

PUBLIC UTILITIES COMMISSION

505 VAN NESS AVENUE
SAN FRANCISCO, CA 94102-3298



June 15, 2012

Advice Letter 4045-E

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

**Subject: Modifications to Schedule NEMVMASH to extend Applicability to
Community Choice Aggregation and Direct Access Customers**

Dear Mr. Cherry:

Advice Letter 4045-E is effective June 17, 2012.

Sincerely,

A handwritten signature in cursive script that reads "Edward F. Randolph".

Edward F. Randolph, Director
Energy Division

May 18, 2012

Advice 4045-E

(Pacific Gas and Electric Company ID U 39 E)

Public Utilities Commission of the State of California

Subject: Modifications to Schedule NEMVMASH to extend Applicability to Community Choice Aggregation and Direct Access Customers

Pacific Gas and Electric Company ("PG&E") hereby submits for filing revisions to its electric tariff sheets. The affected tariff sheets are listed on the enclosed Attachment 1.

Purpose

The purpose of this advice letter is to extend the eligibility of Schedule NEMVMASH to Community Choice Aggregation Service (CCA Service) and Direct Access (DA) customers. PG&E believes that this change is required based on the general direction regarding VNEM and CCA/DA eligibility from Resolution E-4481.

Background

In 2008, the California Public Utilities Commission (CPUC) issued Decision (D.) 08-10-036 directing PG&E and the other California independently owned utilities to file a tariff for Virtual Net Metering (VNM) and California Solar Initiative (CSI) administrators to implement the Multifamily Affordable Solar Housing (MASH) incentive program. In response, PG&E submitted Advice 3422-E¹ on February 13, 2009, for electric rate Schedule NEMVNMA² which went into effect on June 8, 2009. In Advice 3422-E PG&E noted the following regarding the applicability of the rate:

"Rate Schedule NEMVNM, as filed, is only made available to PG&E bundled service customers. Because of the complexity of implementing the [NEMVNM] program with mixed commodity service providers, PG&E proposes having an additional workshop with the CPUC to work through the issues involved, and to help assure consistency between the utilities. PG&E will file a supplemental advice letter or new advice letter (if Advice 3422-E

¹ http://www.pge.com/nots/rates/tariffs/tm2/pdf/ELEC_3422-E.pdf

² Originally filed as Schedule NEMVNMN, but approved as schedule NEMVNMA, its name was subsequently changed to the current name schedule NEMVMASH.

has been approved) to make the necessary changes to the tariff that incorporates language to address this situation.”

PG&E has now received requests from customers who are on CCA Service and PG&E is willing to provide the same service to them consistent with the terms and conditions for CCA Service (i.e., PG&E will provide any applicable transmission and distribution credits, the CCA provides any applicable generation credits under their program).

In order to accommodate existing customer requests, PG&E will need to make billing system changes. These changes are expected to take at least 6 months. In order to accommodate existing customer requests, as an interim measure, PG&E is planning to provide CCA Service customers with a customer-satisfaction adjustment that is comparable to the customer’s anticipated credits under Schedule NEMVMASH until the programming work is completed.

PG&E does not believe it is still necessary to hold a workshop, but plans to work with Marin Energy Authority and any other CCAs to work through the technical details of exchanging the necessary billing information.

In addition, recent Resolution E-4481³ provides that “There is nothing in D.11-07-031 that limits VNM service to bundled service accounts only. CCA Service and DA customers are currently eligible for NEM and now VNM.”⁴

Tariff Revisions

PG&E added similar CCA service and DA language in its advice filing for Schedule NEMV, to extend the applicability of NEMV to CCA service and DA. That text has been modified here for the specific conditions of Schedule NEMVMASH.

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 **June 7, 2012**, which is 20 days after the date of this filing. Protests should be mailed to:

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

Facsimile: (415) 703-2200
E-mail: EDTariffUnit@cpuc.ca.gov

³ http://docs.cpuc.ca.gov/WORD_PDF/FINAL_RESOLUTION/165005.PDF

⁴ Resolution E-4481, page 36, “Conclusion” under issue 4.

