and continued system performance.
- d. keep in force the amount of property, commercial general liability and/or personal liability insurance the Owner has in place at the time they initiate service on this tariff;
- e. agree that PG&E may from time to time release to the California Energy Commission and/or the California Public Utilities Commission, information regarding the Eligible Low Income Development, including the Owner's name, and ESGF location, capacity and operational characteristics, and Customer names at the Residential Unit Accounts; AND
- f. agree to comply with all applicable rules and requirements of PG&E's Net Energy Metering tariffs.

Modifications to Eligible Solar Generating Facility (ESGF) – If the Eligible Low Income Development's ESGF has not been previously approved for interconnection by PG&E, or where any modification to the previously approved ESGF has been made, the Owner must complete the interconnection process in Special Condition 3 of this tariff.

Change in Owner – A change in the Owner responsible for the Eligible Low Income Development ("Change of Owner"), where no modification to the ESGF has been made, does not need to complete the interconnection process in Special Condition 3, as long as the requirements of this section are met.

* See Rule 21 Section B.1 Applicability regarding NEM-2 projects greater than 1 MW interconnecting on Transmission. (N)
(N)

(Continued)



ELECTRIC SCHEDULE NEM2VSOM
VIRTUAL NET ENERGY METERING SOLAR ON MULTIFAMILY
AFFORDABLE HOUSING (SOMAH) PROPERTIES

Sheet 14

SPECIAL
CONDITIONS:
(Cont'd.)

3. INTERCONNECTION:

In order to receive approval for Parallel Operation of the Solar Generating Facilities, the Owner must submit a completed PG&E application form and interconnection agreement as follows:

Facility Type	Application	Interconnection Agreement
For an Eligible Low Income Development with Multiple Service Delivery Points and/or Multiple Generators	<i>Online Rule 21 Generator Interconnection Application (Form 79-1174-02)</i>	<i>Eligible Low-Income Development Virtual Net Energy Metering (Nem2vsom) Interconnection Agreement For The Solar On Multifamily Affordable Housing (SOMAH) Program With Solar Generation Totaling 1 Mw Or Less (Form 79-1206-02)</i>
		<i>Appendix A – Description Of Generating Facility And Single-Line Diagram (Provided by Customer-Generator)</i>
		<i>Appendix B (If Applicable) – Any Rule 2 or Rule 21 Agreements for the Installation or Allocation of Special Facilities (Forms 79-255, 79-280, 79-702) or Agreements to Perform Any Tariff Related Work (62-4527) (Formed between the Parties)</i>
		<i>Appendix C (If Applicable) – NEMV, NEM2V, NEMVMASH, NEM2VMSH Or NEM2VSOM Storage Applicants Adding Storage Pursuant To Schedules NEMV, NEM2V, NEMVMASH, NEM2VMSH Or NEM2VSOM Under The Special Condition For Storage Must Include Proper Documentation Per PG&E's Distribution Interconnection Handbook (DIH).</i>

Customers on this tariff must pay for the interconnection of their REGF as provided in Electric Rule 21*, including an application fee. This application fee must be paid through PG&E's online application portal in order to complete the application, unless otherwise directed by PG&E. (T)

For the purposes of the NEM2VSOMMSH tariff, the rating of the generating facility, for the purposes of comparing its size relative to the 1 megawatt (MW) limit, will be as described in the NEM2 tariff.

* See Rule 21 Section B.1 Applicability regarding NEM-2 projects greater than 1 MW interconnecting on Transmission. (N)
(N)

(Continued)



ELECTRIC SCHEDULE NEM2VSOM
VIRTUAL NET ENERGY METERING SOLAR ON MULTIFAMILY
AFFORDABLE HOUSING (SOMAH) PROPERTIES

Sheet 18

SPECIAL
CONDITIONS:
(Cont'd.)

5. NEM2VSOM STORAGE:

a. Definition of NEM2VSOM Storage

NEM2VSOM Storage is defined as an arrangement where a NEM2VSOM REGF including a storage device is located behind the same meter on the generating account under a configuration that prevents the storage device from charging from another source other than the co-located NEM2VSOM REGF generator (i.e. the storage cannot be charged from grid power). This can be accomplished with a physical, non-import relay—or a functionally equivalent non-import configuration as outlined in the PG&E Distribution Generation Interconnection Handbook—to prevent grid power from flowing toward the battery.

b. Interconnection Cost

Customers interconnecting storage shall be responsible for all applicable charges in Electric Rule 21*.

(T)

c. Storage Size Dependent Requirements

Requirements may differ depending on the size of the NEM2VSOM Storage. The storage device size is determined by the inverter alternating current nameplate rating.

*See Rule 21 Section B.1 Applicability regarding NEM-2 projects greater than 1 MW interconnecting on Transmission.

(N)
(N)



ELECTRIC RULE NO. 21
GENERATING FACILITY INTERCONNECTIONS

Sheet 15

B. APPLICABILITY

1. APPLICABILITY

This Rule describes the Interconnection, operating and Metering requirements for those Generating Facilities to be connected to Distribution Provider's Distribution System and Transmission System over which the California Public Utilities Commission (Commission) has jurisdiction. All Generating Facilities seeking Interconnection with Distribution Provider's Transmission System* shall apply to the California Independent System Operator (CAISO) for Interconnection and be subject to CAISO Tariff except for i) Net Energy Metering Generating Facilities less than or equal to one megawatt** and ii) Generating Facilities that do not export to the grid or sell any exports sent to the grid (Non-Export Generating Facilities). Non-Export Generating Facilities subject to Commission jurisdiction shall interconnect under this Rule regardless of whether they interconnect to Distribution Provider's Distribution or Transmission System. Subject to the requirements of this Rule, Distribution Provider will allow the Interconnection of Generating Facilities with its Distribution or Transmission System.

(T)
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(T)

Generating Facility interconnections to Distribution Provider's Distribution System that are subject to Federal Energy Regulatory Commission (FERC) jurisdiction shall apply under Distribution Provider's Wholesale Distribution Tariff (WDT) whether they interconnect to Distribution Provider's Distribution or Transmission System.

2. DEFINITIONS

Capitalized terms used in this Rule, and not defined in Distribution Provider's other tariffs shall have the meaning ascribed to such terms in Section C of this Rule. The definitions set forth in Section C of this Rule shall only apply to this Rule, the Interconnection Request, study agreements and Generator Interconnection Agreements, and may not apply to Distribution Provider's other tariffs.

* This may also include a Transmission System (Non-CAISO Controlled). If so, they shall apply for Interconnection using the Wholesale Distribution Tariff- WDT (the WDT applies to both transmission and distribution interconnections, despite its name).
** This is not applicable Net Energy Metering Generating Facilities with Permission to Operate letters received as of May 6, 2022, or proposed Net Energy Metering Generating Facilities with materially complete interconnection applications submitted as of May 6, 2022.

(N)
|
(N)

(Continued)



ELECTRIC RULE NO. 21
GENERATING FACILITY INTERCONNECTIONS

Sheet 33

C. DEFINITIONS (Cont'd.)

Spot Network: For purposes of this Rule, a Spot Network is a type of distribution system found within modern commercial buildings to provide high reliability of service to a single customer.

Starting Voltage Drop: The percentage voltage drop at a specified point resulting from In-rush Current. The Starting Voltage Drop can also be expressed in volts on a particular base voltage, (e.g. 6 volts on a 120-volt base, yielding a 5% drop).

Supplemental Review: See Section F.2.c.

System Integrity: The condition under which Distribution Provider's Distribution and Transmission System is deemed safe and can reliably perform its intended functions in accordance with the safety and reliability rules of Distribution Provider.

Telemetry: The electrical or electronic transmittal of Metering data on a real-time basis to Distribution Provider.

Total Capacity: Capacity (in MW) of substation/area bus, bank or circuit based on normal or operating ratings.

Transfer Trip: A Protective Function that trips a Generating Facility remotely by means of an automated communications link controlled by Distribution Provider.

Transient/Dynamic Stability: The ability of an electrical system to withstand disturbances. Transient/Dynamic Stability studies are performed to ensure power system stability and are time-based simulations that assess the performance of the power system during and shortly following system disturbances.

Transmission Cluster Study Process: The cluster study process as defined in Distribution Provider's Wholesale Distribution Tariff.

Transmission System: Transmission facilities owned by Distribution Provider that have been placed under the CAISO's operational control and are part of the CAISO Controlled Grid, as defined in the CAISO Tariff.

Transmission System (Non-CAISO Controlled): Those non-ISO transmission voltage facilities (as defined in Electric Rule 2 Table B.1) owned, controlled, and operated by PG&E that are used to provide Distribution Service under these tariffs.

(N)
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(N)

(Continued)



ELECTRIC RULE NO. 21
GENERATING FACILITY INTERCONNECTIONS

Sheet 41

D. GENERAL, RULES, RIGHTS AND OBLIGATIONS (Cont'd.)

11. COORDINATION WITH AFFECTED SYSTEMS

Distribution Provider will notify the Affected System Operators that are potentially affected by an Applicant's Interconnection Request or group of Interconnection Requests. Distribution Provider will coordinate the conduct of any studies required to determine the impact of the Interconnection Request on Affected Systems with Affected System Operators and, if possible, include those results (if available) in its applicable Interconnection Study within the time frame specified in this Rule. Distribution Provider will include such Affected System Operators in all meetings held with Applicant as required by this Rule. Applicant will cooperate with Distribution Provider in all matters related to the conduct of studies and the determination of modifications to Affected Systems. A transmission provider which may be an Affected System shall cooperate with Distribution Provider with whom interconnection has been requested in all matters related to the conduct of studies and the determination of modifications to Affected Systems. Applicant shall enter into an agreement with the owner of the Affected System, as applicable. The agreement shall specify the terms governing payments to be made by Applicant to the owner of the Affected System as well as the repayment, if applicable, by the owner of the Affected System.

12. TRANSFERABILITY OF INTERCONNECTION REQUEST

An Applicant may transfer its Interconnection Request to another entity only if such entity acquires the proposed Generating Facility identified in the Interconnection Request and the Point of Interconnection does not change.

13. SPECIAL PROVISIONS APPLICABLE TO CERTAIN NET ENERGY METERED APPLICANTS

Notwithstanding any other provision in this Rule:

- a. For NEM Generating Facilities with a capacity of 1 MW or smaller Distribution Provider may proceed from Initial to Supplemental Review to Independent Study Process to further study without waiting for Applicant concurrence, since Applicant is not responsible for payment of study costs. (L)

For NEM-2 Generating Facilities with a capacity greater than a megawatt interconnecting on transmission see Section B.1 – Applicability. (N)
|
(N)

(Continued)



ELECTRIC RULE NO. 21
GENERATING FACILITY INTERCONNECTIONS

Sheet 42

D. GENERAL, RULES, RIGHTS AND OBLIGATIONS (Cont'd.)

13. SPECIAL PROVISIONS APPLICABLE TO NET ENERGY METERED APPLICANTS (Cont'd.)

- a. Otherwise, except as provided in Section D.13.e below, for NEM-2 Generating Facilities with a capacity greater than 1 MW, the special provisions contained within Section D.13 and other exemptions applicable to NEM Applicants contained within this Rule do not apply. Instead, all provisions applicable to non-NEM Interconnection Requests shall apply, including but not limited to the requirement to pay all Interconnection Request fees, study costs and upgrade costs, and the adherence to all non-NEM timeline and interconnection provisions contained within Rule 21. (T)/(L)
(L)
(L)
- b. For NEM-1 and NEM-2 Generating Facilities with a capacity of 1 MW or smaller, Distribution Provider approval for Interconnection (i.e., Permission to Operate) shall normally be processed not later than thirty (30) Business Days following Distribution Provider's receipt of 1) a completed Net Energy Metering Interconnection Request including all supporting documents and required payments; 2) a completed signed Net Energy Metering Generator Interconnection Agreement; and 3) evidence of Applicant's final electric inspection clearance from the Governmental Authority having jurisdiction over the Generating Facility. If the 30-day period cannot be met, Distribution Provider shall notify Applicant and the Commission of the reason for the inability to process the Interconnection Request and the expected completion date. However, Applicants that include non-inverter based Generators and/or Generators with non-Certified Equipment and/or Interconnection Requests that are anticipated to require new services (i.e., NEM load aggregation) and/or the design and construction of Interconnection Facilities or Distribution Upgrades should plan to submit a completed Net Energy Metering Interconnection Request including all supporting documents sufficient for Distribution Provider to start the review process in Section F.2.a without waiting for the final inspection clearance. Applicants with such Generating Facilities are advised to submit their Interconnection Request at least six (6) months in advance of their planned Commercial Operation Date. Depending on the size and location of these Generating Facilities, additional time for review may be required and could include Supplemental Review an Interconnection System Impact Study, and an Interconnection Facilities Study as set out in Section F. The advance submission of the Interconnection Request will better accommodate Distribution Provider's review and studies in a manner consistent with the timelines established in this Rule that may be required to complete the processing for these types of Interconnection Requests.

