

	Revised	Cal. P.U.C. Sheet No.	32046-E
Cancelling	Revised	Cal. P.U.C. Sheet No.	30527-E

Electric Sample Form 79-1124

Sheet 1

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 Refer to Attached Sample Form

 Advice Letter No:
 4110-E

 Decision No.
 12-09-018

Issued by **Brian K. Cherry** Vice President Regulatory Relations Date Filed Effective Resolution No. September 20, 2012 September 20, 2012



Pacific Gas and Electric Company®



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

NEMVMASH

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 <u>smarter-energy@pge.com</u>, 1-800-933-9555 (residential) or <u>BusinessCustomerHelp@pge.com</u>, 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 <u>www.pge.com/csi</u> 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 <u>solar@pge.com</u>.

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:

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 NEMVMASH. 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 Addre	ess				
City		State	Zip			
	Mailing Addr	200				
City		State	Zip			
Business Phone	Cell Phone	Fax	Email			
C. Contractor Information (Must	be completed even if Contracto	or will not serve as a PG&E c	ontact).			
Contracto	r	Company	Name			
	Mailing Adds					
	Mailing Addr	ess				
City		State	Zip			
Business Phone	Fax		Email			
	sed as PG&E contact and is If of Owner with respect to this		receive confidential Owner			
D. Other Contact Information (T	his information is optional).					
Contact Pers	son	Company	Name			
Mailing Address						
	Mailing Addi					
City		State	Zip			
Business Phone	Fax		Email			
This contact person is to be used as PG&E contact and is authorized by Owner to receive confidential Owner information and act on behalf of Owner with respect to this agreement.						
By checking the boxes above and signing this agreement, Owner authorizes PG&E to release information to the contact(s) named above regarding Owner's usage and billing information, Generating Facility location, size and operational characteristics as requested in the course of this interconnection process. PG&E is granted permission to						

share information with authorized recipients for a period of **two years** from the date this agreement is received by PG&E. Contact(s) are also authorized to make changes to rates and metering arrangements which may result in <u>Please complete this agreement in its entirety</u> Page 2 of 12

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

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	Pacific Gas and Electric Company
Attention: Generation Interconnection Services	Attention: Generation Interconnection Services
Mail Code N7L	Mail Code N7L
P.O. Box 770000	245 Market St.
San Francisco, California 94177	San Francisco, California 94105

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 <u>gen@pge.com</u>

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 0f 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 NEMVMASH.

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.

K. Appendix B

Attached to this agreement is _____ completed copy/copies of *Appendix B – NEMVMASH 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 MW or Less for the same NEMVMASH 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 <u>new</u> NEMVMASH Eligible Low Income Development or a reallocation for an <u>existing</u> Eligible Low Income Development? Existing NEMVMASH 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 NEMVMASH, 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 NEMVMASH 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 <u>new NEMVMASH</u> Eligible Low Income Development:	
This application is for a reallocation for an existing NEMVMASH Eligible Low Income Development:	

3) A NEMVMASH Eligible Low Income Development on NEMVMASH 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 🖵

No 🗖

If it is not receiving either MASH or NSHP incentives, is it eligible to receive MASH funds? Yes

4) For a new NEMVMASH 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 <u>Common Area Account(s)</u> Listed in the MASH Incentive Application (only required if applying for MASH Track 1a incentives):	Solar Allocation Percentage for All <u>Residential Unit Accounts</u> 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 NEMVMASH.

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 <u>CEC AC rating</u> 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 MW.
- 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 MW.
- 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 (required field)				w	Account Address (required field)	Owner's Name (For Residential Units, Last Name of	PG&E Account Number (Required field for	Applicable Rate Schedule	Solar Energy Allocation Percentage (up to 2 decimal places.
	Generator Account	Generator Number (must complete an Appendix B with a corres- ponding generator number)	Generator Capacity (must total to no more than 1 MW)	Common Area	Residential Unit	(for Generator Accounts without an address please describe location in detail)	Occupant, if known For Common Area and Generator Accounts. Use Name as shown on PG&E Account)	Common Area Accounts and Generator Account only)	NEMVMASH (Required field for Common Area Accounts and Generator Account only)	Required Field for Common Area Accounts and Residential Accounts)
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										
				_ Total Sc	lar Genera	ation this page	Total Solar Ene	rgy Allocation Percer	ntage for this page	

Account List - Appendix A, Section 2 --- Page _____ of _____

Please complete this agreement in its entirety

Automated Document, Preliminary Statement Part A

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Appendix B – NEMVMASH Generating Facility Interconnection Agreement

Unique Project Name

(for PG&E's use only)

One completed Appendix B Interconnection Agreement must be submitted for each NEMVMASH 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?

Nearest Street Address where this Gene	erating Facility will Be Located	
City	State	Zip
City	State	Zip

- **B. Description of Service** (This Agreement is being filed for, check all that apply):
 - A New NEMVMASH Generating Facility interconnection (at an existing service).
 - For Physical Changes to an interconnected NEMVMASH Generating Facility with previous approval by PG&E (adding PV panels, changing inverters, or changing load and/or operations).
 - A New NEMVMASH 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 NEMVMASH 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 NEMVMASH accounts.

Part II – Selecting the Study Process

Please check one:

Fast Track Process

Detailed Study

• Shall require an Independent Study Process, Distribution Group Study Process or Transmission Cluster Study Process, dependent upon the Electrical Independence Tests.

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

Permission to Interconnect

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

Safe Operation of your Generating Facility

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

Interconnections on PG&E's Secondary Network

Applications to interconnect systems located in San Francisco or Oakland may require additional analysis to determine whether or not their proposed installation is on PG&E's networked secondary system. Networked secondary systems are in place to provide heightened levels of reliability in densely populated areas and may affect the ability of PG&E to interconnect NEMVMASH Owner's solar generating facility. <u>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.</u>

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 NEMVMASH.

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 <u>www.pge.com/standardnem</u>). **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 NEMVMASH Eligible Low Income Facility and utility's Distribution System.

- b. A description of the specific **inverter**(s) used to control the interconnection between PG&E and the Generating Facility, including rating, brand name, and model number. Only CEC-certified inverters¹ will pass the requirements for Simplified Interconnection per PG&E's Electric Rule 21. Non-certified units will require further study and may involve additional costs.
- c. A complete description of the **generating equipment Owner plans to install**. The 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 <u>www.pge.com/gen</u> 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 NEMVMASH 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 NEMVMASH 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 NEMVMASH Generating Facility.

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

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 IV – 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
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
□ No
D. Are any of your accounts on a Demand Response program?
C Yes
If yes, what program are you on?
No.
(For more information on PG&E's demand response programs see: <u>www.pge.com/demandresponse</u>)
Part V – 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 G.1.m.) require a **Supplemental Review** which may entail a study, additional equipment, and/or other requirements.

No.	Inverter Manufacturer	Inverter Model Number	Inverter Nameplate Rating ¹ 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 ² (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?

¹ 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.

² The total capacity is the PV panel rating times the quantity.