

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

Fax: 415.973.6520

August 16, 2010

Advice 3718-E

(Pacific Gas and Electric Company ID U 39 E)

Public Utilities Commission of the State of California

<u>Subject:</u> Revisions to Schedule NEMVNMA - Virtual Net Energy Metering (VNM) Service for Individually Metered Residential Units and Owners with Housing Receiving Incentives from the Multifamily Affordable Solar Housing (MASH) Program or the New Solar Homes Partnership Program (NSHP) Affordable Housing

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

Purpose

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

Background

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

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

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

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

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

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

Tariff Revisions

• The NEMVNMA tariff

The following changes were made to the NEMVNMA tariff:

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

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

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

The second is option d:

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

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

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

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

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

This new form will address interconnection requirements of an Eligible Low Income Development applying for NEMVNMA under applicability options c. and d. Such developments are expected to typically include multiple generators. It will include two appendices, Appendix A for listing all the accounts in the project and their solar allocations, and Appendix B, one of which will need to be completed for each generator in the Eligible Low Income Development.

Protests

Anyone wishing to protest this filing may do so by letter sent via U.S. mail, by facsimile or electronically, any of which must be received no later than **September 6**, **2010**, which is 21 days after the date of this filing. Protests should be mailed to:

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

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

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

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

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

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

Effective Date

PG&E requests that this advice filing become effective on regular notice, **September 15, 2010**, which is 30 calendar days after the date of filing.

<u>Notice</u>

In accordance with General Order 96-B, Section IV, a copy of this advice letter is being sent electronically and via U.S. mail to parties. Address changes to the General Order 96-B service list and all electronic approvals should be directed to

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

Jane Yura OB

Vice President, Regulation and Rates

Attachments

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

CALIFORNIA PUBLIC UTILITIES COMMISSION

ADVICE LETTER FILING SUMMARY ENERGY UTILITY

MUST BE COMPLETED BY UTILITY (Attach additional pages as needed)						
Company name/CPUC Utility No. Pacific Gas and Electric Company (ID U39 M)						
Utility type:	Contact Person: Oliv	via Brown				
å ELC å GAS	Phone #: <u>415.973.93</u>	Phone #: 415.973.9312				
© PLC © HEAT © WATER	E-mail: <u>oxb4@pge.co</u>	<u>om</u>				
EXPLANATION OF UTILITY	' TYPE	(Date Filed/ Received Stamp by CPUC)				
ELC = ElectricGAS = Gas⑤PLC = PipelineHEAT = HeatY	WATER = Water					
Metered Residential Units and Owners of Housing (MASH) Program or the New So Keywords (choose from CPUC listing): M AL filing type: S Monthly S Quarterly of If AL filed in compliance with a Commiss Does AL replace a withdrawn or rejected Summarize differences between the AL Is AL requesting confidential treatment No Confidential information will be made a	with Housing Receiving lar Homes Partnersh letering Annual & One-Tir sion order, indicate r d AL? If so, identify t and the prior withdra If so, what information vailable to those who	ne © Other elevant Decision/Resolution #: <u>D.08-10-036</u> he prior AL: <u>No</u>				
Resolution Required? ⑤ Yes 🖞 No						
Requested effective date: <u>September 15</u>	, 2010	No. of tariff sheets: <u>15</u>				
Estimated system annual revenue effect		—				
Estimated system average rate effect (%): <u>N/A</u>					
When rates are affected by AL, include a (residential, small commercial, large C/		wing average rate effects on customer classes ag). $\underline{N/A}$				
Tariff schedules affected: Electric Schedule NEMVNMA and New Electric Form 79-1124						
Service affected and changes proposed:	<u>N/A</u>					
Protests, dispositions, and all other condate of this filing, unless otherwise auth		ng this AL are due no later than 20 days after the ission, and shall be sent to:				
CPUC, Energy Division		fic Gas and Electric Company				
Tariff Files, Room 4005	Attn Rate	: Jane K. Yura, Vice President, Regulation and				
DMS Branch 505 Van Ness Ave., San Francisco, CA jnj@cpuc.ca.gov and <u>mas@cpuc.ca.gov</u>	A 94102 77 B P.O. San	s eale Street, Mail Code B10B Box 770000 Francisco, CA 94177 ail: PGETariffs@pge.com				

		ATTACHMENT 1 Advice 3718-E
Cal P.U.C. Sheet No.	Title of Sheet	Cancelling Cal P.U.C. Sheet No.
29598-E	ELECTRIC SCHEDULE NEMVNMA VIRTUAL NET ENERGY METERING FOR MULTIFAMILY AFFORDABLE HOUSING (MASH/NSHP) WITH SOLAR GENERATOR(S) Sheet 1	28574-E
29599-E	ELECTRIC SCHEDULE NEMVNMA VIRTUAL NET ENERGY METERING FOR MULTIFAMILY AFFORDABLE HOUSING (MASH/NSHP) WITH SOLAR GENERATOR(S) Sheet 2	28283-E*
29600-E	ELECTRIC SCHEDULE NEMVNMA VIRTUAL NET ENERGY METERING FOR MULTIFAMILY AFFORDABLE HOUSING (MASH/NSHP) WITH SOLAR GENERATOR(S) Sheet 3	
29601-E	ELECTRIC SCHEDULE NEMVNMA VIRTUAL NET ENERGY METERING FOR MULTIFAMILY AFFORDABLE HOUSING (MASH/NSHP) WITH SOLAR GENERATOR(S) Sheet 4	28284-E*
29602-E	ELECTRIC SCHEDULE NEMVNMA VIRTUAL NET ENERGY METERING FOR MULTIFAMILY AFFORDABLE HOUSING (MASH/NSHP) WITH SOLAR GENERATOR(S) Sheet 5	29161-E
29603-E	ELECTRIC SCHEDULE NEMVNMA VIRTUAL NET ENERGY METERING FOR MULTIFAMILY AFFORDABLE HOUSING (MASH/NSHP) WITH SOLAR GENERATOR(S) Sheet 6	29162-E

