

PUBLIC UTILITIES COMMISSION

505 VAN NESS AVENUE
SAN FRANCISCO, CA 94102-3298



June 12, 2009

Advice Letter 3422-E-A

Brian K. Cherry
Vice President, Regulatory Relations
Pacific Gas and Electric Company
77 Beale Street, Mail Code B10C
P.O. Box 770000
San Francisco, CA 94177

Subject: Supplement – Establishment of Schedule NEMVNMA – Virtual Net Energy Metering (VNM) Service for Individually Metered Residential Units and Owners with Housing Receiving Incentives from the Multifamily Affordable Solar Housing (MASH) Program or the New Solar Homes Partnership Program (NSHP) Affordable Housing

Dear Mr. Cherry:

Advice Letter 3422-E-A is effective June 8, 2009.

Sincerely,

A handwritten signature in blue ink, appearing to read "Julie A. Fitch".

Julie A. Fitch, Director
Energy Division



February 13, 2009

Advice 3422-E

(Pacific Gas and Electric Company ID U 39 E)

Public Utilities Commission of the State of California (CPUC)

Subject: Establishment of Schedule NEMVNM—Virtual Net Energy Metering (VNM) Service for Individually Metered Residential Units and Owners with Housing Receiving Incentives from the Multifamily Affordable Solar Housing (MASH) Program or the New Solar Homes Partnership Program (NSHP) Affordable Housing

Pacific Gas and Electric Company (PG&E) hereby submits for filing new electric tariffs, in compliance with California Public Utilities Code section 2827 and CPUC Decision (D.) 08-10-036.

Purpose

PG&E requests approval of a new electric rate schedule, *Net Energy Metering - Virtual Net Energy Metering* (NEMVNM), to comply with California Public Utilities Commission (CPUC) D.08-10-036. The new tariff will be made available to new or existing multifamily low income or affordable housing facilities that include an on-site, central solar generating facility. The tariff provides a means to “virtually” net energy metering its individually metered, residential units and common area(s). To be eligible for this tariff, multifamily facilities must receive incentives under the California Solar Initiative (CSI) Multifamily Affordable Solar Housing (MASH) program or CSI New Solar Homes Partnership program. In addition to the new rate schedule PG&E also proposes new electric form, Form 79-1109.

Background

In 2005 and 2006, the CPUC together with the California Energy Commission (CEC) and state legislature established the \$2.17 billion California Solar Initiative (CSI) program. As a part of the CSI program, at least 10% of overall CSI funds were set aside for low-income residential housing. A budget of \$217 million for

low-income solar incentives was established; where 50% of this amount (\$108 million) was designated for low-income single family homes and 50% (\$108 million) for multifamily affordable solar homes. In 2008, the CPUC issued D.08-10-036 directing PG&E, Southern California Edison Company (SCE) and San Diego Gas and Electric Company (SDG&E) to file a tariff for Virtual Net Metering (VNM) and CSI administrators to implement the Multifamily Affordable Solar Housing (MASH) incentive program.

The VNM tariff ordered by D.08-10-036 is to be based largely on the state's existing solar net energy metering program as defined in Public Utilities (PU) Code section 2827, but the program was expanded to include multifamily facilities where the residential units are individually metered by the utility (as opposed to master metered multifamily facilities). The state's existing net energy metering program was created by passage of Senate Bill 656 in 1996, establishing PU Code section 2827.

Since its inception, the net energy metering program has gone through numerous legislative modifications. Throughout these changes, PU Code section 2827(b) has included one concept, which defines an eligible customer-generator as a customer who installed a generator "that is located on their premises" with intent of primarily being able "to offset part or all of their own electrical requirements." In 2002, Assembly Bill 58 modified this language to add "owned, leased or rented premises." Since the creation of the net energy metering program, only an account that had its own interconnected solar generator, serving on-account load, was deemed as satisfying this requirement.

In D.08-10-036, the CPUC expanded on this concept. The decision concluded, "*It is reasonable to allow a solar energy generating facility on a multifamily affordable housing property to offset usage by tenants through VNM*" even though the generator was not interconnected on a tenant's unit, per se. The CPUC supported this idea "*because the tenant uses a solar generating facility on property she rents to offset her electricity usage.*" (D.08-10-036, Section 8.2 paragraph 8 or page 33 and 34)

Following the issuance of D.08-10-036, the CPUC and the Investor Owned Utilities (IOUs) held a public workshop on January 8, 2009, where the IOUs presented a summary of the proposed tariff. Afterwards, informal comments were solicited from the participants and the public in general and posted on the CPUC's website. Recommendations were considered by PG&E, and to the extent they were within the framework of D.08-10-036, some modifications were made to the tariff.

Tariff

Rate Schedule NEMVNM – Net Energy Metering for Virtual Net Energy Metering

In response to D.08-10-036 Ordering Paragraph (OP) 5, “*each utility’s proposed tariff shall comply with the requirements set forth in Appendix B of this order*”, PG&E prepared this tariff in compliance with Appendix B of D.08-10-036, which requires that the tariff specifically:

- *Allow for the allocation of net energy metering benefits from a single solar energy system to all meters on an individually metered multifamily affordable housing property, without adversely impacting building tenants.*
- *Allow the building owner/manager to determine the percentage of solar energy credits allocated to common area meters versus individual tenant meters, and this allocation shall remain fixed for at least five years.*
- *The annual solar energy credits allocated to the common area and to each of the tenant meters may not exceed the associated estimated load (in kilowatt hours) for the coming year.*
- *The percentage of solar energy credits (in kilowatt hours) allocated to individual tenant meters should be credited across all individual meters based on the relative size of the tenant’s unit. Credits (in dollars) should be applied at the otherwise applicable rate for each meter.*
- *The building owner/manager shall be responsible for, and shall bear all costs associated with, installing a generator output meter capable of recording solar energy system output in fifteen minute increments, if required, to insure appropriate customer credits.*
- *Excess credits should be carried forward monthly according to standard NEM rules, as set forth in § 2827.*
- *The VNM tariff may not apply any additional charges or administration fees on tenants who benefit from the VNM tariff.*

PG&E’s attached new rate schedule, NEMVNM is included here to satisfy these requirements.

Rate Schedule NEMVNM, as filed, is only available to PG&E bundled service customers. Because of the complexity of implementing the NENVNM program with mixed commodity service providers, PG&E proposes having an additional workshop with the CPUC to work through the issues involved, and to help assure consistency between the utilities. PG&E will file a supplemental advice letter or new advice letter (if Advice 3422-E has been approved) to make the necessary changes to the tariff that incorporates language to address this situation.

Electric From 79-1109

In addition to the new rate schedule, a new NEMVNM Application and Interconnection Agreement form, *NEMVNM Net Energy Metering Application and Interconnection Agreement for the Building Owner of a Multifamily Affordable Solar Housing Facility with a Solar Generating Facility of 1 Megawatt or Less*, (form 79-1109) has been developed specifically for this tariff. The form was derived from the existing NEM form (79-1101) *Net Energy Metering Application and Interconnection Agreement for Customers with Solar and/or Wind Electric Generating Facilities of 30 kilowatts or Less*, and extends the concept of a single form for both the application and interconnection agreement. However, unlike the NEM form, the NEMVNM form will be the only form for all sizes of NEMVNM generator facilities up to 1 megawatt, thus reducing the number of forms both PG&E and its NEMVNM customers will need to manage. Appendix A is incorporated into the new NEMVNM form to allow PG&E to capture the information on the Common Area and Residential Unit Accounts and their respective Solar Allocation Percentages that will be included for a given NEMVNM facility.

Revisions to Rate Schedule NEM

In addition, in Rate Schedule NEM – *Net Energy Metering for Service*, the “cap statement” was modified. It now reads that the NEM and NEMVNM program would remain open until such time as the total rated generating capacity collectively used by eligible Rate Schedule NEM and NEMVNM customer-generators exceeds two and one-half (2.5) percent of PG&E’s aggregate customer peak demand.

