



January 16, 2014

Advice 4305-E-A

(Pacific Gas and Electric Company ID U 39 E)

Public Utilities Commission of the State of California

Subject: Supplement -- Revise Electric Rate Schedule NEM and Establish a New Electric Sample Form for NEM for Load Aggregation Pursuant to Senate Bill 594 and Resolution E-4610

Purpose

Pacific Gas and Electric Company (PG&E) hereby further modifies its Electric Rate Schedule NEM – Net Energy Metering Service and Form 79-1153 NEM Load Aggregation Appendix to be used with the existing Electric Sample NEM forms, pursuant to Senate Bill (SB) 594 and Resolution (Res.) E-4610¹. The affected tariffs sheets are listed on the enclosed Attachment 1.

This advice filing supplements in part and will not change the integrity of the original AL 4305-E.

Background

Following the effective date of SB 594 (Wolk, 2012) at the beginning of 2013, the California Public Utilities Commission (CPUC or Commission) made a determination that net energy metering load aggregation would not result in an increased cost shift to non-net energy metering customers. This was memorialized in Resolution E-4610 on September 19, 2013. Under SB 594, this determination meant the Investor Owned Utilities (IOUs)² were to update their respective tariffs to include Load Aggregation under certain circumstances in their net energy metering tariffs (for PG&E, its Schedule NEM).

PG&E submitted AL 4305-E on October 21, 2013 with its proposed revisions to Schedule NEM to satisfy Res. E-4610 and SB 594. PG&E's Advice Letter was

¹ Resolution E-4610:

<http://docs.cpuc.ca.gov/PublishedDocs/Published/G000/M077/K158/77158265.PDF>

² The IOUs consist of Pacific Gas and Electric Company, Southern California Edison Company, and San Diego Gas & Electric.

subsequently protested³ by numerous parties and protest responses were submitted by the IOUs on November 19, 2013.

Following the protest period, the IOUs held numerous conversations with the Energy Division (ED) in an attempt to address the issues raised by the protesting parties. Subsequently, on December 16, 2013, an email was sent, with an attached letter (ED Letter), "requesting several changes to [the IOU's] advice letters. The Energy Division requests that you send us review drafts prior to serving these on the parties." The ED Letter is Attachment 2 to this advice letter. On January 8, 2014, the IOUs sent review drafts of revised tariffs to the ED for review. The ED responded that PG&E's proposed changes were acceptable.

PG&E has concerns about the approach taken by the Energy Division here. However, PG&E has agreed to comply with the terms of the ED Letter in this filing because many potential customers have expressed an interest in the NEM Aggregation option and PG&E seeks an approved program as soon as possible, while minimizing the cost shift to non-participating customers and reserving the right to monitor and address any increase in the cost shift that may result from NEM Aggregation.

Tariff Changes

In regards to PG&E's tariffs and this advice letter, the ED Letter specifically requested the following changes (numbers correspond to those in the ED Letter):

1. **Adjacent and Contiguous** – The Energy Division provided clarifying language to be added. PG&E distilled the suggested language in Special Condition 8 of the NEM tariff. A single diagram was included to help illustrate the provision. Similar changes were made to Form 79-1153, *NEM Load Aggregation Appendix*.
2. **Bill Credit Allocation Method** – PG&E wove the proposed language into the existing language in Special Condition 2.d with no additional changes.
3. **The Proposed Billing Service Fees** – PG&E in Special Condition 8 set its billing service fees to match those provided by the ED Letter and included the new \$500 cap.

PG&E notes the new \$500 cap translates to 20 accounts using a one-time set-up fee of \$25 per account. PG&E already has heard from a customer

³ Eight parties filed protests to PG&E's and the other IOUs' Advice Letters: Solar Energy Industries Association (SEIA), SolarCity, Interstate Renewable Energy Council (IREC), California Farm Bureau Federation, Agricultural Energy Consumers Association, Natal Energy, Ecoplexus, and Recolte Energy. In addition, the City of San Diego filed a protest to SDG&E's Advice Letter.

considering a project that will probably have more than 150 Aggregated Accounts. PG&E originally proposed \$4 set up fee. However, even by using the proffered \$25 amount, on a project with several hundred accounts, PG&E expects that it would not recover its costs. PG&E estimates billing set up costs for that arrangement would be \$4 times 150 or \$600, 120% of the cap set by the Energy Division.

Given that the NEM statute provides that customers electing aggregation shall remit charges for the cost of billing, the revised fees in this Advice Letter may require review and need to be increased in the future.⁴ In the transmittal letter approving the tariff, PG&E requests that the Energy Division direct PG&E to track billing costs, including, if undertaken, costs to automate the billing for aggregation arrangements. The tracking would be on a similar timeline to that ordered for interconnection costs in Resolution E-4610, and could be reviewed at the same time. Following review of actual billing costs, PG&E could file for CPUC approval to adjust the NEM Aggregation billing fees consistent with the NEM statute.