Page 1 of 3

		ATTACHMENT 1 Advice 3718-E
Cal P.U.C. Sheet No.	Title of Sheet	Cancelling Cal P.U.C. Sheet No.
29604-E	ELECTRIC SCHEDULE NEMVNMA VIRTUAL NET ENERGY METERING FOR MULTIFAMILY AFFORDABLE HOUSING (MASH/NSHP) WITH SOLAR GENERATOR(S) Sheet 7	28287-E*
29605-E	ELECTRIC SCHEDULE NEMVNMA VIRTUAL NET ENERGY METERING FOR MULTIFAMILY AFFORDABLE HOUSING (MASH/NSHP) WITH SOLAR GENERATOR(S) Sheet 8	28288-E*
29606-E	ELECTRIC SCHEDULE NEMVNMA VIRTUAL NET ENERGY METERING FOR MULTIFAMILY AFFORDABLE HOUSING (MASH/NSHP) WITH SOLAR GENERATOR(S) Sheet 9	28289-E*
29607-E	ELECTRIC SCHEDULE NEMVNMA VIRTUAL NET ENERGY METERING FOR MULTIFAMILY AFFORDABLE HOUSING (MASH/NSHP) WITH SOLAR GENERATOR(S) Sheet 10	28290-E*
29608-E	ELECTRIC SCHEDULE NEMVNMA VIRTUAL NET ENERGY METERING FOR MULTIFAMILY AFFORDABLE HOUSING (MASH/NSHP) WITH SOLAR GENERATOR(S) Sheet 11	28928-E
29613-E	Electric Sample Form 79-1124 Eligible Low Income Development Virtual Net Energy Metering Application and Interconnection Agreement for Multifamily Affordable Housing with Solar Generation totaling 1 Megawatt or Less Sheet 1	
29610-E	ELECTRIC TABLE OF CONTENTS Sheet 1	29514-E

Page 2 of 3

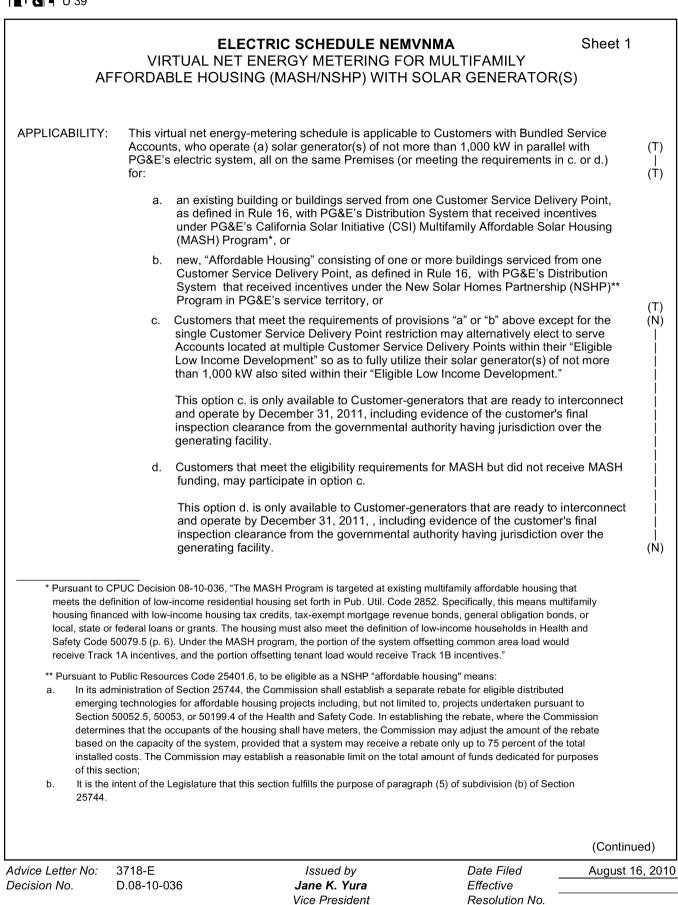
		ATTACHMENT 1 Advice 3718-E
Cal P.U.C. Sheet No.	Title of Sheet	Cancelling Cal P.U.C. Sheet No.
29611-E	ELECTRIC TABLE OF CONTENTS RATE SCHEDULES Sheet 4	29495-E
29614-E	ELECTRIC TABLE OF CONTENTS SAMPLE FORMS Sheet 15	28261-E

Page 3 of 3



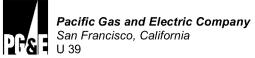
Pacific Gas and Electric Company San Francisco, California

Cal. P.U.C. Sheet No. Cal. P.U.C. Sheet No. 29598-E 28574-E



Regulation and Rates

Resolution No.

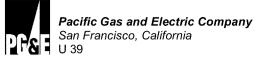


	Revised	Cal. P.
Cancelling	Original	Cal. P.

Cal. P.U.C. Sheet No. Cal. P.U.C. Sheet No. 29599-E 28283-E*

Decision No.	D.08-10-03	30	Jane K. Yura Vice President	Effective Resolution No.		
Advice Letter No:	3718-E	26	Issued by	Date Filed	Aug	ust 16, 2010
						ntinued)
	eligible new hou program	i tor Size - Size account types using. Specific n (MASH or NS	ble for the incentives have been the generator(s) no larger that of the past year for existing ho size limit details will be detern SHP) handbooks. These gene nents whether they actually red	an for the energy requirements ousing and estimated requiren nined by the relevant incentive erator size limits apply to all El	s of all nents of gible	(T) (T) (L)
	b.	having jurisdi rated genera three and one as described	he final inspection clearance fi iction over the Solar Generatin ting capacity on Rate Schedul e-half (3.5) percent of PG&E's in Rate Schedule NEM), until	ng Facility; until such time as the es NEM and NEMVNMA exce aggregate peak demand (cal- December 31, 2015, or until a	ne total eds culated	
	a.		NEMVNMA application and in Special Condition 3, including ments; AND			
			e on a first-come, first-served at provide PG&E with:	basis to Customers with an E	ligible	(L)
		f the four option Facility."	ns a. through d. above is refer	red to in this tariff as a "Eligibl	e Low	 (N)
APPLICABILITY (conťd)	An "Elig apparat land. Ti thoroug	us employed ir hese parcels n hfare or railwa	ne Development" is defined as n a single low income housing nay be divided by a dedicated y, so long as they are otherwis ising enterprise, and all under	enterprise on contiguous pare street, highway or public se contiguous and part of the s		(N)
A		TUAL NET	ENERGY METERING FOND (MASH/NSHP) WITH	OR MULTIFAMILY		
		ELE	CTRIC SCHEDULE NEM	IVNMA	Shee	et 2