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

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

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

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

Effective Date

PG&E requests that this advice filing become effective on regular notice, **June 17, 2012** which is 30 calendar days after the date of filing.

Notice

In accordance with General Order 96-B, Section IV, a copy of this advice letter is being sent electronically and via U.S. mail to parties shown on the attached list and the parties on the service list for R.10-05-004. Address changes to the General Order 96-B service list should be directed to PG&E at email address PGETariffs@pge.com. For changes to any other service list, please contact the Commission's Process Office at (415) 703-2021 or at Process_Office@cpuc.ca.gov. Send all electronic approvals to PGETariffs@pge.com. Advice letter filings can also be accessed electronically at: <http://www.pge.com/tariffs>.



Vice President, Regulation and Rates

Attachments

cc: Service List for R.10-05-004
Paul Phillips
Gabe Petlin
Amy Reardon
Dawn Weisz, Marin Energy Authority

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 E)**

Utility type:

ELC

GAS

PLC

HEAT

WATER

Contact Person: Greg Backens

Phone #: 415-973-4390

E-mail: gab4@pge.com

EXPLANATION OF UTILITY TYPE

ELC = Electric

GAS = Gas

PLC = Pipeline

HEAT = Heat WATER = Water

(Date Filed/ Received Stamp by CPUC)

Advice Letter (AL) #: **4045-E**

Tier: 2

Subject of AL: **Modifications to Schedule NEMVMASH to extend Applicability to Community Choice Aggregation and Direct Access Customers**

Keywords (choose from CPUC listing): Compliance, Direct Access, Metering

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

If AL filed in compliance with a Commission order, indicate relevant Decision/Resolution #: Does AL replace a withdrawn or rejected AL? If so, identify the prior AL: No

Summarize differences between the AL and the prior withdrawn or rejected AL:

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

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

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

Resolution Required? Yes No

Requested effective date: **June 17, 2012**

No. of tariff sheets: 18

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

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

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

Tariff schedules affected: Electric Schedule NEMVMASH

Service affected and changes proposed: Expand applicability

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

CPUC, Energy Division

Tariff Files, Room 4005

DMS Branch

505 Van Ness Ave., San Francisco, CA 94102

EDTariffUnit@cpuc.ca.gov

Pacific Gas and Electric Company

Attn: Brian K. Cherry, Vice President, Regulation and Rates

77 Beale Street, Mail Code B10C

P.O. Box 770000

San Francisco, CA 94177

E-mail: PGETariffs@pge.com

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

Title of Sheet

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

31625-E	ELECTRIC SCHEDULE NEMVMASH VIRTUAL NET ENERGY METERING FOR MULTIFAMILY AFFORDABLE HOUSING (MASH/NSHP) WITH SOLAR GENERATOR(S) Sheet 1	30514-E
31626-E	ELECTRIC SCHEDULE NEMVMASH VIRTUAL NET ENERGY METERING FOR MULTIFAMILY AFFORDABLE HOUSING (MASH/NSHP) WITH SOLAR GENERATOR(S) Sheet 2	30515-E
31627-E	ELECTRIC SCHEDULE NEMVMASH VIRTUAL NET ENERGY METERING FOR MULTIFAMILY AFFORDABLE HOUSING (MASH/NSHP) WITH SOLAR GENERATOR(S) Sheet 4	30517-E
31628-E	ELECTRIC SCHEDULE NEMVMASH VIRTUAL NET ENERGY METERING FOR MULTIFAMILY AFFORDABLE HOUSING (MASH/NSHP) WITH SOLAR GENERATOR(S) Sheet 5	30518-E
31629-E	ELECTRIC SCHEDULE NEMVMASH VIRTUAL NET ENERGY METERING FOR MULTIFAMILY AFFORDABLE HOUSING (MASH/NSHP) WITH SOLAR GENERATOR(S) Sheet 6	30519-E
31630-E	ELECTRIC SCHEDULE NEMVMASH VIRTUAL NET ENERGY METERING FOR MULTIFAMILY AFFORDABLE HOUSING (MASH/NSHP) WITH SOLAR GENERATOR(S) Sheet 7	30520-E