Filing Requirement

D.08-10-036, OP 5 provides that:

“Within 120 days of this order, PG&E, SCE, and SDG&E shall each file an advice letter with a proposed Virtual Net Metering (VNM) tariff, applicable to multifamily affordable housing properties that install a solar energy system through the MASH program...”, and each utility’s proposed tariff shall comply with the requirements set forth in Appendix B of this order.”

This order was marked effective October 16, 2008; 120 days later is Friday, February 13, 2009.

Protests

Anyone wishing to protest this filing may do so by letter sent via U.S. mail, by facsimile or electronically, any of which must be received no later than **March 5, 2009**, which is 20 days after the date of this filing. Protests should be mailed to:

CPUC Energy Division
Tariff Files, Room 4005
DMS Branch
505 Van Ness Avenue
San Francisco, California 94102

Facsimile: (415) 703-2200
E-mail: anj@cpuc.ca.gov and mas@cpuc.ca.gov

Copies of protests also should be mailed to the attention of the Director, Energy Division, Room 4004, at the address shown above.

The protest also should be sent via U.S. mail (and by facsimile and electronically, if possible) to PG&E at the address shown below on the same date it is mailed or delivered to the Commission:

Brian K. Cherry
Vice President, Regulatory Relations
Pacific Gas and Electric Company
77 Beale Street, Mail Code B10C
P.O. Box 770000
San Francisco, California 94177

Facsimile: (415) 973-7226
E-mail: PGETariffs@pge.com

Effective Date

PG&E requests that this advice filing become effective on regular notice, **March 16, 2009**, which is 31 calendar days after the date of filing.

Notice

In accordance with General Order 96-B, Section IV, a copy of this advice letter is being sent electronically and via U.S. mail to parties shown on the attached list and on the service list for Rulemaking (R.) 08-03-008. Address changes to the General Order 96-B service list should be directed to Rose de la Torre at (415)

973-4716. Advice letter filings can also be accessed electronically at:
<http://www.pge.com/tariffs>

A handwritten signature in cursive script that reads "Brian H. Cheny / drc". The signature is written in a dark ink and is positioned above the typed name.

Vice President, Regulatory Relations

Attachments

cc: Service List for R.08-03-008

CALIFORNIA PUBLIC UTILITIES COMMISSION

ADVICE LETTER FILING 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 M)**

Utility type:

☒ ELC

☒ GAS

☐ PLC

☐ HEAT

☐ WATER

Contact Person: Daren Chan

Phone #: (415) 973-5361

E-mail: D1CT@pge.com

EXPLANATION OF UTILITY TYPE

ELC = Electric

GAS = Gas

☐

PLC = Pipeline

HEAT = Heat

WATER = Water

(Date Filed/ Received Stamp by CPUC)

Advice Letter (AL) #: **3422-E**

Tier: 2

Subject of AL: Establishment of Rate Schedule NEMVNM - Virtual Net Energy Metering Tariff in Compliance with Decision 08-10-036

Keywords (choose from CPUC listing): Compliance

AL filing type: ☐ Monthly ☐ Quarterly ☐ Annual ☒ One-Time ☐ Other _____

If AL filed in compliance with a Commission order, indicate relevant Decision/Resolution #: D.08-10-036

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:

Is AL requesting confidential treatment? If so, what information is the utility seeking confidential treatment for: No

Confidential information will be made available to those who have executed a nondisclosure agreement: N/A

Name(s) and contact information of the person(s) who will provide the nondisclosure agreement and access to the confidential information:

Resolution Required? ☐ Yes ☒ No

Requested effective date: **March 16, 2009**

No. of tariff sheets: 15

Estimated system annual revenue effect (%): N/A

Estimated system average rate effect (%): N/A

When rates are affected by AL, include attachment in AL showing average rate effects on customer classes (residential, small commercial, large C/I, agricultural, lighting).

Tariff schedules affected: Electric Rate Schedule NEMVNM, Electric Form 79-1109

Service affected and changes proposed: N/A

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

CPUC, Energy Division

Tariff Files, Room 4005

DMS Branch

505 Van Ness Ave., San Francisco, CA 94102

jnj@cpuc.ca.gov and mas@cpuc.ca.gov

Pacific Gas and Electric Company

Attn: Brian K. Cherry, Vice President, Regulatory Relations

77 Beale Street, Mail Code B10C

P.O. Box 770000

San Francisco, CA 94177

E-mail: PGETariffs@pge.com

Cal P.U.C. Sheet No.	Title of Sheet	Cancelling Cal P.U.C. Sheet No.
28048-E	ELECTRIC SCHEDULE NEM NET ENERGY METERING SERVICE Sheet 1	27236-E
28049-E	ELECTRIC SCHEDULE NEMVNM VIRTUAL NET ENERGY METERING Sheet 1	
28050-E	ELECTRIC RATE NEMVNM VIRTUAL NET ENERGY METERING Sheet 2	
28051-E	ELECTRIC SCHEDULE NEMVNM VIRTUAL NET ENERGY METERING Sheet 3	
28052-E	ELECTRIC SCHEDULE NEMVNM VIRTUAL NET ENERGY METERING Sheet 4	
28053-E	ELECTRIC SCHEDULE NEMVNM VIRTUAL NET ENERGY METERING Sheet 5	
28054-E	ELECTRIC SCHEDULE NEMVNM VIRTUAL NET ENERGY METERING Sheet 6	
28055-E	ELECTRIC SCHEDULE NEMVNM VIRTUAL NET ENERGY METERING Sheet 7	
28056-E	ELECTRIC SCHEDULE NEMVNM VIRTUAL NET ENERGY METERING Sheet 8	
28057-E	ELECTRIC SCHEDULE NEMVNM VIRTUAL NET ENERGY METERING Sheet 9	
28058-E	ELECTRIC SCHEDULE NEMVNM VIRTUAL NET ENERGY METERING Sheet 10	

**ATTACHMENT 1
Advice 3422-E**

Cal P.U.C. Sheet No.	Title of Sheet	Cancelling Cal P.U.C. Sheet No.
28059-E	Net Energy Metering Application and Interconnection Agreement for the Building Owner of a Multifamily Affordable Solar Housing Facility with a Solar Generating Facility of 1 Megawatt or Less Sheet 1	
28060-E	ELECTRIC TABLE OF CONTENTS Sheet 1	28034-E
28061-E	ELECTRIC TABLE OF CONTENTS RATE SCHEDULES Sheet 4	28015-E
28062-E	ELECTRIC TABLE OF CONTENTS SAMPLE FORMS Sheet 14	27822-E



ELECTRIC SCHEDULE NEM NET ENERGY METERING SERVICE

Sheet 1

APPLICABILITY: This net energy-metering schedule is applicable to a customer who uses a solar or wind turbine electrical generating facility, or a hybrid system of both, with a capacity of not more than 1,000 kilowatts that is located on the customer's owned, leased, or rented premises, is interconnected and operates in parallel with PG&E's transmission and distribution systems, including wind energy co-metering customers as defined in California Public Utilities Code Section 2827.8, and is intended primarily to offset part or all of the customer's own electrical requirements (hereinafter "eligible customer-generator" or "customer"). Certain incremental billing and metering costs set forth in this schedule that are related to net energy metering are applicable to Energy Service Providers (ESPs) serving eligible customer-generators.

This service is not applicable to a Direct Access (DA) or Community Choice Aggregation Service (CCA Service) customer where the customer's ESP or Community Choice Aggregator (CCA) does not offer a net energy metering tariff. In addition, if an eligible customer-generator participates in direct transactions with an ESP that does not provide distribution service for the direct transactions, the ESP, and not PG&E, is obligated to provide net energy metering to the customer.