(Continued)



ELECTRIC RULE NO. 21
GENERATING FACILITY INTERCONNECTIONS

Sheet 44

D. GENERAL, RULES, RIGHTS AND OBLIGATIONS (Cont'd.)

13. SPECIAL PROVISIONS APPLICABLE TO NET ENERGY METERED APPLICANTS (Cont'd.)

e. For the purposes of establishing the interconnection requirements for Net Energy Metering Generating Facilities with a capacity greater than one megawatt (1MW)* qualifying for service under PUC Section 2827(b)(4)(B) (i.e., the California Department of Corrections and Rehabilitation or CDCR), Distribution Provider shall be afforded a prudent but necessary time, as determined by the executive director of the Commission, to study the impacts of the Interconnection Request. If the study reveals the need for upgrades to the Transmission and/or Distribution System arising solely from the Interconnection Request, Distribution Provider shall be afforded the time necessary to complete those upgrades before the Generating Facility is interconnected. The costs of the Network and/or Distribution Upgrades shall be borne by the Applicant, but the exemption from application fees and study costs applicable to Generating Facilities eligible for Net Energy Metering under PUC Section 2827 shall apply. Distribution Provider shall consider the receipt date of the completed Interconnection Request when completing the study allowed for herein and for purposes of determining the appropriate cost responsibility for the necessary Network and/or Distribution Upgrades triggered solely by the Interconnection Request. All Generating Facilities interconnected pursuant to this section shall comply with applicable state and federal requirements, including requirements of the FERC.

For CDCR Rate Schedule NEM interconnections of Generating Facilities with a capacity greater than 1 MW, the CDCR shall comply with all FERC interconnection procedures and requirements for any Generating Facility that interconnects directly to the Transmission System or that requires upgrades to the Transmission System, and the CDCR shall be responsible for any application fees and study costs triggered by the NEM-2 Interconnection Request.**

* If the generating facility is greater than 1 megawatt and interconnecting on transmission, see Applicability Section B.1. (N)
 ** If the CDCR generating facility is greater than 1 megawatt and interconnecting on transmission as NEM-2, also see Applicability Section B.1. (N)

(Continued)



ELECTRIC RULE NO. 21
GENERATING FACILITY INTERCONNECTIONS

Sheet 55

- E. INTERCONNECTION REQUEST SUBMISSION PROCESS (Cont'd.)
 - 2. INTERCONNECTION REQUEST PROCESS (Cont'd.)
 - c. Applicant Completes an Interconnection Request (Cont'd.)

TABLE E.1

Summary of Interconnection Request Fees, Deposits and Exemptions

Generating Facility Type	Interconnection Request Fee	Supplemental Review Fee	Detailed Study Deposit	Additional Commissioning Test Verification	Cost Envelope Option Deposit****	Modifications Fee (Table Ee.1) *****
Non-Net Energy Metering and > 1 MW NEM-2 *****	\$800	\$2,500*	For a Generating Facility with a Gross Nameplate Rating of 5 MW or less and applying to the Independent Study Process, \$10,000 for a System Impact Study or the DGS Phase I Interconnection Study in the case of the Distribution Group Study Process; and \$15,000 for an Interconnection Facilities Study or DGS Phase II Interconnection Study in the case of the Distribution Group Study Process. For a Generating Facility with a Gross Nameplate Rating above 5 MW, \$50,000 plus \$1,000 per MW of electrical output of the Generating Facility, or the increase in electrical output of the existing Generation Facility, as applicable, rounded up to the nearest whole MW, up to a maximum of \$250,000.	\$150/Person Hour**	\$2,500	\$0
≤ 1 MW NEM-2***	\$145	\$0	\$0	N/A	\$2,500	\$0
NEM-1	\$0	\$0	\$0	N/A	\$2,500	n/a
Non-NEM Solar ≤ 1MW*****	First \$5,000 of study fees waived			\$150/Person Hour**	\$2,500	\$0

* Optional \$1,000 additional fault current study fee pursuant to Section F.2.c.ii. Pursuant to D. 20-09-035, Applicants have the option to pre-pay the non-refundable Supplemental Review Fee (such as concurrently with the Interconnection Request fee) or separately upon completion of the Initial Review.

** Plus additional costs for travel, lodging and meals.

*** Applicants that participate in the Single-Family Affordable Solar Homes (SASH) program are exempt from the Interconnection Request fee.

**** Interconnection Requests that have selected the Cost Envelope Option and that subsequently qualify for and pass the Fast Track Process evaluation, as well as NEM Generating Facilities and Solar ≤ 1 MW Generating Facilities evaluated under the Independent Study Process, must provide the Cost Envelope Option deposit in accordance with Section F.7 to remain eligible for the Cost Envelope Option.

***** The fee will be set to \$0 for now, until PG&E submits a new Advice Letter to increase it. Note: the fee does not apply to NEM-1 nor NEMFC by statute. SASH is also exempt from this fee per D. 16-01-044.

*****Solar ≤ 1MW that does not sell power to Distribution Provider (per D.01-07-027) nor participate in NEM-1 or NEM-2.

*****see Section B.1 *Applicability* regarding NEM-2 projects greater than 1 MW interconnecting on Transmission.

(Continued)

(P)
(P)
(T)
(N)



ELECTRIC RULE NO. 21
GENERATING FACILITY INTERCONNECTIONS

Sheet 65

E. INTERCONNECTION REQUEST SUBMISSION PROCESS (Cont'd.)

4. INTERCONNECTION COST RESPONSIBILITY (Cont'd.)

f. Summary Tables

Table E.2 summarizes cost responsibility for costs and fees that may arise in the course of the interconnection process for NEM and non-NEM Applicants. Table E.3 summarizes cost responsibility for costs and fees that may arise in the course of the interconnection process for NEM Applicants under various sequences of interconnecting NEM and non-NEM Generators on the same PCC interconnecting to the Distribution or Transmission System.

Table E.2 Summary of Producer Cost Responsibility

Generating Facility Type	Interconnection Request Fee		Supplemental Review Fee		Detailed Study Cost (ISP, DGSP, or TCSP)		Interconnection Facilities Cost		Distribution Upgrades Cost		Transmission Network Upgrade Cost (per Applicable CAISO Tariff at signing of IA)	
	YES	NO	YES	NO	YES	NO	YES	NO	YES	NO	YES	NO
Non-NEM and NEM-2 (>1MW)***	X		X		X		X		X		X	
NEM-1		X		X		X	X			X ^a		X ^a
NEM-2 (≤1MW)*	X			X		X ^{**}	X			X		X ^{**}

* Applicants participating in the Single-Family Affordable Solar Homes program are exempt from the Interconnection Request Fee.

** Except as provided in Section F.3.d.

*** see Section B.1 *Applicability* regarding NEM-2 projects greater than 1 MW interconnecting on Transmission.

(T)

(N)

(Continued)



ELECTRIC RULE NO. 21
GENERATING FACILITY INTERCONNECTIONS

Sheet 76

F. REVIEW PROCESS FOR INTERCONNECTION REQUESTS (Cont'd.)

1. OVERVIEW OF THE INTERCONNECTION REVIEW PROCESS (Cont'd.)

c. Detailed Studies

Except as provided in Section B.1 *Applicability* regarding NEM-2 greater than 1 MW on Transmission, Detailed Study will be required for Interconnection Requests that apply directly for Detailed Study, are not eligible for Fast Track evaluation, or do not pass Fast Track evaluation. Detailed Study shall consist of one of three study processes: (i) Independent Study Process; (ii) Distribution Group Study Process; or (iii) WDT Transmission Cluster Study Process. The specific study process that is applied will depend on the results of Screens Q and R in Section G.3. Interconnection Requests that are found to be electrically interdependent with earlier-queued interconnection requests with impacts on the Transmission System, and thereby fail screen Q, will proceed to the WDT Transmission Cluster Study Process. Interconnection Requests that are not electrically interdependent with earlier-queued interconnection requests with impacts on the Transmission System, and thereby pass Screen Q, will be studied under either the Independent Study Process or the Distribution Group Study Process, depending on the results of Screen R.

(T)
(T)

d. Compliance with Timelines

Distribution Provider shall use Reasonable Efforts in meeting all the timelines set out in this Rule, or mutually modified by Distribution Provider and Applicant pursuant to Section D.16. Each Distribution Provider shall designate an ombudsman with authority to resolve disputes over missed timelines. The identity, role, and contact information of the ombudsman shall be available on Distribution Provider's website.

If at any time an Applicant is dissatisfied with the Reasonable Efforts of Distribution Provider to meet the timelines in this Section, Applicant may use the following procedures:

(Continued)



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Advice 6682-E
Decision D.22-07-001

Issued by
Meredith Allen
Vice President, Regulatory Affairs

Submitted
Effective
Resolution

August 17, 2022



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Sheet 6

Table with columns: SCHEDULE, TITLE OF SHEET, and CAL P.U.C. SHEET NO. Includes sub-sections for Rate Schedules and Other. Lists various services like BEV, S, SB, E-BioMAT, etc. with their corresponding sheet numbers.

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(Continued)

Advice 6682-E
August 17, 2022

Attachment 2

Redline Tariff Revisions

For convenience of the reader, PG&E has included redline revisions in Attachment 2. Redline revisions are included for Electric Schedules NEM2, NEM2V, NEM2VMSH, and NEM2VSOM, and Electric Rule 21.



**ELECTRIC SCHEDULE NEM2
NET ENERGY METERING SERVICE**

Sheet 3

APPLICABILITY:
(Cont'd.)

Due to the complexity of Load Aggregation Arrangements and/or Multiple Tariff Facilities NEM2 generating facilities interconnecting under the provisions of Special Conditions 4 and 6 may require additional review and/or interconnection facilities and other equipment, and may incur interconnection costs, as provided for in electric Rule 21*.

(L)
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(L)

All Customers with Renewable Electrical Generation Facilities larger than 1 MW are subject to interconnection, Network and/or Distribution upgrade costs in accordance with Rule 21*.

