

**PUBLIC UTILITIES COMMISSION**505 VAN NESS AVENUE  
SAN FRANCISCO, CA 94102-3298

May 5, 2023

Sidney Bob Dietz II  
Director, Regulatory Relations  
c/o Megan Lawson  
E-mail: [PGETariffs@pge.com](mailto:PGETariffs@pge.com)

**Subject: Energy Division Approval of Pacific Gas and Electric Advice Letter 6792-E-A  
'Modifications to Pacific Gas & Electric Virtual Net Energy Metering (VNEM) Tariffs'**

Dear Mr. Dietz,

This letter approves Pacific Gas and Electric (PG&E) Advice Letter (AL) 6792-E-A, which proposes modifications to its Virtual Net Energy Metering Tariffs, effective March 17, 2023.

PG&E AL 6792-E was submitted on December 15, 2022, pursuant to Decision (D.) 21-12-031 to “undertake every reasonable effort to expedite interconnection of the released waitlisted projects” that are part of the Self-Generation Incentive Program (SGIP) waitlists.<sup>1</sup> SGIP incentivizes energy storage systems installed for resilience in multitenant complexes. To that end, the advice letter clarifies the virtual net energy metering (VNEM) tariffs to explicitly state that energy storage may isolate from the grid to provide backup power during grid outages. The proposed changes add a special condition to the VNEM tariffs that onsite storage may serve customer loads during grid outages or testing periods so long as those loads do not register on the Generating or Benefiting Account meters. PG&E submitted supplemental AL 6792-E-A on February 15, 2023, replacing the original advice letter in its entirety.

The original advice letter was jointly protested by California Solar & Storage Association, Sunrun Inc., Ivy Energy, and SunPower Corporation (the Joint Protestors) on January 4, 2023. PG&E filed a timely reply on January 11, 2023, agreeing to some of the joint protest matters by amending the proposed tariff language in the supplemental AL. PG&E’s reply declined the Joint Protestors’ recommendation that PG&E adopt the same special condition for storage resiliency as Southern California Edison and San Diego Gas & Electric.

Energy Division approves PG&E AL 6792-E-A and find that it complies with D.21-12-031, and adequately resolves the protest. Attachment 1 contains a detailed discussion of the background, protests, reply, supplemental and staff’s determination.

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<sup>1</sup> Decision 21-12-031 Ordering Paragraph 2

Please direct any questions regarding Energy Division's findings in this disposition to Sarah Lerhaupt ([sarah.lerhaupt@cpuc.ca.gov](mailto:sarah.lerhaupt@cpuc.ca.gov)).

Sincerely,

 FOR

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

cc:

Allie Detrio, Policy Advisor, Ivy Energy  
Brad Heavner, Policy Director, California Solar & Storage Association  
Rachel McMahon, Director of Policy, Sunrun  
Patrick Sterns, Senior Manager, SunPower Corporation

## Attachment 1

### Background

The Self-Generation Incentive Program (SGIP) was established in 2001 as a response to peak demand problems in California. SGIP provides incentives for the installation of qualifying storage technologies in the three large electric investor-owned utility (IOU) territories. The aims of the program are to reduce greenhouse gas emissions, improve grid reliability, and transform the energy storage market. The SGIP incentive budget is bucketed for different purposes. Of concern to this advice letter is the funding reserved for the Equity Resiliency budget, the Resiliency Adder and the criteria for increased discharge duration for Resiliency systems. The Resiliency Adder adds \$2.50 per watt to a base SGIP incentive when energy storage projects are installed for resiliency purposes, including instances for Equity Resiliency customers.<sup>2</sup> The Equity Resiliency budget provides an incentive of \$1.00/watt-hour for qualified residential and non-residential customers for energy storage systems.<sup>3</sup>

Per the SGIP Program Handbook, projects seeking to qualify for program incentives must demonstrate that they can operate in isolation of the grid. To-date, renewable developers have struggled to adequately demonstrate this capability for energy storage systems of multitenant properties either using, or seeking to use, virtual net energy metering (VNEM) tariffs with collocated electric generation systems.<sup>4</sup> The VNEM tariffs require that the on-site renewable generation facilities have a separate, export-only meter and there must be a physical non-import relay to prevent grid power from flowing toward the energy storage system.<sup>5</sup> In this configuration, there is no on-site consumption from the property owner and/or tenants of the renewable generation. Lack of agreement between the utilities and industry stakeholders about how to simultaneously meet the VNEM tariff and SGIP Handbook rules led to a backlog of projects and a growing SGIP waitlist. This has had a particular impact on low-income affordable multifamily customers seeking to leverage SGIP along with solar incentives from the Solar on Multifamily Affordable Housing (SOMAH) program.<sup>6</sup>

D.21-12-031 allocated previously unallocated SGIP funds, approximately \$67 million, and sought to remedy the waitlisted projects by directing the utilities to undertake “every reasonable effort” to

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<sup>2</sup> SGIP Program Handbook 5<sup>th</sup> Edition (November 2022) Section 3.1.1.1 Renewable Generation Resiliency Adder at page 25

<sup>3</sup> SGIP Program Handbook 5<sup>th</sup> Edition (November 2022) Section 4.1.1.3. Host Customer Eligibility for the Equity Resiliency Budget at page 37

<sup>4</sup> VNEM tariffs virtually allocate generation credits from on-site generation to associated benefitting accounts. In this configuration the renewable generation is separate and has a dedicated export meter. The utility allocates credits using the benefitting accounts’ electricity bills.

<sup>5</sup> D.17-12-005

<sup>6</sup> SOMAH provides incentives for solar energy photovoltaic systems for multifamily affordable housing and seeks to add 300MW of solar capacity by 2030 ([www.calsomah.org](http://www.calsomah.org)). The program is funded from the electric IOUs’ Greenhouse Gas Auction Proceeds for this solar program.

speed up application processing and expedite interconnection, especially for SOMAH projects.<sup>7</sup> Additionally, the utilities were directed to identify all utility-approved pathways, which may include adjusting VNEM tariffs to facilitate interconnections.