This rate schedule is available on a first-come, first-served basis to customers that provide PG&E with: (a) a completed Net Energy Metering Application including all supporting documents and required payments; AND (b) a completed signed Net Energy Metering Interconnection Agreement; AND (c) evidence of the customer's final inspection clearance from the governmental authority having jurisdiction over the generating facility; until such time as the total rated generating capacity used by eligible customer-generators on Rate Schedules NEM and NEMVNM exceeds two and one-half (2.5) percent of PG&E's aggregate customer peak demand. (T)

Customers seeking generator interconnections in portions of San Francisco and Oakland where PG&E has a network grid must contact PG&E about generation export limitations.

Schedule NEM applies also to specified net energy metering eligible (NEM-eligible) generators in a generating facility comprised of multiple NEM- and non-NEM-eligible generators, served through the same Point of Common Coupling (PCC), where the NEM-eligible generating capacity is not more than 1 MW. Such facilities will be referred to as Multiple Tariff Facilities, and any group of generators within such a facility that is subject to the same tariff provisions for billing and metering purposes will be referred to as a Constituent Generator Group. In order to be eligible for this rate schedule in a Multiple Tariff Facility, the customer-generator must meet all the requirements of Special Condition 6 for the schedule NEM-eligible generator, and must also meet any other applicable tariffs.

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

(Continued)

Advice Letter No: 3422-E
 Decision No. 08-10-036

Issued by
Brian K. Cherry
 Vice President
 Regulatory Relations

Date Filed February 13, 2009
 Effective _____
 Resolution No. _____



ELECTRIC SCHEDULE NEMVNM VIRTUAL NET ENERGY METERING

Sheet 1

APPLICABILITY: This net energy-metering schedule is applicable to Customers with Bundled Service Accounts all on the same Premises for either: (N)

- a. an existing building or buildings served from one Customer Service Delivery Point, as defined in Rule 16, with PG&E's Distribution System that received incentives under PG&E's California Solar Initiative (CSI) Multifamily Affordable Solar Housing (MASH) Program*, or
- b. new, "Affordable Housing" consisting of one or more buildings serviced from one Customer Service Delivery Point, as defined in Rule 16, with PG&E's Distribution System that received incentives under the New Solar Homes Partnership (NSHP)** Program in PG&E's service territory.

Either such arrangement is called an "Eligible Low Income Facility."

NEMVNM is available on a first-come, first-served basis to Customers with an Eligible Low Income Facility that provide PG&E with:

- a. a completed NEMVNM 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 Solar Generating Facility; until such time as the total rated generating capacity on Rate Schedules NEM and NEMVNM exceeds two and one-half (2.5) percent of PG&E's aggregate peak demand.

* Pursuant to CPUC Decision 08-10-036, "The MASH Program is targeted at existing multifamily affordable housing that meets the definition of low-income residential housing set forth in Pub. Util. Code 2852. Specifically, this means multifamily housing financed with low-income housing tax credits, tax-exempt mortgage revenue bonds, general obligation bonds, or local, state or federal loans or grants. The housing must also meet the definition of low-income households in Health and Safety Code 50079.5 (p. 6). Under the MASH program, the portion of the system offsetting common area load would receive Track 1A incentives, and the portion offsetting tenant load would receive Track 1B incentives.

** Pursuant to Public Resources Code 25401.6, to be eligible as a NSHP "affordable housing" means:

- a. In its administration of Section 25744, the Commission shall establish a separate rebate for eligible distributed emerging technologies for affordable housing projects including, but not limited to, projects undertaken pursuant to Section 50052.5, 50053, or 50199.4 of the Health and Safety Code. In establishing the rebate, where the Commission determines that the occupants of the housing shall have meters, the Commission may adjust the amount of the rebate based on the capacity of the system, provided that a system may receive a rebate only up to 75 percent of the total installed costs. The Commission may establish a reasonable limit on the total amount of funds dedicated for purposes of this section;
- b. It is the intent of the Legislature that this section fulfills the purpose of paragraph (5) of subdivision (b) of Section 25744.

(Continued)



ELECTRIC SCHEDULE NEMVNM VIRTUAL NET ENERGY METERING

Sheet 2

APPLICABILITY:
 (Cont'd.)

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

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

- a. Generator Account– the Account where the up to one megawatt solar photovoltaic generator facility (Solar Generating Facility) is interconnected and for which the Eligible Low Income Facility owner or a party they designate (“Owner”), is the PG&E Customer. 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. If there is more than one solar generator, they must all be interconnected on this 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 NEMVNM, is referred to as a “Customer Load Account”.

Owner Obligations – The Owner must:

- a. ensure that the Solar Generating Facility is compliant with all applicable safety and performance standards as delineated in PG&E’s Electric Rule 21 and other applicable tariffs;
- b. keep in force the amount of property, commercial general liability and/or personal liability insurance the Owner has in place at the time they initiate service on this tariff;
- c. understand that PG&E may from time to time release to the California Energy Commission and/or the California Public Utilities Commission, information regarding the Eligible Low Income Facility, including the Owner’s name, and Solar Generating Facility location, capacity and operational characteristics, and Customer names at the Residential Unit Accounts;
- d. agree to comply with all applicable rules and requirements of PG&E’s Net Energy Metering tariffs

(Continued)



ELECTRIC SCHEDULE NEMVNM
VIRTUAL NET ENERGY METERING

Sheet 3

APPLICABILITY:
(Cont'd.)

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

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

RATES:

The rate charged at each Customer Load Account and the Generator Account under this schedule will be in accordance with its PG&E otherwise-applicable metered rate schedule (OAS). The Generator Account must be on a residential rate schedule. The customer at each Customer Load Account or Generator Account served under this schedule is responsible for all charges from its OAS including monthly minimum charges, customer charges, meter charges, facilities charges, demand charges and surcharges. For Generator and Common Area Accounts on general service OASs, the "Average Rate Limiter" and all other demand charges will be based on the demand in kilowatts as measured only on the energy being consumed at the Common Area Account or Generator Account from PG&E. The power factor, when it applies on the OAS, will be based on the energy consumed at the Account from PG&E and the average power factor over the past 12 billing months of operation prior to starting on NEMVNM. A Generator or Common Area Account, without 12 billing months of power factor history, will have its power factor estimated based on the nature of the connected facilities and their hours of operation. Power factor will be subsequently applied to the bill at the Generator or Common Area Account until the customer demonstrates to PG&E's satisfaction that adequate correction had been provided. PG&E will continue to monitor and review the power factor and if warranted, change the power factor correction on the Generator or Common Area Account's bills.

Charges for energy (kWh) supplied by PG&E will be based on the net metered usage in accordance with Billing (Special Condition 2, below).

For PG&E Bundled Service Accounts, the energy charges will be in accordance with their OAS.

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

SUB
SCHEDULES:

Eligible customers will be placed on the appropriate sub-schedule as described below:

1. NEMVNMG— For Generator Accounts
2. NEMVNMC – For Common Area Accounts
- 3 NEMVNMR – For Residential Unit Accounts

(Continued)



ELECTRIC SCHEDULE NEMVNM
VIRTUAL NET ENERGY METERING

Sheet 4

**SPECIAL
CONDITIONS:**

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

- a. The Generator Account where the Solar Generating Facility is located, using a PG&E meter capable of recording solar energy system output in up to fifteen minute increments. The Owner shall be responsible for, and shall bear all costs associated with, installing such a meter.

If the Account has any load in addition to that of the solar energy system inverter(s), PG&E reserves the right to require the Owner to install a bi-directional meter appropriate to its otherwise applicable rate schedule and a generator output meter to determine the total generation and total usage at the Account. Additionally, the Owner will need to furnish at the Owner's expense a meter socket for the generation output meter and provide PG&E with unrestricted access to that meter and socket. If the Generator Account's existing electrical meter, together with the generation output meter, is not capable of determining the total usage necessary to bill its otherwise applicable rate schedule, the Owner shall be responsible for all expenses involved in purchasing and installing such metering.

- b. Each Common Area Account, if any exist, using PG&E metering appropriate to its otherwise applicable rate schedule.
- c. Each Residential Unit Account using PG&E metering appropriate to its otherwise applicable rate schedule.