Regulation and Rates



	Original
Cancelling	

29600-E

A		ELECTRIC SCHEDULE NEM NET ENERGY METERING FOR OUSING (MASH/NSHP) WITH S	R MULTIFAMILY	Sheet 3)			
APPLICABILITY (Cont'd.)	Network Grid Limitations – Portions of San Francisco and Oakland, where PG&E ha a network grid, have generation export limitations. Customers seeking generator interconnections in San Francisco and Oakland must contact PG&E before beginning any work.						
	covered by th a. <u>Gen</u> phot whic ("Ow othe	es – Three types of Accounts in an Eligi is tariff: <u>erator Account</u> – the Account(s) where th ovoltaic generation (Solar Generating Fa h the Eligible Low Income Facility owner ner"), is the PG&E Customer. The Gen r than that required by the Solar Genera ded as part of a Common Area Account	ne up to one megawatt solar acilities) are interconnected ar r or a party they designate erator Account must have no ting Facility itself and must no	load			
	and c. <u>Resi</u> in th	mon Area Account – each load-only Acc for which the Owner is the PG&E Custor dential Unit Account – each load-only ac e Eligible Low Income Facility, and for w omer.	mer. ccount for a residential unit loc	ated			
	Any Account	hat includes load, except one that includes load, except one that include erwise provided in NEMVNMA, is referre		ility			
	Owner Obligations – The Owner must:						
	PG8 stan and Und- Utilit	bly with all applicable safety and perform E's Electric Rule 21 and other applicable dards established by the National Electric Electronics Engineers, and accredited te erwriters Laboratories and, where applica es Commission regarding safety and reli- onsible for the ongoing maintenance and ity;	e tariffs, safety and performan ical Code, the Institute of Elec esting laboratories such as able, rules of the California Pu liability. The Owner is solely	ice trical iblic			
	pers	in force the amount of property, comme onal liability insurance the Owner has in ce on this tariff;					
	Com rega Sola	e that PG&E may from time to time relea mission and/or the California Public Utili rding the Eligible Low Income Facility, in r Generating Facility location, capacity a omer names at the Residential Unit Acc	ities Commission, information including the Owner's name, ar ind operational characteristics				
		e to comply with all applicable rules and gy Metering tariffs	requirements of PG&E's Net	 (L)			
				(Continued)			
dvice Letter No: Decision No.	3718-E D.08-10-036	Issued by Jane K. Yura Vice President	Date Filed Effective Resolution No.	August 16, 20			

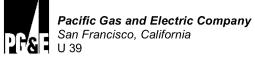
Regulation and Rates



Cal. P.U.C. Sheet No. Cal. P.U.C. Sheet No. 29601-E 28284-E*

(Cont'd.) Generating Facility has not been previously approved for interconnection by PG&E, or interconnection by PG&E, or interconnection by PG&E, or interconnection process in Special Condition 3 of this tariff. Customers that are participating pursuant to the multiple customer service interconnection process in Special Condition 3 of this tariff. Customers that are participating pursuant to the sublicipation pursuant to the solar Generating Facility has been made, does not need to complete the interconnection process in Special Condition 3, as long as the requirements of this section are met. RATES: The rate and charges at each Customer Load Account and the Generator Account under this schedule (MAS). The customer at each Customer Load Account or Generator Account as schedule (MAS). The customer at each Customer Load Account or Generator Account is served under this schedule is responsible for all charges from its OAS including monthly minimum charges, customer charges, meter charges, facilities charges, deamed charges and surcharges. For Generator and Common Area Account or Generator Account is related on the energy being consumed at the Common Area Account or Generator Account from PG&E. The power factor, when it applies on the OAS, will be based on the energy consumed at the Account from PG&E and their hours of operation. Power factor will be subsequently applied to the bits on the Active with e power factor subsequently applied to the Distory, will have its power factor and if warranted, change the power factor correction on the Generator or Common Area Account is bills. SUB SUB Charges for energy (WM) supplied by PG&E will be based on the net metered usage in accordance with Billing (Special Condition 2, below). For each Service Account, the energy rates and customer charges will be in accordance with Billing (Special Condition 2, b	AF	VIRTUAL NE	ECTRIC SCHEDULE NEMV T ENERGY METERING FOR SING (MASH/NSHP) WITH S	RMULTIFAMILY	Sheet 4 S)
Facility ("Change of Owner"), where no modification to the Solar Generating Facility has been made, does not need to complete the interconnection process in Special Condition 3, as long as the requirements of this section are met. RATES: The rate and charges at each Customer Load Account and the Generator Account under this schedule (vills). The customer at each Customer Load Account or Generator Account served under this schedule is responsible for all charges from its OAS including monthly minimum charges, customer charges, meter charges, facilities charges, demand charges and surcharges. For Generator and Common Area Accounts on general service OASs, the "Average Rate Limiter" and all other demand charges will be based on the demarg to the energy being consumed at the Common Area Account or Generator Account from PG&E and the axege power factor or over the past 12 billing months of operation prior to starting on NEMVNMA. A Generator or Common Area Account, without 12 billing months of power factor history, will have its power factor actount with the customer of the connected loads and their hours of operation. Power factor will be subsequently applied to the bill at the Generator or Common Area Account, without 12 billing months of power factor bristory, will have its power factor and if waranted, change the power factor correction on the Generator or Common Area Account is bills. Charges for energy (kWh) supplied by PG&E will be based on the net metered usage in accordance with Billing (Special Condition 2, below). For each Service Account, the energy rates and customer charges will be in accordance with the iOAS. Generator Accounts eligible for service. Eligible customer balls. Charges for energy (kWh) supplied by PG&E will be based on the net metered usage in		Generating Facility I where any modificat made, the Owner m this tariff. Customer delivery point option	has not been previously approved for ion to the previously approved Sola ust complete the interconnection pro- s that are participating pursuant to (c. and d.) in the Applicability section	or interconnection by PG& Ir Generating Facility has b ocess in Special Condition the multiple customer serv	E, or een 3 of ice (N)
this schedule will be in accordance with its PG&E otherwise-applicable metered rate schedule (OAS). The customer at each Customer Load Account or Generator Account served under this schedule is responsible for all charges from its OAS including monthly minimum charges, customer charges, meter charges, facilities charges, demand charges and surcharges. For Generator and Common Area Accounts on general service OASs, the "Average Rate Limiter" and all other demand charges will be based on the demand in kilowatts as measured only on the energy being consumed at the Common Area Account or Generator Account from PG&E. The power factor, when it applies on the OAS, will be based on the energy consumed at the Account from PG&E and the average power factor over the past 12 billing months of operation prior to starting on NEMVNMA. A Generator or Common Area Account until the subsequently applied to the bill at the Generator or Common Area Account until the customer demonstrates to PG&E's satisfaction that adequate correction had been provided. PG&E will continue to monitor and review the power factor and if warranted, change the power factor correction on the Generator or Common Area Account's bills. Charges for energy (kWh) supplied by PG&E will be based on the net metered usage in accordance with Billing (Special Condition 2, below). For each Service Accounts the part part and customer charges will be in accordance with their OAS. SUB SUB SUB SUB SUB SUB SUB SUB SUB <td></td> <td>Facility ("Change of been made, does no</td> <td>Owner"), where no modification to to to the to complete the interconnect</td> <td>he Solar Generating Facili</td> <td>ty has</td>		Facility ("Change of been made, does no	Owner"), where no modification to to to the to complete the interconnect	he Solar Generating Facili	ty has
accordance with Billing (Special Condition 2, below). For each Service Account, the energy rates and customer charges will be in accordance with their OAS. Generator Accounts eligible for service under NEMVNMA are exempt from the requirements of Schedule S— <i>Standby Service</i> . SUB SUB SCHEDULES: Intervention of the placed on the appropriate sub-schedule as described below: 1. NEMVNMAG- For Generator Accounts 2. NEMVNMAC - For Common Area Accounts 3 NEMVNMAR - For Residential Unit Accounts (L)	RATES:	this schedule will be schedule (OAS). Th served under this sc minimum charges, c and surcharges. Fo the "Average Rate L kilowatts as measure or Generator Accour based on the energy over the past 12 billi or Common Area Accour operation. Power fa Common Area Accour adequate correction power factor and if v	in accordance with its PG&E other ne customer at each Customer Load chedule is responsible for all charge customer charges, meter charges, fa r Generator and Common Area Acc imiter" and all other demand charge ed only on the energy being consum- nt from PG&E. The power factor, w y consumed at the Account from PG ing months of operation prior to star account, without 12 billing months of ted based on the nature of the connu- tor will be subsequently applied to bount until the customer demonstrate had been provided. PG&E will con- varranted, change the power factor	wise-applicable metered ra d Account or Generator Ac s from its OAS including m acilities charges, demand of counts on general service of es will be based on the der ned at the Common Area a then it applies on the OAS B&E and the average power ting on NEMVNMA. A Ge power factor history, will have tected loads and their hour the bill at the Generator of s to PG&E's satisfaction the titinue to monitor and review	ate count conthly charges DASs, DASs, anand in Account will be er factor nerator ave its r s of r nat w the
		accordance with Bill For each Service Ac with their OAS. Generator Accounts requirements of Sch Eligible customers w described below: 1. NEMVNMAG– Fo 2. NEMVNMAC – Fo	ing (Special Condition 2, below). ecount, the energy rates and custom eligible for service under NEMVNM edule S— <i>Standby Service.</i> vill be placed on the appropriate sub or Generator Accounts or Common Area Accounts	ner charges will be in acco /IA are exempt from the	rdance
lvice Letter No: 3718-E Issued by Date Filed August 1 ecision No. D.08-10-036 Jane K. Yura Effective				Date Filed	August 16, 2