Cal P.U.C. Sheet No.	Title of Sheet	
31631-E	ELECTRIC SCHEDULE NEMVMASH VIRTUAL NET ENERGY METERING FOR MULTIFAMILY AFFORDABLE HOUSING (MASH/NSHP) WITH SOLAR GENERATOR(S) Sheet 8	30521-E
31632-E	ELECTRIC SCHEDULE NEMVMASH VIRTUAL NET ENERGY METERING FOR MULTIFAMILY AFFORDABLE HOUSING (MASH/NSHP) WITH SOLAR GENERATOR(S) Sheet 9	
31633-E	ELECTRIC SCHEDULE NEMVMASH VIRTUAL NET ENERGY METERING FOR MULTIFAMILY AFFORDABLE HOUSING (MASH/NSHP) WITH SOLAR GENERATOR(S) Sheet 10	30522-E
31634-E	ELECTRIC SCHEDULE NEMVMASH VIRTUAL NET ENERGY METERING FOR MULTIFAMILY AFFORDABLE HOUSING (MASH/NSHP) WITH SOLAR GENERATOR(S) Sheet 11	30731-E
31635-E	ELECTRIC SCHEDULE NEMVMASH VIRTUAL NET ENERGY METERING FOR MULTIFAMILY AFFORDABLE HOUSING (MASH/NSHP) WITH SOLAR GENERATOR(S) Sheet 12	
31636-E	ELECTRIC SCHEDULE NEMVMASH VIRTUAL NET ENERGY METERING FOR MULTIFAMILY AFFORDABLE HOUSING (MASH/NSHP) WITH SOLAR GENERATOR(S) Sheet 13	30732-E

**ATTACHMENT 1
Advice 4045-E**

Cal P.U.C. Sheet No.	Title of Sheet	Cancelling Cal P.U.C. Sheet No.
31637-E	ELECTRIC SCHEDULE NEMVMASH VIRTUAL NET ENERGY METERING FOR MULTIFAMILY AFFORDABLE HOUSING (MASH/NSHP) WITH SOLAR GENERATOR(S) Sheet 14	30733-E
31638-E	ELECTRIC SCHEDULE NEMVMASH VIRTUAL NET ENERGY METERING FOR MULTIFAMILY AFFORDABLE HOUSING (MASH/NSHP) WITH SOLAR GENERATOR(S) Sheet 15	30734-E
31639-E	ELECTRIC SCHEDULE NEMVMASH VIRTUAL NET ENERGY METERING FOR MULTIFAMILY AFFORDABLE HOUSING (MASH/NSHP) WITH SOLAR GENERATOR(S) Sheet 16	30735-E
31640-E	ELECTRIC SCHEDULE NEMVMASH VIRTUAL NET ENERGY METERING FOR MULTIFAMILY AFFORDABLE HOUSING (MASH/NSHP) WITH SOLAR GENERATOR(S) Sheet 17	30736-E
31641-E	ELECTRIC TABLE OF CONTENTS Sheet 1	31539-E
31642-E	ELECTRIC TABLE OF CONTENTS RATE SCHEDULES Sheet 6	31460-E



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

Sheet 1

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

- a. an existing building or buildings served from one Customer Service Delivery Point, as defined in Rule 16, with PG&E's Distribution System that received incentives under PG&E's California Solar Initiative (CSI) Multifamily Affordable Solar Housing (MASH) Program*, or
- b. new, "Affordable Housing" consisting of one or more buildings serviced from one Customer Service Delivery Point, as defined in Rule 16, with PG&E's Distribution System that received incentives under the New Solar Homes Partnership (NSHP)** Program in PG&E's service territory, or
- c. Customers that meet the requirements of provisions "a" or "b" above except for the single Customer Service Delivery Point restriction may alternatively elect to serve Accounts located at multiple Customer Service Delivery Points within their "Eligible Low Income Development" so as to fully utilize their solar generator(s) of not more than 1,000 kW also sited within their "Eligible Low Income Development."
- d. Customers that meet the eligibility requirements for MASH but did not receive MASH funding, may participate in option c.