2. BILLING:

For each Customer Load Account, Consumption or production shall be valued as follows:

a. Annual Solar Energy Credit

The Annual Solar Energy Credit is the total energy (in kilowatt hours or kWh as read on the generation output meter over Relevant Period as defined in Special Condition 2 g., The Annual Solar Energy Credits allocated to the Customer Load Accounts may not exceed the associated estimated load (in kWh) for the coming year.

(Continued)



ELECTRIC SCHEDULE NEMVNM
VIRTUAL NET ENERGY METERING

Sheet 5

SPECIAL
CONDITIONS:
(Cont'd.)

2. BILLING (Cont'd.):

b. The Annual Solar Energy Credit Allocation

The Owner at the time the Eligible Low Income Facility first takes service under NEMVNM shall determine the initial percentage of Annual Solar Energy Credits allocated to the Common Area Account(s) versus the Residential Unit Accounts. This allocation shall remain fixed for at least five years, regardless of a Change in Owner. If incentives are received under the MASH program, the initial credit allocation must match the percentage of MASH incentive received for Track 1a (Common Area load offset) and Track 1b (Residential load offset).

After the initial five year period, the Owner may only modify this allocation once in any 12 month period. A reallocation of the solar credit becomes effective for each Customer Load Account on the first day of the next Billing Cycle where the Billing Cycle start date occurs at least five business days after the date of the Owner's request.

Any measured usage at the Generator Account over and above that required by the Solar Generating Facility itself, will be treated as if it is Common Area Account usage for the purposes of the Annual Solar Energy Credit Allocation and for billing.

For the Residential Unit Accounts, the percentage of solar energy credits (in kWh) allocated to each Residential Unit Account will be in proportion to the relative size of each unit, consistent with the manner in which affordable housing rents are established. This solar allocation percentage will be established initially by the Owner on Appendix A of the NEMVNM application and interconnection agreement as described in Special Condition 3.

If there are multiple Common Area Accounts, the Owner must specify each Common Area Account allocation on Appendix A of the NEMVNM application and interconnection agreement as described in Special Condition 3.

Once allocated, Credits (in dollars) will be calculated the OAS for each Customer Load Account as described in Special Condition 2 c

(Continued)



ELECTRIC SCHEDULE NEMVNM
VIRTUAL NET ENERGY METERING

Sheet 6

SPECIAL
CONDITIONS:
(Cont'd.)

2. BILLING (Cont'd.):

c. Monthly Energy Charge/Credit For an OAS with Baseline Rates

A Customer Load Account is a net consumer if Customer Load Account(s) Solar Allocation Percentage (SA%) times the solar output (in kWh) is less than the Customer Load Account's usage (CLA usage), and its net consumption in kWh is equal to:

$$\text{CLA usage} - (\text{SA\%} \times \text{solar output}) = \text{net consumption}$$

Otherwise the Customer Load Account is a net producer and its net production in kWh is equal to:

$$(\text{SA\%} \times \text{solar output}) - \text{CLA usage} = \text{net production}$$

If the Customer Load Account is a net consumer, the Customer Load Account will be billed for its net consumption in accordance with the Customer Load Account's OAS.

If the Customer Load Account is a net generator, the net production shall be valued at the rate for the kWh up to the baseline quantity, with any excess kWh generated, valued at the rate for the appropriate tier level in which the equivalent kWh of usage would fall.

(Continued)

Advice Letter No: 3422-E
Decision No. 08-10-036

Issued by
Brian K. Cherry
Vice President
Regulatory Relations

Date Filed February 13, 2009
Effective _____
Resolution No. _____



ELECTRIC SCHEDULE NEMVNM
VIRTUAL NET ENERGY METERING

Sheet 7

SPECIAL
 CONDITIONS:
 (Cont'd.)

2. BILLING (Cont'd.):

d. Monthly Energy Charge/Credit For an OAS with Time of Use (TOU)

A Customer Load Account is a net consumer for a discrete TOU period if Customer Load Account's Solar Allocation Percentage (SA%) times the solar output (in kWh) for that TOU period (TOU solar output) is less than the Customer Load Account's usage (CLA TOU usage) for the TOU period, and its net consumption in kWh is equal to

$$\text{CLA TOU usage} - (\text{SA\%} \times \text{TOU solar output}) = \text{net consumption}$$

Otherwise the Customer Load Account is a net producer and its net production in KWh is equal to:

$$(\text{SA\%} \times \text{TOU solar output}) - \text{CLA TOU usage} = \text{net production}$$

Any net consumption or net production shall be valued monthly as follows:

If the Customer Load Account is a net consumer during any discrete TOU period, the net consumption shall be billed in accordance with that same TOU period in the Customer Load Account's OAS.

If the Customer Load Account is a net generator during any discrete TOU period, the net production shall be valued at the same price per kWh at the same TOU period in the Customer Load Account's OAS.

In the event that at the end of the monthly billing cycle, a Customer Load Account's net consumption for all TOU periods totals zero (i.e. net production in one or more periods exactly offsets the net consumption in all other periods), then the value of usage and/or generation will be calculated using Tier 1 rates (as set forth in the OAS).

e. For an OAS with monthly Minimum Charges

For Customer Load Accounts taking service on a residential OAS, the minimum charges have a customer-related component and an energy-related component. The applicable customer-related components of such minimum charges shall be treated as described in the OAS and billed monthly. The energy (kWh) related component shall be treated in the same manner as energy (kWh) consumed, as described in Special Condition g below, unless otherwise provided for in the Customer Load Account's OAS.

For all Customer Load Accounts, the net balance of all moneys owed for the net energy (kWh) consumed must be paid on each monthly billing cycle, unless the customer opts to pay annually. When Customer Load Accounts are a net electricity producer over a monthly billing cycle, the value of any excess kWh generated during the billing cycle shall be carried over to the following billing period and appear as a credit on the Customer's account, until the end of the Relevant Period.

(Continued)



ELECTRIC SCHEDULE NEMVNM
VIRTUAL NET ENERGY METERING

Sheet 8

SPECIAL
CONDITIONS:
(Cont'd.)

2. BILLING (Cont'd.):

f. Relevant Period

A Relevant Period consists of any twelve monthly billing cycles commencing on the date PG&E provides the Owner with PG&E's written approval to begin parallel operation of the Solar Generating Facility for purposes of participating in NEMVNM, and on every subsequent anniversary thereof.

If a Customer Load Account terminates service with PG&E or there is a change of party at a Customer Load Account, prior to the end of any 12 monthly billing cycles, the Relevant Period for that Customer Load Account will consist of that period from the anniversary date until the effective date of that termination or Change of Party.

The subsequent customer after a Change of Party at a Customer Load Account will start a new Relevant Period commencing on the date the new Customer takes service under this rate, and every subsequent anniversary thereafter.

If no subsequent Customer takes service at that Customer Load Account, the credits allocated to that Customer Load Account will be reallocated to the Common Area Account, for inclusion in its current Relevant Period (During the initial 5 year program, this option is only available subject the CPUC's approval of a modification to D. 08-10-036.)

On a going forward basis, the Owner may elect to reallocate the Annual Solar Energy Credit Allocation assigned to a Residential Unit Account that is no longer able to be occupied. In order to elect this option, the Owner must submit adequate evidence to PG&E, at PG&E's sole discretion, to substantiate the unit's uninhabitable status. In order to initiate a reallocation if no new customer takes service in the Residential Unit, the Owner must submit a revised Appendix A described in Special Condition 3. A reallocation of the solar credit becomes effective for each Customer Load Account on the first day of the next Billing Cycle where the Billing Cycle start date occurs at least five business days after the date of the Owner's request. The Owner must leave this reallocation in place for at least 12 months. This will result in a reallocation as provided for Residential Unit Accounts as provided for in Special Condition 2 b, except the unoccupied unit will not be included in the calculation. There will be no change to any of the remaining Customer Load Account's existing Relevant Period.

