

September 12, 2011

**Advice 3902-E**

(Pacific Gas and Electric Company ID U 39 E)

Public Utilities Commission of the State of California

**Subject: Schedule NEMV Pursuant to Decision (D.) 11-07-031, Ordering Paragraph 2**

Pacific Gas and Electric Company (“PG&E”) hereby submits for filing a new electric tariff. The new tariff sheets are listed on the enclosed Attachment I.

**Purpose**

PG&E hereby submits for filing new Electric Schedule NEMV— *Solar and/or Wind Virtual Net Energy Metering for Multiple Tenants Served at the Same Service Delivery Point* pursuant to Decision (D.) 11-07-031,<sup>1</sup> Ordering Paragraph 2, and an accompanying new form, *NEMV Application and Interconnection Agreement for an Eligible Generating Facility of 1 Megawatt or Less Serving Multiple Tenants Served at a Single Service Delivery Point* (Form 79-1131).

**Background**

In May 2010, the California Public Utilities Commission (“CPUC” or “Commission”) initiated a new Order Instituting Rulemaking (“OIR”), “Order Instituting Rulemaking Regarding Policies, Procedures and Rules for the California Solar Initiative, the Self-Generation Incentive Program and Other Distributed Generation Issues (Rulemaking 10-05-004).”

Phase 1 of this OIR addressed various issues relating to virtual net metering. After the Commission sought comments on this matter and others, it issued Decision (“D”).11-07-031 effective July 14, 2011. When first established as part of the Multifamily Affordable Solar Housing (“MASH”) Program in D.08-10-036, virtual net metering (“VNM”) allowed customers to allocate electricity generated from a single solar energy system as kilowatt hour credits to other accounts on the affordable housing property. The phase 1 Decision, D.11-07-031, among several other directives, expanded the types of customers eligible for VNM.

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<sup>1</sup> [http://docs.cpuc.ca.gov/PUBLISHED/FINAL\\_DECISION/139683.htm](http://docs.cpuc.ca.gov/PUBLISHED/FINAL_DECISION/139683.htm)

Specifically, Ordering Paragraph 2,<sup>2</sup> the basis for this advice letter, expands VNM. It states:

*“Within 60 days of the effective date of this decision, Pacific Gas and Electric Company, Southern California Edison Company and San Diego Gas and Electric Company (collectively, the utilities) shall each file Tier 2 advice letters containing modifications to their Net Energy Metering tariffs to allow Virtual Net Metering (VNM) to apply to all multi-tenant and multi-meter properties, with the limitation that sharing of bill credits can only occur for accounts served by a single service delivery point that receive a full retail rate credit unless the customer is a Multifamily Solar Housing Program participant. The revised tariffs in these advice letters should mirror the tariff created in compliance with Decision 08-10-036 for Multifamily Affordable Solar Housing (MASH) program participants. Any deviations from the MASH VNM tariffs should be explained and supported in the advice letter. The utilities may propose a one time account set up fee and monthly administrative fee for VNM service. The utilities may seek recovery of VNM implementation and set up costs in their future general rate cases.”*

The discussion in the decision offered this additional guidance:<sup>3</sup>

- “We do, however, clarify that per the NEM statutes, systems are intended primarily to offset part of all of the customer’s own electrical requirements (Pub. Util. Code Section 2827(b)(4)) and should be sized accordingly. “
- “Second, VNM should not be limited to photovoltaic (PV) systems. The expanded VNM concept can apply to any DG technology that receives a full retail rate credit under net energy metering. “
- “The parties raised many issues surrounding implementation details of an expanded VNM tariff such as allocation of credits for commercial and industrial customers, metering costs, billing charges and start up costs. We prefer to allow these details to be worked out through the compliance advice letter process rather than to address them here. We agree with parties who commented that a workshop may be useful to help resolves these issues. Energy Division may hold a workshop or direct the utilities to host a workshop to resolve implementation issues that may arise relating to the VNM tariffs. Moreover, we will direct that the expanded VNM tariffs should mirror those filed for VNM in the MASH program. If the utilities choose to deviate from the details of the MASH VNM program, their advice letter filing should contain justification to support any proposed deviations.”

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<sup>2</sup> Advice Letter 3960-E filed August 15, 2011, modifies the existing MASH VNM schedule NEMVNMA, or as PG&E re-named it, NEMVMASH.

<sup>3</sup> D.11-07-031, pages 16, 17 and 18, *Discussion* Section 4.2, *Expansion of VNM to All Customers*.

This Advice letter is intended to comply with this order to implement this change.<sup>4</sup>

### **Tariff Revisions**

The following general changes were made to the NEMV:

1. Applicability – clarified the applicability was limited to generation types eligible for a retail credit only, that is, “solar photovoltaic and/or wind generating facility ... sized no larger than the energy requirements of all Benefiting Accounts but with a maximum total size of no larger than one megawatt (1,000 kilowatts), and where the wind generator if any, has a maximum size of no larger than fifty (50) kilowatts.”

Eligible benefiting account types were expanded to include customer classes other than just those eligible for affordable housing.

2. Rates – PG&E clarified OAS charges billed to the generator account and how they relate to the meter option selected in Special Condition 1.
3. One-Time Setup Charges – PG&E is proposing a one-time setup charge that will be based on two components. The first charge is related to establishing the allocation of the solar credits from the Generating Account, it is charged only to the Generating Account “Owner,” and it is based on the number of benefiting accounts.

The same charge is also billed when the Generating Account Owner changes the allocations based on the number of benefiting accounts affected. The per-benefiting Account charge is lower for allocation changes than for the initial allocation. Also, the Generating Account Owner is free to change allocation at any time with thirty days notice.

The second component of the one-time charge is a one-time Service Delivery Point and NEMV Arrangement assessment charge of \$550.00, billed to the Generator Account Owner.

If the Owner’s site includes more than one NEMV Arrangement, PG&E offers a discount for any additional NEMV Arrangement assessments performed at the same time as the first due to saved transportation costs.