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

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

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

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

(Continued)



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

Sheet 4

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

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

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

Charges for energy (kWh) supplied to a Load Account by PG&E, an ESP or a CCA, as applicable, will be based on the net metered usage in accordance with Billing (Special Condition 2, below). (T)
 (T)

For each Service Account, the energy rates and customer charges will be in accordance with their OAS. For a DA or a CCA Service Customer Load Account, the ESP or CCA is responsible for providing the billing information regarding the applicable generation related bill charges or credits to PG&E on a timely basis. (N)
 |
 (N)

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

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

1. NEMVNMAg– For Generator Accounts
2. NEMVNMAc – For Common Area Accounts
3. NEMVNMAr – For Residential Unit Accounts

(Continued)



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

Sheet 5

**SPECIAL
 CONDITIONS:**

1. **METERING:** NEMVMASH net energy metering shall be accomplished at:

a. The Generator Account(s) where the Solar Generating Facilities are located, using either:

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

If the Generator Account is on DA service and the Owner uses a third-party Meter Data Management Agent (MDMA), the Owner will be responsible for any and all costs associated with providing PG&E acceptable interval data into the PG&E system on a timely basis. (N)
 |
 |
 (N)

(ii) a PG&E "time-of-use" (TOU) meter, if based on review of the Customer Load Accounts' OASs PG&E is able to allocate the Solar Energy Credits. This option will only be available until any Customer Load Account OAS change necessitates that the Owner provide an interval meter per (i) in order to properly allocate Solar Energy Credits. The Owner shall be responsible for, and shall bear all costs associated with, PG&E providing and installing a TOU meter for the Generator Account (or upgrading to an interval meter if required in the future). For the TOU option, the Owner may choose charges based on either a one-time, up-front fee or as a monthly meter charge. Prices are as follows:

TOU Meter Option	One Time upfront fee	Monthly Meter Charge
Single Phase	\$755.00	Based on the OAS monthly meter charge
Three Phase	\$890.00	Based on the OAS monthly meter charge

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

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

(Continued)



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

Sheet 6

SPECIAL
 CONDITIONS:
 (Cont'd.)

2. BILLING:

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

a. Annual Solar Energy Credit

The Annual Solar Energy Credit is the total energy (in kilowatt hours or kWh) as read on the generation output meter over the Relevant Period as defined in Special Condition 2 g.

b. The Annual Solar Energy Credit Allocation

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

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

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

For the Residential Unit Accounts, the percentage of solar energy credits (in kWh) allocated to each Residential Unit Account will be in proportion to the relative size of each unit, consistent with the manner in which affordable housing rents are established. This solar allocation percentage will be established initially by the Owner on Appendix A of the NEMVMASH application and interconnection agreement as described in Special Condition 3. Allocations will be rounded to the nearest 100th of a percent.

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

(L)

(Continued)



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

Sheet 7

SPECIAL
 CONDITIONS:
 (Cont'd.)

2. BILLING (Cont'd.):

b. The Annual Solar Energy Credit Allocation (Cont'd.)

(L)
 (L) (T)
 (N)
 |
 (N)

Once allocated, Credits (in dollars) will be calculated per the OAS for each bundled service. Customer Load Account as described in Special Condition 2.c. For a DA or CCA Service Benefitting Account, the credit will be calculated by the ESP or CCA in accordance with the ESP's or CCA's program corresponding to NEMVMASH.

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

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:

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

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

$$(\text{SA\%} \times \text{solar generator(s)' output}) - \text{Customer usage} = \text{net production} \quad (T)$$

If the bundled 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. (T)

If the bundled 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. (N)

For a DA or CCA Service Customer Load Account, applicable Generation Rate Component charges or credits, will be calculated by the ESP or CCA in accordance with the ESP's or CCA's program corresponding to NEMVMASH. Generation Rate Component credits, if any, provided by the ESP or CCA do not reduce the charges owed to PG&E for electric service provided to the Customer Load Account. (N)

(Continued)



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

Sheet 8

SPECIAL
 CONDITIONS:
 (Cont'd.)