Pacific Gas and Electric (PG&E), San Diego Gas & Electric (SDG&E), and Southern California Edison (SCE) collaborated with solar developers, Energy Division, and each other and determined that a clarification of the VNEM tariffs was necessary to enable multitenant SGIP resiliency projects' interconnection applications to move forward. The utilities proposed an aligned change to add a special condition in their VNEM tariffs that describes a certain technical configuration pathway for a renewable generation facility to support on-site loads during an outage or testing period.

In particular PG&E proposed in its supplemental AL to amend the NEM2V, NEM2VMSH, and NEM2VSOM tariffs to add a new special condition that the renewable generation facility and storage device “can be operated in isolation to serve loads that are otherwise part of the NEM2V arrangement (i.e., loads associated with any meter that is part of the arrangement during normal, parallel operation) only during grid outages and for testing purposes...must be located under the same PG&E delivery point...such that no load or generation registers on Generating or Benefiting Account meters when operating in isolation.”<sup>8</sup>

### **Protests and Reply**

The California Solar + Storage Association (CALSSA), Sunrun Inc., SunPower, and Ivy Energy (Joint Protestors) filed a joint protest of SDG&E AL 4119-E, PG&E AL 6792-E, and SCE AL 4917-E on January 4, 2023. The Joint Protestors did not cite what “Grounds for Protest” from General Order 96-B Section 7.4.2 their protests fall under. The protest sought to have the utilities adopt completely consistent special condition language and sought modifications “to clarify that the current solution [proposed] is only one possible solution.”<sup>9</sup> The protest’s justification for each IOU having the same special condition is that it best meets CPUC direction in D.21-12-031 to “enable seamless SGIP participation [for SOMAH participants].”<sup>10</sup> Additionally, the Joint Parties’ protest described concerns that:

- minor differences in terminology may cause confusion for contractors operating in multiple territories; and
- specific requests for each utility to correct substantive deviations or language could inadvertently create new prohibitions; and
- requested utilities to state that there are other storage resiliency options likely possible under Rule 21 or that may require modest modifications to VNEM tariffs in the future.

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<sup>7</sup> D.21-12-031 Ordering Paragraphs 1(g) and 2

<sup>8</sup> PGE AL 6792-E-A

<sup>9</sup> Joint Parties Protest, at page 2

<sup>10</sup> D.21-12-031 at page 14

The Joint Parties proposed language for 1) a shared special condition, based on PG&E's proposed tariff language, and 2) a common statement that there may be alternative allowable configurations.

The Joint Parties' protest specifically pointed out that PG&E's use of the term "microgrid" in its advice letter was confusing as there are separate CPUC proceedings regarding microgrids.<sup>11</sup>

PG&E filed a timely reply to the protest on January 11, 2023. In its reply, PG&E agreed to make a modest language adjustment to clarify that energy storage can be used outside of resiliency events, stating PG&E would adjust (in a supplemental AL) the proposed special condition language from "[the storage] must be configured such that no load or generation registers on Generating or Benefitting account meters *when operating in isolation*," to the phrase "*The isolated operation* must be configured such that no load or generation registers on Generating or Benefitting account meters." PG&E rejected the suggestion to eliminate use of the term "microgrid" in their advice letter to maintain consistency with established terminology in PG&E's "Behind-the-meter Microgrid Tariff."

On February 15, 2023, PG&E submitted supplement 6792-E-A which replaced 6792-E in its entirety, incorporating some of the Joint Parties' requests as well as clarifying its proposed tariff language that energy storage could be used during a grid outage and for testing purposes and removing the term "microgrid."<sup>12</sup>

## **Discussion**

### *Dismissal of Joint Parties' Request for a Common Special Condition*

The Joint Parties' protest that the utilities' use common language for their special condition (allowing storage for resiliency in their VNEM Tariffs) is dismissed as it relies upon a policy objection. General Order 96b Section 7.4.2 states "a protest may not rely on policy objections." The Joint Protestors did not cite any Commission direction that would necessitate this alignment. D.21-12-031, which prompted the utilities' advice letter filings and only *recommends* that the IOUs update their VNEM tariffs. It does not oblige them to adopt the same language. As such, the utilities' proposals are not required to match, and they were not obligated to act on this part of the protest. Thus, PG&E's proposed tariff language complies with CPUC direction. The Joint Protestors' protest on this matter is dismissed.

### *Supplemental AL 6792-E-A Resolves Remaining Protests*

PG&E's filing of supplemental AL 6792-E-A resolved the remaining protested items by the Joint Parties by amending the proposed language for Special Conditions #5 for NEM2V and #6 for NEM2VMSH and NEM2VSOM. PG&E clarified language that energy storage may be operated in

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<sup>11</sup> Joint Parties Protest at page 2

<sup>12</sup> PGE AL 6792-E-A replaces previous tariff sheets with Sheet Numbers: 55523-E, 55524-E, 55526-E, 55527-E, 55528-E, 55529-E, 55530-E, 55531-E, 55532-E, and 55533-E.

isolation but is not limited to this function. PG&E removed the term “behind-the-meter microgrid” and instead used generic terminology “REGF and battery storage” or “device.”<sup>13</sup> PG&E also states in response to the Joint Parties’ protest, in its supplemental AL that “PG&E affirms its commitment to work with industry stakeholders to leverage the latest technology to provide resiliency for VNEM customers, including further updates to the VNEM tariffs when applicable.”<sup>14</sup> Noting this acquiescence and the tariff modifications in light of the protest, we find the substantial concerns raised by the Joint Protesters are addressed.

In summary, the Joint Parties Protest of PG&E AL 6792-E are resolved by the submittal of 6792-E-A. Energy Division approves PG&E AL 6792-E-A effective March 17, 2023.