From experience with NEMVNMA, PG&E has found it must send field personnel out to assess the best way to tie the generating facility into the existing service

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<sup>4</sup> Pending Advice 3870-E filed July 12, 2011, includes changes to NEMVNMA regarding AB920 ([http://www.pge.com/notes/rates/tariffs/tm2/pdf/ELEC\\_3870-E.pdf](http://www.pge.com/notes/rates/tariffs/tm2/pdf/ELEC_3870-E.pdf)). PG&E will submit an advice letter merging the language of these two filings once they are both approved.

panels. The assessment charge assumes two individuals (a service planning representative, and an advanced meter specialist) will perform this task, includes their average travel time, and their average time to make an assessment of the initial service point. Finally, it is assumed that the same values for the on-site evaluation excluding travel time would be used to assess each additional arrangement, if there is more than one at the site. That is why PG&E has reduced the charge for the additional assessments done at the same time.

In this filing PG&E is not requesting that monthly charges be established to recover costs associated with billing exceptions or errors in this filing, but PG&E reserves the right to file to amend the tariff at some future date in the event that actual operational data suggests that such additional costs are incurred on a regular basis.

4. Meter Charges – PG&E will continue to offer the low cost TOU meter option that was included in Schedule NEMVNMA. It is possible that due to the large possible range of potential rate schedules available to NEMV Benefiting Accounts, that this will prove difficult to manage. (Recall all Benefiting Accounts must be on a compatible TOU OAS for this option to be available; any change-of-party can upset the compatibility if the new party changes OAS). PG&E reserves the right to revisit this option in a future advice letter if it proves difficult to manage.
5. Allocation of solar credits – Unlike NEMVNMA, the basis of the Benefiting Account Allocation is not prescribed by the tariff. The Owner is free to establish the Allocation percentages, but consistent with the VNM decision PG&E requires that:
  - i) The Generator Account associated with the NEMV agreement is sized to offset no more than part or all of the annual usage (kWh) requirements of all the Benefiting Accounts in this NEMV Arrangement, and
  - ii) The Eligible Allocation Percentage established for each Benefiting Account in Appendix A is sized to offset no more than part or all of the annual usage (kWh) requirements for that specific Benefiting Account.

The Owner who completes the NEMV application will be required to warrant these requirements are met in Appendix B of the application.

6. Interconnection Charges – In Special Condition 4, *Interconnection* PG&E included new language clarifying interconnection cost responsibility.
7. Assembly Bill (“AB”) 920 – PG&E incorporated the language for Net Surplus Compensation based on D.11-06-016, PG&E Advice Letter 3870-E and Draft Resolution 4422. Certain minor modifications were made to address the details

of this schedule. If additional changes are made to the AB920 language when it is approved, PG&E will file again to make the language conform.

8. Changes were made to create a new NEMV application and interconnection agreement form (new Form 79-1131) from the existing form for NEMVNMA to address the different applicability (i.e., solar and wind generation), the single Service Delivery Point requirement, and details relating to the Allocation (such as, not being constrained by certain rules of the MASH program). Additionally, a new appendix was added as noted in Item 5.

### **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 **October 3, 2011** which is 21<sup>5</sup> 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: [jj@cpuc.ca.gov](mailto:jj@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:

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

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

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<sup>5</sup> The regular 20-day protest period ends on a weekend, so the protest period end date is moved to the next business day.

**Effective Date**

PG&E requests that this Tier 2 advice filing become effective on regular notice, **October 12, 2011**, 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 shown on the attached list and the parties on the service list for R.10-05-004 (*Order Instituting Rulemaking Regarding Policies, Procedures and Rules for the California Solar Initiative, the Self-Generation Incentive Program and Other Distributed Generation Issues*). Address changes to the General Order 96-B service list should be directed to PG&E at email address [PGETariffs@pge.com](mailto:PGETariffs@pge.com). For changes to any other service list, please contact the Commission's Process Office at (415) 703-2021 or at [ProcessOffice@cpuc.ca.gov](mailto:ProcessOffice@cpuc.ca.gov). Send all electronic approvals to [PGETariffs@pge.com](mailto:PGETariffs@pge.com). Advice letter filings can also be accessed electronically at: <http://www.pge.com/tariffs>

A handwritten signature in black ink that reads "Brian Cherry" followed by a stylized flourish or initials.

Vice President, Regulation and Rates

cc: Service List R.10-05-004

Attachments

# 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: Linda Tom-Martinez

Phone #: (415) 973-4612

E-mail: lmt1@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) #: **3902-E**

Tier: **2**

Subject of AL: **Schedule NEMV Pursuant to Decision (D.)11-07-031, Ordering Paragraph 2**

Keywords (choose from CPUC listing): Compliance, Forms, Metering

AL filing type:  Monthly  Quarterly  Annual  One-Time  Other \_\_\_\_\_

If AL filed in compliance with a Commission order, indicate relevant Decision/Resolution #: D. 11-07-031

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<sup>1</sup>: \_\_\_\_\_

Is AL requesting confidential treatment? If so, what information is the utility seeking confidential treatment for:

Confidential information will be made available to those who have executed a nondisclosure agreement:  Yes  No

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: **October 12, 2011**

No. of tariff sheets: 20

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: New Electric Rate Schedule NEMV, New Electric Sample Form 79-1131

Service affected and changes proposed<sup>1</sup>: N/A

Pending advice letters that revise the same tariff sheets: 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 Cherry**

**Vice President, Regulation and Rates**

**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**

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30583-E ELECTRIC SCHEDULE NEMV  
SOLAR AND/OR WIND VIRTUAL NET ENERGY  
METERING FOR MULTIPLE  
TENANTS SERVED AT THE SAME SERVICE  
DELIVERY POINT  
Sheet 1