If an Owner terminates service under this rate schedule for the Eligible Low Income Facility prior to the end of any 12 monthly billing cycle, then the Relevant Period for all Load Accounts will end as described in the previous paragraph upon reaching the effective date of the service termination.

If there is a Change of Owner for an Eligible Low Income Facility prior to the end of any 12 monthly billing cycle, the Relevant period for the Owner's Load Accounts will end. The new Owner's Load Accounts will automatically be placed in service under this rate schedule and begin a new Relevant Period. However, existing Residential Units will not begin a new Relevant Period.

(Continued)

Advice Letter No: 3422-E
Decision No. 08-10-036

Issued by
Brian K. Cherry
Vice President
Regulatory Relations

Date Filed February 13, 2009
Effective
Resolution No.



ELECTRIC SCHEDULE NEMVNM
VIRTUAL NET ENERGY METERING

Sheet 9

SPECIAL
CONDITIONS:
(Cont'd.)

2. BILLING (Cont'd.):

g. True Up

A true up is performed by PG&E at the end of each Relevant Period for each Customer Load Account.

Where the residential minimum bill applies at the true up for a Bundled Service Customer Load Account, no further amounts will be billed to that Customer as a result of the true up.

In the event the Customer Load Account's allocation of energy (kWh) generated at the associated Generator Account and fed back to the electric grid exceeds the energy (kWh) consumed at the Customer Load Account during the Relevant Period, based on its OAS as set forth below, no payment shall be made for the excess energy (kWh) delivered to PG&E's grid. If a Customer Load Account's Relevant Period ends under any of the circumstances described above:

- a) The Customer will pay all charges owed at that point;
- b) No payments shall be made for credits remaining after the true-up;

h. Billing Information

If PG&E supplies a Customer Load Account with energy (kWh), PG&E shall provide each such Customer Load Account with its net energy (kWh) consumption information with each regular bill. That information shall include the current monetary balance owed PG&E for the net energy (kWh) consumed since the start of the current Relevant Period.

i. OAS Payment Option

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

(Continued)



ELECTRIC SCHEDULE NEMVNM
VIRTUAL NET ENERGY METERING

Sheet 10

SPECIAL
CONDITIONS:
(Cont'd.)

3. INTERCONNECTION:

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

Rate Option	Application	Interconnection Agreement
NEMVNMG	<i>NEMVNMG Application and Interconnection Agreement for Customers with a Solar Generating Facility of 1 megawatt or less. (Form 79-1109).</i>	
NEMVNMC	<i>Appendix A – Annual Solar Energy Credit Allocation Sheet No forms required</i>	
NEMVNMR	<i>No forms required</i>	

The Owner must meet all applicable safety and performance standards established by the National Electrical Code, the Institute of Electrical and Electronics Engineers, and accredited testing laboratories such as Underwriters Laboratories and, where applicable, rules of the California Public Utilities Commission regarding safety and reliability. The Owner is solely responsible for the ongoing maintenance and operation of the Solar Generating Facility.

(N)

(Continued)

Advice Letter No: 3422-E
Decision No. 08-10-036

Issued by
Brian K. Cherry
Vice President
Regulatory Relations

Date Filed February 13, 2009
Effective
Resolution No.



Pacific Gas and Electric Company
San Francisco, California
U 39

Original
Cancelling

Cal. P.U.C. Sheet No.
Cal. P.U.C. Sheet No.

28059-E*

**Net Energy Metering Application and Interconnection
Agreement**

Sheet 1

for the Building Owner of a Multifamily Affordable Solar Housing Facility
with a Solar Generating Facility of 1 Megawatt or Less

**Please Refer to the Attached
Sample Form**

Advice Letter No: 3422-E
Decision No. 08-10-036

Issued by
Brian K. Cherry
Vice President
Regulatory Relations

Date Filed February 13, 2009
Effective _____
Resolution No. _____



Pacific Gas and
Electric Company®

NEMVNM

*Net Energy Metering Application and Interconnection Agreement for
the Building Owner of a Multifamily Affordable Solar Housing
Facility with a Solar Generating Facility of 1 Megawatt or Less*

Please note that this agreement does not constitute an application to any **rebate** and/or **incentive programs**. For more information on these programs and their specific applications, please contact PG&E by phone, or by email using the subject "solar energy" at smarter-energy@pge.com, 1-800-933-9555 (residential) or BusinessCustomerHelp@pge.com, 1-800-468-4743 (commercial/industrial).

For more information on the , Multifamily Affordable Solar Housing (MASH) or the New Solar Homes Partnership (NSHP) for affordable housing, please go to www.pge.com/csi where you will find information about the program, including the program handbook, reservation request forms with the program contract as well as a list of requirements, FAQ's and resources. For additional questions about the California Solar Initiative (CSI), MASH or the NSHP, contact PG&E at solar@pge.com.

Project Identification Number _____(for PG&E's use only)

If you are applying for a CSI rebate, please check the appropriate box below and continue with this application

- ☐ I am also applying for a MASH rebate, and understand that I will have to apply for MASH rebates separately.
- ☐ I am also applying for a NSHP rebate, and understand that I will have to apply for the NSHP rebates separately.

Part I – Identifying the Generating Facility's Location and Responsible Parties

A. Applicability and Purpose:

This *NET ENERGY METERING APPLICATION AND INTERCONNECTION AGREEMENT FOR THE BUILDING OWNER OF A MULTIFAMILY AFFORDABLE SOLAR HOUSING FACILITY WITH A SOLAR GENERATING FACILITY OF 1 MW OR LESS* ("Agreement") applies to electric rate schedule NEMVNM, *Net Energy Metering Service for Multifamily Affordable Solar Housing* for the Owner or designated agent of the Owner ("Owner") who interconnects a solar electric Generating Facility with an capacity of 1 megawatt (1,000 kW) or less that is located on Owner's existing buildings that received incentives under PG&E's California Solar Initiative (CSI) Multifamily Affordable Solar Housing (MASH) Program or on the Owner's new, "Affordable Housing" as defined in Public Resource Code section 25401.6** that received incentives under the New Solar Homes Partnership (NSHP) Program in PG&E's service territory, and that operates in parallel with Pacific Gas and Electric Company's ("PG&E") Distribution System.

The purpose of this Agreement is to allow Owner to interconnect with PG&E's Distribution System, subject to the provisions of this Agreement and PG&E's rate schedule NEMVNM. Owner has elected to interconnect and operate its solar electric Generating Facility in parallel with PG&E's Distribution System, primarily to offset part or all of the Owner's Multifamily Affordable Solar Housing's own electrical requirements at the affiliated service points as listed in Appendix A. Owner shall comply at all times with this Agreement as well as with all applicable laws, tariffs and applicable requirements of the Public Utilities Commission of the State of California.

B. Description of Service (This Agreement is being filed for, check all that apply):

- ☐ A New NEMVNM Generating Facility interconnection (at an existing service)
- ☐ For Physical Changes to an interconnected NEMVNM Generating Facility with previous approval by PG&E (adding PV panels, changing inverters, or changing load and/or operations).
- ☐ A New NEMVNM interconnection in conjunction with a new service. An **Application for Service** must be completed. Additional fees may be required if a service or line extension is required (in accordance with PG&E Electric Rules 15 and 16). Please contact PG&E at 1-800-PGE-5000 (or 1-800-743-5000).
- ☐ A Reallocation of Solar Generation Credits for an Existing NEMVNM Facility (see Appendix A). For a reallocation, Owner only needs to fill out Part I, sign Part IV, and complete Appendix A with the reallocation for the NEMVNM accounts.

C. Owner's Generating Facility Information - Where will the Generating Facility be installed?

Name shown on Owner's PG&E service account
(Must Match Owner's Name on PG&E Energy Bill)

Street Address

City

State

Zip

Mailing Address

City

State

Zip

Business Phone

Home Phone

Fax

Email

D. Contractor Information (Must be completed even if Contractor will not serve as a PG&E contact).

Contractor

Company Name

Mailing Address

City

State

Zip

Business Phone

Fax

Email

☐ This contractor is to be used as PG&E contact and is authorized by Owner to receive confidential Owner information and act on behalf of Owner with respect to this agreement.