(T)

All Customers must:

(T)

- 1) ensure that the generating facility is compliant with all applicable safety and performance standards as delineated in PG&E's Electric Rule 21 and other applicable tariffs*.
- 2) understand that PG&E may from time to time release to the California Energy Commission and/or the California Public Utilities Commission, information regarding the Customer's facility, including Customer's name and REGF location, capacity and operational characteristics. Furthermore, as a condition of receiving service under this tariff, pursuant to CPUC Decisions 14-11-001 and 21-06-026, PG&E is required to provide certain data, including, but not limited to, confidential customer information, to the CPUC, its contractors, the California Department of Consumer Affairs Contractors State License Board, and the California Department of Financial Protection & Innovation. Customer authorizes PG&E to release any and all information provided in the Net Energy Metering Application for interconnection to the entities identified above without further notification or consent.

(T)

Change of Party for 30 kW or less: A Customer who owns, rents or leases a premises that includes solar and/or wind turbine electrical generating facilities, or a hybrid of both with a capacity of 30 kW or less, that was approved by PG&E for NEM2 interconnection prior to the Customer moving in and/or taking electric service with PG&E (Change of party Customer) will take service on this tariff (or other appropriate tariffs as determined by the Commission) as long as the requirements of the section above (regarding tariff compliance and release of information) are met. Any type of REGF other than either a solar and/or wind turbine electrical generating facilities, or a hybrid of both with a capacity of 30 kW or less, may at PG&E's request be required to complete and submit to PG&E a new NEM2MT Interconnection Agreement as indicated in Special Condition 3 and/or Affidavit (Appendix C).

* See Rule 21 Section B.1 Applicability regarding NEM-2 projects greater than 1 MW interconnecting on Transmission.

(N)
(N)

(Continued)



**ELECTRIC SCHEDULE NEM2
NET ENERGY METERING SERVICE**

Sheet 6

SUB-SCHEDULES: Eligible customer-generators will be placed on the appropriate sub-schedule as described below:

1. NEM2S – For Small Customer (as defined in Rule 1) customer-generators taking service with solar and/or wind generating facilities of 30 kilowatts or less.
2. NEM2EXP – For Small Customer (as defined in Rule 1) customer-generators with (i) solar and/or wind generating facilities of 1,000 kilowatts or less, other than facilities of 30 kilowatts or less, or (ii) any other REGF of 1,000 kilowatts or less.
3. NEM2EXPM – For all other commercial, industrial customer-generators, and agricultural customers billed monthly under Special Condition 2.
4. NEM2MT – For customer-generators taking service as a Multiple Tariff Facility under Special Condition 4 of this tariff.
5. NEM2A – For a customer-generator with a Load Aggregation Arrangement pursuant to Special Condition 6 of this tariff.
6. NEM2CDCR – For a CDCR customer-generator pursuant to Special Condition 7.

SPECIAL CONDITIONS:

1. METERING*: Multiple Tariff Facilities will be metered under one of the options described in Special Condition 4. All other net energy metering shall be accomplished using a single meter capable of separately registering the flow of electricity in two directions (imports and exports). If the eligible customer-generator's existing electrical meter is not capable of separately measuring the flow of electricity in two directions, the eligible customer-generator shall be responsible for all expenses involved in purchasing and installing a meter that is able to separately measure electricity flow in two directions (imports and exports). (T)

If none of the normal metering options available at PG&E's disposal which are necessary to render accurate billing are acceptable to the customer-generator, PG&E shall have the right to refuse interconnection. As an alternative, PG&E shall have the option to provide an estimation methodology for such customers.

Customer-generators with Load Aggregation Arrangements will need metering on the Generating Account capable of separately measuring imports and exports in a manner commensurate with the smallest time interval used by PG&E to establish billing determinates for any of the Aggregated Account meters. If a newly installed REGF can use the existing metering, the metering charges will be based on applicable meter charges in the Generating Account TOU OAS; if a new meter is requested by the customer for a new service as allowed in Special Condition 3, it must be installed at the customer's expense as a Special Facility using incremental costs, pursuant to Section I, Electric Rule 2.

*There may be additional metering requirements under Rule 21 Section B.1 Applicability regarding net energy metering NEM-2 projects greater than 1 MW interconnecting on Transmission.

(N)
(N)

(Continued)



**ELECTRIC SCHEDULE NEM2
NET ENERGY METERING SERVICE**

Sheet 13

SPECIAL
CONDITIONS:
(Cont'd.)

3. INTERCONNECTION: Prior to receiving approval for Parallel Operation, the customer-generator must submit a completed PG&E application form and interconnection agreement as follows:

Rate Option	Application	Interconnection Agreement
NEM2S	For Solar and/or Wind Electric Generating Facilities of 30 Kilowatts or Less: <i>Application - Net Energy Metering (NEM2) Interconnection for Solar and/or Wind Electric Generating Facilities of 30 Kilowatts or Less (Form 79-1151B-02)⁴</i>	<i>Agreement and Customer Authorization – Net Energy Metering (NEM2) Interconnection for Solar and/or Wind Electric Generating Facilities of 30 Kilowatts or Less (Form 79-1151A-02)⁴</i>
NEM2EXP NEM2EXPM	For Solar and/or Wind Net Energy Metering (NEM2) Generating Facilities of 1,000 Kilowatts or Less, other than Facilities of 30 Kilowatts or Less: <i>Generating Facility Interconnection Application, (Form 79-1174-02)</i>	<i>Interconnection Agreement for Net Energy Metering (NEM2) of Solar or Wind Electric Generating Facilities of 1,000 Kilowatts or Less, other than Facilities of 30 Kilowatts or Less (Form 79-1198-02)</i>
	For Net Energy Metering (NEM2) non-Solar and/or Wind Generating Facilities of any size, and Solar and/or Wind Generating Facilities greater than 1,000 kW*:	(T) <i>Interconnection Agreement For Net Energy Metering (NEM2) non-Solar and/or Wind Generating Facilities of any size, and Solar and/or Wind Generating Facilities greater than 1,000 kW (Form 79-1198-02)</i>

⁴ Both the Agreement and Customer Authorization (79-1151A-02) and Application (79-1151B-02) forms must have been submitted before PG&E will issue the Permission to Operation (PTO) letter. Information in the Application can be submitted by the Company or Customer in an electronic format, subject to approval by PG&E.

* Also see Rule 21 Section B.1 Applicability regarding NEM-2 projects greater than 1 MW interconnecting on Transmission

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(Continued)



**ELECTRIC SCHEDULE NEM2
NET ENERGY METERING SERVICE**

Sheet 14

SPECIAL
CONDITIONS:
(Cont'd.)

3. INTERCONNECTION: (Cont'd.)

Rate Option	Application	Interconnection Agreement
NEMPS	For NEMPS (Special Condition 9) for projects that meet NEM integrity requirements	
	<i>Generating Facility Interconnection Application, (Form 79-1174-02)</i>	79-1193-02- AGREEMENT AND CUSTOMER AUTHORIZATION Net Energy Metering (NEM2) Interconnection For Solar And/Or Wind Electric Generating Facilities Of 30 Kilowatts Or Less with Energy Storage of 10 Kilowatts Or Less or Energy Storage with Power Control System Certification
NEM2, NEM2EXP, NEM2A ,or NEM2MT > 1,000 kW	<i>Generating Facility Interconnection Application (Form 79-1174-02)</i>	Rule 21 Generator Interconnection Agreement for New Energy Metering (NEM-2) Generating Facilities Greater than 1,000 Kilowatts Interconnecting Under the Fast Track Process (Form 79-1198-02)
		Rule 21 Generator Interconnection Agreement (GIA) for Net Energy Metering (NEM2) Generating Facilities Greater than 1,000 Kilowatts Interconnecting Under the Independent Study, Distribution Study, or Transmission Cluster Process (Form 79-1198-02)*
NEM2MT	For customer-generators ≤ 1 MW taking service as a Multiple Tariff Facility under Special Condition 4 of this tariff:	
	<i>Generating Facility Interconnection Application (Form 79-1174-02)</i>	Generating Facility Interconnection Agreement (NEM2MT - Multiple Tariff) (Form 79-1069-02)
NEM2A	NEM2 Load Aggregation ≤ 1 MW	
	Along with the applicable interconnection form above, also submit:	
	NEM2 Load Aggregation Appendix (Form 79-1202)	
NEM2CDCR	See Special Condition 7	

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* Also see Rule 21 Section B.1 Applicability regarding NEM-2 projects greater than 1 MW interconnecting on Transmission.

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(Continued)



**ELECTRIC SCHEDULE NEM2
NET ENERGY METERING SERVICE**

Sheet 15

SPECIAL
CONDITIONS:
(Cont'd.)

3. INTERCONNECTION: (Cont'd.)

For Load Aggregation, a completed and signed "NEM Load Aggregation Appendix" (Form 79-1202) must be submitted together with the appropriate NEM interconnection agreement listed above.

The eligible customer-generator must meet all applicable safety, and performance standards established by the National Electrical Code, the Institute of Electrical and Electronics Engineers, and accredited testing laboratories such as Underwriters Laboratories and, where applicable, rules of the California Public Utilities Commission regarding safety and reliability.

In order to promote the safety and reliability of the customer REGF, the applicant is required to verify as a part of each interconnection request for this tariff, that all major solar system components are on the verified equipment list maintained by the California Energy Commission and other equipment, as determined by PG&E, should be verified by the customer as having safety certification from a nationally recognized testing laboratory.

Applicant is required to verify as a part of each interconnection request for this tariff, that (i) a warranty of at least 10 years, or (ii) a 10-year service warranty or executed "agreement" ensuring proper maintenance and continued system performance has been provided on all equipment and on its installation.

For Load Aggregation Arrangements Requesting an additional service for Generator – Subject to all other applicable rules, an additional service may be allowed for the Generating Account if it has no load other than that associated directly with the REGF. However, a customer may not subsequently add load to that additional service, and if the REGF is removed, the additional service, may not be converted to a load account.

Customers on this tariff must pay for the interconnection of their REGF as provided in Electric Rule 21*, including an application fee. This application fee must be paid through PG&E's online application portal in order to complete the application, unless otherwise directed by PG&E. For application fees for Customers impacted by a Natural or Man-Made Disasters⁵, see Special Condition 10.

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** See Rule 21 Section B.1 Applicability regarding NEM-2 projects greater than 1 MW interconnecting on Transmission

⁵ Natural or man-made disasters includes such events as a fire, earthquake, flood, or severe storms.

(Continued)



**ELECTRIC SCHEDULE NEM2
NET ENERGY METERING SERVICE**

Sheet 16

SPECIAL
CONDITIONS:
(Cont'd.)

3. INTERCONNECTION: (Cont'd.)

For the purposes of the NEM2, NEM2V, and NEM2VMSH tariffs, the rating of the generating facility, for the purposes of comparing its size relative to the 1 megawatt (MW) limit*, will be determined based on:

(a) For each PV generator, the California Energy Commission's (CEC) AC rating;

(b) For each inverter based generator, the gross nameplate rating of the inverter; or

(c) For each non-inverter based generator, the generator gross nameplate.

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4. MULTIPLE TARIFF FACILITIES:

Multiple Tariff Facilities have the following additional provisions:

- a. When Net Generation Output Metering (NGOM) is required, such NGOM must conform to the requirements set forth in Electric Rule 21, Section J.
- b. A NEM2-eligible Constituent Generator Group is defined as a constituent generator group that is eligible for service under the provisions of either schedule NEM, NEM2, NEMBIO or NEMFC or their sub-schedules.
- c. A non-NEM2-eligible Constituent Generator Group is defined as a constituent generator group that does not take service under the provisions of schedule NEM, NEM2, NEMBIO or NEMFC, but interconnects under the non-NEM2 provisions of Electric Rule 21.
- d. All metering for Multiple Tariff Facilities called for in this Special Condition must meet the requirements needed to bill under the customer-generator's OAS. All metering, equipment and Non Export relays necessary to implement the provisions in this section will be provided at the Customer-Generator's expense.
- e. Any generators eligible for tariffs NEMA, NEM2, NEMFCA or NEMBIOA (accounts with the loads from eligible accounts aggregated on the main NEM, NEM2, NEMFC or NEMBIO account pursuant as allowed under this Special Condition 4 of this NEM2 tariff) will be treated as a separate Constituent Generator Group. However at this time NEM2A may not be combined with NEMA, NEMFCA or NEMBIOA under this Special Condition.