30584-E ELECTRIC SCHEDULE NEMV  
SOLAR AND/OR WIND VIRTUAL NET ENERGY  
METERING FOR MULTIPLE  
TENANTS SERVED AT THE SAME SERVICE  
DELIVERY POINT  
Sheet 2

30585-E ELECTRIC SCHEDULE NEMV  
SOLAR AND/OR WIND VIRTUAL NET ENERGY  
METERING FOR MULTIPLE  
TENANTS SERVED AT THE SAME SERVICE  
DELIVERY POINT  
Sheet 3

30586-E ELECTRIC SCHEDULE NEMV  
SOLAR AND/OR WIND VIRTUAL NET ENERGY  
METERING FOR MULTIPLE  
TENANTS SERVED AT THE SAME SERVICE  
DELIVERY POINT  
Sheet 4

30587-E ELECTRIC SCHEDULE NEMV  
SOLAR AND/OR WIND VIRTUAL NET ENERGY  
METERING FOR MULTIPLE  
TENANTS SERVED AT THE SAME SERVICE  
DELIVERY POINT  
Sheet 5

30588-E ELECTRIC SCHEDULE NEMV  
SOLAR AND/OR WIND VIRTUAL NET ENERGY  
METERING FOR MULTIPLE  
TENANTS SERVED AT THE SAME SERVICE  
DELIVERY POINT  
Sheet 6



<b>Cal P.U.C. Sheet No.</b>	<b>Title of Sheet</b>	
30589-E	ELECTRIC SCHEDULE NEMV SOLAR AND/OR WIND VIRTUAL NET ENERGY METERING FOR MULTIPLE TENANTS SERVED AT THE SAME SERVICE DELIVERY POINT Sheet 7	
30590-E	ELECTRIC SCHEDULE NEMV SOLAR AND/OR WIND VIRTUAL NET ENERGY METERING FOR MULTIPLE TENANTS SERVED AT THE SAME SERVICE DELIVERY POINT Sheet 8	
30591-E	ELECTRIC SCHEDULE NEMV SOLAR AND/OR WIND VIRTUAL NET ENERGY METERING FOR MULTIPLE TENANTS SERVED AT THE SAME SERVICE DELIVERY POINT Sheet 9	
30592-E	ELECTRIC SCHEDULE NEMV SOLAR AND/OR WIND VIRTUAL NET ENERGY METERING FOR MULTIPLE TENANTS SERVED AT THE SAME SERVICE DELIVERY POINT Sheet 10	
30593-E	ELECTRIC SCHEDULE NEMV SOLAR AND/OR WIND VIRTUAL NET ENERGY METERING FOR MULTIPLE TENANTS SERVED AT THE SAME SERVICE DELIVERY POINT Sheet 11	
30594-E	ELECTRIC SCHEDULE NEMV SOLAR AND/OR WIND VIRTUAL NET ENERGY METERING FOR MULTIPLE TENANTS SERVED AT THE SAME SERVICE DELIVERY POINT Sheet 12	

<b>Cal P.U.C. Sheet No.</b>	<b>Title of Sheet</b>	<b>Cancelling Cal P.U.C. Sheet No.</b>
30595-E	ELECTRIC SCHEDULE NEMV SOLAR AND/OR WIND VIRTUAL NET ENERGY METERING FOR MULTIPLE TENANTS SERVED AT THE SAME SERVICE DELIVERY POINT Sheet 13	
30596-E	ELECTRIC SCHEDULE NEMV SOLAR AND/OR WIND VIRTUAL NET ENERGY METERING FOR MULTIPLE TENANTS SERVED AT THE SAME SERVICE DELIVERY POINT Sheet 14	
30597-E	ELECTRIC SCHEDULE NEMV SOLAR AND/OR WIND VIRTUAL NET ENERGY METERING FOR MULTIPLE TENANTS SERVED AT THE SAME SERVICE DELIVERY POINT Sheet 15	
30598-E	ELECTRIC SCHEDULE NEMV SOLAR AND/OR WIND VIRTUAL NET ENERGY METERING FOR MULTIPLE TENANTS SERVED AT THE SAME SERVICE DELIVERY POINT Sheet 16	
30599-E	ELECTRIC SAMPLE FORM 79-1131 APPLICATION AND INTERCONNECTION AGREEMENT FOR AN ELIGIBLE GENERATING FACILITY OF 1 MW OR LESS SERVING MULTIPLE TENANTS Sheet 1	
30600-E	ELECTRIC TABLE OF CONTENTS Sheet 1	30511-E
30601-E	ELECTRIC TABLE OF CONTENTS RATE SCHEDULES Sheet 6	30171-E
30602-E	ELECTRIC TABLE OF CONTENTS SAMPLE FORMS Sheet 27	29915-E





**ELECTRIC SCHEDULE NEMV**  
 SOLAR AND/OR WIND VIRTUAL NET ENERGY METERING FOR MULTIPLE  
 TENANTS SERVED AT THE SAME SERVICE DELIVERY POINT

Sheet 2 (N)  
 (N)  
 (N)

APPLICABILITY: (Cont'd.) NEMV is available on a first-come, first-served basis to Customers that provide PG&E with: (N)

- a. a completed, signed NEMV application and interconnection agreement as described in Special Condition 4, including all supporting documents and required payments; AND
- b. evidence of the Customer's final inspection clearance from the governmental authority having jurisdiction over the generating facility;

until such time as the total rated generating capacity used by eligible Customer-generators on Rate Schedule NEM, NEMV and NEMVMASH, exceeds five (5) percent of PG&E's aggregate customer peak demand. (Calculation as described in Rate Schedule NEM), until December 31, 2015, or until all funds available for the incentives have been allocated, whichever comes first.

