

December 15, 2022

**Advice 6792-E**

(Pacific Gas and Electric Company ID U 39 E)

Public Utilities Commission of the State of California

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

**Purpose**

This Advice Letter modifies PG&E VNEM tariffs to clarify that VNEM generators and 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.

**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 818kW are on hold, along with 80 standard VNEM projects totaling 5.5MW in PG&E territory.

## **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.

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.

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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.

**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. 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 behind-the-meter microgrid must be configured such that no load or generation registers on Generating or Benefiting 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 January 4, 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, January 14, 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/>.

/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

Tier Designation: 2

Subject of AL: 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: 1/14/23

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.
54837-E	ELECTRIC SCHEDULE NEM2V VIRTUAL NET ENERGY METERING SERVICE Sheet 1	42589-E
54838-E	ELECTRIC SCHEDULE NEM2V VIRTUAL NET ENERGY METERING SERVICE Sheet 22	44516-E
54839-E	ELECTRIC SCHEDULE NEM2V VIRTUAL NET ENERGY METERING SERVICE Sheet 23	44517-E
54840-E	ELECTRIC SCHEDULE NEM2VMSH VIRTUAL NET ENERGY METERING FOR MULTIFAMILY AFFORDABLE HOUSING (MASH/NSHP) WITH SOLAR GENERATOR(S) Sheet 3	50025-E
54841-E	ELECTRIC SCHEDULE NEM2VMSH VIRTUAL NET ENERGY METERING FOR MULTIFAMILY AFFORDABLE HOUSING (MASH/NSHP) WITH SOLAR GENERATOR(S) Sheet 19	44521-E
54842-E	ELECTRIC SCHEDULE NEM2VMSH VIRTUAL NET ENERGY METERING FOR MULTIFAMILY AFFORDABLE HOUSING (MASH/NSHP) WITH SOLAR GENERATOR(S) Sheet 20	44522-E
54843-E	ELECTRIC SCHEDULE NEM2VMSH VIRTUAL NET ENERGY METERING FOR MULTIFAMILY AFFORDABLE HOUSING (MASH/NSHP) WITH SOLAR GENERATOR(S) Sheet 21	
54844-E	ELECTRIC SCHEDULE NEM2VSOM VIRTUAL NET ENERGY METERING SOLAR ON MULTIFAMILY AFFORDABLE HOUSING (SOMAH) PROPERTIES Sheet 2	42117-E
54845-E	ELECTRIC SCHEDULE NEM2VSOM VIRTUAL NET ENERGY METERING SOLAR ON MULTIFAMILY AFFORDABLE HOUSING (SOMAH) PROPERTIES Sheet 18	42133-E
54846-E	ELECTRIC TABLE OF CONTENTS Sheet 1	54827-E
54847-E	ELECTRIC TABLE OF CONTENTS Sheet 7	54829-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. Behind-the-Meter Microgrid

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. 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 behind-the-meter microgrid 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 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.

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<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.

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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. Behind-the-Meter Microgrid

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. 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 behind-the-meter microgrid must be configured such that no load or generation registers on Generating or Benefiting Account meters when operating in isolation

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(N)

c. Interconnection Cost

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

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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.

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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.

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<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.

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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>.

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<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)

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<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**  
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. Behind-the-Meter Microgrid

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. 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 behind-the-meter microgrid 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 NEM2VSOM Storage. The storage device size is determined by the inverter alternating current nameplate rating.

(T)



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Sheet 1

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Advice 6792-E  
Decision

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

Submitted  
Effective  
Resolution

December 15, 2022



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Sheet 7

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(Continued)

Advice 6792-E  
December 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 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. Behind-the-Meter Microgrid

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. 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 behind-the-meter microgrid 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 generate no more than the 12 months of historic, or estimated usage

<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

(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)

*Advice* 5568-E  
*Decision*

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

*Submitted*  
*Effective*  
*Resolution*

June 21, 2019  
July 21, 2019



**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. Behind-the-Meter Microgrid

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. 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 behind-the-meter microgrid 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:

- (i) be in accordance with incentive program rules in effect at the time of submitting the interconnection application,

<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

- (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

Submitted	June 21, 2019
Effective	July 21, 2019
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)

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



**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. Behind-the-Meter Microgrid

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. 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 behind-the-meter microgrid 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	East Bay Community Energy Ellison Schneider & Harris LLP Engineers and Scientists of California	Pioneer Community Energy
Alta Power Group, LLC Anderson & Poole	GenOn Energy, Inc. Goodin, MacBride, Squeri, Schlotz & Ritchie Green Power Institute Hanna & Morton ICF	Public Advocates Office Redwood Coast Energy Authority Regulatory & Cogeneration Service, Inc.
Atlas ReFuel BART	iCommLaw International Power Technology Intertie	Resource Innovations SCD Energy Solutions San Diego Gas & Electric Company
Barkovich & Yap, Inc. Braun Blaising Smith Wynne, P.C. California Cotton Ginners & Growers Assn California Energy Commission	Intestate Gas Services, Inc.	SPURR San Francisco Water Power and Sewer Sempra Utilities
California Hub for Energy Efficiency Financing	Johnston, Kevin Kelly Group Ken Bohn Consulting Keyes & Fox LLP Leviton Manufacturing Co., Inc.	Sierra Telephone Company, Inc. Southern California Edison Company Southern California Gas Company Spark Energy Sun Light & Power Sunshine Design Stoel Rives LLP
California Alternative Energy and Advanced Transportation Financing Authority California Public Utilities Commission Calpine	Los Angeles County Integrated Waste Management Task Force MRW & Associates Manatt Phelps Phillips Marin Energy Authority McClintock IP McKenzie & Associates	Tecogen, Inc. TerraVerde Renewable Partners Tiger Natural Gas, Inc.
Cameron-Daniel, P.C. Casner, Steve Center for Biological Diversity	Modesto Irrigation District NLine Energy, Inc. NRG Solar	TransCanada Utility Cost Management Utility Power Solutions Water and Energy Consulting Wellhead Electric Company Western Manufactured Housing Communities Association (WMA) Yep Energy
Chevron Pipeline and Power City of Palo Alto	OnGrid Solar Pacific Gas and Electric Company Peninsula Clean Energy	
City of San Jose Clean Power Research Coast Economic Consulting Commercial Energy Crossborder Energy Crown Road Energy, LLC Davis Wright Tremaine LLP Day Carter Murphy		
Dept of General Services Don Pickett & Associates, Inc. Douglass & Liddell Dish Wireless L.L.C.		