

PUBLIC UTILITIES COMMISSION

505 VAN NESS AVENUE  
SAN FRANCISCO, CA 94102-3298



**REVISED**

September 23, 2010

**Advice Letters 3718-E and 3718-E-A**

Jane K. Yura  
Vice President, Regulation and Rates  
Pacific Gas and Electric Company  
77 Beale Street, Mail Code B10B  
P.O. Box 770000  
San Francisco, CA 94177

**Subject: Revision to 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 and Supplemental Filing***

Dear Ms. Yura:

Advice Letters 3718-E and 3718-E-A are effective September 15, 2010.

Sincerely,

A handwritten signature in blue ink that reads "Julie A. Fitch".

Julie A. Fitch, Director  
Energy Division



**Jane K. Yura**  
Vice President  
Regulatory Relations

Pacific Gas and Electric Company  
77 Beale St., Mail Code B10B  
P.O. Box 770000  
San Francisco, CA 94177

Fax: 415.973.6520

August 16, 2010

**Advice 3718-E**

(Pacific Gas and Electric Company ID U 39 E)

Public Utilities Commission of the State of California

**Subject: Revisions to 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***

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

**Purpose**

PG&E submits this advice letter to request approval for revisions to Electric Rate Schedule NEMVNMA, *Net Energy Metering for Virtual Net Energy Metering*, and to create new Electric Form 79-1124.

**Background**

On June 8, 2009, PG&E received approval for Advice 3422-E-A, which created Electric Rate Schedule NEMVNMA. Since that time, PG&E has interconnected hundreds of customers on this program and gained considerable experience about the needs of its program participants. Simultaneously, several low income project developers have approached both the California Public Utilities Commission (Commission) and PG&E regarding the challenges that they faced in satisfying the program requirements.

In response, the Energy Division identified resolution of these issues as a “high priority” in the Staff Proposal for California Solar Initiative (CSI) Program Modifications, which was included with the Administrative Law Judge’s Ruling filed on July 26, 2010, in Rulemaking (R.)10-05-004.

PG&E recognizes that certain NEMVNMA implementation issues are very time sensitive and a “status quo” approach might negatively impact program

participation. As such, PG&E proposes tariff changes related to the following areas of concern to address some of the more pressing implementation issues:

1. Netting of customer generated power beyond the Service Delivery Point within a defined low income development.
2. Expansion of the NEMVNMA program relative to #1 to customers that meet the eligibility requirements for MASH but do not receive MASH funding.

The proposed tariff changes would be effective until December 31, 2011. PG&E submits this advice letter to revise Electric Rate Schedule NEMVNMA and create new Electric Form 79-1124.

### **Tariff Revisions**

- **The NEMVNMA tariff**

The following changes were made to the NEMVNMA tariff:

- a) Two new options were added to the *Applicability* section, for projects that will encompass more than a single service delivery point. The first is option c:

*Customers that meet the requirements of provisions "a" or "b" above except for the single Customer Service Delivery Point restriction may alternatively elect to serve Accounts located at multiple Customer Service Delivery Points within their "Eligible Low Income Development" so as to fully utilize their solar generator(s) of not more than 1,000 kW also sited within their "Eligible Low Income Development."*

*This option c. is only available to Customer-generators that are ready to interconnect and operate by December 31, 2011, including evidence of the customer's final inspection clearance from the governmental authority having jurisdiction over the generating facility.*

The second is option d:

*Customers that meet the eligibility requirements for MASH but did not receive MASH funding may participate in option c.*

*This option c. is only available to Customer-generators that are ready to interconnect and operate by December 31, 2011, including evidence of the customer's final inspection clearance from the governmental authority having jurisdiction over the generating facility.*

- b) A new definition is added for "Eligible Low Income Development":