**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.

**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; and
- b. keep in force the amount of property, commercial general liability and/or personal liability insurance the Owner has in place at the time they initiate service on this tariff; and

(N)

(Continued)



**ELECTRIC SCHEDULE NEMV**  
 SOLAR AND/OR WIND VIRTUAL NET ENERGY METERING FOR MULTIPLE  
 TENANTS SERVED AT THE SAME SERVICE DELIVERY POINT

Sheet 3 (N)  
 (N)  
 (N)

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

(N)

- 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 NEMV Arrangement, including the Owner's name, and Eligible Generating Facility location, capacity and operational characteristics, and Customer names at the Benefitting Accounts; and
- d. agree to and comply with all applicable rules and requirements of this NEMV Rate Schedule; and
- e. 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 Eligible Generating Facility.

**Modifications to Eligible Generating Facility** – If the NEMV Arrangement's Solar Generating Facility has not been previously approved for interconnection by PG&E, or where any modification to the previously approved Eligible Generating Facility has been made, the Owner must complete the interconnection process in Special Condition 4 of this tariff.

(N)

(Continued)



**ELECTRIC SCHEDULE NEMV**  
 SOLAR AND/OR WIND VIRTUAL NET ENERGY METERING FOR MULTIPLE  
 TENANTS SERVED AT THE SAME SERVICE DELIVERY POINT

Sheet 4 (N)  
 (N)  
 (N)

APPLICABILITY: **Change in Owner** – A change in the Owner responsible for the NEMV Arrangement (“Change of Owner”), where no modification to the Eligible 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. (However, see Special Condition 6 for any re-inspection requirements.) (N)

RATES: The rate and charges for each Benefitting Account under this schedule will be in accordance with its PG&E otherwise-applicable metered rate schedule (OAS). The Customer at each Benefitting 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 Benefitting 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 Benefitting Account from PG&E. The power factor, when it applies on the OAS, will be based on the energy consumed at the Benefitting Account from PG&E and the average power factor over the past 12 billing months of operation prior to starting on NEMV. A Benefitting 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 Benefitting 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 Benefitting 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 3, below). (N)

(Continued)



**ELECTRIC SCHEDULE NEMV** Sheet 5 (N)  
**SOLAR AND/OR WIND VIRTUAL NET ENERGY METERING FOR MULTIPLE** (N)  
**TENANTS SERVED AT THE SAME SERVICE DELIVERY POINT** (N)

**RATES:** (N)  
(Cont'd.) The Owner of the Generator Account served under this schedule will be billed under the OAS that contains the appropriate customer-, minimum- and/or meter charges. Customers who have elected to pay a one-time fee for the installation of a TOU meter pursuant to Special Condition 1.a.(ii) of this Schedule NEMV will be placed on an OAS that does not contain a meter charge. If the Owner elects the monthly meter charge option pursuant to Special Condition 1.a. (ii), the Generator Account shall be placed on an OAS containing a meter charge. The Owner at the Generating 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, as well as the charges in this Schedule NEMV, including those in Special Conditions 1(a) and 2, where applicable.

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

**SPECIAL** (N)  
**CONDITIONS:** 1. METERING: NEMV net energy metering shall be accomplished at:

a. The Generator Account where the Eligible Generating Facility is located, using either:

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

(ii) a PG&E "time-of-use" (TOU) meter, if based on review of the Benefitting Accounts' OASs PG&E is able to allocate the Eligible Energy Credits. This option will only be available until any Benefitting Account OAS change necessitates that the Owner provide an interval meter per (i) in order to properly allocate Eligible 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: (N)

(Continued)



**ELECTRIC SCHEDULE NEMV**  
**SOLAR AND/OR WIND VIRTUAL NET ENERGY METERING FOR MULTIPLE**  
**TENANTS SERVED AT THE SAME SERVICE DELIVERY POINT**

Sheet 6 (N)  
 (N)  
 (N)

SPECIAL  
 CONDITIONS:  
 (Cont'd.)

1. METERING: NEMV net energy metering shall be accomplished at: (Cont'd.) (N)
- a. The Generator Account where the Eligible Generating Facility is located, using either: (Cont'd.)
- (ii) (Cont'd.):

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 is found to have any load in addition to that of the Eligible Generating Facility's 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.

- b each Benefitting Account using PG&E metering appropriate to its otherwise applicable rate schedule. (N)

(Continued)





**ELECTRIC SCHEDULE NEMV**  
 SOLAR AND/OR WIND VIRTUAL NET ENERGY METERING FOR MULTIPLE  
 TENANTS SERVED AT THE SAME SERVICE DELIVERY POINT

Sheet 7 (N)  
 (N)  
 (N)

SPECIAL  
 CONDITIONS:  
 (Cont'd.)

2. ONE-TIME SETUP CHARGES:

(N)

PG&E will bill the Owner a one-time setup charge of **\$12.00** per Benefitting Account in the NEMV Arrangement when the Owner submits Appendix A to first establish service for a Benefitting Account, as described Special Condition 3 (b).

PG&E will bill the Owner a one-time modification charge of **\$3.00** for each Benefitting Account with a changed allocation when the Owner submits a new Appendix A with a change to the Annual Eligible Energy Credit Allocation, as described Special Condition 3 (f).

PG&E will bill the Owner a one-time Service Delivery Point and NEMV Arrangement assessment charge of **\$550.00**. If the Owner's site includes more than one NEMV Arrangement, for any additional NEMV Arrangement assessments performed at the same time as the first, the Owner will be billed a charge of **\$91** for each additional Generator Account.

3. BILLING:

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

a. Annual Eligible Energy Credit

The Annual Eligible Energy Credit is the total energy (in kilowatt hours or kWh) exported to PG&E by the Generator Account over the Relevant Period as defined in Special Condition 3 f.

b. The Annual Eligible Energy Credit Allocation

The Owner at the time the NEMV Arrangement first takes service under NEMV shall determine the initial percentage of Annual Eligible Energy Credits allocated to the Benefitting Accounts.

This allocation percentage will be established by the Owner on Appendix A of the NEMV application and interconnection agreement as described in Special Condition 4.

Once allocated, Credits (in dollars) will be calculated per the OAS for each Benefitting Account as described in Special Condition 3.c.