Jane K. Yura Vice President Regulation and Rates



Revised Cancelling Revised Cal. P.U.C. Sheet No. Cal. P.U.C. Sheet No. 29602-E 29161-E

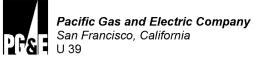
A		ELECTRIC SC UAL NET ENERGY E HOUSING (MASH		JLTIFAMILY	Sheet 5
SPECIAL	1. MET	ERING: NEMVNMA net	energy metering shall be	accomplished at:	(L)
CONDITIONS:	а.	The Generator Account(s using either:) where the Solar Genera	ating Facilities are locate	ed, (T)
		up to fifteen minute incre Energy Credit based on Low Income Facility. The costs associated with PC Generator Account. The	r (capable of recording soments), if required by PG the OAS of the Customers Owner shall be respons G&E providing and installi cost of the Owner's inter d will vary on a site speci	6&E to allocate the Sola Load Accounts in an E ible for, and shall bear a ng an interval meter for val meter installation w	r ligible all each (T)
		Load Accounts' OASs P option will only be availa necessitates that the Ow properly allocate Solar E and shall bear all costs a meter for the Generator in the future). For the To	' (TOU) meter, if based o G&E is able to allocate th ble until any Customer Lo rner provide an interval m inergy Credits. The Own associated with, PG&E pr Account (or upgrading to DU option, the Owner ma nt fee or as a monthly me	e Solar Energy Credits. bad Account OAS change eter per (i) in order to er shall be responsible to oviding and installing a an interval meter if requ y choose charges base	This ge for, TOU uired d on
		TOU Meter Option	One Time upfront fee	Monthly Meter Charg	e
		Single Phase	\$755.00	Based on the OAS monthly meter charg	e
		Three Phase	\$890.00	Based on the OAS monthly meter charg	
	s c a a e c c c r F	f the Generator Account I system inverter(s), PG&E lirectional PG&E meter a and a generator output me at the Account. Additiona expense a meter socket for inrestricted access to tha existing electrical meter, to capable of determining the ate schedule, the Owner ourchasing and installing s	reserves the right to requiperpropriate to its otherwise eter to determine the tota Ily, the Owner will need to or the generation output n t meter and socket. If the ogether with the generation total usage necessary to shall be responsible for a such metering.	uire the Owner to install e applicable rate schedu generation and total us o furnish at the Owner's neter and provide PG&B e Generator Account's on output meter, is not o bill its otherwise applie II expenses involved in	a bi- lle sage E with cable
		ach Common Area Acco ts otherwise applicable ra		&E metering appropriat	te to
		Each Residential Unit Acc otherwise applicable rate		ng appropriate to its	 (L)
					(Continued)
dvice Letter No: ecision No.	3718-E D.08-10-036	Jan	sued by e K. Yura President	Date Filed Effective Resolution No	August 16, 2