E. Other Contact Information (This information is optional.)

Contact Person

Company Name

Mailing Address

City

State

Zip

Business Phone

Fax

Email

☐ This contact person is to be used as PG&E contact and is authorized by Owner to receive confidential Owner information and act on behalf of Owner with respect to this agreement.

By checking the boxes above and signing this agreement, Owner authorizes PG&E to release information to the contact(s) named above regarding Owner's usage and billing information, Generating Facility location, size and operational characteristics as requested in the course of this interconnection process. PG&E is granted permission to share information with authorized recipients for a period of **two years** from the date this agreement is received by PG&E. Contact(s) are also authorized to make changes to rates and metering arrangements which may result in charges to Owner. Should Owner wish to select a different authorization period, Owner may utilize the "Authorization to Receive Customer Information or Act on a Customer's Behalf", which may be found at:

www.pge.com/includes/docs/pdfs/shared/newgenerator/solarwindgenerators/standardenet/customer_behalf_app.pdf

Please complete this agreement in its entirety

In addition, Owner authorizes PG&E to release to the California Energy Commission (CEC) information regarding Owner's facility, including Owner's name and Generating Facility location, size, and operational characteristics, as requested from time to time pursuant to the CEC's rules and regulations.

Part II – Requirements for Interconnection

In submitting this document, I the Owner, understand and agree to the following terms and conditions:

Permission to Interconnect

Owner must not operate their Generating Facility in parallel with PG&E's Distribution System until they receive written authorization for Parallel Operation from PG&E. Unauthorized Parallel Operation could result in injury to persons and/or damage to equipment and/or property for which the Owner may be liable.

Safe Operation of your Generating Facility

Notwithstanding any other provision of this Agreement, if at any time PG&E determines that either (a) the Owner's Facility, or its operation, may endanger PG&E personnel, or (b) the continued operation of the Owner's Facility may endanger the safe and reliable operation of PG&E's electrical system, PG&E shall have the right to disconnect the Facility from PG&E's system. Owner's Facility shall remain disconnected until such time as PG&E is satisfied that the unsafe condition(s) have been corrected.

Interconnections on PG&E's Secondary Network

Applications to interconnect systems located in San Francisco or Oakland may require additional analysis to determine whether or not their proposed installation is on PG&E's networked secondary system. Networked secondary systems are in place to provide heightened levels of reliability in densely populated areas and may affect the ability of PG&E to interconnect NEMVNM Owners. **Please contact Generation Interconnection Services at 415-972-5676 or email gen@pge.com if your proposed installation is in San Francisco where the zip code is 94102, 94103, 94104, 94105, 94107, 94108, 94109, 94111 or 94133 or in Oakland and where the zip code is 94607 or 94612.**

Meter access

Owner's generator output meter and the AC disconnect switch must be installed in a safe, PG&E-accessible location and remain unobstructed by locked gates or pets. Additionally, meter and AC disconnect switch access must be maintained at all times for meter reading and system maintenance. Any animals owned by the Owner or Multifamily residents, including pet dogs, should not have access to these areas to avoid hindering PG&E service personnel, preventing them from completing their work. Customers who currently have generator meters inaccessible from the outside of the building and who choose to place their generator AC disconnect switch near their meter, must place the required generator AC disconnect switch in a location readily accessible to PG&E in order to participate in this program. Should future access problems arise, PG&E reserves the right to terminate service, in accordance with its filed tariffs.

Document and Fee Requirements

Other Documents and/or Fees *may* be required and there may be requirements for interconnection in addition to the above list, depending on the specifics of the planned Generating Facility. Other approvals and/or other agreements may be needed for special PG&E programs or regulatory agency requirements.

Stale Agreements

If this agreement is still pending two years from its date of submittal and Owner has not met all of the requirements, PG&E will close this application and Owner will be required to submit a new application should Owner wish to take service on Schedule NEMVNM.

A. Agreement Package:

These documents are needed to ensure safe and reliable operation of PG&E's Distribution System and to confirm that Owner's interconnection has been performed in accordance with PG&E's tariffs. (Additional forms are available upon request by telephoning 415-972-5676, emailing gen@pge.com, or visiting PG&E's website at www.pge.com/standardnem). **Owners should not delay sending any part of the agreement package to PG&E.** As PG&E receives the documentation described in Sections (1) through (5) below, PG&E will begin to process the application.

Required Documents for New Applicants:

1. A completed copy of this **Agreement, including a completed Appendix A**. **Please note:** the Owner's name (as identified in Part I, Section C) must be the same name as on the PG&E bill. In this Agreement, Owner will confirm their otherwise-applicable rate schedule (OAS) for all Common Area accounts in Owner's name as listed in Appendix A –Owners who don't specify an OAS for their Common Area accounts will be defaulted to E-1 , establishing how Owner's Common Area Account's monthly usage or net generation will be charged/credited. Owner's-initiated rate changes are governed in accordance with PG&E's Electric Rule 12.
2. A **single-line diagram** showing Owner's actual installation of his/her Generating Facility. The diagram must include the electrical rating and operating voltages of the significant electrical components such as the service panel, the disconnect switch (if required), inverters, all photovoltaic generators, circuit breakers and other protective devices of the Generating Facility, the general location of the Owner's loads relative to the Generating Facility, and the interconnection with PG&E's Distribution System. The diagram must include the following information:
 - a. A description and location of the visible, lockable **AC disconnect switch**.

PG&E requires an Owner to install an AC disconnect switch to facilitate maintenance of the Owner's equipment (i.e. inverter, PV arrays, etc). The AC disconnect switch provides PG&E the ability to isolate the Owner's generator from the NEMVNM Eligible Low Income Facility and utility's Distribution System.
 - b. A description of the specific **inverter(s)** used to control the interconnection between PG&E and the Generating Facility, including rating, brand name, and model number. CEC-certified inverters¹ will pass the requirements for Simplified Interconnection per PG&E's Electric Rule 21. Non-certified units will require further study and may involve additional costs.
 - c. A complete description of the **generating equipment Owner plans to install**. The Generating Facility must include the photovoltaic panel manufacturer name, model number, number of panels, and the nameplate rating. Only CEC-certified inverters will pass the requirements for Simplified Interconnection. (See the PG&E website www.pge.com/gen or the CEC website at: www.consumerenergycenter.org/erprebate/equipment.html)
 - d. A description of how the power output from the inverter is connected to the **main service panel via a branch breaker**. The ampere rating of this branch breaker and the main service panel breaker must be compatible with the output rating of the Generating Facility. The output rating is computed based on the total nameplate rating of the inverter.
 - e. PG&E requires a **generation output meter**. The description must include the meter manufacturer, model number and type (socket or panel), as well as any other relevant information (e.g., socket, panels, breakers, etc.). If instrument transformers are required, the description should include this information.
3. **Site Diagram** – The site diagram must show the building or buildings that will be included as part of the Eligible Low Income Facility served through a single Service Delivery Point, the meter locations, and denote where the PV solar generating facility will be located and interconnected.
4. Information regarding any existing **insurance coverage** (liability and/or property) for the Schedule-NEMVNM Generating Facility location –

Owner shall meet all applicable safety and performance standards established by the National Electrical Code, the Institute of Electrical and Electronics Engineers, accredited testing laboratories such as Underwriters Laboratories and, where applicable, rules of the California Public Utilities Commission regarding safety and reliability. An Owner with a solar electric Generating Facility that meets those standards and rules shall not be required to install additional controls, perform or pay for additional tests, or purchase additional liability insurance.