(N)

(Continued)



**ELECTRIC SCHEDULE NEMV**  
 SOLAR AND/OR WIND VIRTUAL NET ENERGY METERING FOR MULTIPLE  
 TENANTS SERVED AT THE SAME SERVICE DELIVERY POINT

Sheet 8 (N)  
 (N)  
 (N)

SPECIAL  
 CONDITIONS:  
 (Cont'd.)

3. BILLING (Cont'd.):

(N)

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

A Customer is a net consumer if the Benefitting Account's Eligible Energy Allocation percentage (A%) times the Eligible Generating Facility's output (in kWh) is less than the Customer's usage (Customer Usage), and its net consumption in kWh is equal to:

$$\text{Customer usage} - (A\% \times \text{Eligible Generating Facility's output}) = \text{net consumption}$$

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

$$(A\% \times \text{Eligible Generating Facility's output}) - \text{Customer Usage} = \text{net production}$$

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

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

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 Benefitting Account's Eligible Energy Allocation Percentage (A%) times the Eligible Generating Facility's output (in kWh) for that TOU period (TOU Eligible Generating Facility's output) is less than the Customer's usage (Customer TOU usage) for the TOU period, and its net consumption in kWh is equal to:

$$\text{Customer TOU usage} - (A\% \times \text{Eligible Generating Facility's output}) = \text{net consumption}$$

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

$$(A\% \times \text{TOU Eligible Generating Facility's output}) - \text{Customer TOU usage} = \text{net production}$$

(N)

(Continued)



**ELECTRIC SCHEDULE NEMV**  
 SOLAR AND/OR WIND VIRTUAL NET ENERGY METERING FOR MULTIPLE  
 TENANTS SERVED AT THE SAME SERVICE DELIVERY POINT

Sheet 9 (N)  
 (N)  
 (N)

SPECIAL  
 CONDITIONS:  
 (Cont'd.)

3. BILLING (Cont'd.):

(N)

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

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 Benefitting 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 Benefitting Account's OAS.

For Customers on tiered rates, 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 Benefitting 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 3 g below, unless otherwise provided for in the Benefitting Account's OAS.

For Benefitting Accounts, the net balance of all moneys owed for the net energy (kWh) consumed must be paid on each monthly billing cycle. When Benefitting 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.

(N)

(Continued)



**ELECTRIC SCHEDULE NEMV**  
 SOLAR AND/OR WIND VIRTUAL NET ENERGY METERING FOR MULTIPLE  
 TENANTS SERVED AT THE SAME SERVICE DELIVERY POINT

Sheet 10 (N)  
 (N)  
 (N)

SPECIAL  
 CONDITIONS  
 : (Cont'd.)

3. BILLING (Cont'd.)

(N)

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 Eligible Generating Facility for purposes of participating in NEMV, and on every subsequent anniversary thereof.

If a Benefitting Account terminates service with PG&E or there is a change of party at a Benefitting Account, prior to the end of any 12 monthly billing cycles, the Relevant Period for that Benefitting 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 Benefitting 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 add, remove Benefitting Accounts, and/or change the Annual Eligible Energy Credit Allocation to existing Benefitting Accounts. It is the responsibility of the Owner of the Generator Account to notify all Benefitting Accounts in the NEMV Arrangement of any change in their Annual Eligible Energy Credit Allocation. In order to elect this option, the Owner must submit (i) a revised Appendix A with the new allocations as described in Special Condition 3 and (ii) a new Appendix B, and (iii) payment of the one-time allocation modification charge described in Special Condition 2. The submission of these three items must be made at least thirty business days prior to the next the Billing Cycle start date, for it to be effective upon the first day of the next Billing Cycle. There will be no change to any of the (remaining) Benefitting Accounts' existing Relevant Period.

If an Owner terminates service under this rate schedule for the NEMV Arrangement prior to the end of any 12 monthly billing cycles, then the Relevant Period for all Benefitting 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 then the existing Benefitting Account will not result in a new Relevant Period. If a new Annual Eligible Energy Credit Allocation is made to some or all of the Benefitting Accounts it will be treated as described in the section above.

(N)

(Continued)



**ELECTRIC SCHEDULE NEMV**  
 SOLAR AND/OR WIND VIRTUAL NET ENERGY METERING FOR MULTIPLE  
 TENANTS SERVED AT THE SAME SERVICE DELIVERY POINT

Sheet 11 (N)  
 (N)  
 (N)

SPECIAL  
 CONDITIONS:  
 (Cont'd.)

3. BILLING (Cont'd.):

(N)

g. Relevant Period True Up

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

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

If a Benefitting Account's Relevant Period ends under any of the circumstances described in 3.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; However, in the event the Benefitting Account's allocation of energy (kWh), generated at the associated Generator Account and fed back to the electric grid, exceeds the energy (kWh) consumed during the Relevant Period, compensation shall be made for the excess energy (kWh) as described in Special Condition 5.

h. Billing Information

PG&E shall provide each Benefitting 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) Benefitting Accounts will be required to pay monthly, unless they specifically request to pay annually, for the net energy (kWh) consumed. For commercial Benefitting Accounts other than Small Commercial, the net balance of all moneys owed must be paid on each monthly billing cycle. When the 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.

(N)

(Continued)



**ELECTRIC SCHEDULE NEMV**  
 SOLAR AND/OR WIND VIRTUAL NET ENERGY METERING FOR MULTIPLE  
 TENANTS SERVED AT THE SAME SERVICE DELIVERY POINT

Sheet 12 (N)  
 (N)  
 (N)

SPECIAL  
 CONDITIONS:  
 (Cont'd.)

4. INTERCONNECTION:

(N)

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

Interconnection Costs: The Owner or Operator of the Eligible Generator must pay all interconnection costs required under Rule 21, including but not limited to re-wiring, trenching, conduit, and other facility costs that are needed.