Vice President

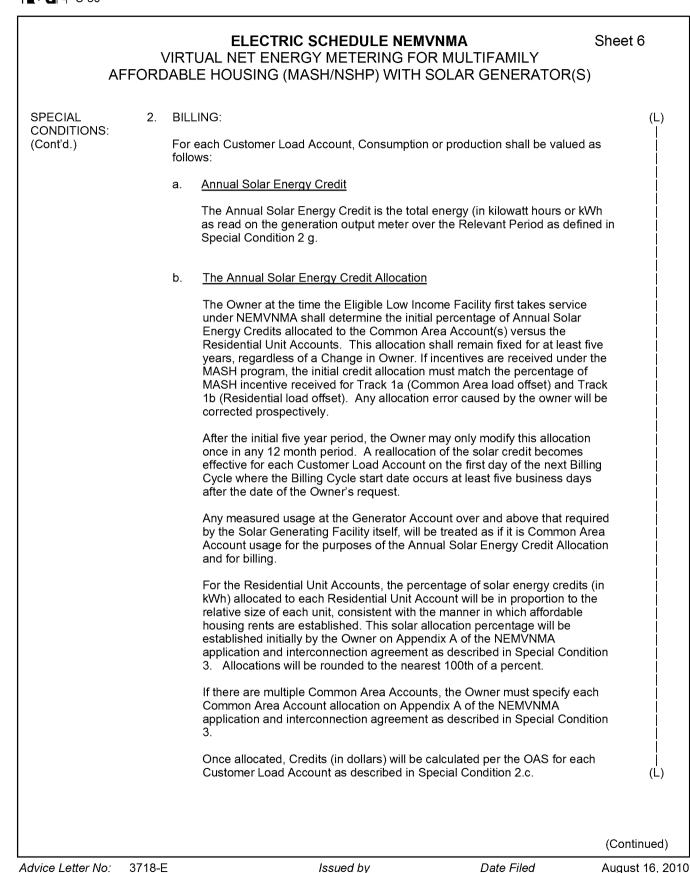
Regulation and Rates

SB_GT&S_0017193

Resolution No.

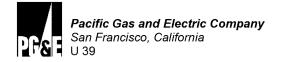


29603-E 29162-E



Decision No.

Date Filed Effective Resolution No.

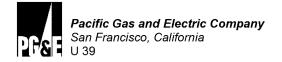


ELECTRIC SCHEDULE NEMVNMA Sheet 7 VIRTUAL NET ENERGY METERING FOR MULTIFAMILY AFFORDABLE HOUSING (MASH/NSHP) WITH SOLAR GENERATOR(S)

SPECIAL 2. BILLING (Cont'd.): (L) CONDITIONS: Monthly Energy Charge/Credit For an OAS with Baseline Rates (Cont'd.) c. A Customer is a net consumer if the Customer Load Account(s) Solar Energy Allocation percentage (SA%) times the solar generator(s)' output (in kWh) is less than the Customer's usage (Customer usage), and its net consumption in kWh is equal to: Customer usage - (SA% x solar generator(s)' output) = net consumption Otherwise the Customer Load Account is a net producer and its net production in KWh is equal to: (SA% x solar generator(s)' output) - Customer usage = net production If the Customer is a net consumer, the Customer Load Account will be billed for its net consumption in accordance with the Customer Load Account's OAS. If the Customer is a net generator, the net production shall be valued at the rate for the kWh up to the baseline quantity, with any excess kWh generated, valued at the rate for the appropriate tier level in which the equivalent kWh of usage would fall in accordance with the Customer Load Account's OAS. (Ė) (Continued) 3718-E Date Filed

Advice Letter No: Decision No.

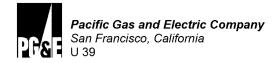
Effective Resolution No. August 16, 2010



ELECTRIC SCHEDULE NEMVNMA Sheet 8 VIRTUAL NET ENERGY METERING FOR MULTIFAMILY AFFORDABLE HOUSING (MASH/NSHP) WITH SOLAR GENERATOR(S)

Decision No.	D.08-10	-036	Jane K. Yura Vice President	Effective Resolution No.	
Advice Letter No:	3718-E		Issued by	Date Filed	(Continued) August 16, 2010
			For all residential and Small Customer Load moneys owed for the net energy (kWh) cons monthly billing cycle, unless the customer of Load Accounts other than those on residenti pay monthly.) When Customer Load Account over a monthly billing cycle, the value of any the billing cycle shall be carried over to the fi as a credit on the Customer's account, until	sumed must be paid on each pts to pay annually. (Custome ial and Small Commercial mus nts are a net electricity produce / excess kWh generated during ollowing billing period and app	r st er g ear
			For Customer Load Accounts taking service minimum charges have a customer-related of component. The applicable customer-related charges shall be treated as described in the energy (kWh) related component shall be tre energy (kWh) consumed, as described in Sp otherwise provided for in the Customer Load	component and an energy-rela ed components of such minimu OAS and billed monthly. The eated in the same manner as pecial Condition g below, unles	im
		e.	For an OAS with monthly Minimum Charges	2	
			In the event that at the end of the monthly bi consumption (kWh) for all TOU periods total or more periods exactly offsets the net cons the value of usage and/or generation will be set forth in the OAS).	Is zero (i.e. net production in o umption in all other periods), the	nen
			If the Customer is a net generator during production shall be valued at the price pe the Customer Load Account's OAS.		
			If the Customer is a net consumer during consumption shall be billed in accordanc the Customer Load Account's OAS.		
			Any net consumption or net production shall	be valued monthly as follows:	
			(SA% x TOU solar generator output) – C	Customer TOU usage = net productio	n
			Otherwise the Customer is a net producer a equal to:	nd its net production in KWh is	6
			Customer TOU usage – (SA% x TOU se	olar generator output) = net consump	otion
			A Customer is a net consumer for a discrete Account's Solar Energy Allocation Percentage generator output (in kWh) for that TOU period less than the Customer's usage (Customer's and its net consumption in kWh is equal to	ge (SA%) times the solar od (TOU solar generator outpu	t) is
(Cont'd.)		d.	Monthly Energy Charge/Credit For an OAS	with Time of Use (TOU)	
SPECIAL CONDITIONS:	2.	BILL	ING (Cont'd.):		(L)

Regulation and Rates



Revised Cancelling Original Cal. P.U.C. Sheet No. Cal. P.U.C. Sheet No.