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

- c) Options c. and d. are included in the definition of an “Eligible Low Income Facility.”
  - d) The *Applicability* section on Generator Size is modified stipulating that “*Specific size limit details will be determined by the relevant incentive program (MASH or NSHP) handbooks. These generator size limits apply to all Eligible Low Income Developments whether they actually receive MASH or NSHP incentives or not.*”
  - e) In various places throughout the tariff, references to a single generator are modified to reflect the possibility that under options c. and d., multiple generators may be included in an Eligible Low-Income Development.
  - f) In the *Applicability* section, a sentence is added to *Modifications to Solar Generating Facility*, “*Customers that are participating pursuant to the multiple customer service delivery point option (c. and d.) in the Applicability section may not add generation pursuant to this option after December 31, 2011.*”
  - g) Under Special Condition 2 b. regarding *Billing* and the *Annual Solar Energy Credit Allocation*, two sentences are added. Due to the fact the all the bills are linked in an Eligible Low Income Development, a sentence was added, “*Any allocation error caused by the owner will be corrected prospectively.*” The second added sentence clarifies PG&E’s handling of the allocation: “*Allocations will be rounded to the nearest 100th of a percent.*”
  - h) In Special Condition 3, *Interconnection*, the new form name, number and appendices list (described below) for Eligible Low Income Development are included in the table of required forms.
- New Electric Form 79-1124, *Eligible Low Income Development Virtual Net Energy Metering Application and Interconnection Agreement for Multifamily Affordable Housing with Solar Generation totaling 1 Megawatt or Less*

This new form will address interconnection requirements of an Eligible Low Income Development applying for NEMVNMA under applicability options c. and d. Such developments are expected to typically include multiple generators. It

will include two appendices, Appendix A for listing all the accounts in the project and their solar allocations, and Appendix B, one of which will need to be completed for each generator in the Eligible Low Income Development.

### **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 **September 6, 2010**, which is 21 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: [jjn@cpuc.ca.gov](mailto:jjn@cpuc.ca.gov) and [mas@cpuc.ca.gov](mailto: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:

Jane K. Yura  
Vice President, Regulation and Rates  
Pacific Gas and Electric Company  
77 Beale Street, Mail Code B10B  
P.O. Box 770000  
San Francisco, California 94177

Facsimile: (415) 973-6520  
E-mail: [PGETariffs@pge.com](mailto:PGETariffs@pge.com)

### **Effective Date**

PG&E requests that this advice filing become effective on regular notice, **September 15, 2010**, which is 30 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. Address changes to the General Order 96-B service list and all electronic approvals should be directed to

PGETariffs@pge.com. Advice letter filings can also be accessed electronically at:  
<http://www.pge.com/tariffs>.

*Jane Yura - OB*

Vice President, Regulation and Rates

Attachments

cc: Service List for R.08-03-008  
Amy Reardon, Energy Division

# 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: Olivia Brown

Phone #: 415.973.9312

E-mail: oxb4@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) #: 3718-E

**Tier:** 2

Subject of AL: Revisions to 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  
Keywords (choose from CPUC listing): Metering

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: N/A

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: N/A

Resolution Required?  Yes  No

Requested effective date: September 15, 2010

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). N/A

Tariff schedules affected: Electric Schedule NEMVNMA and New Electric Form 79-1124

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**  
**[gnj@cpuc.ca.gov](mailto:gnj@cpuc.ca.gov) and [mas@cpuc.ca.gov](mailto:mas@cpuc.ca.gov)**

**Pacific Gas and Electric Company**

**Attn: Jane K. Yura, Vice President, Regulation and Rates**

**77 Beale Street, Mail Code B10B**

**P.O. Box 770000**

**San Francisco, CA 94177**

**E-mail: [PGETariffs@pge.com](mailto:PGETariffs@pge.com)**

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

**Title of Sheet**

**Cancelling Cal  
P.U.C. Sheet No.**

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29598-E	ELECTRIC SCHEDULE NEMVNMA VIRTUAL NET ENERGY METERING FOR MULTIFAMILY AFFORDABLE HOUSING (MASH/NSHP) WITH SOLAR GENERATOR(S) Sheet 1	28574-E
29599-E	ELECTRIC SCHEDULE NEMVNMA VIRTUAL NET ENERGY METERING FOR MULTIFAMILY AFFORDABLE HOUSING (MASH/NSHP) WITH SOLAR GENERATOR(S) Sheet 2	28283-E*
29600-E	ELECTRIC SCHEDULE NEMVNMA VIRTUAL NET ENERGY METERING FOR MULTIFAMILY AFFORDABLE HOUSING (MASH/NSHP) WITH SOLAR GENERATOR(S) Sheet 3	
29601-E	ELECTRIC SCHEDULE NEMVNMA VIRTUAL NET ENERGY METERING FOR MULTIFAMILY AFFORDABLE HOUSING (MASH/NSHP) WITH SOLAR GENERATOR(S) Sheet 4	28284-E*
29602-E	ELECTRIC SCHEDULE NEMVNMA VIRTUAL NET ENERGY METERING FOR MULTIFAMILY AFFORDABLE HOUSING (MASH/NSHP) WITH SOLAR GENERATOR(S) Sheet 5	29161-E
29603-E	ELECTRIC SCHEDULE NEMVNMA VIRTUAL NET ENERGY METERING FOR MULTIFAMILY AFFORDABLE HOUSING (MASH/NSHP) WITH SOLAR GENERATOR(S) Sheet 6	29162-E