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<sup>13</sup> PG&E AL 6792-E-A at page 3

<sup>14</sup> IBID



**Sidney Bob Dietz II**  
Director  
Regulatory Relations

Pacific Gas and Electric Company  
77 Beale St., Mail Code B13U  
P.O. Box 770000  
San Francisco, CA 94177

Fax: 415-973-3582

February 15, 2023

**Advice 6792-E-A**

(Pacific Gas and Electric Company ID U 39 E)

Public Utilities Commission of the State of California

**Subject: Supplemental: Modifications to Pacific Gas & Electric Virtual Net Energy Metering (VNEM) Tariffs**

**Purpose**

This Advice Letter (AL) modifies PG&E VNEM tariffs to clarify that VNEM generators with battery storage may isolate from the grid to provide backup power during grid outages. This clarification is important to enable low-income multi-family facilities access to the Self-Generation Incentive Program (SGIP) Equity Resiliency Budget.

This advice letter supplements PG&E's AL 6792-E submitted on December 15, 2022, replacing it in its entirety, to make a minor modification to the proposed tariff language.

**Background**

Rulemaking (R.) 20-05-12 was initiated to develop and refine policies, procedures, and rules for the Self-Generation Incentive Program (SGIP) to ensure the effectiveness of programs and policies to promote customer renewable generation and energy storage systems in compliance with statute. The rulemaking initially focused on SGIP requirements for behind-the-meter renewable generation.

In Decision (D.) 21-12-031, the Commission allocated approximately \$67 million in accumulated unallocated Self-Generation Incentive Program (SGIP) funds to energy storage budgets. The Decision allocated funds first to energy storage budgets with priority given to waitlisted Equity Resiliency budget, Equity and then General Market applications.

The Decision also directed the three Investor Owned Utilities (IOUs) to undertake every reasonable effort to expedite interconnection of the released waitlisted applications. Specifically, Ordering Paragraph (OP) 2 of the Decision states that “[t]hese efforts shall include, as a priority, Solar on Multifamily Affordable Housing (SOMAH) projects that are awaiting interconnection, including taking all necessary steps to identify utility-approved pathways, and may include, as feasible and as needed, adjusting SOMAH virtual net

metering tariffs to facilitate such interconnections.” Approximately, 10 SOMAH projects totaling 818 kW are on hold, along with 80 standard VNEM projects totaling 5.5 MW in PG&E’s service area.

In December 2022, PG&E submitted AL 6792-E, which was jointly protested, along with corresponding advice letters by San Diego Gas & Electric and Southern California Edison by CALSSA, Ivy Energy and SunPower (Joint Parties). Related to PG&E’s advice letter, the Joint Parties took issue with the term “Behind-the-meter Microgrid” and also wanted acknowledgement from PG&E that there will be further discussion to find alternative ways to provide resiliency within VNEM arrangements.

### **Discussion**

Under the SGIP Handbook requirements, projects must demonstrate isolated operation capabilities to qualify under the Equity Resiliency Incentives, the Resiliency Adder, or the increased discharge duration for Resiliency systems. Specifically, for these categories, SGIP requires that the applicant demonstrates how it “intends to use a switching and isolation technology arrangement allowed under Rule 21 at the time of application to provide for discharging the battery to serve onsite load and to island.”<sup>1</sup>

Solar developers have identified that the SGIP isolated operation requirement is difficult to demonstrate for multifamily VNEM projects because in most VNEM installations, the solar photovoltaic (PV) system components are directly connected to the energy storage (ES) system in order to demonstrate that the ES system is being charged by the PV system, and not from PG&E’s electrical grid, as required under PG&E’s VNEM tariffs.<sup>2</sup> In this configuration of a Behind-the-Meter (BTM) paired PV and ES VNEM system, there is no onsite load behind the system’s generation meter that can be served when in island operation and therefore, has caused delays in some multifamily projects from moving forward in the SGIP incentive application process.

Since the adoption of the Decision, PG&E has collaborated with solar developers, the Energy Division and the other IOUs to explore utility-approved pathways to facilitate the interconnection of waitlisted multifamily projects to be eligible for SGIP while complying with the VNEM requirements. As a result of this collaboration, PG&E has agreed to an industry-supported configuration for multifamily BTM paired PV and ES projects that would meet the operation requirements of both SGIP and the VNEM tariffs. The requirements to qualify for this permitted configuration are described in the proposed tariff language below.

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<sup>1</sup> SGIP Handbook, August 29, 2022 version, pg. 64

<sup>2</sup> Under the definition of a VNEM Paired Storage System in PG&E’s Schedule NEM2VSOM it is stated a storage system must be, “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 definition is also stated in PG&E’s other VNEM tariffs.

PG&E understands that this configuration is allowed to interconnect under the current VNEM tariffs. However, to remove any ambiguity, this advice letter proposes to revise the VNEM tariffs to clarify that BTM generation can be operated in isolation to provide backup/standby services to one or more Benefitting Accounts. This clarification would allow certain projects waitlisted in the Equity Resiliency budget to move forward in the SGIP application process.

In response to the Joint Parties' protest, PG&E believes that the current language proposed in this advice letter appropriately enables resiliency. Concurrently, PG&E affirms its commitment to work with industry stakeholders to leverage the latest technology to provide resiliency for VNEM customers, including further updates to the VNEM tariffs when applicable. Separately, PG&E agrees with the concerns raised about the term "Behind-the-meter Microgrid" and is therefore replacing it as shown below.

### **Tariff Revisions**

PG&E proposes the following modifications to its VNEM tariffs (NEM2V, NEM2VMSH, & NEM2VSOM):

Revision to Generator Account under Applicability:

Addition of language "Except as described in Special Condition 5/6."

Revision to Special Condition 5 (NEM2V) and Special Condition 6 (NEM2VMSH & NEM2VSOM):

b. The REGF and storage device can be operated in isolation to serve loads that are otherwise part of the NEM2V arrangement (i.e., loads associated with any meter that is part of the arrangement during normal, parallel operation) only during grid outages and for testing purposes. Any device supporting isolated operation must be interconnected according to Rule 21 and all PG&E and other applicable standards. All loads to be powered by the REGF and battery storage in isolation mode must be located under the same PG&E delivery point. The isolated operation must be configured such that no load or generation registers on Generating or Benefitting Account meters when operating in isolation.