Facility Type	Form
For a NEMV Arrangement	<i>NEMV Application and Interconnection Agreement for an Eligible Generating Facility of 1 Megawatt or Less Serving Multiple Tenants Served at a Single Service Delivery Point. (Form 79-1131).</i>

*Appendix A – Designation of NEMV Generating Account and Benefitting Accounts and their respective Eligible Energy Credit Allocation*

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

(N)

(Continued)



**ELECTRIC SCHEDULE NEMV**  
 SOLAR AND/OR WIND VIRTUAL NET ENERGY METERING FOR MULTIPLE  
 TENANTS SERVED AT THE SAME SERVICE DELIVERY POINT

Sheet 13 (N)  
 (N)  
 (N)

SPECIAL  
 CONDITIONS:  
 (Cont'd.)

5. NET SURPLUS ELECTRICITY COMPENSATION (NSC): (N)  
 |  
 Pursuant to P.U. Code Section 2827 (h)(4)(A), this Special Condition was |  
 established to provide a NEMV Benefitting Account having Net Surplus |  
 Electricity, (defined as all electricity generated by an eligible Benefitting Account |  
 Customer measured in kilowatt-hours over a Relevant Period – as defined in |  
 Special Condition 3(f) of this tariff – that exceeds the amount of electricity |  
 consumed by that eligible Benefitting Account Customer), with Net Surplus |  
 Electricity Compensation (NSC) for the Net Surplus Electricity, while leaving |  
 other ratepayers unaffected. A NEMV Benefitting Account Customer who has |  
 Net Surplus Electricity will be known as a Net Surplus Generator. |  
 |  
 (a) NSC Applicability – All bundled Net Surplus Generators that satisfy the |  
 conditions in the Applicability Section of this tariff and take service under |  
 this rate schedule are eligible to receive NSC if they have a true-up on, or |  
 following, the effective date below. |  
 |  
 The effective date for a Net Surplus Generator Benefitting Account to begin |  
 to be eligible to receive NSC on a NEMV Benefitting Account's true-up will |  
 be at the end of its first and every subsequent Reconciliation Period under |  
 the NEMV tariff following January 1, 2011. |  
 (N)

(Continued)

Advice Letter No: 3902-E  
 Decision No. 11-07-031

Issued by  
**Brian K. Cherry**  
 Vice President  
 Regulation and Rates

Date Filed September 12, 2011  
 Effective \_\_\_\_\_  
 Resolution No. \_\_\_\_\_



**ELECTRIC SCHEDULE NEMV**  
 SOLAR AND/OR WIND VIRTUAL NET ENERGY METERING FOR MULTIPLE  
 TENANTS SERVED AT THE SAME SERVICE DELIVERY POINT

Sheet 14 (N)  
 (N)  
 (N)

SPECIAL  
 CONDITIONS:  
 (Cont'd.)

5. NET SURPLUS ELECTRICITY COMPENSATION (NSC) (Cont'd): (N)
- (b) The **NSC Rate** – The NSC Rate is defined as the simple rolling average of PG&E’s default load aggregation point (DLAP) price from 7 a.m. to 5 p.m., for a 12-month period. PG&E shall use the NSC Rate as the value of the electricity portion of its net surplus compensation rate.
- PG&E will calculate the NSC Rate each month. It will be effective on the first day of that month and PG&E will use it in the NSC Calculation for any Net Surplus Generators with a Relevant Period completed in that month (True-Up Month).
- The **DLAP Cutoff Date** will be defined as the twentieth (20th) day of the month prior to the True-Up Month.
- PG&E will wait five (5) days after the DLAP Cutoff Date for the CAISO to have time to finalize the day-ahead PG&E DLAP prices. The NSC Rate will then be calculated as the simple average of the prices for all hours between 7 a.m. and 5 p.m. over a one (1) year period ending on the DLAP Cutoff Date.
- (c) Pursuant to D. 11-06-016, PG&E will modify this tariff to include a **Renewable Attribute Adder (RAA)** once the California Energy Commission (CEC) determines the implementation methodology.
- (d) Calculation of the NSC – NSC is calculated by multiplying any Net Surplus Electricity (kWh) by the NSC Rate in (b) above.

(N)

(Continued)





**ELECTRIC SCHEDULE NEMV**  
 SOLAR AND/OR WIND VIRTUAL NET ENERGY METERING FOR MULTIPLE  
 TENANTS SERVED AT THE SAME SERVICE DELIVERY POINT

Sheet 15 (N)  
 (N)  
 (N)

SPECIAL  
 CONDITIONS:  
 (Cont'd.)

5. NET SURPLUS ELECTRICITY COMPENSATION (NSC) (Cont'd.): (N)
- (e) Options for receiving NSC – A NEMV Customer with NSC will automatically have their NSC applied to any amounts owed to PG&E and then may choose to:
    - (1) take no action and roll any remaining NSC amounts forward to offset subsequent PG&E charges; or
    - (2) request that PG&E issue a check if the NSC remaining amount is greater than one dollar (\$1). A Customer can select this option by calling PG&E, If the Customer is closing all their accounts with PG&E, PG&E will automatically send a check; or.
    - (3) elect not to receive any NSC by completing and submitting form 79-1130 (*Customer Request Form not to Receive Net Surplus Compensation*) to PG&E to confirm that they do not want to participate. In this case PG&E will zero out any NSC the NEMV Customer may be otherwise eligible to receive.
  - (f) QF Status – Customers receiving net surplus compensation must first demonstrate to PG&E that the Generator Account from which they receive their generation allocation as described in Special Condition 2(b) are Qualifying Facilities in order to receive NSC. Since the Generator Accounts serving all NEMV Customer-generators currently meet the requirements for a qualifying facility exempt from certification filing at the Federal Energy Regulatory Commission (FERC), no further documentation is required at this time.
  - (g) Generator Size – Nothing in this Special Condition alters the existing NEMV system sizing requirement. Specifically, in order to be eligible for NSC, the Generator Account system must be intended primarily to offset part or all of the Benefitting Account Customers' own electrical requirements. Systems that are sized larger than the electrical requirements are not eligible for NEMV and therefore, are not eligible for NSC either.
- (N)