2. BILLING (Cont'd.):

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

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

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

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

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

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

If the bundled Customer is a net consumer during any discrete TOU period, the net consumption shall be billed in accordance with that same TOU period in the Customer Load Account's OAS. (T)

If the bundled Customer is a net generator during any discrete TOU period, the net production shall be valued at the price per kWh at the same TOU period in the Customer Load Account's OAS. (T)

For bundled service Qualified customers on tiered rates, in the event that at the end of the monthly billing cycle, a Customer's net consumption (kWh) for all TOU periods totals zero (i.e. net production in one or more periods exactly offsets the net consumption in all other periods), then the value of usage and/or generation will be calculated using Tier 1 rates (as set forth in the OAS). (T)

For a DA or CCA Service Customer Load Account, applicable charges or credits will be calculated by the ESP or CCA in accordance with the ESP's or CCA's program corresponding to NEMVMASH. Generation Rate Component credits, if any, provided by the ESP or CCA do not reduce any charges owed to PG&E for electric service supplied to the Customer Load Account. (N)
 |
 |
 |
 (N)

e. For an OAS with monthly Minimum Charges

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

(L)

(Continued)



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

Sheet 9

SPECIAL
 CONDITIONS:
 (Cont'd.)

2. BILLING (Cont'd.):

e. For an OAS with monthly Minimum Charges (Cont'd.)

(L) (T)
 (L)

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

(T)

(N)

|

|

(N)

For DA and CCA Service Customer Load Accounts, applicable Generation Rate Components charges or credits will be calculated by the ESP or CCA and treated in accordance with the ESP's or CCA's program corresponding to NEMVMASH.

(Continued)



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

Sheet 10

SPECIAL
 CONDITIONS:
 (Cont'd.)

2. BILLING (Cont'd.):

f. Relevant Period

A Relevant Period consists of any twelve monthly billing cycles commencing on the date PG&E provides the Owner with PG&E's written approval to begin parallel operation of the Solar Generating Facility for purposes of participating in NEMVMASH, 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. If service to a Customer Load Account with an ESP or CCA terminates, or experiences a change in ESP or CCA prior to the end of any 12 monthly billing cycles the Relevant Period will consist of that period from the anniversary date until the effective date of that termination or ESP or CCA change.

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.

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 (N)

(Continued)



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

Sheet 13

SPECIAL
 CONDITIONS:
 (Cont'd.)

3. INTERCONNECTION:

(L)

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

Facility Type	Application	Interconnection Agreement
For an Eligible Low Income Facility with one Single Point of Delivery	<i>Virtual Net Energy Metering Application and Interconnection Agreement for the Building Owner of Multifamily Affordable Housing with a Solar Generating Facility of 1 megawatt or less. (Form 79-1109).</i>	<i>Appendix A – Designation of Multifamily Common Area Accounts, Residential Units and Their Respective Solar Energy Credit Allocation</i> <i>NEM/NEMVMASH Inspection Report (Form 79-1125) – if required per Special Condition 5</i>
For an Eligible Low Income Facility with Multiple Service Delivery Points and/or Multiple Generators	----- <i>Premises-Based Virtual Net Energy Metering Application and Interconnection Agreement for Multifamily Affordable Housing with Solar Generation totaling 1 Megawatt or Less (Form 79-1124)</i>	<i>Appendix A – Designation of Multifamily Common Area Accounts, Residential Units and Their Respective Solar Energy Credit Allocation</i> <i>Appendix B – Designation of Multifamily Common Area Accounts, Residential Units and Their Respective Solar Energy Credit Allocation</i> <i>NEM/NEMVMASH Inspection Report (Form 79-1125) – if required per Special Condition 5</i>

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

Sheet 14

SPECIAL
 CONDITIONS:
 (Cont'd.)