4. **Effective Date of PG&E Advice Letter** – PG&E includes in this Supplemental Advice Letter the 30 day (versus its original 120 day) “effective date” request.
5. **Clarification with Respect to the Permanent Prohibition on Net Surplus Compensation (NSC) for Aggregated Facilities** – The language in the ED Letter does not comport with either the protest issues raised by SEIA in its November 12 protest, or the NEM statute. The ED Letter requests:

“...all of the utilities agreed that a customer generator will be prohibited from NSC only while under the NEM aggregation tariff. In other words, if a customer generator was enrolled in NEM aggregation at one point in time, and then later chose to take service under the regular NEM tariff, they would once again be eligible for NSC.

What SEIA actually protested, and requested was that the tariff be changed so that the permanent prohibition only apply to a Generator Account, and not to an Aggregator Account. In SEIA’s words (emphasis added):

“As part of SB 594, Section 2827 of the PU Code was modified to provide that:

If an eligible customer-generator chooses to aggregate pursuant to subparagraph (A), the eligible customer-generator shall be permanently ineligible to receive net surplus electricity compensation, and the electric utility shall retain any kilowatt hours in excess of the eligible customer

⁴ See CA PUC section 2827(h)(4)(G).

generator's aggregated electrical load generated during the 12-month period.

The IOUs have each incorporated this statutory provision into their respective NEM tariffs. In this context, SEIA seeks clarification "guiding the permanent ineligibility of an eligible customer generator to receive net surplus compensation (NSC). Specifically, SEIA understands that if an eligible customer generator with, e.g., a generation system and associated meter on Parcel A, aggregates that meter with a meter on Parcel B, then that eligible customer generator is permanently barred from receiving any NSC associated with that generation system. **However, if that same customer was to install a second generation system on parcel B, no longer aggregating the two meters, it is SEIA's position that pursuant to the applicable statutory language, the customer would be permitted to receive NSC with respect to the generation system on Parcel B, but would remain ineligible to receive such compensation with respect to the system on Parcel A. SEIA seeks confirmation of this interpretation.**

The interpretation is consistent with the statutory language which imposes the permanent ineligibility on the eligible customer generator who "chooses to aggregate pursuant to subparagraph (A)." The referenced subparagraph addresses a customer generator with one renewable electrical generation facility but with multiple meters on contiguous or adjacent property. **Thus it is the renewable electric generation facility that is aggregated with more than one meter that is permanently banned from receiving net surplus compensation, not the new renewable generation facility on a parcel which meter had previously been aggregated."**

PG&E revised the language in Special Condition 6 to reflect SEIA's requested changes and to preserve statutory compliance. Similar changes were made to Form 79-1153, *NEM Load Aggregation Appendix*.

6. **The Prohibited Combination of a Non-NEM Eligible Generator with a NEM Aggregation Arrangement** – PG&E, in its original filing, had already accommodated this scenario in Special Condition 5.g.2, and elsewhere in Special Condition 5.
7. **Consistent Use of the Terms "Property" and "Parcel"** – The Energy Division requests that the tariffs be modified to be consistent with the legislation SB 594 which uses the terms "property" and "parcel". Therefore the term "premise" should be struck from the tariffs.

PG&E notes that existing statutory language (pre-SB 594) in 2827.b.4 (in the definition of "Eligible customer-generator") uses the term "premises". Also,

this term is used in previously approved NEM tariff language – hence this term is revised only as noted in the attached.

Additionally, the ED Letter stated **the protest period** for this supplemental filing should be re-opened for 5 days so this Advice Letter reflects that timeline.

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 **January 21, 2014**, which is 5 days after the date of this filing. Protests should be mailed to:

CPUC Energy Division
ED Tariff Unit
505 Van Ness Avenue, 4th Floor
San Francisco, California 94102

Facsimile: (415) 703-2200
E-mail: EDTariffUnit@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 shall also be sent to PG&E either via E-mail, or U.S. mail (and by facsimile, if possible) at the address shown below on the same date it is mailed or delivered to the Commission

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

Facsimile: (415) 973-7226
E-mail: PGETariffs@pge.com

Any person (including individuals, groups, or organizations) may protest or respond to an advice letter. (General Order 96-B, Rule 7.4.) The protest shall contain the following information: specification of the advice letter protested; grounds for the protest; supporting factual information or legal argument; name, telephone number, postal address, and (where appropriate) e-mail address of the protestant; and statement that the protest was sent to the utility no later than the day on which the protest was submitted to the reviewing Industry Division (General Order 96-B, Rule 3.11).