**ATTACHMENT 1  
Advice 3718-E**

<b>Cal P.U.C. Sheet No.</b>	<b>Title of Sheet</b>	<b>Cancelling Cal P.U.C. Sheet No.</b>
29604-E	ELECTRIC SCHEDULE NEMVNMA VIRTUAL NET ENERGY METERING FOR MULTIFAMILY AFFORDABLE HOUSING (MASH/NSHP) WITH SOLAR GENERATOR(S) Sheet 7	28287-E*
29605-E	ELECTRIC SCHEDULE NEMVNMA VIRTUAL NET ENERGY METERING FOR MULTIFAMILY AFFORDABLE HOUSING (MASH/NSHP) WITH SOLAR GENERATOR(S) Sheet 8	28288-E*
29606-E	ELECTRIC SCHEDULE NEMVNMA VIRTUAL NET ENERGY METERING FOR MULTIFAMILY AFFORDABLE HOUSING (MASH/NSHP) WITH SOLAR GENERATOR(S) Sheet 9	28289-E*
29607-E	ELECTRIC SCHEDULE NEMVNMA VIRTUAL NET ENERGY METERING FOR MULTIFAMILY AFFORDABLE HOUSING (MASH/NSHP) WITH SOLAR GENERATOR(S) Sheet 10	28290-E*
29608-E	ELECTRIC SCHEDULE NEMVNMA VIRTUAL NET ENERGY METERING FOR MULTIFAMILY AFFORDABLE HOUSING (MASH/NSHP) WITH SOLAR GENERATOR(S) Sheet 11	28928-E
29613-E	Electric Sample Form 79-1124 Eligible Low Income Development Virtual Net Energy Metering Application and Interconnection Agreement for Multifamily Affordable Housing with Solar Generation totaling 1 Megawatt or Less Sheet 1	
29610-E	ELECTRIC TABLE OF CONTENTS Sheet 1	29514-E

**ATTACHMENT 1  
Advice 3718-E**

<b>Cal P.U.C. Sheet No.</b>	<b>Title of Sheet</b>	<b>Cancelling Cal P.U.C. Sheet No.</b>
29611-E	ELECTRIC TABLE OF CONTENTS RATE SCHEDULES Sheet 4	29495-E
29614-E	ELECTRIC TABLE OF CONTENTS SAMPLE FORMS Sheet 15	28261-E



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

Sheet 1

APPLICABILITY: This virtual net energy-metering schedule is applicable to Customers with Bundled Service Accounts, who operate (a) solar generator(s) of not more than 1,000 kW in parallel with PG&E's electric system, all on the same Premises (or meeting the requirements in c. or d.) for:

(T)  
 |  
 (T)

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, or

c. Customers that meet the requirements of provisions "a" or "b" above except for the single Customer Service Delivery Point restriction may alternatively elect to serve Accounts located at multiple Customer Service Delivery Points within their "Eligible Low Income Development" so as to fully utilize their solar generator(s) of not more than 1,000 kW also sited within their "Eligible Low Income Development."

(T)  
 (N)

This option c. is only available to Customer-generators that are ready to interconnect and operate by December 31, 2011, including evidence of the customer's final inspection clearance from the governmental authority having jurisdiction over the generating facility.

d. Customers that meet the eligibility requirements for MASH but did not receive MASH funding, may participate in option c.

This option d. is only available to Customer-generators that are ready to interconnect and operate by December 31, 2011, , including evidence of the customer's final inspection clearance from the governmental authority having jurisdiction over the generating facility.

(N)

\* 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 NEMVNMA**  
 VIRTUAL NET ENERGY METERING FOR MULTIFAMILY  
 AFFORDABLE HOUSING (MASH/NSHP) WITH SOLAR GENERATOR(S)

Sheet 3

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.