29606-E 28289-E*

ELECTRIC SCHEDULE NEMVNMA Sheet 9 VIRTUAL NET ENERGY METERING FOR MULTIFAMILY AFFORDABLE HOUSING (MASH/NSHP) WITH SOLAR GENERATOR(S)

SPECIAL 2. BILLING (Cont'd.): (L) CONDITIONS: **Relevant Period** f. (Conťd.) A Relevant Period consists of any twelve monthly billing cycles commencing on the date PG&E provides the Owner with PG&E's written approval to begin parallel operation of the Solar Generating Facility for purposes of participating in NEMVNMA, and on every subsequent anniversary thereof. If a Customer Load Account terminates service with PG&E or there is a change of party at a Customer Load Account, prior to the end of any 12 monthly billing cycles, the Relevant Period for that Customer Load Account will consist of that period from the anniversary date until the effective date of that termination or Change of Party. The subsequent customer after a Change of Party at a Customer Load Account will start a new Relevant Period commencing on the date the new Customer takes service under this rate, and every subsequent anniversary thereafter. On a going forward basis, the Owner may elect to reallocate the Annual Solar Energy Credit Allocation assigned to a Residential Unit Account that is no longer able to be occupied. In order to elect this option, the Owner must submit adequate evidence to PG&E, at PG&E's sole discretion, to substantiate the unit's uninhabitable status. In order to initiate a reallocation if no new customer takes service in the Residential Unit, the Owner must submit a revised Appendix A described in Special Condition 3. A reallocation of the solar energy credit becomes effective for each Customer Load Account on the first day of the next Billing Cycle where the Billing Cycle start date occurs at least five business days after the date of the Owner's request. The Owner must leave this reallocation in place for at least 12 months. This will result in a reallocation only to the Residential Unit Accounts as provided for in Special Condition 2 b, except the unoccupied unit will not be included in the calculation. There will be no change to any of the remaining Customer Load Account's existing Relevant Period. If an Owner terminates service under this rate schedule for the Eligible Low Income Facility prior to the end of any 12 monthly billing cycle, then the Relevant Period for all Load Accounts will end as described in the previous paragraph upon reaching the effective date of the service termination. If there is a Change of Owner for an Eligible Low Income Facility prior to the end of any 12 monthly billing cycle, the Relevant period for the Owner's Load Accounts will end. The new Owner's Load Accounts will automatically be placed in service under this rate schedule and begin a new Relevant Period. However, existing Residential Units will not begin a new Relevant Period. (L) (Continued)

Advice Letter No: 3 Decision No. E

3718-E D.08-10-036 Issued by **Jane K. Yura** Vice President Regulation and Rates Date Filed Effective Resolution No. August 16, 2010

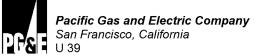


ELECTRIC SCHEDULE NEMVNMA Sheet 10 VIRTUAL NET ENERGY METERING FOR MULTIFAMILY AFFORDABLE HOUSING (MASH/NSHP) WITH SOLAR GENERATOR(S)

AFI	FORI		LE HOUSING (MASH/NSHP) WITH SOLAR GENERATOR(S)	
SPECIAL	2.	BIL	LING (Cont'd.):	(L)
CONDITIONS: (Cont'd.)		g.	Relevant Period True Up	
			A true up is performed by PG&E at the end of each Relevant Period for each Customer Load Account.	
			Where the residential minimum bill applies at the true up for a Bundled Service Customer Load Account, no further amounts will be billed to that Customer as a result of the true up.	
			In the event the Customer Load Account's allocation of energy (kWh) generated at the associated Generator Account and fed back to the electric grid exceeds the energy (kWh) consumed at the Customer Load Account during the Relevant Period, based on its OAS as set forth in 2.i below, no payment shall be made for the excess energy (kWh) delivered to PG&E's grid. If a Customer Load Account's Relevant Period ends under any of the circumstances described in 2.f above:	
			 a) The Customer will pay all charges owed at that time; b) No payments shall be made for credits remaining after the true-up; 	
		h.	Billing Information	
			PG&E shall provide each Customer Load Account with its net energy (kWh) consumption information with each regular bill. That information shall include the current monetary balance owed PG&E for the net energy (kWh) consumed since the start of the current Relevant Period.	
		i.	OAS Payment Option	
			Eligible Small Customer (as defined in Rule 1) Customer Load Accounts will be required to pay monthly, unless they specifically request to pay annually, for the net energy (kWh) consumed. For commercial Common Area Accounts other than Small Commercial, the net balance of all moneys owed must be paid on each monthly billing cycle. When the customer is a net electricity producer over a monthly billing cycle, the value of any excess kilowatt-hours generated during the billing cycle shall be carried over to the following billing period and appear as a credit on the customer's account, until the end of the Relevant Period.	 (L)
			(C	ontinued)

Advice Letter No: 37 Decision No. D

3718-E D.08-10-036 Date Filed Effective Resolution No. August 16, 2010



Revised C Cancelling Revised C

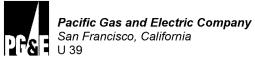
Cal. P.U.C. Sheet No. Cal. P.U.C. Sheet No. 29608-E 28928-E

A	VIRTUAL NET E	TRIC SCHEDULE NEMV NERGY METERING FOR G (MASH/NSHP) WITH S	R MULTIFAMILY	Sheet 11 (S)
SPECIAL	1. INTERCONNECT	ION:		(L)
CONDITIONS: (Cont'd.)		e approval for Parallel Operation it a completed PG&E application		
	Facility Type	Application	Interconnection A	sgreement
	For an Eligible Low Income Facility with one Single Point of Delivery	Virtual Net Energy Metering Ap Agreement for the Building Ow with a Solar Generating Facilit	ner of Multifamily Affordabl	e Housing
		Appendix A – Designation of N Residential Units and Their Re	-	· · · · · · · · · · · · · · · · · · ·
	For an Eligible Low Income Facility with Multiple Service Delivery Points and/or Multiple	Premises-Based Virtual Net Er Interconnection Agreement for Solar Generation totaling 1 Me	Multifamily Affordable House gawatt or Less (Form 79-11	sing with
	Generators	Appendix A – Designation of N Residential Units and Their Re	-	
		Appendix B – Designation of M Residential Units and Their Re		
	4. Establishing a T	rue-up Date For Net Surplus El	lectricity Compensation	(L)
	generated by an eligit exceeds the amount of	011, a NEMVNMA customer wit ble customer measured in kilow of electricity consumed by that e surplus compensation. In the ir	att-hours over a 12-month eligible customer), will be p	period that provided with
		ligible to elect to receive any tru g on their account's regular 201		
	been trued-up in 2010 electricity compensati PG&E receives a writ	E perform their 2010 true-up on 0), so that the customer may ele on starting in 2011 on a new, e ten request for true-up from the he new date, but the NEM custo zeroed out.	ect to receive any true-up i arlier 12-month true-up da customer, PG&E will perf	net surplus ite. Once form the
	Condition by notifying	e-up net surplus electricity com PG&E in writing that they do n is electricity as described in Sp	ot want to participate. PG	
Advice Letter No: Decision No.	3718-E D.08-10-036	Issued by Jane K. Yura	Date Filed Effective	August 16, 2010

Vice President

Regulation and Rates

Resolution No.