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

### **Protests**

Anyone wishing to protest this submittal may do so by letter sent electronically via E-mail, no later than March 7, 2023, which is 20 days after the date of this submittal. Protests must be submitted to:

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

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

Sidney Bob Dietz II  
Director, Regulatory Relations  
c/o Megan Lawson  
E-mail: PGETariffs@pge.com

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

### **Effective Date**

Pursuant to General Order (GO) 96-B, Rule 5.2, this advice letter is submitted with a Tier 2 designation. PG&E requests that this Tier 2 advice submittal become effective on regular notice, March 17, 2023, which is 30 calendar days after the date of submittal.

### **Notice**

In accordance with General Order 96-B, Section IV, a copy of this advice letter is being sent electronically to parties shown on the attached list and the parties on the service list for R.14-07-002, A.16-07-015 and R.20-05-012. 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/>.

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/S/

Sidney Bob Dietz II  
Director, Regulatory Relations

### **Attachments:**

Attachment 1: Clean Tariffs  
Attachment 2: Redline Tariff Revisions

cc: Service Lists: R.14-07-002, A.16-07-015, and R.20-05-012



# 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) #: 6792-E-A

Tier Designation: 2

Subject of AL: Supplemental: Modifications to Pacific Gas & Electric Virtual Net Energy Metering (VNEM) Tariffs

Keywords (choose from CPUC listing): Compliance, Self Generation

AL Type:  Monthly  Quarterly  Annual  One-Time  Other:

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

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: 3/17/23

No. of tariff sheets: 11

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 proposed<sup>1</sup>: N/A

Pending advice letters that revise the same tariff sheets: 6682-E-A

<sup>1</sup>Discuss in AL if more space is needed.

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

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

Contact Name: Sidnev Bob Dietz II. c/o Megan Lawson  
Title: Director, Regulatory Relations  
Utility/Entity Name: Pacific Gas and Electric Company  
  
Telephone (xxx) xxx-xxxx:  
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.
55523-E	ELECTRIC SCHEDULE NEM2V VIRTUAL NET ENERGY METERING SERVICE Sheet 1	42589-E
55524-E	ELECTRIC SCHEDULE NEM2V VIRTUAL NET ENERGY METERING SERVICE Sheet 22	44516-E
55525-E	ELECTRIC SCHEDULE NEM2V VIRTUAL NET ENERGY METERING SERVICE Sheet 23	44517-E
55526-E	ELECTRIC SCHEDULE NEM2VMSH VIRTUAL NET ENERGY METERING FOR MULTIFAMILY AFFORDABLE HOUSING (MASH/NSHP) WITH SOLAR GENERATOR(S) Sheet 3	50025-E
55527-E	ELECTRIC SCHEDULE NEM2VMSH VIRTUAL NET ENERGY METERING FOR MULTIFAMILY AFFORDABLE HOUSING (MASH/NSHP) WITH SOLAR GENERATOR(S) Sheet 19	44521-E
55528-E	ELECTRIC SCHEDULE NEM2VMSH VIRTUAL NET ENERGY METERING FOR MULTIFAMILY AFFORDABLE HOUSING (MASH/NSHP) WITH SOLAR GENERATOR(S) Sheet 20	44522-E
55529-E	ELECTRIC SCHEDULE NEM2VMSH VIRTUAL NET ENERGY METERING FOR MULTIFAMILY AFFORDABLE HOUSING (MASH/NSHP) WITH SOLAR GENERATOR(S) Sheet 21	
55530-E	ELECTRIC SCHEDULE NEM2VSOM VIRTUAL NET ENERGY METERING SOLAR ON MULTIFAMILY AFFORDABLE HOUSING (SOMAH) PROPERTIES Sheet 2	42117-E
55531-E	ELECTRIC SCHEDULE NEM2VSOM VIRTUAL NET ENERGY METERING SOLAR ON MULTIFAMILY AFFORDABLE HOUSING (SOMAH) PROPERTIES Sheet 18	42133-E
55532-E	ELECTRIC TABLE OF CONTENTS Sheet 1	54809-E
55533-E	ELECTRIC TABLE OF CONTENTS Sheet 7	55048-E



**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-meter<sup>1</sup> 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)<sup>2</sup>, 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 (except as described in Special Condition 6); and (T)
- 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<sup>3,4</sup> rate schedule
- 4) does not participate in another virtual net energy metering program or the RES-BCT program.

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

<sup>2</sup> 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.

<sup>3</sup> 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.

<sup>4</sup> 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 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. Isolated Operation

The REGF and storage device can be operated in isolation to serve loads that are otherwise part of the NEM2V arrangement (i.e., loads associated with any meter that is part of the arrangement during normal, parallel operation) only during grid outages and for testing purposes. Any device supporting isolated operation must be interconnected according to Rule 21 and all PG&E and other applicable standards. All loads to be powered by the REGF and battery storage in isolation mode must be located under the same PG&E delivery point. The isolated operation must be configured such that no load or generation registers on Generating or Benefiting Account meters when operating in isolation.

(N)  
|  
(N)

c. Interconnection Cost

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

(T)

d. 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.

(T)

7. Natural or Man-Made Disasters

NEM2V Transition Eligible Customers impacted by a Natural or Man-Made disaster<sup>8</sup> 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.

(L)  
|  
(L)

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

(Continued)



**ELECTRIC SCHEDULE NEM2V**  
**VIRTUAL NET ENERGY METERING SERVICE**

Sheet 23

SPECIAL  
CONDITIONS:  
(Cont'd.)

7. Natural or Man-Made Disasters (Cont.)

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.