(L)

**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 up to one megawatt solar photovoltaic generation (Solar Generating Facilities) are 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.
- b. Common Area Account– each load-only Account for a common area, if any, and for which the Owner is the PG&E Customer.
- c. Residential Unit Account – each load-only account for a residential unit located in the Eligible Low Income Facility, and for which an occupant is the PG&E Customer.

(T)  
 (T)  
 (T)

Any Account that includes load, except one that includes only Solar Generating Facility load or as otherwise provided in NEMVNMA, is referred to as a “Customer Load Account”.

**Owner Obligations** – The Owner must:

- a. comply with all applicable safety and performance standards as delineated in PG&E’s Electric Rule 21 and other applicable tariffs, safety and performance standards established by the National Electrical Code, the Institute of Electrical and Electronics Engineers, and accredited testing laboratories such as Underwriters Laboratories and, where applicable, rules of the California Public Utilities Commission regarding safety and reliability. The Owner is solely responsible for the ongoing maintenance and operation of the Solar Generating Facility;
- 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. agree that PG&E may from time to time release to the California Energy Commission and/or the California Public Utilities Commission, information regarding the Eligible Low Income Facility, including the Owner’s name, and Solar Generating Facility location, capacity and operational characteristics, and Customer names at the Residential Unit Accounts; AND
- d. agree to comply with all applicable rules and requirements of PG&E’s Net Energy Metering tariffs

(L)

(Continued)



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

Sheet 4

APPLICABILITY:  
 (Cont'd.)

**Modifications to Solar Generating Facility** – If the Eligible Low Income Facility’s Solar Generating Facility has not been previously approved for interconnection by PG&E, or where any modification to the previously approved Solar Generating Facility has been made, the Owner must complete the interconnection process in Special Condition 3 of this tariff. Customers that are participating pursuant to the multiple customer service delivery point option (c. and d.) in the Applicability section may not add generation pursuant to this option after December 31, 2011.

(L)  
 (N)  
 |  
 (N)

**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 and charges 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 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 NEMVNMA. 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 loads 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 each Service Account, the energy rates and customer charges will be in accordance with their OAS.

Generator Accounts eligible for service under NEMVNMA 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. NEMVNMA G – For Generator Accounts
2. NEMVNMA C – For Common Area Accounts
3. NEMVNMA R – For Residential Unit Accounts

(L)

(Continued)



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

Sheet 5

**SPECIAL  
 CONDITIONS:**

1. METERING: NEMVNMA net energy metering shall be accomplished at: (L)
- a. The Generator Account(s) where the Solar Generating Facilities are located, using either: (T)
- (i) a PG&E interval meter (capable of recording solar energy system output in up to fifteen minute increments), if required by PG&E to allocate the Solar Energy Credit based on the OAS of the Customer Load Accounts in an Eligible Low Income Facility. The Owner shall be responsible for, and shall bear all costs associated with PG&E providing and installing an interval meter for each Generator Account. The cost of the Owner's interval meter installation will be determined by PG&E and will vary on a site specific basis. (T)
- (ii) a PG&E "time-of-use" (TOU) meter, if based on review of the Customer Load Accounts' OASs PG&E is able to allocate the Solar Energy Credits. This option will only be available until any Customer Load Account OAS change necessitates that the Owner provide an interval meter per (i) in order to properly allocate Solar Energy Credits. The Owner shall be responsible for, and shall bear all costs associated with, PG&E providing and installing a TOU meter for the Generator Account (or upgrading to an interval meter if required in the future). For the TOU option, the Owner may choose charges based on either a one-time, up-front fee or as a monthly meter charge. Prices are as follows:
- | TOU Meter Option | One Time upfront fee | Monthly Meter Charge                  |
|------------------|----------------------|---------------------------------------|
| Single Phase     | \$755.00             | Based on the OAS monthly meter charge |
| Three Phase      | \$890.00             | Based on the OAS monthly meter charge |
- If the Generator 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 PG&E 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.
- a. Each Common Area Account, if any exist, using PG&E metering appropriate to its otherwise applicable rate schedule.
- a. Each Residential Unit Account using PG&E metering appropriate to its otherwise applicable rate schedule. (L)

(Continued)



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

Sheet 6

SPECIAL  
 CONDITIONS:  
 (Cont'd.)

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 the Relevant Period as defined in Special Condition 2 g.

b. The Annual Solar Energy Credit Allocation

The Owner at the time the Eligible Low Income Facility first takes service under NEMVNMA 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). Any allocation error caused by the owner will be corrected prospectively.