Original Cal Cancelling Cal

Cal. P.U.C. Sheet No. Cal. P.U.C. Sheet No. 29613-E

		Electric Sample Form 79-1124	Sheet 1	(N)
Eligi Interco	ble Low Income I nnection Agreem	Development Virtual Net Energy Me ent for Multifamily Affordable Housi totaling 1 Megawatt or Less	tering Application and ng with Solar Generation	(N) (N)
		Please Refer to Attached		
		Sample Form		
vice Letter No:	3718-E	Issued by	Date Filed August 1	6, 20′

Effective Resolution No. 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 Megawatt or Less

NEMVNMA

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 BusinessCustomerHelp@pge.com, 1-800-468-4743 (commercial/industrial).

For more information on the , Multifamily Affordable Solar Housing (MASH) or the New Solar Homes Partnership (NSHP) for affordable housing, please go to <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

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

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

A. Applicability and Purpose:

This Eligible Low Income Development Virtual Net Energy Metering Application and Interconnection Agreement for Multifamily Affordable Housing with Solar Generation totaling 1 Megawatt or Less ("Agreement") applies to electric rate schedule NEMVNMA, Virtual Net Energy Metering Service for Multifamily Affordable Solar Housing for the Owner or designated agent of the Owner ("Owner") with solar electric Generation with a total capacity of 1 megawatt (1,000 kW) or less that is located on Owner's existing buildings in an Eligible Low Income Development that received, or are eligible to receive, incentives under PG&E's California Solar Initiative (CSI) Multifamily Affordable Solar Housing (MASH) Program or on the Owner's new, "Affordable Housing" as defined in Public Resource Code section 25401.6** that received incentives under the New Solar Homes Partnership (NSHP) Program in PG&E's service territory. (Owners that meet the eligibility requirements for MASH but received project funding from another source may participate as provided in Schedule NEMVNMA.)

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

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

Page 1 of 12 Form 79-1124 Advice 3718-E August 2010

B. Owner's Information -

	Eligible Low Income Developn	nent Ploject Name	
	Owner-Applicant's	Name	
	Street Addres	SS	
City	.y	State	Zip
	Mailing Addre	ISS	
City	y	State	Zip
Business Phone	Cell Phone	Fax	Email

Contractor		Company Na	ame
	Mailing Address		
City		State	Zip
Business Phone	Fax		Email
	as PG&E contact and is authoriz Owner with respect to this agreemer		ceive confidential Owner

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

Contact Person		Company	Name
	Mailing Address		
City		State	Zip
Business Phone	Fax		Email
(9) This contact person is to be us information and act on behalf of	sed as PG&E contact and is author Owner with respect to this agreement		receive confidential Owner

By checking the boxes above and signing this agreement, Owner authorizes PG&E to release information to the contact(s) named above regarding Owner's usage and billing information, Generating Facility location, size and operational characteristics as requested in the course of this interconnection process. PG&E is granted permission to share information with authorized recipients for a period of **two years** from the date this agreement is received by

Please complete this agreement in its entirety

Page 2 of 12 Form 79-1124 Advice 3718-E August 2010 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

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 gen@pge.com

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

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

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

G. Governing Law

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

H. Term Of Agreement

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

I. Governing Authority

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

J. Appendix A

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

K. Appendix B

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

Owner Name (Please Print):	
(Signature):	 Date:

Title:

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

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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

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

Eli (must be the	gible Low Income Development Name same name as that on Page 2 of the Agreemer	nt)
		•
Owner Name	Address	Date

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

 This application is for an allocation for the initial <u>new</u> NEMVNMA Eligible Low Income Development:
 9

 This application is for a reallocation for an existing NEMVNMA Eligible Low Income Development:
 9

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

Is this Development receiving funds from either the MASH or NSHP program? Yes $ext{ Yes } ext{ No } ext{ 9}$

If it is not receiving either MASH or NSHP incentives, is it eligible to receive MASH funds? Yes 9 No 9

4) For a new NEMVNMA Eligible Low Income Development, if you applied for MASH incentives, please enter the percentages in the space provided below from the MASH application.

Solar Allocation Percentage for All <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 NEMVNMA.

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

Please complete this agreement in its entirety

Page 5 of 12 Form 79-1124 Advice 3718-E August 2010 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 megawatt.
- Account Address Provide an address, including unit number, for all Accounts (for Generator Accounts without an address please specify location in detail). (*Required*)
- **Name** For Common Area Accounts and the Generator Account, the Owner's name must be entered. For Residential Unit Accounts, enter the name of the occupant, if it is known.
- **PG&E Account Number** Enter the PG&E Account number on all Common Area Accounts and Generator Accounts (Required)
- **Otherwise Applicable Rate Schedule** Enter the PG&E Otherwise Applicable Rate Schedule (OAS) for all Common Area Accounts and desired Generator Accounts (Required).
- **Total Solar Generation (**bottom of each page) For each Generator Account total the CEC AC rating. The total of all rating of all Generator Accounts on all pages must equal no more than 1 megawatt.
- Solar Allocation Percentage (bottom of the each page) For each Common Area Account and Residential Unit Account listed (but not the Generator Account), enter the Solar Allocation Percentage to two decimal places. The Solar Energy Allocation Percentage for each Residential Unit Account must be in proportion to the relative size of each unit, consistent with the manner in which affordable housing rents are established. The total of all Solar Energy Allocation Percentages must equal 100%.
- Appendix A, Section 2 Page Numbers In the space provided on the bottom of each page, please mark the page number and total number of pages for your Appendix A, Section 2 Account List. (Start with Page 1 and do not count the page numbers for these two instruction pages.)
- 6) If the Eligible Low Income Development has been on the MASH program for less than 5 years, verify that: (for all pages included)

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

Total of Solar Allocation Percentage for all the Residential Unit Accounts

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

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

Section 2

Unique Project Name

_____(for PG&E's use only)

Please list ail participating on a building by building basis.