To the extent that Owner has currently in force property insurance and commercial general liability or personal liability insurance, Owner agrees that it will maintain such insurance in force for the duration of this Agreement in no less amounts than those currently in effect. Pacific Gas and Electric Company shall have the right to inspect or obtain a copy of the original policy or policies of insurance prior to commencing operation. As long as Owner meets the requirements of this section, Owner shall not be required to purchase any additional liability insurance.

¹ The CEC's eligible inverter list can be found under the CSI heading at: www.consumerenergycenter.org/erprebate/equipment.html

- ☐ I have insurance. I hereby certify that there is presently insurance coverage in the amount of \$_____ for the Schedule-NEMVNM Generating Facility location.

Insuring Company's Name: _____

Insurance Policy # _____

- ☐ I **do not** have insurance. I hereby certify that there is presently \$0 (zero) dollars of insurance for the Schedule-NEMVNM Generating Facility location

5. A copy of the **final, signed, jurisdictional approval (building permit) for Owner's Generating Facility** from the local government entity with jurisdiction over the Owner's project. **Owner's agreement package will not be complete until PG&E receives this document.**

B. Internet Agreement Forms

If this Agreement has been completed electronically, it may be submitted to PG&E via e-mail or U.S. mail. Copies or forms requiring a signature, attachments or any applicable fees described in Part II must be mailed to PG&E at the address noted in Section IV (E), Notices.

Part III – General Facility

A. Expected **date** of Project Completion and PG&E Receipt of Final, Signed-Off Building Permit for Generating Facility?

Date: _____

B. Are there any other generators interconnected on this account?

- ☐ Yes

If **yes**, specify what kind of generator _____

- ☐ No

C. Are there any possible generator meter access issues?

- ☐ Yes If **yes**, check all that apply:

<input type="checkbox"/> Locked Room/Gate	<input type="checkbox"/> Meter located inside of facility/residence
<input type="checkbox"/> Unrestrained animal at meter or AC disconnect switch location	<input type="checkbox"/> Other (Please explain) _____

- ☐ No

D. Are any of your accounts on a Demand Response program?

- ☐ Yes

If **yes**, what program are you on? _____

- ☐ No.

(For more information on PG&E's demand response programs see: www.pge.com/demandresponse)

A. AC Disconnect Switch (see Part II, Section A.2.a above for policy on disconnect switches)

List the AC disconnect switch that will be used at this Generating Facility.

Disconnect Switch Manufacturer	Disconnect Switch Model Number	Disconnect Switch Rating (amps)

B. Inverters interconnected with PG&E

List all the inverters that will be interconnected to PG&E.

Owners with non-standard inverters which do not meet the UL and IEEE requirements specified in Electric Rule 21, or Owners whose aggregate Generating Facility capacity exceeds 15% of the peak load on the distribution line section as described in Electric Rule 21 (Section I.6.) require a **Supplemental Review** which may entail a study, additional equipment, and/or other requirements.

No.	Inverter Manufacturer	Inverter Model Number	Inverter Nameplate Rating ² kW (per unit)	Inverter CEC Rating kW (per unit)	Quantity of Inverters	Inverter Output Voltage	Single or Three phase?
1							
2							

C. Photovoltaic Generator Equipment

List the photovoltaic (PV) panel information requested below. If the panels are not all identical modules, list the total capacity connected to each inverter you listed above. (Please attach additional sheets if more space is needed.)

No.	PV Panel Manufacturer	PV Panel Model	PV Panel Nameplate Rating ³ kW (per unit)	PV Panel CEC Rating kW (per unit)	Quantity of PV Panels	Total Capacity ⁴ (kW)	Inverter number from (B.) above (1 or 2)
1							
2							

D. Service Panel Short Circuit Interrupting Rating

For systems larger than 10 kW, what is the short circuit interrupting rating (SCIR) rating of the service panel connected to this generating facility? _____

E. Notices - Mailing Instructions and Assistance:

When this agreement has been completed it should be mailed, along with the required attachments and any applicable fees, to:

PG&E'S P.O. BOX ADDRESS	PG&E'S STREET ADDRESS
Pacific Gas and Electric Company Attention: Generation Interconnection Services Mail Code N7L P.O. Box 770000 San Francisco, California 94177	Pacific Gas and Electric Company Attention: Generation Interconnection Services Mail Code N7L 245 Market St. San Francisco, California 94105

² The inverter rating equals the nameplate rating, in kW. If there is more than one inverter of one type being installed, the inverter rating equals the nameplate rating of one unit of the model being installed.

⁵ For all generation equipment ratings, please use the nameplate rating found on the equipment or in the equipment specifications.

⁴ The total capacity is the PV panel rating times the quantity.

Phone calls and questions may be directed to the Generation Interconnection Services' hotline at: 415-972-5676 or an electronic application may be submitted to gen@pge.com

F. Governing Law

This Agreement shall be interpreted, governed, and construed under the laws of the State of California as if executed and to be performed wholly within the State of California.

G. Term Of Agreement

After receipt of all applicable fees, required documents, and this completed Agreement, this Agreement shall become effective on the date of PG&E issues the permission to operate letter. This Agreement shall continue in full force and effect until terminated by either Party providing 30-days prior written notice to the other Party, or when a new Owner takes service with PG&E operating this approved generating facility. This new Owner will be interconnected subject to the terms and conditions as set forth in Schedule NEMVNM.

H. Governing Authority

This contract shall at all times be subject to such changes or modification by the Public Utilities Commission of the State of California as said Commission may, from time to time, direct in the exercise of its jurisdiction.

I. Appendix A

Attached to this agreement is *Appendix A - Designation of Multifamily Common Area Accounts, Residential Units and their respective Solar Credit Allocation*

Owner Name (Please Print): _____

(Signature): _____ Date: _____

Title: _____

A copy of this signed agreement should be retained with the "Permission to Operate" letter to confirm project approval.

Appendix A – Designation of Multifamily Common Area Accounts, Residential Units and their respective Solar Credit Allocation

Project Identification Number _____ (for PG&E's use only)

Section 1 Instructions

- 1) Complete the section below (this information must match the Owner information on the associated Application and Interconnection Agreement *Net Energy Metering Application and Interconnection Agreement for the Building Owner of a Multifamily Affordable Solar Housing Facility with a Solar Generating Facility of 1 Megawatt or Less* for the same NEMVNM Eligible Low Income Facility.

Owner Name	Address	Date

- 2) Is this application for a new NEMVNM Eligible Low Income Facility or a reallocation for an existing NEMVNM facility? (Existing NEMVNM facility Owners may not reallocate the Solar Allocation Percentages for all Common Area Accounts and all Residential Unit Accounts for a period of 5 years after first being interconnected on NEMVNM, even if there is a change in Owner. However, after 5 years a reallocation may be requested. Also, a reallocation of credits between the different Common Area Accounts is allowed, and similarly if a residential unit becomes uninhabitable under the terms described in the NEMVNM tariff in Special Condition 2 g, the Owner may choose to reallocate credits to the other Residential Unit Accounts.)

This application is for an allocation for the initial New NEMVNM Eligible Low Income Facility: ☐

This application is for a reallocation for an existing NEMVNM Eligible Low Income Facility: ☐

- 3) For a new NEMVNM Eligible Low Income Facility, if you applied for the Multifamily Affordable Solar Housing Program (MASH), please enter the percentages in the space provided below from the MASH application.

Solar Allocation Percentage for All Common Area Account(s) Listed in the Mash Incentive Application (only required if applying for MASH Track 1a incentives):	Solar Allocation Percentage for All Residential Unit Accounts Listed in Mash Incentive Application (only required if applying for MASH Track 1b incentives):	Both Percentages Must Total 100%
%	%	= 100 %

- 4) Please use the attached Appendix A Section 2 page to list all accounts that are located in the Eligible Low Income Facility that will be taking service on NEMMVM. Include the Generator Account, all Common Area Accounts (if any) and all Residential Unit Accounts. The Common Area and Residential Unit Accounts must be served by the same Generator Account and all must be interconnected via the same Service Delivery Point, as defined in PG&E's Electric Rule 16 to be included in one Eligible Low Income Facility.