*For the purposes of Rule 21 Section B.1 Applicability regarding NEM-2 projects greater than 1 MW interconnecting on Transmission, the capacity of all Generating Facilities in will be considered in counting towards the 1MW limit.

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**ELECTRIC SCHEDULE NEM2
NET ENERGY METERING SERVICE**

Sheet 29

SPECIAL
CONDITIONS:
(Cont'd.)

- 9. NEM Paired Storage
 - a. Definitions: (Cont'd.)

No Grid Charging:

A storage system that uses a power control configuration that is either certified to a national standard or to a utility-approved interim testing procedure, either of which ensures that the storage system cannot be charged from the PG&E grid⁹. A PG&E approved physical non-import relay or a functionally equivalent non-import configuration to prevent grid power from flowing to the storage device is also permitted. Customers may not have access to software settings, only the installer and the storage provider would be able to access and select settings profiles. Inadvertent but minor instances of grid import are permitted. Such inadvertent grid imports must not exceed durations of ten seconds.

No Storage Export:

A storage system that uses a power-control configuration that is certified either to a national standard or to a utility-approved interim testing procedure, either of which ensures that the storage system cannot export to PG&E's grid. A PG&E approved physical non-export relay or a functionally equivalent non-export configuration to prevent grid power from flowing to the storage device is also permitted. Inadvertent but minor instances of storage export are permitted. Such inadvertent grid exports must not exceed durations of ten seconds.

- b. Interconnection

NEM Paired Storage will have the same interconnection cost responsibility as the NEM generator that it is paired with, including charges or fees related to the interconnection application, Rule 21*
engineering study/review, and/or any associated distribution upgrades.

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See Section c.5. below for additional information

- c. Types of NEM Paired Storage

The Renewables Portfolio Standard (RPS) Guidebook⁸ establishes two categories of energy storage that may be considered an addition or enhancement to a renewable electrical generation facility: "integrated" and "directly connected" storage.

~~1) — Integrated Storage:~~

~~— Integrated Energy Storage is defined in the RPS guidelines as methods of storing energy from a renewable energy resource that are integrated into the REGF as part of the generation process.~~

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⁹ In the event of an expected PSPS (Public Safety Power Shutoff) outage, as evidenced by a 48-hour notice from PG&E to the expected outage start, a storage system defined as "No Grid Charging" and designed for resiliency, meaning it is capable of providing back-up power safely and in compliance with all relevant tariffs, electric rules, other requirements, and is qualified by PG&E to participate, will be temporarily permitted to charge from the grid in order to prepare for the PSPS outage. The notification must specify an impact to the customer generator location. This temporary permission will begin at the publication of the 48-hour notification and will end 24 hours after the end of the PSPS event, as marked by the restoration of power at the site. If power is not shutoff, the temporary permission will end 72 hours after the original 48-hour notice. At the end of the temporary permission period as described above, the storage system will need to revert to "No Grid Charging" operation mode in order to maintain compliance with the NEM tariff, notwithstanding additional PSPS Alerts. At no point during the temporary permission period will the system be permitted to violate the interconnection agreement. Specifically, the storage system must not increase the host facility's historical peak demand.

* See Rule 21 Section B.1 Applicability regarding NEM-2 projects greater than 1 MW interconnecting on Transmission.

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(Continued)



**ELECTRIC SCHEDULE NEM2
NET ENERGY METERING SERVICE**

Sheet 30

SPECIAL
CONDITIONS:
(Cont'd.)

- 9. NEM Paired Storage
 - c. Types of NEM Paired Storage

1) Integrated Storage: ~~(Cont'd.)~~

Integrated Energy Storage is defined in the RPS guidelines as methods of storing energy from a renewable energy resource that are integrated into the REGF as part of the generation process.
 Note that, for battery-based storage, the storage device must **only** be capable of storing energy from the REGF to be considered Integrated Storage.

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INTEGRATED STORAGE (By definition the storage device must only be capable of storing energy from the REGF)			
SCENARIO	Billed As	Interconnection Agreements	Interconnection Costs
AC Coupled Or DC Coupled	billed as if storage and REGF were all one generator (e.g. NEMS, NEMEXP)	≤ 1 MW apply with 79-1174-02 and Interconnection agreement 79-1193-02	Per 5.i
		> 1 MW apply with 79-1174-02 and Interconnection agreement 79-1198-02*	Per 5.ii or iii

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2) Directly Connected:

Directly Connected NEM Paired Storage is defined in the RPS guidelines as meeting the following requirements:

(i) The storage device is directly connected to the REGF via an internal power line (i.e., power may not be transmitted from the renewable facility to the energy storage via an external distribution line) and

(ii) The storage device must be operated as part of the NEM eligible facility.

Note that the storage device is **not** required to be exclusively charged by the REGF.

* See Rule 21 Section B.1 Applicability regarding NEM-2 projects greater than 1 MW interconnecting on Transmission.

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**ELECTRIC SCHEDULE NEM2
NET ENERGY METERING SERVICE**

Sheet 33

SPECIAL
CONDITIONS:
(Cont'd.)

- 9. NEM Paired Storage
 - c. Types of NEM Paired Storage

DIRECTLY CONNECTED - Table 11.2 (This table covers storage that is NOT 100% REGF charged) For Both AC and DC Coupled Storage						
May Include <ul style="list-style-type: none"> ▶ No-Grid Charged storage (if other nonrenewable generation present) ▶ Non Storage Export (if other nonrenewable generation present) Includes All <ul style="list-style-type: none"> ▶ Grid Charged Storage And Storage Exports All apply with Application 79-1174-02						
Includes <ul style="list-style-type: none"> ▶ Non-Storage Export with either NGOM or non-export relay equivalent (if no other nonrenewable generation present) All apply with Application 79-1174-02						
	PV/Wind < 30 kW	Non- PV/Wind REGF ≤1MW >30 kW PV/Wind ≤1MW	REGF >1Mw*	Bill as	IC costs	Notes
Storage ≤ 10 kW	79-1193-02	79-1069-02	79-1198-02	§3i	Per 5.i	Estimation Methodology
Storage > 10 kW And < 150% ¹⁰	79-1069-02	79-1069-02	79-1198-02	§3ii	Per 5.ii or iii	NGOM, No Grid Charging, No Storage Export¹¹
Storage > 10 kW And > 150%	Set up and bill as NEMMT (not under NEM-Paired Storage section)					

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* See Rule 21 Section B.1 Applicability regarding NEM-2 projects greater than 1 MW interconnecting on Transmission

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¹⁰ the storage system shall have a maximum output power no larger than 150% of the NEM-eligible generator's maximum output capacity. Pursuant to Decision 20-06-017 the maximum output capacity limit shall not apply for a period of 3 years starting on August 16, 2020.

¹¹ see definition of "No Grid Charging" storage and "No Storage Export" above in 9.a above.

(Continued)



**ELECTRIC SCHEDULE NEM2
NET ENERGY METERING SERVICE**

Sheet 35

SPECIAL
CONDITIONS:
(Cont'd.)

9. NEM Paired Storage

c. Types of NEM Paired Storage

4) NEM Paired Storage Output Metering Costs

PG&E will install standard metering equipment whenever possible while interconnecting NEM Paired Storage systems. Standard metering equipment for this purpose comprises a single meter which is a self-contained, single phase, SmartMeter. The fee for installation of standard metering equipment is no more than \$600.00.

However, this fee cap does not apply to NEM Paired Storage requiring complex metering solutions. Complex metering solutions include any configuration other than the standard equipment described above. The cost for complex metering varies and is based on actual costs which will be described in the customer's invoice.

5) NEM Paired Storage Interconnection Cost Responsibility

For the purpose of determining if a NEM Paired Storage REGF exceeds 1 MW criterion, refer to the sizing definition included in the AC-Coupled and DC-Coupled definition at the beginning of this Special Condition.

- i) NEM Paired Storage REGF < 1 MW - The storage will have the same interconnection cost responsibility as the NEM-eligible GF that it is paired with for a REGF less than or equal to 1 MW.
- ii) NEM Paired Storage REGF > 1 MW - The storage will have the same interconnection cost responsibility as the NEM generator that it is paired with for a REGF greater than 1 MW
- iii) In the event the storage is added at a later date after the permission to operate of the NEM-eligible GF it is subsequently paired with, the storage applicant will be required to pay the same interconnection fees and costs that the NEM-eligible GF would be required to pay, as provided in Electric Rule 21*.

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* See Rule 21 Section B.1 Applicability regarding NEM-2 projects greater than 1 MW interconnecting on Transmission.

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ELECTRIC SCHEDULE NEM2V
VIRTUAL NET ENERGY METERING SERVICE

Sheet 1

APPLICABILITY: This virtual net energy-metering schedule is applicable to a multi-tenant or multi-meter¹ Eligible NEM2V installation on a single eligible Property, as defined below, and that includes the following:

- a. A Generator Account that:
 - 1) consists of a Renewable Electrical Generation Facility (REGF)², sized no larger than the energy requirements of all Benefitting Accounts; and
 - 2) is taking service on an applicable time-of-use TOU rate
 - 3) has no load other than that required by the REGF or the combination of such; and
 - 4) takes service, with the generator owner or their designee as the Customer of record (“Owner”); and
- b. Benefitting Account(s), each of which:
 - 1) takes service from PG&E; and
 - 2) is an individually metered, electric account serving a tenant or common area with no other generating facility interconnected with PG&E on the account; and
 - 3) is taking service on an applicable TOU^{3,4} rate schedule
 - 4) does not participate in another virtual net energy metering program or the RES-BCT program.

An REGF greater than one megawatt (MW) seeking interconnection under this Rate Schedule with PG&E’s transmission system is subject to Section B.1 Applicability in Electric Tariff Rule 21. This requirement is not applicable to REGFs with Permission to Operate letters received as of May 6, 2022, or proposed REGFs with materially complete interconnection applications submitted as of May 6, 2022.

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¹ Multi-meter” means two or more utility revenue meters, including master meters, participating in the NEM2V program, in addition to the Generator Account meter.

² Consistent with Decision (D.) 14-05-033, as modified by D. 16-01-044, NEM paired storage may interconnect under this tariff subject to the metering and sizing requirements specified in D. 14-05-033. For a REGF with storage (NEM2V Storage), please see Special Condition 6.

³ Customers on Schedules such as ET, ES, ESR, which have no available corresponding TOU Rate are not required to switch to TOU rates, unless and until such a rate becomes available.

⁴ Customers, including those at Benefitting accounts, when the arrangement switches from Schedule NEMV to this NEM2V successor tariff are required to take any applicable TOU rate, beginning at the time the customer switches to the NEM successor tariff, pursuant to D.14-03-041 and D.16-01-044. Any account not found to be on a TOU rate will automatically be defaulted to the specified TOU rate defined in the “Rate” section below.

(Continued)



ELECTRIC SCHEDULE NEM2V
VIRTUAL NET ENERGY METERING SERVICE

Sheet 4

APPLICABILITY:
(Cont'd.)

Network Grid Limitations – Portions of San Francisco and Oakland, where PG&E has a network grid, have generation export limitations. Customers seeking generator interconnections in San Francisco and Oakland must contact PG&E before beginning any work.