(Continued)

Advice Letter No: 3902-E  
 Decision No. 11-07-031

Issued by  
**Brian K. Cherry**  
 Vice President  
 Regulation and Rates

Date Filed September 12, 2011  
 Effective \_\_\_\_\_  
 Resolution No. \_\_\_\_\_





<b>ELECTRIC SAMPLE FORM 79-1131</b>	Sheet 1	(N)
APPLICATION AND INTERCONNECTION AGREEMENT FOR AN ELIGIBLE		(N)
GENERATING FACILITY OF 1 MW OR LESS SERVING MULTIPLE TENANTS		(N)

PLEASE REFER TO ATTACHED  
SAMPLE FORM

Advice Letter No: 3902-E  
Decision No. 11-07-031

Issued by  
**Brian K. Cherry**  
Vice President  
Regulation and Rates

Date Filed	<u>September 12, 2011</u>
Effective	_____
Resolution No.	_____



## Application and Interconnection Agreement for an Eligible Generating Facility of 1 Megawatt or Less Serving Multiple Tenants Served at a Single Service Delivery Point



**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](mailto:smarter-energy@pge.com), 1-800-933-9555 (residential) or [BusinessCustomerHelp@pge.com](mailto:BusinessCustomerHelp@pge.com), 1-800-468-4743 (commercial/industrial).

For more information on the California Solar Initiative (CSI) program, please go to [www.pge.com/csi](http://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), contact PG&E at [solar@pge.com](mailto:solar@pge.com).

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

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

#### A. Applicability and Purpose:

This *Application and Interconnection Agreement for a Eligible Generating Facility of 1 Megawatt or Less Serving Multiple Tenants at a Single Service Delivery Point* ("Agreement") applies to electric rate schedule NEMV, SOLAR AND/OR WIND VIRTUAL NET ENERGY METERING FOR MULTIPLE TENANTS SERVED AT THE SAME SERVICE DELIVERY POINT for the Owner or designated agent of the Owner ("Owner") who interconnects a a single solar photovoltaic and/or wind generating facility sized no larger than for the energy requirements of all eligible account types of the past year but with a maximum total size of no larger than one megawatt (1,000 kiloWatts ) and where the wind generator if any, has a maximum size of no larger than fifty (50) kilowatts ("Eligible Generating Facility") that is located at a Single Delivery Point with other individually metered PG&E Benefitting Accounts the will be allocated the benefits of the Eligible Generating Facility as described in NEMV, that meets all the applicability requirements in Schedule NEMV., and that operates in parallel with Pacific Gas and Electric Company's ("PG&E") Distribution System.

The purpose of this Agreement is to allow the Owner to interconnect the Eligible Generating facility with PG&E's Distribution System, subject to the provisions of this Agreement and PG&E's rate schedule NEMV. Owner has elected to interconnect and operate its Eligible Generating Facility in parallel with PG&E's Distribution System, primarily to offset part or all of the NEMV Arrangement's own electrical requirements of the Benefitting Accounts at the affiliated service delivery point 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 NEMV Eligible Generating Facility interconnection (at an existing service)
- For Physical/Electrical Changes to an interconnected NEMV Eligible Generating Facility with previous approval by PG&E (adding PV panels, changing inverters, or changing load and/or operations).
- A New NEMV 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 Eligible Energy Generation Credits under NEMV for an Existing Eligible Generating 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 NEMV accounts.

Special Condition 7 of Schedule NEMV requires that any Customer with an existing generating facility and meter who enters into a new NEMV agreement shall complete and submit a copy of form 79-1125 *NEM / NEMV / NEMVMASH Inspection Report* to PG&E, unless the electrical generating facility and meter have been installed and/or inspected within the previous three years.

**C. Owner's Eligible 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	
<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.			

**E. 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, Eligible 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 Received Customer Information or Act on a Customr'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 Eligible 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 Eligible 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 the Eligible 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 NEMV Owner's Eligible Generating Facility. **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 Eligible 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 NEMV.

### 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](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:

1. A completed copy of this **Agreement, including completed Appendices A and B**. **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 Benefitting accounts in Owner's name as listed in Appendix A – Owners who don't specify an OAS for their Benefitting accounts will be defaulted to Rate Schedule E-1, for residential accounts, A1 for general service accounts (unless required to be on a mandatory rate schedule such as E19 or E20), and AG-1 for agricultural rates when establishing how Owner's Benefitting 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 Eligible 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 Eligible Generating Facility, the general location of the Owner's loads relative to the Eligible 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 NEMV Eligible Eligible Generating Facility and utility's Distribution System.
  - b. A description of the specific **inverter(s)** used to control the interconnection between PG&E and the Eligible 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.
3. **Site Diagram** – The site diagram must show the building or buildings at the same Service Delivery Point that will be included as part of the NEMV Arrangement that meets the single Service Delivery Point requirement in the Applicability Section of NEMV, the meter locations, and denote where the Eligible Generating Facility will be located and interconnected.
4. Information regarding any existing **insurance coverage** (liability and/or property) for the Schedule NEMV 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 Eligible 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.

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<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)

I have insurance. I hereby certify that there is presently insurance coverage in the amount of \$\_\_\_\_\_ for the Schedule NEMV 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 NEMV 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.**
6. Schedule NEMV may include charges where applicable, including but not limited to that in Special Condition 1a. (metering) and 2. (one-time set-up or modification charges, assessment charges).

## 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:

Locked Room/Gate

Meter located inside of facility/residence

Unrestrained animal at meter or AC disconnect switch location

Other (Please explain) \_\_\_\_\_

No

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

Yes

If **yes**, what program are you on? \_\_\_\_\_

No.