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(L)

When the Generator account in the NEM2V Arrangement is impacted by a Natural or Man-Made Disaster, PG&E will true-up the NEM2V Arrangement pursuant to Special Condition 3.i., and Net Surplus Compensation will be issued, if any, pursuant to Special Condition 5 up to the date of the Natural or Man-Made disaster. If the Generator Account is not impacted while one or more of the benefitting accounts are, a True-Up will only occur for the impacted accounts, and PG&E will continue to bill the remaining<sup>9</sup> accounts on NEM2V, unless requested by the Owner. Any other Owner-requested changes to the NEM2V Arrangement beyond being impacted by a Natural or Man-Made Disaster will be in accordance with Special Condition 3.h.

The intervening period from destruction of the generator(s) to permission to operate (PTO) of the replacement generator(s) must be no longer than two years, unless reasonable documentation acceptable to PG&E is provided showing that the new interconnection is in process.

This provision is only available if the PG&E customer of record listed on the Generator Account on the new NEM2V Arrangement is the same Owner as was listed on the original NEM2V Arrangement. If the generator(s) is not replaced by the same NEM2V Owner, but the property is sold to a new owner after the destruction of the generator(s), this provision does not extend to the new owner. The new owner must apply for interconnection and take service under an applicable net energy metering tariff in effect at the time and is subject to all the requirements of a new customer seeking interconnection for that net energy metering tariff.

Customers impacted by Natural or Man-Made Disasters who meet the requirements included in this Special Condition and whose aggregate replacement system(s) is sized no greater than 1 megawatt (MW)<sup>10</sup> are exempt from the interconnection application fee when reapplying.

Owners impacted by Natural or Man-Made Disasters must comply with all requirements associated with the installation of Smart Inverter technology, as defined in Electric Rule 21.

<sup>9</sup> PG&E will proactively bill the remaining benefitting accounts on NEM2V when there are at least two benefitting accounts. When only benefitting accounts are impacted, Owners do not need to submit an interconnection application to enact this provision, unless requested by PG&E.

<sup>10</sup> As defined in Special Condition 4.

(Continued)



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

Sheet 3

**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.)

**Account Types** – Three types of Accounts in an Eligible Low Income Facility are covered by this tariff:

- a. **Generator Account** – the Account(s) where the solar photovoltaic generation (Solar Generating Facilities<sup>2</sup>) are interconnected and for which the Eligible Low Income Facility owner or a party they designate (“Owner”), is the PG&E Customer. Except as described in Special Condition 5, the Generator Account must have no load other than that required by the Solar Generating Facility itself and must not be included as part of a Common Area Account.
- b. **Common Area Account** – each load-only Account for a common area, if any, and for which the Owner is the PG&E Customer.
- c. **Residential Unit Account** – each load-only account for a residential unit located in the Eligible Low Income Facility, and for which an occupant is the PG&E Customer.

(T)

Any Account that includes load, except one that includes only Solar Generating Facility load or as otherwise provided in NEM2VMSH, is referred to as a “Load Account”. All accounts must take service on a time of use (TOU) rate schedule.<sup>3,4</sup>

The Generator Account(s), the Common Area Accounts(s) and the Residential Accounts will be referred to collectively in this tariff as a “NEM2VMSH Arrangement.”

Customers may continue to take service on this tariff for up to 20 years from the date of the original interconnection of their Renewable Electrical Generation Facility subject to Commission jurisdiction if the NEM2VMSH Arrangement is not terminated. As provided in D.14-03-41, any customer that switches from the NEMVMSH tariff may remain on this tariff for 20 years from the original year of the interconnection of their Solar Generating Facility.

<sup>2</sup> 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 Solar Generating Facilities with storage (NEM2VMSH Storage), please see Special Condition 5.

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

<sup>4</sup> Customers, including those at Residential Unit Accounts, switching from Schedule NEMVMASH to this NEM2VMSH are required to take any applicable TOU rate, beginning at the time the customer switched to the NEM2VMSH successor tariff, pursuant to D.14-03-041 and D.16-01-033. 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 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. Isolated Operation

The REGF and storage device can be operated in isolation to serve loads that are otherwise part of the NEM2VMSH arrangement (i.e., loads associated with any meter that is part of the arrangement during normal, parallel operation.) only during grid outages and for testing purposes. Any device supporting isolated operation must be interconnected according to Rule 21 and all PG&E and other applicable standards. All loads to be powered by the REGF and battery storage in isolation mode must be located under the same PG&E delivery point. The isolated operation must be configured such that no load or generation registers on Generating or Benefiting Account meters when operating in isolation

(N)  
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(N)

c. Interconnection Cost

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

(T)

d. 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.

(T)

6. Natural or Man-Made Disasters

NEM2VMSH Transition Eligible Customers impacted by a Natural or Man-Made disaster<sup>6</sup> 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.

(L)  
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(L)

<sup>6</sup> 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 20

SPECIAL  
CONDITIONS:  
(Cont'd.)

6. Natural or Man-Made Disasters (Cont.)

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.

(L)  
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(L)

When the Generator account(s) in the NEM2VMSH Arrangement is impacted by a Natural or Man-Made Disaster, PG&E will true-up the NEM2VMSH Arrangement pursuant to Special Condition 2.g., and Net Surplus Compensation will be issued, if any, pursuant to Special Condition 4 up to the date of the Natural or Man-Made disaster. If the Generator Account(s) is not impacted while one or more of the Load Accounts are, a True-Up will only occur for the impacted accounts, and PG&E will continue to bill the remaining<sup>7</sup> Load Accounts on NEM2VMSH, unless requested by the Owner. Any other Owner-requested changes to the NEM2VMSH Arrangement beyond being impacted by a Natural or Man-Made Disaster will be in accordance with Special Condition 2.b.

The intervening period from destruction of the generator(s) to permission to operate (PTO) of the replacement generator(s) must be no longer than two years, unless reasonable documentation acceptable to PG&E is provided showing that the new interconnection is in process.