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 NEMVNMA application and interconnection agreement as described in Special Condition 3. Allocations will be rounded to the nearest 100th of a percent.

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

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

(L)

(L)

(Continued)





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

Sheet 8

SPECIAL  
 CONDITIONS:  
 (Cont'd.)

2. BILLING (Cont'd.):

(L)

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

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

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

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

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

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

If the Customer 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 is a net generator during any discrete TOU period, the net production shall be valued at the 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's net consumption (kWh) 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 residential and Small 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. (Customer Load Accounts other than those on residential and Small Commercial must pay monthly.) 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.

(L)

(Continued)



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

Sheet 9

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 NEMVNMA, 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.

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 energy 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 only to the 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.

(L)

(L)

(Continued)

Advice Letter No: 3718-E  
 Decision No. D.08-10-036

Issued by  
**Jane K. Yura**  
 Vice President  
 Regulation and Rates

Date Filed August 16, 2010  
 Effective September 15, 2010  
 Resolution No. \_\_\_\_\_



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

Sheet 10

SPECIAL  
 CONDITIONS:  
 (Cont'd.)

2. BILLING (Cont'd.):

(L)

g. Relevant Period 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 in 2.i 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 in 2.f above:

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

h. Billing Information

PG&E shall provide each 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 other than Small Commercial, the net balance of all moneys owed must be paid on each monthly billing cycle. When the customer is a net electricity producer over a monthly billing cycle, the value of any excess kilowatt-hours generated during the billing cycle shall be carried over to the following billing period and appear as a credit on the customer's account, until the end of the Relevant Period.

(L)

(Continued)



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

Sheet 11

SPECIAL  
 CONDITIONS:  
 (Cont'd.)

1. INTERCONNECTION:

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

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

(L)  
 (T)  
 (T)  
 (L)

4. Establishing a True-up Date For Net Surplus Electricity Compensation

Starting January 1, 2011, a NEMVNMA customer with "net surplus electricity" (all electricity generated by an eligible customer measured in kilowatt-hours over a 12-month period that exceeds the amount of electricity consumed by that eligible customer), will be provided with options regarding net surplus compensation. In the interim period, NEMVNMA customers may choose to:

- (a) automatically be eligible to elect to receive any true-up net surplus electricity compensation starting on their account's regular 2011 true-up and thereafter; or
- (b) request that PG&E perform their 2010 true-up on their account (if it has not already been trued-up in 2010), so that the customer may elect to receive any true-up net surplus electricity compensation starting in 2011 on a new, earlier 12-month true-up date. Once PG&E receives a written request for true-up from the customer, PG&E will perform the 2010 true-up setting the new date, but the NEM customer's surplus electricity, if any surplus exists, will be zeroed out.
- (c) not receive any true-up net surplus electricity compensation under this Special Condition by notifying PG&E in writing that they do not want to participate. PG&E will treat any true-up net surplus electricity as described in Special Condition 2(g).



**Electric Sample Form 79-1124** Sheet 1 (N)  
Eligible Low Income Development Virtual Net Energy Metering Application and (N)  
Interconnection Agreement for Multifamily Affordable Housing with Solar Generation (N)  
totaling 1 Megawatt or Less

**Please Refer to Attached  
Sample Form**

Advice Letter No: 3718-E  
Decision No. D.08-10-036

Issued by  
**Jane K. Yura**  
Vice President  
Regulation and Rates

Date Filed August 16, 2010  
Effective September 15, 2010  
Resolution No. \_\_\_\_\_



Eligible Low Income Development Virtual Net Energy Metering Application and Interconnection Agreement for Multifamily Affordable Housing with Solar Generation totaling 1 Megawatt or Less



Please note that this agreement does not constitute an application for 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.

Unique Project Name \_\_\_\_\_(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 Eligible Low Income Development Virtual Net Energy Metering Application and Interconnection Agreement for Multifamily Affordable Housing with Solar Generation totaling 1 Megawatt or Less ("Agreement") applies to electric rate schedule NEMVNMA, Virtual Net Energy Metering Service for Multifamily Affordable Solar Housing for the Owner or designated agent of the Owner ("Owner") with solar electric Generation with a total capacity of 1 megawatt (1,000 kW) or less that is located on Owner's existing buildings in an Eligible Low Income Development that received, or are eligible to receive, 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. (Owners that meet the eligibility requirements for MASH but received project funding from another source may participate as provided in Schedule NEMVNMA.)