Disconnect/Reconnect – PG&E will inform the Owner of any disconnect/reconnect procedure charges they may expect at the time of interconnection. Typically these charges range from no charge to \$4000.00, depending on individual circumstances, such as (i) whether the disconnection can be performed locally at a switch or requires additional manpower for circuit switching and/or disconnection work at multiple locations; (2) whether or not the work will be performed on overtime, either due to Qualified Customer's request or the needs of adjacent customers; (3) if the customer requests the PG&E resources to standby for reconnection, and (4) other factors.

Owner Obligations – The Owner must:

- a. comply with all applicable safety and performance standards as delineated in PG&E's Electric Rule 21* and other applicable tariffs, safety and performance standards established by the National Electrical Code, the Institute of Electrical and Electronics Engineers, and accredited testing laboratories such as Underwriters Laboratories and, where applicable, rules of the California Public Utilities Commission regarding safety and reliability. The Owner is solely responsible for the ongoing maintenance and operation of the REGF; and (T)
- b. keep in force the amount of property, commercial general liability and/or personal liability insurance the Owner has in place at the time they initiate service on this tariff; and
- c. agree that PG&E may from time to time release to the California Energy Commission and/or the California Public Utilities Commission, information regarding the NEM2V Arrangement, including the Owner's name, and their REGF location, capacity and operational characteristics, and Qualified Customer names at the Benefitting Accounts; and
- d. agree to and comply with all applicable rules and requirements of this NEM2V Rate Schedule; and
- e. verify as a part of each interconnection request for this tariff, that all major solar system components are on the verified equipment list maintained by the California Energy Commission and other equipment, as determined by PG&E, is verified by the customer as having safety certification from a nationally recognized testing laboratory.
- f. provide as a part of each interconnection request for this tariff, (i) a warranty of at least 10 years on all equipment and on its installation, or (ii) a 10-year service warranty or executed "agreement" ensuring proper maintenance and continued system performance.

* See Rule 21 Section B.1 Applicability regarding NEM-2 projects greater than 1 MW interconnecting on Transmission

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Advice	4980-E	Issued by	Date Filed	December 16, 2016
Decision	16-01-044	Steven Malnight	Effective	December 16, 2016
		Senior Vice President	Resolution	
		Regulatory Affairs		



ELECTRIC SCHEDULE NEM2V
VIRTUAL NET ENERGY METERING SERVICE

Sheet 7

RATES:
(Cont'd.)

Generator Accounts eligible for service under NEM2V are exempt from the requirements of Schedule S—Standby Service.

PG&E rates and rate design, including the rates and rate design reflected in this Tariff, are subject to change from time to time. Customers should take this into consideration when making any long term decisions based on rate structures that are currently in place.

SPECIAL
CONDITIONS:

1. METERING: NEM2V net energy metering shall be accomplished at:

a. The Generator Account* where the REGF is located, using either: (T)

- 1) An interval meter (capable of recording the REGF's output in up to fifteen minute increments), if required by PG&E to allocate the Eligible Energy Credit based on the OAS of the Benefitting Accounts in an NEM2V Arrangement. For example, if any Benefitting Accounts in the NEM2V Arrangement takes service on an OAS with a Demand Charge where the Qualified Customer at the Benefitting Account opts to receive a demand credit pursuant to Special Conditions 1 and 3.g, the Owner must install a PG&E interval meter under this option. The Owner shall be responsible for, and shall bear all costs associated with PG&E providing and installing an interval meter for the Generator Account. The cost of the interval meter installation will be determined by PG&E and will vary on a site-specific basis as described below.

If the Owner is participating in a renewable incentive program such as the California Solar Initiative (CSI) Program or the Self-Generation Incentive Program (SGIP), for the Generator Account then the meter installed under this option may also be used to issue performance payments consistent with the current incentive program handbook requirements. This tariff's metering requirements will take precedence over the incentive program metering requirements for the performance meter.

The Owner or Operator selecting this option to use a single meter for the dual purpose of tracking the generation for the NEM2V Generator Account and to issue performance based incentives will need to install a meter that must be: 1) a PG&E owned meter, 2) a PG&E read meter where PG&E will read the meter data for purposes of providing an incentive payment, and 3) installed in a location approved by PG&E. In addition to this metering requirement for incentives, the Owner and Operator will need to contract separately for any Performance Monitoring and Reporting Service (PMRS) as required by the incentive program.

* There may be additional metering requirements under Rule 21 Section B.1 Applicability regarding net energy metering NEM-2 projects greater than 1 MW interconnecting on Transmission.

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ELECTRIC SCHEDULE NEM2V
VIRTUAL NET ENERGY METERING SERVICE

Sheet 17

SPECIAL
CONDITIONS:
(Cont'd.)

3. BILLING: (Cont'd.)

k. OAS Payment Option

Eligible Small Customer (as defined in Rule 1) Benefitting Accounts will be required to pay monthly, unless they specifically request to pay annually, for the net energy (kWh) consumed. For commercial Benefitting Accounts other than Small Commercial, the net balance of all moneys owed must be paid on each monthly billing cycle. When the Qualified Customer is a net electricity producer over a monthly billing cycle, the value of any excess kilowatt-hours generated during the billing cycle shall be carried over to the following billing period and appear as a credit on the Qualified Customer's account, until the end of the Relevant Period.

l. Electric Service Providers (ESP) Charges:

If PG&E provides direct access (DA) metering for the ESP, UDC consolidated billing (that is, PG&E Consolidated Billing as described on PG&E's Rule 22), or ESP dual or consolidated billing support services for DA Qualified Customer served under PG&E's rates or their ESP's rates, PG&E may recover the incremental costs related to net energy metering from the customer's ESP as follows:

Metering services: \$104 Metering Service Base charge, plus \$73/hour for on-site work, plus materials.

Billing: \$85/hour plus materials.

4. INTERCONNECTION:

In order to receive approval for Parallel Operation of the REGF, including NEM2V Storage per Special Condition 6 (if applicable), or to resume service after being impacted by a Natural or Man-Made Disaster per Special Condition 7, the Owner must submit a completed PG&E application and interconnection agreement form as follows:

Interconnection Costs: The Owner or Operator of the Eligible Generator must pay all interconnection costs and application fees required under Rule 21*, including but not limited to re-wiring, trenching, conduit, and other facility costs that are needed. This application fee must be paid through PG&E's online application portal in order to complete the application, unless otherwise directed by PG&E. For NEM2V Storage Interconnection cost, see Special Condition 6. For application costs associated with systems impacted by a Natural or Man-Made Disaster, see Special Condition 7.

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* See Rule 21 Section B.1 Applicability regarding NEM-2 projects greater than 1 MW interconnecting on Transmission

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ELECTRIC SCHEDULE NEM2V
VIRTUAL NET ENERGY METERING SERVICE

Sheet 18

SPECIAL
CONDITIONS:
(Cont'd.)

4. INTERCONNECTION: (Cont'd.)

Facility Type:

Forms Required

NEM2V
Solar or
Wind
Renewable
Generation
Facility

Online Rule 21 Generator Interconnection Application
(Form 79-1174-02)
NEM2V Application and Interconnection Agreement for a Solar (PV) or Wind Generating Facility of 1 Megawatt or Less
(Form 79-1131-02)
Appendix A – Designation of NEM2V Generating Account and Benefitting Accounts and their respective Eligible Energy Credit Allocation
Appendix B – Owner Affidavit Warranting That NEM2V Arrangement Is Sized to Load.

NEM2V
Renewable
Generation
Facility other
than Solar
(PV) or Wind

Appendix C- Generator Interconnection Point Documentation
Online Rule 21 Generator Interconnection Application
(Form 79-1174-02)
Appendix A – Designation of NEM2V Generating Account and Benefitting Accounts and their respective Eligible Energy Credit Allocation
Appendix B – Owner Affidavit Warranting That NEM2V Arrangement Is Sized to Load.
Appendix C- Generator Interconnection Point Documentation
Interconnection Agreement For Net Energy Metering For A Renewable Electrical Generation Facility Of 1,000 Kilowatts Or Less
(Form 79-1137-02)
Appendix A – Description Of Generating Facility And Single-Line Diagram (Provided by Customer-Generator)
Appendix B - Any Rule 2 or Rule 21 Agreements for the Installation or Allocation of Special Facilities (Forms 79-255, 79-280, 79-702) or Agreements to Perform Any Tariff Related Work (62-4527)(Formed between the Parties)

NEM2V
greater than
1 MW

Appendix C – Schedule NEM Customer-Generator Warranty That It Meets The Requirements For An Eligible Customer-Generator And Is An Eligible Renewable Electrical Generator Facility Pursuant To Section 2827 Of The California Public Utilities Code
(Form 79-1174-02)
Rule 21 Generator Interconnection Agreement for New Energy Metering (NEM-2) Generating Facilities Greater than 1,000 Kilowatts Interconnecting Under the Fast Track Process
(Form 79-1161-02)*
Rule 21 Generator Interconnection Agreement (GIA) for Net Energy Metering (NEM2) Generating Facilities Greater than 1,000 Kilowatts Interconnecting Under the Independent Study, Distribution Study, or Transmission Cluster Process

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Customers on this tariff must pay for the interconnection of their systems. Customers eligible for single-family affordable solar housing (SASH) who interconnect under this tariff do not have pay any charge for

* Also see Rule 21 Section B.1 Applicability regarding NEM-2 projects greater than 1 MW interconnecting on Transmission.

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ELECTRIC SCHEDULE NEM2V
VIRTUAL NET ENERGY METERING SERVICE

Sheet 22

SPECIAL
CONDITIONS:
(Cont'd.)

6. NEM2V Storage

a. Definition of NEM2V Storage

NEM2V Storage is defined as an arrangement where a NEM2V REGF including a storage device is located behind the same meter on the generating account under a configuration that prevents the storage device from charging from another source other than the co-located NEM2V REGF generator (i.e. the storage cannot be charged from grid power). This can be accomplished with a physical, non-import relay—or a functionally equivalent non-import configuration as outlined in the PG&E Distribution Generation Interconnection Handbook—to prevent grid power from flowing toward the battery.

If the NEM2V Storage device has found to be charging from the grid, then this arrangement shall no longer be eligible for this tariff.

b. Interconnection Cost

Customers interconnecting storage shall be responsible for all applicable charges in Electric Rule 21*.

(T)

c. Storage Size Dependent Requirements

Requirements may differ depending on the size of the NEM2V Storage. The storage device size is determined by the inverter alternating current nameplate rating.

7. Natural or Man-Made Disasters

NEM2V Transition Eligible Customers impacted by a Natural or Man-Made disaster⁸ may request to resume service on this tariff from (i) the date of the issuance of their original pre-natural-or-man-made disaster “permission to operate” (PTO) letter until (ii) the date of the customer’s first Energy True Up in the twenty first (21st) year.

An Impacted Owner must:

- (i) reapply for interconnection with a replacement system(s) sized to generate no more than the 12 months of historic, or estimated usage (kWh), where the new NEM2V Arrangement is located on the same integral parcel as the original NEM2V Arrangement, and
- (ii) when reapplying for interconnection, submit proof of destruction of the renewable generator(s), if requested by PG&E.

* See Rule 21 Section B.1 Applicability regarding NEM-2 projects greater than 1 MW interconnecting on Transmission.

(N)
(N)

⁸ Natural or man-made disasters includes such events as a fire, earthquake, flood, or severe storms.

(Continued)



ELECTRIC SCHEDULE NEM2VMSH
VIRTUAL NET ENERGY METERING FOR MULTIFAMILY
AFFORDABLE HOUSING (MASH/NSHP) WITH SOLAR GENERATOR(S)

Sheet 4

APPLICABILITY: **Owner Obligations** – The Owner must:
(Cont'd.)