Although, the initial five-year period for fixed allocation described in Special Condition 2.b. does not pause, the ratio of the percentage of Annual Solar Energy Credits allocated to the Common Area Account(s) versus the Residential Unit Accounts on the new NEM2VMSH Arrangement must be at least the same as the original NEM2VMSH Arrangement. This requirement does not apply if the five-year period has expired prior to the reapplication process, unless otherwise specified by incentive program rules<sup>8</sup>.

(L)  
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(L)

<sup>7</sup> PG&E will proactively bill the remaining benefitting accounts on NEM2VMSH when there are at least two benefitting accounts. When only benefitting accounts are impacted, Owners do not need to submit an interconnection application to enact this provision, unless requested by PG&E

<sup>8</sup> Per MASH Program rules, properties that receive 1D incentives are required to ensure that tenants receive at least 50% of economic benefit of allocated generation.



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

Sheet 21

SPECIAL  
CONDITIONS:  
(Cont'd.)

6. Natural or Man-Made Disasters (Cont.)

This provision is only available if (i) the PG&E customer of record listed on the Generator Account on the new NEM2VMSH Arrangement is the same Owner as was listed on the original NEM2VMSH Arrangement and (ii) the new NEM2VMSH Arrangement still meets the definition of an "Eligible Low Income Development". If the generator(s) is not replaced by the same NEM2VMSH Owner, but the property is sold to a new owner after the destruction of the generator(s), this provision does not extend to the new owner. The new owner must apply for interconnection and take service under an applicable net energy metering tariff in effect at the time and is subject to all the requirements of a new customer seeking interconnection for that net energy metering tariff.

Customers impacted by Natural or Man-Made Disasters who meet the requirements included in this Special Condition and whose aggregate replacement system(s) is sized no greater than 1 megawatt (MW)<sup>9</sup> are exempt from the interconnection application fee when reapplying.

Owners impacted by Natural or Man-Made Disasters must comply with all requirements associated with the installation of Smart Inverter technology, as defined in Electric Rule 21.

(L)

(L)

<sup>9</sup> As defined in Special Condition 3.

(Continued)



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

Sheet 2

APPLICABILITY: NEM2VSOM is available to Customers with an Eligible Low Income Development (Cont'd.) that provide PG&E with:

- a. a completed NEM2VSOM application and interconnection agreement as described in Special Condition 3, including all supporting documents and required payments; AND
- b. evidence of the final inspection clearance from the governmental authority having jurisdiction over the ESGF;

until all funds available for the incentives have been allocated.

Once all the available funds have been allocated, Schedule NEM2VSOM will be closed to new customers.

**Generator Size** – Size the generator(s) no larger than for the energy requirements of all eligible account types of the past year for existing housing and estimated requirements of new housing. Specific size limit details will be determined by the SOMAH handbook. These generator size limits apply to all Eligible Low Income Developments whether they actually receive incentives or not.

**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.

**Account Types** – Three types of Accounts in an Eligible Low Income Development are covered by this tariff:

- a. Generator Account – the Account(s) where the ESGF are interconnected and for which the Eligible Low Income Development owner or a party they designate (“Owner”), is the PG&E Customer. Except as described in Special Condition 5, the Generator Account must have no load other than that required by the ESGF itself and must not be included as part of a Common Area Account. (T)
- b. Common Area Account – each load-only Account for a common area, if any, and for which the Owner is the PG&E Customer. (T)
- c. Residential Unit Account – each load-only account for a residential unit located in the Eligible Low Income Development, and for which an occupant is the PG&E Customer.

Any Account that includes load, except one that includes only ESGF load or as otherwise provided in NEM2VSOM, is referred to as a “Customer Load Account”. All Common Area accounts must take service on a time of use (TOU) rate schedule.<sup>3</sup>

The Generator Account and the Benefitting Accounts will be referred to collectively in this tariff as a “NEM2VSOM Arrangement.”

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

(Continued)



**ELECTRIC SCHEDULE NEM2VSOM**

Sheet 18

**VIRTUAL NET ENERGY METERING SOLAR ON MULTIFAMILY AFFORDABLE HOUSING (SOMAH) PROPERTIES**

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. Isolated Operation

The ESGF and storage device can be operated in isolation to serve loads that are otherwise part of the NEM2VSOM arrangement (i.e., loads associated with any meter that is part of the arrangement during normal, parallel operation.) only during grid outages and for testing purposes. Any device supporting isolated operation must be interconnected according to Rule 21 and all PG&E and other applicable standards. All loads to be powered by the ESGF and battery storage in isolation mode must be located under the same PG&E delivery point. The isolated operation must be configured such that no load or generation registers on Generating or Benefiting Account meters when operating in isolation.

(N)  
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(N)

c. Interconnection Cost

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

(T)

d. 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)



**ELECTRIC TABLE OF CONTENTS**

Sheet 1

**TABLE OF CONTENTS**

<b>SCHEDULE</b>	<b>TITLE OF SHEET</b>	<b>CAL P.U.C. SHEET NO.</b>	
Title Page.....		<b>55532-E</b>	(T)
Rate Schedules.....	52763,52764,54810,52766,52767, <b>55533</b> ,52769,49654,52770-E		(T)
Preliminary Statements.....	52771,48064,54811,41723,49327,54450,54433-E		
Preliminary Statements, Rules.....		54808-E	
Rules .....		52474,48369-E	
Maps, Contracts and Deviations.....		37960-E	
Sample Forms.....	47207,49743,49301,54490, 49303,49304,		
.....	51241,51242,49307,5479249309,49310,49311-E		

(Continued)