(NEMV Benefitting Accounts may not participate in any PG&E electric demand response programs. 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						

**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						

**D. Wind Turbine Equipment (if applicable)**

List the wind turbine information requested below. If there is more than one wind turbine of the same type, list the total capacity connected to each inverter you listed in B) above. Write NONE if the inverter is incorporated in the wind turbine and no inverter is required.

No.	Wind Turbine Manufacturer	Wind Turbine Model	Wind Turbine Nameplate Rating kW (per unit) <sup>4</sup>	Wind Turbine CEC Rating (kW) per unit	Quantity of Wind Turbines	Total Capacity (kW) <sup>5</sup>	Turbine Output Voltage	Single or Three Phase	Inverter number from (B) above (1 or 2)
1									

**E. 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? \_\_\_\_\_

**F. 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:

<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.

<sup>4</sup> For all generation equipment ratings, please use the nameplate rating found on the equipment or in the equipment specifications.

<sup>5</sup> The total capacity is the pv panel (or wind turbine) rating times the quantity.

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)

**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 NEMV.

**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 and Appendix B**

Attached to this agreement is *Appendix A - Designation of NEMV Generating Account and Benefitting Accounts and their respective Eligible Energy Credit Allocation* and *Appendix B –Owner Affidavit Warranting That NEMV Arrangement Is Sized to Load*.

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 NEMV Generating Account and Benefitting Accounts and their respective Eligible Energy 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 *Virtual Net Energy Metering Application and Interconnection Agreement for the Building Owner of Multifamily Affordable Housing with a Eligible Generating Facility of 1 Megawatt or Less* for the same NEMV Eligible Generating Facility.

Owner Name	Address	Date

- 2) Is this an application to establishing the Annual Eligible Energy Credit Allocation for a new NEMV Arrangement or for a change to the Allocation for an existing NEMV facility, as described in either NEMV Special Condition 3 (b) or 3(f)?

This application is for an allocation for the initial, new NEMV Arrangement

This application is for a reallocation for an existing NEMV Arrangement:

- 3) Please use the attached Appendix A Section 2 page to list all Benefitting Accounts in the Arrangement that will be taking service on NEMV. The Benefitting Accounts must be associated with the same Generator Account and all must satisfy the applicable Service Delivery Point requirements in the NEMV Applicability Section to be Eligible for Schedule NEMV.

Please note for each row:

- **Account Type** – required – the Generator Account row should be completed for the pertinent information for each column indicated; the Benefitting Account rows should be complete for the pertinent information for each column indicated. If there are more Benefitting Accounts than will fit on one page please use additional sheets as required and number pages accordingly.
- **Account Address** – required -- Provide an address, including unit / apartment number, for all Accounts (for the Generator Account you may use the street address of the building upon which the generator will be installed).
- **Occupant's / Owner's Name** – required - For the Generator Account enter the Owner's name; for all Benefitting accounts enter the name of the occupant or PG&E customer name for that location.
- **PG&E Meter Number** – required - Enter the PG&E Meter Numbers for the all benefitting accounts.
- **Otherwise Applicable Rate Schedule** – required -- Enter the PG&E Otherwise Applicable Rate Schedule (OAS) for the Generator Account and all Benefitting Accounts.
- **Eligible Allocation Percentage** – required -- For each Benefitting Account listed, enter the Eligible Allocation Percentage to two decimal places. The Eligible Energy Allocation Percentage for each Benefitting Account should be established so that the annual kilowatt hours allocated offsets no more than part or all of the customer's own annual electrical requirements. The total of all Benefitting Account Eligible Allocation Percentages in Appendix A for this NEMV Arrangement must equal exactly 100%.

If Owner is changing the Eligible Allocation Percentage on an existing NEMV Arrangement, please list all allocations to confirm they add up to 100% and **circle** the changed allocations.

- **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 this instruction page.) Also indicate on one of the pages if the allocation is for a new Arrangement, or an existing Arrangement.

**Section 2**

Account Type	Account Address (required field)  (for Generator Account use street address for building with generator account)	Occupant's Name, (Required field)  (Generator Accounts should be under the Owner's Name  Please use name listed on PG&E Account bill)	PG&E Meter Number (Required field)	Otherwise Applicable Rate Schedule (Required field)	Eligible Allocation Percentage (required – to 2 decimal places. The sum of all Benefitting Account Allocation must total 100%.  For changes to Existing NEMV Arrangements, list all percentages but circle all changed percentages)
Generator Account					
Benefitting Accounts					
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					

Project Identification Number \_\_\_\_\_ (for PG&E's use only) Account List - Appendix A Section 2 Page \_\_\_\_\_ of \_\_\_\_\_  
 Is this a reallocation of an existing NEMV Arrangement?  Yes  N

**Appendix B – Owner Affidavit Warranting That NEMV Arrangement Is Sized to Load**

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

Address of Generator \_\_\_\_\_  
\_\_\_\_\_

In accordance with Schedule NEMV, I, Owner warrant that:

- 1) the Generator Account associated with this NEMV agreement is sized to offset no more than part or all of the annual usage (kWh) requirements of all the Benefitting Accounts in this NEMV Arrangement, and
- 2) the Eligible Allocation Percentage established for each Benefitting Account in Appendix A is sized to offset no more than part or all or the annual usage (kWh) requirement for that specific Benefitting Account.

Signed, \_\_\_\_\_, Owner, on date: \_\_\_\_\_

Owner's Name (printed) \_\_\_\_\_



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Sheet 1

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Advice Letter No: 3902-E  
 Decision No. 11-07-031

Issued by  
**Brian K. Cherry**  
 Vice President  
 Regulation and Rates

Date Filed September 12, 2011  
 Effective \_\_\_\_\_  
 Resolution No. \_\_\_\_\_



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(N)  
(N)

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(N)  
 (N)

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Advice Letter No: 3902-E  
 Decision No. 11-07-031

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 Regulation and Rates

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

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