- a. comply with all applicable safety and performance standards as delineated in PG&E's Electric Rule 21* and other applicable tariffs, safety and performance standards established by the National Electrical Code, the Institute of Electrical and Electronics Engineers, and accredited testing laboratories such as Underwriters Laboratories and, where applicable, rules of the California Public Utilities Commission regarding safety and reliability. The Owner is solely responsible for the ongoing maintenance and operation of the Solar Generating Facility; (T)
- b. in order to promote the safety and reliability of the customer Generating Facility, the applicant is required to verify as a part of each interconnection request for this tariff, that all major solar system components are on the verified equipment list maintained by the California Energy Commission and other equipment, as determined by PG&E, should be verified by the customer as having safety certification from a nationally recognized testing laboratory.
- c. Owner is required to verify as a part of each interconnection request for this tariff, that (i) a warranty of at least 10 years has been provided on all equipment and on its installation, or (ii) have a 10-year service warranty or executed "agreement" ensuring proper maintenance and continued system performance.
- d. keep in force the amount of property, commercial general liability and/or personal liability insurance the Owner has in place at the time they initiate service on this tariff;
- e. agree that PG&E may from time to time release to the California Energy Commission and/or the California Public Utilities Commission, information regarding the Eligible Low Income Facility, including the Owner's name, and Solar Generating Facility location, capacity and operational characteristics, and Customer names at the Residential Unit Accounts; AND
- f. agree to comply with all applicable rules and requirements of PG&E's Net Energy Metering tariffs.

Modifications to Solar Generating Facility – If the Eligible Low Income Facility's Solar Generating Facility has not been previously approved for interconnection by PG&E, or where any modification to the previously approved Solar Generating Facility has been made, the Owner must complete the interconnection process in Special Condition 3 of this tariff.

Change in Owner – A change in the Owner responsible for the Eligible Low Income Facility ("Change of Owner"), where no modification to the Solar Generating Facility has been made, does not need to complete the interconnection process in Special Condition 3, as long as the requirements of this section are met.

*See Rule 21 Section B.1 Applicability regarding NEM-2 projects greater than 1 MW interconnecting on Transmission

(N)
(N)

(Continued)

<i>Advice</i>	4980-E	<i>Issued by</i>	<i>Date Filed</i>	December 16, 2016
<i>Decision</i>	16-01-044	Steven Malnight	<i>Effective</i>	December 16, 2016
		<i>Senior Vice President</i>	<i>Resolution</i>	
		<i>Regulatory Affairs</i>		



ELECTRIC SCHEDULE NEM2VMSH
VIRTUAL NET ENERGY METERING FOR MULTIFAMILY
AFFORDABLE HOUSING (MASH/NSHP) WITH SOLAR GENERATOR(S)

Sheet 6

RATES (CON'T): PG&E rates and rate design, including the rates and rate design reflected in this Tariff, are subject to change from time to time. Customers should take this into consideration when making any long term decisions based on rate structures that are currently in place.

SPECIAL CONDITIONS: 1. **METERING:** NEM2VMSH net energy metering shall be accomplished at:

a. The Generator Account(s)* where the Solar Generating Facilities are located, using either: (T)

1) a PG&E interval meter (capable of recording solar energy system output in up to fifteen minute increments), if required by PG&E to allocate the Solar Energy Credit based on the OAS of the Customer Load Accounts in an Eligible Low Income Facility. The Owner shall be responsible for, and shall bear all costs associated with PG&E providing and installing an interval meter for each Generator Account. The cost of the Owner's interval meter installation will be determined by PG&E and will vary on a site specific basis.

If the Generator Account is on DA service and the Owner uses a third-party Meter Data Management Agent (MDMA), the Owner will be responsible for any and all costs associated with providing PG&E acceptable interval data into the PG&E system on a timely basis.

2) a PG&E "TOU" (TOU) meter, if based on review of the Customer Load Accounts' OASs PG&E is able to allocate the Solar Energy Credits. This option will only be available until any Customer Load Account OAS change necessitates that the Owner provide an interval meter per (i) in order to properly allocate Solar Energy Credits. The Owner shall be responsible for, and shall bear all costs associated with, PG&E providing and installing a TOU meter for the Generator Account (or upgrading to an interval meter if required in the future). For the TOU option, the Owner may choose charges based on either a one-time, up-front fee or as a monthly meter charge. Prices are as follows:

TOU Meter Option	One Time Upfront Fee	Monthly Meter Charge
Single Phase	\$755.00	Based on the OAS monthly meter charge
Three Phase	\$890.00	Based on the OAS monthly meter charge

*There may be additional metering requirements under Rule 21 Section B.1 Applicability regarding a net energy metering NEM-2 Generating Facility greater than 1 MW interconnecting on Transmission at one PCC. (N)

(Continued)



ELECTRIC SCHEDULE NEM2VMSH
VIRTUAL NET ENERGY METERING FOR MULTIFAMILY
AFFORDABLE HOUSING (MASH/NSHP) WITH SOLAR GENERATOR(S)

Sheet 15

SPECIAL
CONDITIONS:
(Cont'd.)

3. INTERCONNECTION:

In order to receive approval for Parallel Operation of the Solar Generating Facilities, including NEM2VMSH Storage per Special Condition 5 (if applicable), or to resume service after being impacted by a Natural or Man-Made Disaster per Special Condition 6, the Owner must submit a completed PG&E application form and interconnection agreement* as follows:

(T)

Facility Type	Application	Interconnection Agreement
For an Eligible Low Income Facility with one Single Point of Delivery	<i>Online Rule 21 Generator Interconnection Application (Form 79-1174-02)</i>	
	<i>NEM2VMSH Virtual Net Energy Metering Application and Interconnection Agreement for the Building Owner of Multifamily Affordable Housing with a Solar Generating Facility of 1 Megawatt or Less (Form 79-1109-02)</i>	<i>Appendix A – Designation of Multifamily Common Area Accounts, Residential Units and Their Respective Solar Energy Credit Allocation</i>
For an Eligible Low Income Facility with Multiple Service Delivery Points and/or Multiple Generators	<i>Online Rule 21 Generator Interconnection Application (79-1174-02)</i>	
	<i>Eligible Low Income Development Virtual Net Energy Metering (NEM2VMSH) Application and Interconnection Agreement for Multifamily Affordable Housing with Solar Generation Totalling 1 Megawatt or Less (Form 79-1124-02)</i>	<i>Appendix A – Designation of Multifamily Common Area Accounts, Residential Units and Their Respective Solar Energy Credit Allocation</i>
		<i>Appendix B – Designation of Multifamily Common Area Accounts, Residential Units and Their Respective Solar Energy Credit Allocation</i>

Customers on this tariff must pay for the interconnection of their REGF as provided in Electric Rule 21, including an application fee. This application fee must be paid through PG&E's online application portal in order to complete the application, unless otherwise directed by PG&E. For application costs associated with systems impacted by a Natural or Man-Made Disaster, see Special Condition 6.

* See Rule 21 Section B.1 Applicability regarding NEM-2 projects greater than 1 MW interconnecting on Transmission

(N)
(N)

(Continued)



ELECTRIC SCHEDULE NEM2VMSH
VIRTUAL NET ENERGY METERING FOR MULTIFAMILY
AFFORDABLE HOUSING (MASH/NSHP) WITH SOLAR GENERATOR(S)

Sheet 19

SPECIAL
CONDITIONS:
(Cont'd.)

5. NEM2VMSH Storage

a. Definition of NEM2VMSH Storage

NEM2VMSH Storage is defined as an arrangement where a NEM2VMSH REGF including a storage device is located behind the same meter on the generating account under a configuration that prevents the storage device from charging from another source other than the co-located NEM2VMSH REGF generator (i.e. the storage cannot be charged from grid power). This can be accomplished with a physical, non-import relay—or a functionally equivalent non-import configuration as outlined in the PG&E Distribution Generation Interconnection Handbook—to prevent grid power from flowing toward the battery.

b. Interconnection Cost

Customers interconnecting storage shall be responsible for all applicable charges in Electric Rule 21*.

(T)

c. Storage Size Dependent Requirements

Requirements may differ depending on the size of the NEM2VMSH Storage. The storage device size is determined by the inverter alternating current nameplate rating.

6. Natural or Man-Made Disasters

NEM2VMSH Transition Eligible Customers impacted by a Natural or Man-Made disaster⁶ may request to resume service on this tariff from (i) the date of the issuance of their original pre-natural-or-man-made disaster “permission to operate” (PTO) letter until (ii) the date of the customer’s first Energy True Up in the twenty first (21st) year.

An Impacted Owner must:

- (i) be in accordance with incentive program rules in effect at the time of submitting the interconnection application,
- (ii) reapply for interconnection with a replacement system(s) sized to generate no more than the 12 months of historic, or estimated usage (kWh), where the new NEM2VMSH Arrangement is located on the same parcel(s) as the original NEM2VMSH Arrangement, and
- (iii) when reapplying for interconnection, submit proof of destruction of the renewable generator(s), if requested by PG&E.

* See Rule 21 Section B.1 Applicability regarding NEM-2 projects greater than 1 MW interconnecting on Transmission

(N)
(N)

⁶ Natural or man-made disasters includes such events as a fire, earthquake, flood, or severe storms.

(Continued)



ELECTRIC SCHEDULE NEM2V SOM
VIRTUAL NET ENERGY METERING SOLAR ON MULTIFAMILY
AFFORDABLE HOUSING (SOMAH) PROPERTIES

Sheet 3

(N)
(N)
(N)

APPLICABILITY: **Owner Obligations** – The Owner must:
(Cont'd.)

- a. comply with all applicable safety and performance standards as delineated in PG&E's Electric Rule 21* and other applicable tariffs, safety and performance standards established by the National Electrical Code, the Institute of Electrical and Electronics Engineers, and accredited testing laboratories such as Underwriters Laboratories and, where applicable, rules of the California Public Utilities Commission regarding safety and reliability. The Owner is solely responsible for the ongoing maintenance and operation of the ESGF; (T)
- b. in order to promote the safety and reliability of the customer ESGF, the applicant is required to verify as a part of each interconnection request for this tariff, that all major ESGF components are on the verified equipment list maintained by the California Energy Commission and other equipment, as determined by PG&E, should be verified by the customer as having safety certification from a nationally recognized testing laboratory.
- c. Owner is required to verify as a part of each interconnection request for this tariff, that:
 - (i) a warranty of at least 10 years has been provided on all equipment and on its installation, or
 - (ii) have a 10-year service warranty or executed "agreement" ensuring proper maintenance and continued system performance.
- d. keep in force the amount of property, commercial general liability and/or personal liability insurance the Owner has in place at the time they initiate service on this tariff;
- e. agree that PG&E may from time to time release to the California Energy Commission and/or the California Public Utilities Commission, information regarding the Eligible Low Income Development, including the Owner's name, and ESGF location, capacity and operational characteristics, and Customer names at the Residential Unit Accounts; AND
- f. agree to comply with all applicable rules and requirements of PG&E's Net Energy Metering tariffs.

Modifications to Eligible Solar Generating Facility (ESGF) – If the Eligible Low Income Development's ESGF has not been previously approved for interconnection by PG&E, or where any modification to the previously approved ESGF has been made, the Owner must complete the interconnection process in Special Condition 3 of this tariff.

Change in Owner – A change in the Owner responsible for the Eligible Low Income Development ("Change of Owner"), where no modification to the ESGF has been made, does not need to complete the interconnection process in Special Condition 3, as long as the requirements of this section are met.