Advice 6792-E-A  
Decision

Issued by  
**Meredith Allen**  
Vice President, Regulatory Affairs

Submitted  
Effective  
Resolution

February 15, 2023



**ELECTRIC TABLE OF CONTENTS**

Sheet 7

SCHEDULE	TITLE OF SHEET	CAL P.U.C. SHEET NO.
<b>Rate Schedules Other</b>		
NEM2V	Virtual Net Energy Metering Service .....	55523,47343*,47181,37828,42045,37890, (T)
	..... 37831,37832,42046,42047,37835,37836,48535,37838,	
	..... 42048,37840,42049,37842,37843,47182,37845,55524,55525-E	(T)
NEMVMASH	Net Energy Metering – Virtual Net Energy Metering .....	47185,33922*,47186,44525,
	..... 33924,33925,31630,36567,31632,31633,36568,	
	..... 31635,44526,31637,47187,31639,42066,47188,44528-E	
NEM2VMSH	Virtual Net Energy Metering For Multifamily Affordable Housing (MASH/NSHP)	
	With Solar Generator(s) .....	44518,42595,55526,37850,46197,42598,38176,38177,42599, (T)
	..... 42600,38178,37858,37859,37860,44520,38179,37863,42053,55527,55528,55529-E	(T)
NEM2VSOM	Virtual Net Energy Metering Solar on Multifamily Affordable Housing (SOMAH) Properties .....	42116,55530,42118,42119,42120,42668,47183,42123,42124, (T)
	..... 42125,42126,42127,42128,46740,42130,42131,42132,55531-E	(T)
E-ERA	Energy Rate Adjustments.....	52394,44102,44103,44104-E
RES-BCT	Schedule for Local Government Renewable Energy	
	Self-Generation Bill Credit Transfer.....	47189,37783,37784,37785,37786,
	..... 37787,37788,37789,37790,37791,52982-E	
E-OBF	On-Bill Financing Balance Account (OBFA) .....	44030, 44031, 44032-E
E-OB	On-Bill Repayment (OBR) Pilots .....	54783, 54784, 54785, 54786, 54787, 54788, 54789-E
E-SOP	Residential Electric SmartMeter™ Opt-Out Program .....	35105,47169-E
PEVSP	Plug-In Electric Vehicle Submetering Pilot – Phase 1 .....	40158,35261,34249,40159,35263-E
PEVSP 2	Plug-In Electric Vehicle Submetering Pilot – Phase 2 .....	37688,37689,37690,37691
	..... 37692,37693,37694,37695,37696,37697,37698-E	
E-CMET	Community Microgrid Enablement Tariff .....	54454,54455,54456,54457,54458,54459,54460
	..... 49639,54461,54462,54463,54464,54465,54466-E	
E-BTMM	Behind-the-Meter Microgrids .....	49666,49667,49668,49669-E
<b>Rate Schedules Agricultural</b>		
AG	Time-of-Use Agricultural Power .....	48519,54822,48913, 54874, 54875,54876,
	..... 48917,48918,52959,53335,54877,52962,	
	..... 52963,52964,52965,52966-E	
AG-1	Agricultural Power .....	48927,48928,48929,48930, 54878, 54879,
	.....54880,53340,53341,54881,53343-E	
AG-R	Split-Week Time-of-Use Agricultural Power .....	48971,48972,48973,52609,
	..... 52610,54896, 54897, 54898,53362,53363,53364,53365,54899,53367-E	
AG-V	Short-Peak Time-of-Use Agricultural Power.....	48979,48980,48981,52614,
	..... 48983, 54900, 54901, 54902,53371,53372,53373,53374, 54903,53376-E	
AG-4	Time-of-Use Agricultural Power .....	48934,48935,48936,52593,48938,
	..... 54882, 54883,54004,48942,48943,48944,51991,	
	..... 54885,48947-E	
AG-5	Large Time-of-Use Agricultural Power .....	48948,48949,48950,52598,48952, 54886,
	..... 54887, 54888, 54889, 54890,45824,45825,45826,45827,	
	..... 53353,5489146446,48959-E	
AG-F	Flexible Off-Peak Time-of-Use Agricultural Power .....	46232,54823,48961,48962, 54892,
	.....54893, 54894,48966,48967,48968, 54895,07330,48970-E	

(Continued)

Advice 6792-E-A  
February 15, 2022

## **Attachment 2**

### **Redline Tariff Revisions**



**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-meter<sup>1</sup> 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)<sup>2</sup>, 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 (except as described in Special Condition 6); 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<sup>3,4</sup> rate schedule
  - 4) does not participate in another virtual net energy metering program or the RES-BCT program.

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

<sup>2</sup> 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.

<sup>3</sup> 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.

<sup>4</sup> 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 NEM2VMSH**  
VIRTUAL NET ENERGY METERING FOR MULTIFAMILY  
AFFORDABLE HOUSING (MASH/NSHP) WITH SOLAR GENERATOR(S)

Sheet 3

**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.)

**Account Types** – Three types of Accounts in an Eligible Low Income Facility are covered by this tariff:

- a. **Generator Account** – the Account(s) where the solar photovoltaic generation (Solar Generating Facilities<sup>2</sup>) are interconnected and for which the Eligible Low Income Facility owner or a party they designate (“Owner”), is the PG&E Customer. **Except as described in Special Condition 5,** the Generator Account must have no load other than that required by the Solar Generating Facility itself and must not be included as part of a Common Area Account.
- b. **Common Area Account** – each load-only Account for a common area, if any, and for which the Owner is the PG&E Customer.
- c. **Residential Unit Account** – each load-only account for a residential unit located in the Eligible Low Income Facility, and for which an occupant is the PG&E Customer.

Any Account that includes load, except one that includes only Solar Generating Facility load or as otherwise provided in NEM2VMSH, is referred to as a “Load Account”. All accounts must take service on a time of use (TOU) rate schedule.<sup>3,4</sup>

The Generator Account(s), the Common Area Accounts(s) and the Residential Accounts will be referred to collectively in this tariff as a “NEM2VMSH Arrangement.”

Customers may continue to take service on this tariff for up to 20 years from the date of the original interconnection of their Renewable Electrical Generation Facility subject to Commission jurisdiction if the NEM2VMSH Arrangement is not terminated. As provided in D.14-03-41, any customer that switches from the NEMVMSH tariff may remain on this tariff for 20 years from the original year of the interconnection of their Solar Generating Facility.