In addition, in order to be eligible, all the generation must be ready to interconnect and operate in parallel with Pacific Gas and Electric Company's ("PG&E") Distribution System by NO LATER THAN DECEMBER 31, 2011 .

The purpose of this Agreement is to allow Owner to interconnect solar electric generation with PG&E's Distribution System, subject to the provisions of this Agreement and PG&E's rate schedule NEMVNMA. Owner has elected to interconnect and operate its solar electric Generation in parallel with PG&E's Distribution System, to offset part or all of the Owner's Eligible Low Income Development'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. Owner's Information -**

Eligible Low Income Development Project Name			
Owner-Applicant's Name			
Street Address			
City	State	Zip	
Mailing Address			
City	State	Zip	
Business Phone	Cell Phone	Fax	Email

**C. 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	
<input type="checkbox"/> 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.			

**D. Other Contact Information** (This information is optional.)

Contact Person	Company Name		
Mailing Address			
City	State	Zip	
Business Phone	Fax	Email	
<input type="checkbox"/> 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

**Please complete this agreement in its entirety**

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 Received 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](http://www.pge.com/includes/docs/pdfs/shared/newgenerator/solarwindgenerators/standardenet/customer_behalf_app.pdf)

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.

**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 <b>94177</b>	Pacific Gas and Electric Company Attention: Generation Interconnection Services Mail Code N7L 245 Market St. San Francisco, California <b>94105</b>

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](mailto:gen@pge.com)

**F. Required Documentation for Agreement (in addition to that required in Appendix B):**

**Plat Map** – A parcel plot or plat map must show the building or buildings that will be included as part of the Eligible Low Income Development, the meter locations, and denote where the PV solar generating facility(ies) will be located and interconnected.

**Site Diagram** – The site diagram must show the building or buildings that will be included as part of the Eligible Low Income Development, the meter locations, and denote where the PV solar generating facility(ies) will be located and interconnected.

**G. 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.

**H. 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 NEMVNMA.

**I. 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.

**J. Appendix A**

Attached to this agreement is *Appendix A - Designation of Generator Accounts, and their associated Common Area Accounts and Residential Units with their Respective Solar Credit Allocation*

**Please complete this agreement in its entirety**

**K. Appendix B**

Attached to this agreement is \_\_\_\_\_ completed copy/copies of *Appendix B – NEMVNMA Generating Facility Interconnection Agreement*, corresponding to each of the generator accounts listed in Appendix A. Owner agrees to comply with Electric Tariff Rule 21 and all other applicable tariffs at all times.

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 Generator Accounts, and their Associated Common Area Accounts and Residential Units with their respective Solar Energy Credit Allocation

Unique Project Name \_\_\_\_\_ (for PG&E's use only)

## Section 1 Instructions

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

Eligible Low Income Development Name (must be the same name as that on Page 2 of the Agreement)		
Owner Name	Address	Date

- 2) Is this application for a new NEMVNMA Eligible Low Income Development or a reallocation for an existing Eligible Low Income Development (Existing NEMVNMA Development 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 NEMVNMA, 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 NEMVNMA 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 NEMVNMA Eligible Low Income Development:

This application is for a reallocation for an existing NEMVNMA Eligible Low Income Development:

- 3) A NEMVNMA Eligible Low Income Development on NEMVNMA must either receive incentive funds from the Multifamily Affordable Solar Housing Program (MASH), or the New Solar Homes Partnership (NSHP) for affordable housing, or be eligible to receive funds from the MASH program.

Is this Development receiving funds from either the MASH or NSHP program? Yes  No

If it is not receiving either MASH or NSHP incentives, is it eligible to receive MASH funds? Yes  No

- 4) For a new NEMVNMA Eligible Low Income Development, if you applied for MASH incentives, 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 %

- 5) Please use the attached Appendix A, Section 2 to list all accounts that are located in the Eligible Low Income Development that will be taking service on NEMVNMA.

On a building by building basis, please list all participating Generator Accounts, Common Area Accounts (if any) and all Residential Unit Accounts as specified in Appendix A.