4. NET SURPLUS ELECTRICITY COMPENSATION (NSC):

(L)

Pursuant to P.U. Code Section 2827 (h)(4)(A), this Special Condition was established to provide a NEMVMASH customer with a Common Area account or Residential Unit account having **Net Surplus Electricity**, (defined as all the electricity generated that is allocated by the Generating Account to an eligible customer measured in kilowatt-hours over a Relevant Period – as defined in Special Condition 2(g) of this tariff -- that exceeds the amount of electricity consumed by that eligible customer), with **Net Surplus Electricity Compensation (NSC)** for the Net Surplus Electricity, while leaving other ratepayers unaffected. A NEMVMASH Customer who has Net Surplus Electricity will be known as a **Net Surplus Generator**.

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(a) NSC Applicability – All bundled Net Surplus Generators that satisfy the conditions in the Applicability Section of this tariff and take service under this rate schedule are eligible to receive NSC if they have a true-up on, or following, the effective date below.

Net Surplus Generators who receive Direct Access (DA) Service from an ESP or who receive Community Choice Aggregation Service from a CCA are not eligible to receive NSC from PG&E but may contact their ESP or CCA Provider to see if they provide NSC.

(N)

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(N)

The effective date for a Net Surplus Generator to begin to receive NSC will be no earlier than the end of their Relevant Period following January 1, 2011 unless (i) the Net Surplus Generator customer was a change-of-party Customer or became a new NEMVMASH customer in January 2010 and the meter read date for their twelfth billing month following enrollment in NEMVMASH falls in December of 2010; or (ii) a Net Surplus Generator's NEMVMASH meter was set to be read in January 2011 but due to PG&E's schedule of meter read dates, the read occurred on December 27, 2010, or later. Customers covered by subsections (i) or (ii) will be eligible to receive NSC for their Relevant Period ending in December 2010.

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(Continued)



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

Sheet 15

SPECIAL
 CONDITIONS:
 (Cont'd.)

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

(Continued)



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

Sheet 16

SPECIAL
 CONDITIONS:
 (Cont'd.)

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

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

AT&T	Department of Water Resources	North America Power Partners
Alcantar & Kahl LLP	Dept of General Services	North Coast SolarResources
Ameresco	Douglass & Liddell	Northern California Power Association
Anderson & Poole	Downey & Brand	Occidental Energy Marketing, Inc.
BART	Duke Energy	OnGrid Solar
Barkovich & Yap, Inc.	Economic Sciences Corporation	Praxair
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CA Bldg Industry Association	Green Power Institute	SPURR
CLECA Law Office	Hanna & Morton	San Francisco Public Utilities Commission
CSC Energy Services	Hitachi	Seattle City Light
California Cotton Ginners & Growers Assn	In House Energy	Sempra Utilities
California Energy Commission	International Power Technology	Sierra Pacific Power Company
California League of Food Processors	Intestate Gas Services, Inc.	Silicon Valley Power
California Public Utilities Commission	Lawrence Berkeley National Lab	Silo Energy LLC
Calpine	Los Angeles Dept of Water & Power	Southern California Edison Company
Cardinal Cogen	Luce, Forward, Hamilton & Scripps LLP	Spark Energy, L.P.
Casner, Steve	MAC Lighting Consulting	Sun Light & Power
Center for Biological Diversity	MBMC, Inc.	Sunrun Inc.
Chris, King	MRW & Associates	Sunshine Design
City of Palo Alto	Manatt Phelps Phillips	Sutherland, Asbill & Brennan
City of Palo Alto Utilities	Marin Energy Authority	Tecogen, Inc.
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City of Santa Rosa	Merced Irrigation District	TransCanada
Clean Energy Fuels	Modesto Irrigation District	Turlock Irrigation District
Coast Economic Consulting	Morgan Stanley	United Cogen
Commercial Energy	Morrison & Foerster	Utility Cost Management
Consumer Federation of California	Morrison & Foerster LLP	Utility Specialists
Crossborder Energy	NLine Energy, Inc.	Verizon
Davis Wright Tremaine LLP	NRG West	Wellhead Electric Company
Day Carter Murphy	NaturEner	Western Manufactured Housing Communities Association (WMA)
Defense Energy Support Center	Norris & Wong Associates	eMeter Corporation