* See Rule 21 Section B.1 Applicability regarding NEM-2 projects greater than 1 MW interconnecting on Transmission

(N)
(N)

(Continued)

Advice	5253-E	Issued by	Date Filed	March 14, 2018
Decision	17-12-022	Robert S. Kenney	Effective	April 13, 2018
		Vice President, Regulatory Affairs	Resolution	



ELECTRIC SCHEDULE NEM2VSOM
VIRTUAL NET ENERGY METERING SOLAR ON MULTIFAMILY
AFFORDABLE HOUSING (SOMAH) PROPERTIES

Sheet 14

SPECIAL
CONDITIONS:
(Cont'd.)

3. INTERCONNECTION:

In order to receive approval for Parallel Operation of the Solar Generating Facilities, the Owner must submit a completed PG&E application form and interconnection agreement as follows:

Facility Type	Application	Interconnection Agreement
For an Eligible Low Income Development with Multiple Service Delivery Points and/or Multiple Generators	<i>Online Rule 21 Generator Interconnection Application (Form 79-1174-02)</i>	<i>Eligible Low-Income Development Virtual Net Energy Metering (Nem2vsom) Interconnection Agreement For The Solar On Multifamily Affordable Housing (SOMAH) Program With Solar Generation Totaling 1 Mw Or Less (Form 79-1206-02)</i>
		<i>Appendix A – Description Of Generating Facility And Single-Line Diagram (Provided by Customer-Generator)</i>
		<i>Appendix B (If Applicable) – Any Rule 2 or Rule 21 Agreements for the Installation or Allocation of Special Facilities (Forms 79-255, 79-280, 79-702) or Agreements to Perform Any Tariff Related Work (62-4527) (Formed between the Parties)</i>
		<i>Appendix C (If Applicable) – NEMV, NEM2V, NEMVMASH, NEM2VMSH Or NEM2VSOM Storage Applicants Adding Storage Pursuant To Schedules NEMV, NEM2V, NEMVMASH, NEM2VMSH Or NEM2VSOM Under The Special Condition For Storage Must Include Proper Documentation Per PG&E's Distribution Interconnection Handbook (DIH).</i>

Customers on this tariff must pay for the interconnection of their REGF as provided in Electric Rule 21*, including an application fee. This application fee must be paid through PG&E's online application portal in order to complete the application, unless otherwise directed by PG&E.

(T)

For the purposes of the NEM2VSOMMSH tariff, the rating of the generating facility, for the purposes of comparing its size relative to the 1 megawatt (MW) limit, will be as described in the NEM2 tariff.

* See Rule 21 Section B.1 Applicability regarding NEM-2 projects greater than 1 MW interconnecting on Transmission

(N)
(N)

(Continued)



ELECTRIC SCHEDULE NEM2VSOM
VIRTUAL NET ENERGY METERING SOLAR ON MULTIFAMILY
AFFORDABLE HOUSING (SOMAH) PROPERTIES

Sheet 18

(N)
(N)
(N)

SPECIAL
CONDITIONS:
(Cont'd.)

5. NEM2VSOM STORAGE:

a. Definition of NEM2VSOM Storage

NEM2VSOM Storage is defined as an arrangement where a NEM2VSOM REGF including a storage device is located behind the same meter on the generating account under a configuration that prevents the storage device from charging from another source other than the co-located NEM2VSOM REGF generator (i.e. the storage cannot be charged from grid power). This can be accomplished with a physical, non-import relay—or a functionally equivalent non-import configuration as outlined in the PG&E Distribution Generation Interconnection Handbook—to prevent grid power from flowing toward the battery.

b. Interconnection Cost

Customers interconnecting storage shall be responsible for all applicable charges in Electric Rule 21*.

c. Storage Size Dependent Requirements

Requirements may differ depending on the size of the NEM2VSOM Storage. The storage device size is determined by the inverter alternating current nameplate rating.

(T)

* See Rule 21 Section B.1 Applicability regarding NEM-2 projects greater than 1 MW interconnecting on Transmission

(N)
(N)

Rule 21 Redline Tariff Revisions

For Electric Rule 21, only sheets that have been modified in this advice letter (AL 6682-E) are included in Attachment 2. Where Electric Rule 21 has been revised, the affected sheets are included in Attachment 1.

In this advice letter and accordance to CPUC General Order 96B, Section 9.5.3, PG&E has implemented the use of the “(P)” symbol to signify material subject to change under a pending advice letter. The redlines in Attachment 2 are color coded to the specific advice letter. The color coding is as follows:

Redline Text Color	Advice Letter	Subject	Comments
	6668-E	Clean-Up of Rule 21/Net Energy Metering (NEM1 and NEM2) Tariffs and Forms	Minor clarification revisions are made through this clean-up advice letter.
	6682-E	Modifications to Electric Rule 21 and Net Energy Metering Tariffs for Generation Facilities Greater than One Megawatt Interconnecting on Transmission Pursuant to Decision 22-07-001 Ordering Paragraphs 1, 3 and 4	In this advice letter, revisions are made pursuant to Decision 22-07-001 Ordering Paragraphs 1, 3 and 4.



ELECTRIC RULE NO. 21
GENERATING FACILITY INTERCONNECTIONS

Sheet 15

B. APPLICABILITY

1. APPLICABILITY

This Rule describes the Interconnection, operating and Metering requirements for those Generating Facilities to be connected to Distribution Provider's Distribution System and Transmission System over which the California Public Utilities Commission (Commission) has jurisdiction. All Generating Facilities seeking Interconnection with Distribution Provider's Transmission System* shall apply to the California Independent System Operator (CAISO) for Interconnection and be subject to CAISO Tariff except for i4) Net Energy Metering Generating Facilities less than or equal to one megawatt** and 2ii) Generating Facilities that do not export to the grid or sell any exports sent to the grid (Non-Export Generating Facilities). ~~NEM Generating Facilities and~~ Non-Export Generating Facilities subject to Commission jurisdiction shall interconnect under this Rule regardless of whether they interconnect to Distribution Provider's Distribution or Transmission System. Subject to the requirements of this Rule, Distribution Provider will allow the Interconnection of Generating Facilities with its Distribution or Transmission System.

(T)
(T)
(T)
(T)

Generating Facility interconnections to Distribution Provider's Distribution System that are subject to Federal Energy Regulatory Commission (FERC) jurisdiction shall apply under Distribution Provider's Wholesale Distribution Tariff (WDT) whether they interconnect to Distribution Provider's Distribution or Transmission System.

2. DEFINITIONS

Capitalized terms used in this Rule, and not defined in Distribution Provider's other tariffs shall have the meaning ascribed to such terms in Section C of this Rule. The definitions set forth in Section C of this Rule shall only apply to this Rule, the Interconnection Request, study agreements and Generator Interconnection Agreements, and may not apply to Distribution Provider's other tariffs.

* This may also include a Transmission System (Non-CAISO Controlled). If so, they shall apply for Interconnection using the Wholesale Distribution Tariff- WDT (the WDT applies to both transmission and distribution interconnections, despite its name.)

(N)
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↓
(N)

** This is not applicable Net Energy Metering Generating Facilities with Permission to Operate letters received as of May 6, 2022, or proposed Net Energy Metering Generating Facilities with materially complete interconnection applications submitted as of May 6, 2022.

(Continued)



ELECTRIC RULE NO. 21
GENERATING FACILITY INTERCONNECTIONS

Sheet 33

C. DEFINITIONS (Cont'd.)

Spot Network: For purposes of this Rule, a Spot Network is a type of distribution system found within modern commercial buildings to provide high reliability of service to a single customer.

Starting Voltage Drop: The percentage voltage drop at a specified point resulting from In-rush Current. The Starting Voltage Drop can also be expressed in volts on a particular base voltage, (e.g. 6 volts on a 120-volt base, yielding a 5% drop).

Supplemental Review: See Section F.2.c.

System Integrity: The condition under which Distribution Provider's Distribution and Transmission System is deemed safe and can reliably perform its intended functions in accordance with the safety and reliability rules of Distribution Provider.

Telemetry: The electrical or electronic transmittal of Metering data on a real-time basis to Distribution Provider.

Total Capacity: Capacity (in MW) of substation/area bus, bank or circuit based on normal or operating ratings.

Transfer Trip: A Protective Function that trips a Generating Facility remotely by means of an automated communications link controlled by Distribution Provider.

Transient/Dynamic Stability: The ability of an electrical system to withstand disturbances. Transient/Dynamic Stability studies are performed to ensure power system stability and are time-based simulations that assess the performance of the power system during and shortly following system disturbances.

Transmission Cluster Study Process: The cluster study process as defined in Distribution Provider's Wholesale Distribution Tariff.

Transmission System: Transmission facilities owned by Distribution Provider that have been placed under the CAISO's operational control and are part of the CAISO Controlled Grid, as defined in the CAISO Tariff.

Transmission System (Non-CAISO Controlled: Those non-ISO transmission voltage facilities (as defined in Electric Rule 2 Table B.1) owned, controlled, and operated by PG&E that are used to provide Distribution Service under these tariffs.

(N)
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(N)

(Continued)



ELECTRIC RULE NO. 21
GENERATING FACILITY INTERCONNECTIONS

Sheet 41

D. GENERAL, RULES, RIGHTS AND OBLIGATIONS (Cont'd.)

11. COORDINATION WITH AFFECTED SYSTEMS

Distribution Provider will notify the Affected System Operators that are potentially affected by an Applicant's Interconnection Request or group of Interconnection Requests. Distribution Provider will coordinate the conduct of any studies required to determine the impact of the Interconnection Request on Affected Systems with Affected System Operators and, if possible, include those results (if available) in its applicable Interconnection Study within the time frame specified in this Rule. Distribution Provider will include such Affected System Operators in all meetings held with Applicant as required by this Rule. Applicant will cooperate with Distribution Provider in all matters related to the conduct of studies and the determination of modifications to Affected Systems. A transmission provider which may be an Affected System shall cooperate with Distribution Provider with whom interconnection has been requested in all matters related to the conduct of studies and the determination of modifications to Affected Systems. Applicant shall enter into an agreement with the owner of the Affected System, as applicable. The agreement shall specify the terms governing payments to be made by Applicant to the owner of the Affected System as well as the repayment, if applicable, by the owner of the Affected System.

12. TRANSFERABILITY OF INTERCONNECTION REQUEST

An Applicant may transfer its Interconnection Request to another entity only if such entity acquires the proposed Generating Facility identified in the Interconnection Request and the Point of Interconnection does not change.

13. SPECIAL PROVISIONS APPLICABLE TO CERTAIN NET ENERGY METERED APPLICANTS

Notwithstanding any other provision in this Rule:

- a. For NEM Generating Facilities with a capacity of 1 MW or smaller Distribution Provider may proceed from Initial to Supplemental Review to Independent Study Process to further study without waiting for Applicant concurrence, since Applicant is not responsible for payment of study costs.

(L)

For NEM-2 Generating Facilities with a capacity greater than a megawatt interconnecting on transmission see Section B.1 – Applicability.