**Please complete this agreement in its entirety**

Please note for each row:

- **Account Type** - check the one box corresponding to the type of account (that is, **Generator Account**, **Common Area** or **Residential Unit**). Every row (account) should have one and only one of these 3 boxes checked. *(Required)*. Additionally, Generator accounts must also list the CEC AC rating in the **Generator Capacity** column and be numbered, starting with "1" in the **Generator Number** column. This Agreement must include a completed copy of Appendix B corresponding to each generator shown in this table and the solar generator capacity on Appendix B Part IV section C. must match that listed in this table. The sum of all generators' capacities listed must not exceed 1 megawatt.
- **Account Address** - Provide an address, including unit number, for all Accounts (for Generator Accounts without an address please specify location in detail). *(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 desired Generator Accounts *(Required)*.
- **Total Solar Generation** – (bottom of each page) For each Generator Account total the CEC AC rating. The total of all rating of all Generator Accounts on all pages must equal no more than 1 megawatt.
- **Solar Allocation Percentage** – (bottom of the each page) 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 Energy 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 Energy 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.)

6) If the Eligible Low Income Development 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%.

# Appendix A – Designation of Generator Accounts, and their Associated Common Area Accounts and Residential Units with their respective Solar Energy Credit Allocation

Unique Project Name \_\_\_\_\_ (for PG&E's use only)

## **Section 2**

Please list all participating on a building by building basis.

#	Account Type Check only one box for each row <i>(required field)</i>					Account Address <i>(required field)</i>  (for Generator Accounts without an address please describe location in detail)	Owner's Name  <i>(For Residential Units, Last Name of Occupant, if known  For Common Area and Generator Accounts. Use Name as shown on PG&amp;E Account)</i>	PG&E Account Number  <i>(Required field for Common Area Accounts and Generator Account only)</i>	Otherwise Applicable Rate Schedule (OAS) under NEMVNMA  <i>(Required field for Common Area Accounts and Generator Account only)</i>	Solar Energy Allocation Percentage  <i>( up to 2 decimal places. Required Field for Common Area Accounts and Residential Accounts)</i>
	Generator Account	Generator Number <small>(must complete an Appendix B with a corresponding generator number)</small>	Generator Capacity <small>(must total to no more than 1 MW)</small>	Common Area	Residential Unit					
1	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>					
2	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>					
3	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>					
4	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>					
5	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>					
6	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>					
7	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>					
8	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>					
9	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>					
10	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>					
11	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>					
12	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>					
13	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>					
14	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>					
15	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>					
Total Solar Generation this page _____						Total Solar Energy Allocation Percentage for this page _____				

Account List - Appendix A Section 2 --- Page \_\_\_\_\_ of \_\_\_\_\_

**Please complete this agreement in its entirety**

# Appendix B – NEMVNMA Generating Facility Interconnection Agreement

Unique Project Name \_\_\_\_\_ (for PG&E's use only)

*One completed Appendix B Interconnection Agreement must be submitted for each NEMVNMA generating facility in the Eligible Low Income Development. The number of interconnection agreements submitted should match the generator accounts shown in appendix A. All sections should be completed (unless otherwise noted in the text.)*

**Part I – Requirements for Interconnection**

*Please complete all parts of this section:*

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

Eligible Low Income Facility Name (must be the same name as that on Page 1 of the Agreement)		Unique Generator Number – (must match listing in Appendix A)
Nearest Street Address where this Generating Facility will Be Located		
City	State	Zip
Contractor Name (must be the same name as that on Page 1 of the Agreement)		

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

- A New NEMVNMA Generating Facility interconnection (at an existing service)
- For Physical Changes to an interconnected NEMVNMA Generating Facility with previous approval by PG&E (adding PV panels, changing inverters, or changing load and/or operations).
- A New NEMVNMA 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 Energy Generation Credits for an Existing NEMVNMA 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 NEMVNMA accounts.

**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.

**Please complete this agreement in its entirety**

## 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 NEMVNMA Owner's solar generating facility. **Please contact Generation Interconnection Services at 415-972-5676 or email [gen@pge.com](mailto: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 NEMVNMA.

## 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](mailto:gen@pge.com), or visiting PG&E's website at [www.pge.com/standardnem](http://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:

2. 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 Rate Schedule 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.
3. 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 NEMVNMA Eligible Low Income Facility and utility's Distribution System.