<sup>2</sup> 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 Solar Generating Facilities with storage (NEM2VMSH Storage), please see Special Condition 5.

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

<sup>4</sup> Customers, including those at Residential Unit Accounts, switching from Schedule NEMVMASH to this NEM2VMSH are required to take any applicable TOU rate, beginning at the time the customer switched to the NEM2VMSH successor tariff, pursuant to D.14-03-041 and D.16-01-033. 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 NEM2VMSH**  
VIRTUAL NET ENERGY METERING FOR MULTIFAMILY  
AFFORDABLE HOUSING (MASH/NSHP) WITH SOLAR GENERATOR(S)

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. Isolated Operation

The REGF and storage device can be operated in isolation to serve loads that are otherwise part of the NEM2VMSH arrangement (i.e., loads associated with any meter that is part of the arrangement during normal, parallel operation-) only during grid outages and for testing purposes. Any device supporting isolated operation must be interconnected according to Rule 21 and all PG&E and other applicable standards. All loads to be powered by the REGF and battery storage in isolation mode must be located under the same PG&E delivery point. The isolated operation must be configured such that no load or generation registers on Generating or Benefiting Account meters when operating in isolation.

cb. Interconnection Cost

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

de. 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 disaster<sup>6</sup> 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:

<sup>6</sup> 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 19

- (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.

(Continued)

*Advice* 5568-E  
*Decision*

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

<i>Submitted</i>	June 21, 2019
<i>Effective</i>	July 21, 2019
<i>Resolution</i>	



**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 (DIH)—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. Isolated Operation

The REGF and storage device can be operated in isolation to serve loads that are otherwise part of the NEM2V arrangement (i.e., loads associated with any meter that is part of the arrangement during normal, parallel operation) only during grid outages and for testing purposes. Any device supporting isolated operation must be interconnected according to Rule 21 and all PG&E and other applicable standards. All loads to be powered by the REGF and battery storage in isolation mode must be located under the same PG&E delivery point. The operation must be configured such that no load or generation registers on Generating or Benefiting Account meters when operating in isolation.

~~c~~. Interconnection Cost

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

~~d~~. 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 disaster<sup>1</sup> 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

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

(Continued)



**ELECTRIC SCHEDULE NEM2V**  
VIRTUAL NET ENERGY METERING SERVICE

Sheet 22

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.

(Continued)

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Decision

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Vice President, Regulatory Affairs

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Resolution



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

Sheet 2

(N)  
(N)  
(N)

APPLICABILITY: NEM2VSOM is available to Customers with an Eligible Low Income Development that provide PG&E with:  
(Cont'd.)

- a. a completed NEM2VSOM application and interconnection agreement as described in Special Condition 3, including all supporting documents and required payments; AND
- b. evidence of the final inspection clearance from the governmental authority having jurisdiction over the ESGF;

until all funds available for the incentives have been allocated.

Once all the available funds have been allocated, Schedule NEM2VSOM will be closed to new customers.

**Generator Size** – Size the generator(s) no larger than for the energy requirements of all eligible account types of the past year for existing housing and estimated requirements of new housing. Specific size limit details will be determined by the SOMAH handbook. These generator size limits apply to all Eligible Low Income Developments whether they actually receive incentives or not.

**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.

**Account Types** – Three types of Accounts in an Eligible Low Income Development are covered by this tariff:

- a. Generator Account – the Account(s) where the ESGF are interconnected and for which the Eligible Low Income Development owner or a party they designate (“Owner”), is the PG&E Customer. Except as described in Special Condition 5, the Generator Account must have no load other than that required by the ESGF itself and must not be included as part of a Common Area Account.
- b. Common Area Account – each load-only Account for a common area, if any, and for which the Owner is the PG&E Customer.
- c. Residential Unit Account – each load-only account for a residential unit located in the Eligible Low Income Development, and for which an occupant is the PG&E Customer.

Any Account that includes load, except one that includes only ESGF load or as otherwise provided in NEM2VSOM, is referred to as a “Customer Load Account”. All Common Area accounts must take service on a time of use (TOU) rate schedule.<sup>3</sup>

The Generator Account and the Benefitting Accounts will be referred to collectively in this tariff as a “NEM2VSOM Arrangement.”

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

(Continued)

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**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. Isolated Operation

The ESGF and storage device can be operated in isolation to serve loads that are otherwise part of the NEM2VSOM arrangement (i.e., loads associated with any meter that is part of the arrangement during normal, parallel operation-) only during grid outages and for testing purposes. Any device supporting isolated operation must be interconnected according to Rule 21 and all PG&E and other applicable standards. All loads to be powered by the ESGF and battery storage in isolation mode must be located under the same PG&E delivery point. The isolated operation must be configured such that no load or generation registers on Generating or Benefiting Account meters when operating in isolation.

ec. Interconnection Cost

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

de. 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.

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

AT&T  
Albion Power Company

Alta Power Group, LLC  
Anderson & Poole

Atlas ReFuel  
BART

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

California Hub for Energy Efficiency  
Financing

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

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

Chevron Pipeline and Power  
City of Palo Alto

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

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

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

GenOn Energy, Inc.  
Green Power Institute  
Hanna & Morton  
ICF

iCommLaw  
International Power Technology  
Intertie

Intestate Gas Services, Inc.

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

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

Modesto Irrigation District  
NLine Energy, Inc.  
NRG Solar

OnGrid Solar  
Pacific Gas and Electric Company  
Peninsula Clean Energy

Pioneer Community Energy

Public Advocates Office

Redwood Coast Energy Authority  
Regulatory & Cogeneration Service, Inc.

Resource Innovations

SCD Energy Solutions  
San Diego Gas & Electric Company

SPURR  
San Francisco Water Power and Sewer  
Sempra Utilities

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

Tecogen, Inc.  
TerraVerde Renewable Partners  
Tiger Natural Gas, Inc.

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