#	(Check only	count Ty one box fo quired fiel	or each ro	W	Address (required field) (for Generator Accounts without an address please describe location in detail)	Owner's Name (For Residential Units, Last Name of	PG&E Account Number (Required field for	Applicable Rate Schedule	
	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		Occupant, if known For Common Area and Generator Accounts. Use Name as shown on PG&E Account)	Common Area Accounts and Generator Account only)	(OAS) under NEMVNMA (Required field for Common Area Accounts and Generator Account only)	decimal places. Required Field for Common Are a Accounts and Residential Accounts)
1	9			9	9					
2	9			9	9					
3	9			9	9					
4	9			9	9					
5	9			9	9					
6	9			9	9					
7	9			9	9					
8	9			9	9					
9	9			9	9					
10	9			9	9					
11				9	9					
12				9	9					
13				9	9					
14				9	9					
15	9			9	9					
				_ Total So		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

Form 79-1124 Advice 3718-E August 2010

Page 7 of 12

Appendix B – NEMVNMA Generating Facility Interconnection Agreement

Unique Project Name

(for PG&E's use only)

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

Part I – Requirements for Interconnection

Please complete all parts of this section:

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

(must be the same name as that on Page 1	of the Agreement)	Number – (must match listing in Appendix A)
Nearest Street Address where this	Generating Facility will Be Loc	pated
City	State	Zip

- B. Description of Service (This Agreement is being filed for, check all that apply):
 - Image: Image:
 - For Physical Changes to an interconnected NEMVNMA Generating Facility with previous approval by PG&E (adding PV panels, changing inverters, or changing load and/or operations).
 - ③ A New NEMVNMA interconnection in conjunction with a new service. An Application for Service must be completed. Additional fees may be required if a service or line extension is required (in accordance with PG&E Electric Rules 15 and 16). Please contact PG&E at 1-800-PGE-5000 (or 1-800-743-5000).
 - A Reallocation of Solar Energy Generation Credits for an Existing NEMVNMA Facility (see Appendix A). For a reallocation, Owner only needs to fill out Part I, sign Part IV, and complete Appendix A with the reallocation for the NEMVNMA accounts.

Part II – Requirements for Interconnection

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

Permission to Interconnect

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

Safe Operation of your Generating Facility

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

Please complete this agreement in its entirety

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Interconnections on PG&E's Secondary Network

Applications to interconnect systems located in San Francisco or Oakland may require additional analysis to determine whether or not their proposed installation is on PG&E's networked secondary system. Networked secondary systems are in place to provide heightened levels of reliability in densely populated areas and may affect the ability of PG&E to interconnect NEMVNMA Owner's solar generating facility. <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 ail of the requirements, PG&E will close this application and Owner will be required to submit a new application should Owner wish to take service on Schedule NEMVNMA.

A. Agreement Package:

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

Required Documents for New Applicants:

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

PG&E requires an Owner to install an AC disconnect switch to facilitate maintenance of the Owner's equipment (i.e. inverter, PV arrays, etc). The AC disconnect switch provides PG&E the ability to isolate the Owner's generator from the NEMVNMA Eligible Low Income Facility and utility's Distribution System.

- 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 NEMVNMA Generating Facility location –

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

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

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

Insuring Company's Name: _____

- Insurance Policy # _____
- I do not have insurance. I hereby certify that there is presently \$0 (zero) dollars of insurance for this NEMVNMA Generating Facility

B. Internet Agreement Forms

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

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

Part III – General Facility

R

Receipt of Final, Signed-Off Building Permit for Generating Facility?
n this account?
ssues?
9 Meter located inside of facility/residence
Other (Please explain)
se program?
e program?

9 No.

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

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 ² 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 ³ (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?

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

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



29610-E 29514-E

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Regulation and Rates



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FORM	TITLE OF SHEET		
			CAL P.U.C. SHEET NO.
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	Si	Sample Forms reet, Highway, and Area Lighting	
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PG&E Gas and Electric Advice Filing List General Order 96-B, Section IV

Alcantar & Kahl Ameresco Anderson & Poole Arizona Public Service Company BART BP Energy Company Barkovich & Yap, Inc. Bartle Wells Associates Bloomberg New Energy Finance Boston Properties Brookfield Renewable Power C & H Sugar Co. CA Bldg Industry Association

CAISO

CLECA Law Office CSC Energy Services California Cotton Ginners & Growers Assn California Energy Commission California League of Food Processors California Public Utilities Commission Calpine Cameron McKenna Cardinal Cogen Casner, Steve Chris, King City of Glendale City of Palo Alto **Clean Energy Fuels** Coast Economic Consulting Commerce Energy **Commercial Energy** Consumer Federation of California Crossborder Energy

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Department of Water Resources Department of the Army Dept of General Services **Division of Business Advisory Services** Douglass & Liddell Downey & Brand Duke Energy Dutcher, John **Economic Sciences Corporation** Ellison Schneider & Harris LLP Foster Farms G. A. Krause & Assoc. **GLJ** Publications Goodin, MacBride, Squeri, Schlotz & Ritchie Green Power Institute Hanna & Morton Hitachi International Power Technology Intestate Gas Services, Inc. Lawrence Berkeley National Lab Los Angeles Dept of Water & Power Luce, Forward, Hamilton & Scripps LLP MAC Lighting Consulting MBMC, Inc. MRW & Associates Manatt Phelps Phillips McKenzie & Associates Merced Irrigation District Mirant Modesto Irrigation District Morgan Stanley Morrison & Foerster NRG West New United Motor Mfg., Inc.

Norris & Wong Associates North America Power Partners North Coast SolarResources

Northern California Power Association Occidental Energy Marketing, Inc. OnGrid Solar Praxair R. W. Beck & Associates RCS, Inc. Recon Research Recurrent Energy SCD Energy Solutions SCE SMUD SPURR Santa Fe Jets Seattle City Light Sempra Utilities Sierra Pacific Power Company Silicon Valley Power Silo Energy LLC Southern California Edison Company Sunshine Design Sutherland, Asbill & Brennan Tabors Caramanis & Associates Tecogen, Inc. Tiger Natural Gas, Inc. **Tioga Energy** TransCanada **Turlock Irrigation District** U S Borax, Inc. United Cogen Utility Cost Management

Utility Specialists Verizon Wellhead Electric Company Western Manufactured Housing Communities Association (WMA) eMeter Corporation