**Please complete this agreement in its entirety**

- 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. Only CEC-certified inverters<sup>1</sup> 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 description must include the photovoltaic panel manufacturer name, model number, number of panels, and the nameplate rating. As with the inverters, only CEC-certified will pass the requirements for Simplified Interconnection. (See the PG&E website [www.pge.com/gen](http://www.pge.com/gen) or the CEC website in footnote 1 below.)
  - 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.
4. 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.**
5. **Insurance** - Information regarding any existing **insurance coverage** (liability and/or property) for the Schedule NEMVNMA 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.

I have insurance. I hereby certify that there is presently insurance coverage in the amount of \$ \_\_\_\_\_ for the Schedule NEMVNMA 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 this NEMVNMA Generating Facility

## 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.

<sup>1</sup> The CEC's eligible equipment list can be found under the CSI heading at: [www.consumerenergycenter.org/erprebate/equipment.html](http://www.consumerenergycenter.org/erprebate/equipment.html)

**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](http://www.pge.com/demandresponse) )

**Part IV – Description of the Generating Facilities**

*Use additional sheets, if necessary.*

**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 <sup>2</sup> kW (per unit)	Quantity of Inverters	Inverter Output Voltage	Single or Three phase?
1						
2						
3						

**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 CEC Rating kW (per unit)	Quantity of PV Panels	Total Capacity <sup>3</sup> (kW)	Inverter number from (B.) above (1 or 2)
1						
2						
3						

**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? \_\_\_\_\_

<sup>2</sup> 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.

<sup>3</sup> The total capacity is the PV panel rating times the quantity.

**Please complete this agreement in its entirety**



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Advice Letter No: 3718-E  
 Decision No. D.08-10-036

Issued by  
**Jane K. Yura**  
 Vice President  
 Regulation and Rates

Date Filed August 16, 2010  
 Effective September 15, 2010  
 Resolution No. \_\_\_\_\_



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

Alcantar & Kahl	Department of Water Resources	Northern California Power Association
Ameresco	Department of the Army	Occidental Energy Marketing, Inc.
Anderson & Poole	Dept of General Services	OnGrid Solar
Arizona Public Service Company	Division of Business Advisory Services	Praxair
BART	Douglass & Liddell	R. W. Beck & Associates
BP Energy Company	Downey & Brand	RCS, Inc.
Barkovich & Yap, Inc.	Duke Energy	Recon Research
Bartle Wells Associates	Dutcher, John	Recurrent Energy
Bloomberg New Energy Finance	Economic Sciences Corporation	SCD Energy Solutions
Boston Properties	Ellison Schneider & Harris LLP	SCE
Brookfield Renewable Power	Foster Farms	SMUD
C & H Sugar Co.	G. A. Krause & Assoc.	SPURR
CA Bldg Industry Association	GLJ Publications	Santa Fe Jets
CAISO	Goodin, MacBride, Squeri, Schlotz & Ritchie	Seattle City Light
CLECA Law Office	Green Power Institute	Sempra Utilities
CSC Energy Services	Hanna & Morton	Sierra Pacific Power Company
California Cotton Ginners & Growers Assn	Hitachi	Silicon Valley Power
California Energy Commission	International Power Technology	Silo Energy LLC
California League of Food Processors	Intestate Gas Services, Inc.	Southern California Edison Company
California Public Utilities Commission	Lawrence Berkeley National Lab	Sunshine Design
Calpine	Los Angeles Dept of Water & Power	Sutherland, Asbill & Brennan
Cameron McKenna	Luce, Forward, Hamilton & Scripps LLP	Tabors Caramanis & Associates
Cardinal Cogen	MAC Lighting Consulting	Tecogen, Inc.
Casner, Steve	MBMC, Inc.	Tiger Natural Gas, Inc.
Chris, King	MRW & Associates	Tioga Energy
City of Glendale	Manatt Phelps Phillips	TransCanada
City of Palo Alto	McKenzie & Associates	Turlock Irrigation District
Clean Energy Fuels	Merced Irrigation District	U S Borax, Inc.
Coast Economic Consulting	Mirant	United Cogen
Commerce Energy	Modesto Irrigation District	Utility Cost Management
Commercial Energy	Morgan Stanley	Utility Specialists
Consumer Federation of California	Morrison & Foerster	Verizon
Crossborder Energy	NRG West	Wellhead Electric Company
Davis Wright Tremaine LLP	New United Motor Mfg., Inc.	Western Manufactured Housing Communities Association (WMA)
Day Carter Murphy	Norris & Wong Associates	eMeter Corporation
Defense Energy Support Center	North America Power Partners	
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