Please note for each row:

- **Account Type** - check the one box corresponding to the type of account (that is, Common Area, Residential Unit or Generator Account). There should be only one Generator Account listed. Every row (account) should have one and only one of these 3 boxes checked. *(Required)*
- **Account Address** - Provide an address, including unit number, for all Accounts (for the Generator Account you may use the address of the nearest Common Area Account). *(Required)*
- **Name** - For Common Area Accounts and the Generator Account, the Owner's name must be entered. For Residential Unit Accounts, enter the name of the occupant, if it is known.

- **PG&E Account Number** - Enter the PG&E Account number on all Common Area Accounts and Generator Accounts (Required)
- **Otherwise Applicable Rate Schedule** – Enter the PG&E Otherwise Applicable Rate Schedule (OAS) for all Common Area Accounts and Generator Accounts (Required).
- **Common Area Account that will receive Solar Allocation Percentage (%)** – Check the box to designate the one Common Area account that will receive the Solar Allocation for any Residential Unit with a closed PG&E account, as provided in Section 2.f of the NEMVNM tariff¹. (If PG&E service is established by the Owner for the unoccupied Residential Unit Account, the credit will remain with that Account). Upon re-establishing PG&E electric service for the Residential Unit Account, the Solar Allocation Percentage will no longer be applied to the designated Common Area Account. **ONLY ONE COMMON AREA ACCOUNT MAY BE SELECTED.**
- **Solar Allocation Percentage** – For each Common Area Account and Residential Unit Account listed (but not the Generator Account), enter the Solar Allocation Percentage to two decimal places. The Solar Allocation Percentage for each Residential Unit Account must be in proportion to the relative size of each unit, consistent with the manner in which affordable housing rents are established. The total of all Solar Allocation Percentages must equal 100%.
- **Appendix A, Section 2 Page Numbers** – In the space provided on the bottom of each page, please mark the page number and total number of pages for your Appendix A, Section 2 Account List. (Start with Page 1 and do not count the page numbers for these two instruction pages.)

5) If the Eligible Low Income Facility has been on the MASH program for less than 5 years, verify that: (for all pages included)

Total of Solar Allocation Percentages for all the Common Area Accounts (if any) _____

Total of Solar Allocation Percentage for all the Residential Unit Accounts _____

These numbers must match the percentages provided in number 3 above (if receiving MASH incentives), from Line 2, and must add up to 100%.

¹ Subject to CPUC approval for the MASH program, this would allow in the first 5 years the Solar Allocation Percentage to be transferred to a Common Area Account from a Residential Unit Account.

Section 2

#	Account Type Check only one box in each column for each row (required field)			Account Address (required field) (for Generator Account use address of nearest common area account)	For Residential Units, Last Name of Occupant, if known For Common Area and Generator Accounts, Owner's Name (Name on PG&E Account)	(Required field for Common Area Accounts and Generator Account only) PG&E Account Number	(Required field for Common Area Accounts and Generator Account ¹ only) Otherwise Applicable Rate Schedule (OAS) under NEMVNM	Check row for the ONE Common Area Account that will receive Solar Allocation % from empty Residential units ²	(Required Field for Common Area Accounts and Residential Accounts) Solar Allocation Percentage
	Common Area	Residential Unit	Generator Account (only 1)						
1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					<input type="checkbox"/>	
2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					<input type="checkbox"/>	
3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					<input type="checkbox"/>	
4	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					<input type="checkbox"/>	
5	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					<input type="checkbox"/>	
6	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					<input type="checkbox"/>	
7	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					<input type="checkbox"/>	
8	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					<input type="checkbox"/>	
9	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					<input type="checkbox"/>	
10	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					<input type="checkbox"/>	
11	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					<input type="checkbox"/>	
12	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					<input type="checkbox"/>	
13	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					<input type="checkbox"/>	
14	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					<input type="checkbox"/>	
15	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					<input type="checkbox"/>	
16	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					<input type="checkbox"/>	
17	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					<input type="checkbox"/>	
Total solar allocation for this page									

Project Identification Number _____ (for PG&E's use only)

Account List - Appendix A Section 2 Page _____ of _____

¹ Generator Account must be on a residential rate schedule

² Subject to CPUC approval for the MASH program, this would allow in the first 5 years the Solar Allocation Percentage to be transferred to a Common Area Account from a Residential Unit Account.

Please complete this agreement in its entirety



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Sheet 1

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Advice Letter No: 3422-E
Decision No. 08-10-036

Issued by
Brian K. Cherry
Vice President
Regulatory Relations

Date Filed February 13, 2009
Effective
Resolution No.



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 Regulatory Relations

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

Aglet	Department of the Army	Northern California Power Association
Agnews Developmental Center	Dept of General Services	Occidental Energy Marketing, Inc.
Alcantar & Kahl	Division of Business Advisory Services	OnGrid Solar
Ancillary Services Coalition	Douglas & Liddell	PPL EnergyPlus, LLC
Anderson & Poole	Douglass & Liddell	Pinnacle CNG Company
Arizona Public Service Company	Downey & Brand	Praxair
BART	Duke Energy	R. W. Beck & Associates
BP Energy Company	Duncan, Virgil E.	RCS, Inc.
Barkovich & Yap, Inc.	Dutcher, John	RMC Lonestar
Bartle Wells Associates	Ellison Schneider & Harris LLP	Recon Research
Blue Ridge Gas	Energy Management Services, LLC	SCD Energy Solutions
Braun & Associates	FPL Energy Project Management, Inc.	SCE
C & H Sugar Co.	Foster Farms	SESCO
CA Bldg Industry Association	Foster, Wheeler, Martinez	SMUD
CAISO	Franciscan Mobilehome	SPURR
CLECA Law Office	G. A. Krause & Assoc.	Santa Fe Jets
CSC Energy Services	GLJ Publications	Seattle City Light
	Goodin, MacBride, Squeri, Schlotz & Ritchie	Sempra Utilities
California Cotton Ginners & Growers Assn	Green Power Institute	Sequoia Union HS Dist
California Energy Commission	Hanna & Morton	Sierra Pacific Power Company
California League of Food Processors	Heeg, Peggy A.	Silicon Valley Power
California Public Utilities Commission	Hitachi	Smurfit Stone Container Corp
Calpine	Hogan Manufacturing, Inc.	Southern California Edison Company
Cameron McKenna	Imperial Irrigation District	St. Paul Assoc.
Cardinal Cogen	Innercite	Sunshine Design
Casner, Steve	International Power Technology	Sutherland, Asbill & Brennan
Cerox	Intestate Gas Services, Inc.	TFS Energy
Chamberlain, Eric	J. R. Wood, Inc.	Tabors Caramanis & Associates
Chevron Company	JTM, Inc.	Tecogen, Inc.
Chris, King	Los Angeles Dept of Water & Power	Tiger Natural Gas, Inc.
City of Glendale	Luce, Forward, Hamilton & Scripps LLP	Tioga Energy
City of Palo Alto	MBMC, Inc.	TransCanada
City of San Jose	MRW & Associates	Turlock Irrigation District
Clean Energy Fuels	Manatt Phelps Phillips	U S Borax, Inc.
Coast Economic Consulting	Matthew V. Brady & Associates	United Cogen
Commerce Energy	McKenzie & Associates	Utility Cost Management
Commercial Energy	Meek, Daniel W.	Utility Resource Network
Constellation	Merced Irrigation District	Utility Specialists
Constellation New Energy	Mirant	Vandenberg Air Force
Consumer Federation of California	Modesto Irrigation District	Verizon
Crossborder Energy	Morgan Stanley	Wellhead Electric Company
Davis Wright Tremaine LLP	Morrison & Foerster	Western Manufactured Housing Communities Association (WMA)
		White & Case
Day Carter Murphy	New United Motor Mfg., Inc.	eMeter Corporation
Defense Energy Support Center	Norris & Wong Associates	
Department of Water Resources	North Coast SolarResources	