(N)

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(N)

(Continued)



ELECTRIC RULE NO. 21
GENERATING FACILITY INTERCONNECTIONS

Sheet 42

D. GENERAL, RULES, RIGHTS AND OBLIGATIONS (Cont'd.)

13. SPECIAL PROVISIONS APPLICABLE TO NET ENERGY METERED APPLICANTS (Cont'd.)

- a. Otherwise, except as provided in Section D.13.e below, for NEM-2 Generating Facilities with a capacity greater than 1 MW, the special provisions contained within Section D.13 and other exemptions applicable to NEM Applicants contained within this Rule do not apply. Instead, all provisions applicable to non-NEM Interconnection Requests shall apply, including but not limited to the requirement to pay all Interconnection Request fees, study costs and upgrade costs, and the adherence to all non-NEM timeline and interconnection provisions contained within Rule 21. (T)/(L)
(L)
(L)
- b. For NEM-1 and NEM-2 Generating Facilities with a capacity of 1 MW or smaller, Distribution Provider approval for Interconnection (i.e., Permission to Operate) shall normally be processed not later than thirty (30) Business Days following Distribution Provider's receipt of 1) a completed Net Energy Metering Interconnection Request including all supporting documents and required payments; 2) a completed signed Net Energy Metering Generator Interconnection Agreement; and 3) evidence of Applicant's final electric inspection clearance from the Governmental Authority having jurisdiction over the Generating Facility. If the 30-day period cannot be met, Distribution Provider shall notify Applicant and the Commission of the reason for the inability to process the Interconnection Request and the expected completion date. However, Applicants that include non-inverter based Generators and/or Generators with non-Certified Equipment and/or Interconnection Requests that are anticipated to require new services (i.e., NEM load aggregation) and/or the design and construction of Interconnection Facilities or Distribution Upgrades should plan to submit a completed Net Energy Metering Interconnection Request including all supporting documents sufficient for Distribution Provider to start the review process in Section F.2.a without waiting for the final inspection clearance. Applicants with such Generating Facilities are advised to submit their Interconnection Request at least six (6) months in advance of their planned Commercial Operation Date. Depending on the size and location of these Generating Facilities, additional time for review may be required and could include Supplemental Review an Interconnection System Impact Study, and an Interconnection Facilities Study as set out in Section F. The advance submission of the Interconnection Request will better accommodate Distribution Provider's review and studies in a manner consistent with the timelines established in this Rule that may be required to complete the processing for these types of Interconnection Requests.

(Continued)

Advice	5187-E-A	Issued by	Date Filed	May 31, 2018
Decision	16-06-052	Robert S. Kenney	Effective	June 30, 2018
		<i>Vice President, Regulatory Affairs</i>	Resolution	



ELECTRIC RULE NO. 21
GENERATING FACILITY INTERCONNECTIONS

Sheet 44

D. GENERAL, RULES, RIGHTS AND OBLIGATIONS (Cont'd.)

13. SPECIAL PROVISIONS APPLICABLE TO NET ENERGY METERED APPLICANTS (Cont'd.)

e. For the purposes of establishing the interconnection requirements for Net Energy Metering Generating Facilities with a capacity greater than one megawatt (1MW)* qualifying for service under PUC Section 2827(b)(4)(B) (i.e., the California Department of Corrections and Rehabilitation or CDCR), Distribution Provider shall be afforded a prudent but necessary time, as determined by the executive director of the Commission, to study the impacts of the Interconnection Request. If the study reveals the need for upgrades to the Transmission and/or Distribution System arising solely from the Interconnection Request, Distribution Provider shall be afforded the time necessary to complete those upgrades before the Generating Facility is interconnected. The costs of the Network and/or Distribution Upgrades shall be borne by the Applicant, but the exemption from application fees and study costs applicable to Generating Facilities eligible for Net Energy Metering under PUC Section 2827 shall apply. Distribution Provider shall consider the receipt date of the completed Interconnection Request when completing the study allowed for herein and for purposes of determining the appropriate cost responsibility for the necessary Network and/or Distribution Upgrades triggered solely by the Interconnection Request. All Generating Facilities interconnected pursuant to this section shall comply with applicable state and federal requirements, including requirements of the FERC.

(T)

(T)

For CDCR Rate Schedule NEM interconnections of Generating Facilities with a capacity greater than 1 MW, the ~~United States Armed Forces~~ CDCR shall comply with all FERC interconnection procedures and requirements for any Generating Facility that interconnects directly to the Transmission System or that requires upgrades to the Transmission System. ~~These same provisions also apply to the Interconnection Requests of the CDCR and United States Armed Forces for NEM-2 Generating Facilities with a capacity greater than 1 MW, except that the , and the CDCR and the United States Armed Forces~~ shall be additionally responsible for any application fees and study costs triggered by the NEM-2 Interconnection Request.**

(T)

(T)

(D)

(D)

(T)

(T)

* If the generating facility is greater than 1 megawatt and interconnecting on transmission, see Applicability Section B.1.

(N)

** If the CDCR generating facility is greater than 1 megawatt and interconnecting on transmission as NEM-2, also see Applicability Section B.1.

(N)

(Continued)



ELECTRIC RULE NO. 21
GENERATING FACILITY INTERCONNECTIONS

Sheet 55

- E. INTERCONNECTION REQUEST SUBMISSION PROCESS (Cont'd.)
 - 2. INTERCONNECTION REQUEST PROCESS (Cont'd.)
 - c. Applicant Completes an Interconnection Request (Cont'd.)

TABLE E.1

Summary of Interconnection Request Fees, Deposits and Exemptions

Generating Facility Type	Interconnection Request Fee	Supplemental Review Fee	Detailed Study Deposit	Additional Commissioning Test Verification	Cost Envelope Option Deposit****	Modifications Fee per (Table E.1) *****
Non-Net Energy Metering and > 1 MW NEM-2*****	\$800	\$2,500*	For a Generating Facility with a Gross Nameplate Rating of 5 MW or less and applying to the Independent Study Process, \$10,000 for a System Impact Study or the DGS Phase I Interconnection Study in the case of the Distribution Group Study Process; and \$15,000 for an Interconnection Facilities Study or DGS Phase II Interconnection Study in the case of the Distribution Group Study Process. For a Generating Facility with a Gross Nameplate Rating above 5 MW, \$50,000 plus \$1,000 per MW of electrical output of the Generating Facility, or the increase in electrical output of the existing Generation Facility, as applicable, rounded up to the nearest whole MW, up to a maximum of \$250,000.	\$150/Person Hour**	\$2,500	\$0
≤ 1 MW NEM-2***	\$145	\$0	\$0	N/A	\$2,500	\$0
NEM-1	\$0	\$0	\$0	N/A	\$2,500	n/a
Non-NEM Solar ≤ 1MW*****	First \$5,000 of study fees waived			\$150/Person Hour**	\$2,500	\$0

* Optional \$1,000 additional fault current study fee pursuant to Section F.2.c.ii. Pursuant to D. 20-09-035, Applicants have the option to pre-pay the non-refundable Supplemental Review Fee (such as concurrently with the Interconnection Request fee) or separately upon completion of the Initial Review.

** Plus additional costs for travel, lodging and meals.

*** Applicants that participate in the Single-Family Affordable Solar Homes (SASH) program are exempt from the Interconnection Request fee.

**** Interconnection Requests that have selected the Cost Envelope Option and that subsequently qualify for and pass the Fast Track Process evaluation, as well as NEM Generating Facilities and Solar ≤ 1 MW Generating Facilities evaluated under the Independent Study Process, must provide the Cost Envelope Option deposit in accordance with Section F.7 to remain eligible for the Cost Envelope Option.

***** The fee will be set to \$0 for now, until PG&E submits a new Advice Letter to increase it. Note: the fee does not apply to NEM-1 nor NEMFC by statute. SASH is also exempt from this fee per D. 16-01-044.

***** Solar ≤ 1MW that does not sell power to Distribution Provider (per D.01-07-027) nor participate in NEM-1 or NEM-2

***** see Section B.1 *Applicability* regarding NEM-2 projects greater than 1 MW interconnecting on Transmission.

(P)
(P)

(N)

(Continued)



ELECTRIC RULE NO. 21
GENERATING FACILITY INTERCONNECTIONS

Sheet 65

E. INTERCONNECTION REQUEST SUBMISSION PROCESS (Cont'd.)

4. INTERCONNECTION COST RESPONSIBILITY (Cont'd.)

f. Summary Tables

Table E.2 summarizes cost responsibility for costs and fees that may arise in the course of the interconnection process for NEM and non-NEM Applicants. Table E.3 summarizes cost responsibility for costs and fees that may arise in the course of the interconnection process for NEM Applicants under various sequences of interconnecting NEM and non-NEM Generators on the same PCC interconnecting to the Distribution or Transmission System.

Table E.2 Summary of Producer Cost Responsibility

Generating Facility Type	Interconnection Request Fee		Supplemental Review Fee		Detailed Study Cost (ISP, DGSP, or TCSP)		Interconnection Facilities Cost		Distribution Upgrades Cost		Transmission Network Upgrade Cost (per Applicable CAISO Tariff at signing of IA)	
	YES	NO	YES	NO	YES	NO	YES	NO	YES	NO	YES	NO
Non-NEM and NEM-2 (>1MW) ^{***}	X		X		X		X		X		X	
NEM-1		X		X		X	X			X ^a		X ^a
NEM-2 (≤1MW) [*]	X			X		X ^{**}	X			X		X ^{**}

* Applicants participating in the Single-Family Affordable Solar Homes program are exempt from the Interconnection Request Fee.

** Except as provided in Section F.3.d.

*** see Section B.1 Applicability regarding NEM-2 projects greater than 1 MW interconnecting on Transmission.

(T)

(N)

(Continued)



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GENERATING FACILITY INTERCONNECTIONS

Sheet 73

F. REVIEW PROCESS FOR INTERCONNECTION REQUESTS (Cont'd.)

1. OVERVIEW OF THE INTERCONNECTION REVIEW PROCESS (Cont'd.)

c. Detailed Studies

Except as provided in Section B.1 Applicability regarding NEM-2 greater than 1 MW on Transmission. Detailed Study will be required for Interconnection Requests that apply directly for Detailed Study, are not eligible for Fast Track evaluation, or do not pass Fast Track evaluation. Detailed Study shall consist of one of three study processes: (i) Independent Study Process; (ii) Distribution Group Study Process; or (iii) WDT Transmission Cluster Study Process. The specific study process that is applied will depend on the results of Screens Q and R in Section G.3. Interconnection Requests that are found to be electrically interdependent with earlier-queued interconnection requests with impacts on the Transmission System, and thereby fail screen Q, will proceed to the WDT Transmission Cluster Study Process. Interconnection Requests that are not electrically interdependent with earlier-queued interconnection requests with impacts on the Transmission System, and thereby pass Screen Q, will be studied under either the Independent Study Process or the Distribution Group Study Process, depending on the results of Screen R.

(N)
(N)

d. Compliance with Timelines

Distribution Provider shall use Reasonable Efforts in meeting all the timelines set out in this Rule, or mutually modified by Distribution Provider and Applicant pursuant to Section D.16. Each Distribution Provider shall designate an ombudsman with authority to resolve disputes over missed timelines. The identity, role, and contact information of the ombudsman shall be available on Distribution Provider's website.

If at any time an Applicant is dissatisfied with the Reasonable Efforts of Distribution Provider to meet the timelines in this Section, Applicant may use the following procedures:

(Continued)

<i>Advice</i>	5988-E-A	<i>Issued by</i>	<i>Submitted</i>	May 19, 2021
<i>Decision</i>	D.20-09-035	Robert S. Kenney	<i>Effective</i>	May 19, 2021
		<i>Vice President, Regulatory Affairs</i>	<i>Resolution</i>	

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

AT&T
Albion Power Company

Alta Power Group, LLC
Anderson & Poole

Atlas ReFuel
BART

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

California Hub for Energy Efficiency
Financing

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

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

Chevron Pipeline and Power
City of Palo Alto

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

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

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

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

Intertie

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

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

Modesto Irrigation District
NLine Energy, Inc.
NRG Solar

OnGrid Solar
Pacific Gas and Electric Company
Peninsula Clean Energy

Pioneer Community Energy

Public Advocates Office

Redwood Coast Energy Authority
Regulatory & Cogeneration Service, Inc.

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