Effective Date

PG&E requests that this Tier 2 advice filing become effective on regular notice, **February 15, 2014**, 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 lists for R.12-11-005, and 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>

Handwritten signature of Brian Cherry in cursive, with the initials 'KHC' written at the end.

Vice President, Regulatory Relations

Attachments

cc: Service Lists R.12-11-005, and R.10-05-004
Karen Norene Mills, for California Farm Bureau Federation
John Gorman, for EcoPlexus, Inc.
Thadeus B. Culley, for Interstate Renewable Energy Council, Inc.
Jason B. Keyes, for Interstate Renewable Energy Council, Inc.
Michael Boccadoro, for Agricultural Energy Customers Association
Tim Schmelzer, for Wine Institute
Jeanne Merrill, for California Climate & Agriculture Network
Eric Thompson, for Natel Energy, Inc.
Gopal Shanker, for Récolte Energy
David R. Wooley, for Solar City
Jeanne B. Armstrong, for Solar Energy Industries Association
Gabe Petlin, CPUC 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 E)**

Utility type:

ELC GAS
 PLC HEAT WATER

Contact Person: Kingsley Cheng

Phone #: (415) 973-5265

E-mail: k2c0@pge.com and PGETariffs@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) #: **4305-E-A**

Tier: **2**

Subject of AL: **Supplement -- Revise Electric Rate Schedule NEM and Establish a New Electric Sample Form for NEM for Load Aggregation Pursuant to Senate Bill 594 and Resolution E-4610**

Keywords (choose from CPUC listing): Agreements, Billing Compliance, Conditions of Service, Customer Charge, Direct Access, Forms, Metering, Text Change, Rules

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

If AL filed in compliance with a Commission order, indicate relevant Decision/Resolution #: SB 594 and Res. E-4610

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? If so, what information is the utility seeking confidential treatment for: No

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

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

Resolution Required? Yes No

Requested effective date: **February 15, 2014**

No. of tariff sheets: **22**

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 NEM (Net Energy Metering Service), and new Electric Sample Form 79-1153 (NEM Load Aggregation Appendix)**

Service affected and changes proposed: **See "Tariff Changes" section in advice letter**

Pending advice letters that revise the same tariff sheets: N/A

Protests, dispositions, and all other correspondence regarding this AL are due no later than 5 days after the date of this filing, unless otherwise authorized by the Commission, and shall be sent to:

California Public Utilities Commission
Energy Division
EDTariffUnit
505 Van Ness Ave., 4th Flr.
San Francisco, CA 94102
E-mail: EDTariffUnit@cpuc.ca.gov

Pacific Gas and Electric Company
Attn: Brian K. Cherry
Vice President, Regulatory Relations
77 Beale Street, Mail Code B10C
P.O. Box 770000
San Francisco, CA 94177
E-mail: PGETariffs@pge.com

**ATTACHMENT 1
Advice 4305-E-A**

Cal P.U.C. Sheet No.	Title of Sheet	Cancelling Cal P.U.C. Sheet No.
33464-E	ELECTRIC SCHEDULE NEM NET ENERGY METERING SERVICE Sheet 1	33286-E
33465-E	ELECTRIC SCHEDULE NEM NET ENERGY METERING SERVICE Sheet 2	33287-E
33466-E	ELECTRIC SCHEDULE NEM NET ENERGY METERING SERVICE Sheet 3	32763-E
33467-E	ELECTRIC SCHEDULE NEM NET ENERGY METERING SERVICE Sheet 4	30774-E
33468-E	ELECTRIC SCHEDULE NEM NET ENERGY METERING SERVICE Sheet 5	32764-E
33469-E	ELECTRIC SCHEDULE NEM NET ENERGY METERING SERVICE Sheet 6	30776-E
33470-E	ELECTRIC SCHEDULE NEM NET ENERGY METERING SERVICE Sheet 7	32765-E
33471-E	ELECTRIC SCHEDULE NEM NET ENERGY METERING SERVICE Sheet 8	30778-E
33472-E	ELECTRIC SCHEDULE NEM NET ENERGY METERING SERVICE Sheet 9	30779-E
33473-E	ELECTRIC SCHEDULE NEM NET ENERGY METERING SERVICE Sheet 10	32804-E
33474-E	ELECTRIC SCHEDULE NEM NET ENERGY METERING SERVICE Sheet 12	30782-E
33475-E	ELECTRIC SCHEDULE NEM NET ENERGY METERING SERVICE Sheet 13	32767-E

**ATTACHMENT 1
Advice 4305-E-A**

Cal P.U.C. Sheet No.	Title of Sheet	Cancelling Cal P.U.C. Sheet No.
33476-E	ELECTRIC SCHEDULE NEM NET ENERGY METERING SERVICE Sheet 14	30784-E
33477-E	ELECTRIC SCHEDULE NEM NET ENERGY METERING SERVICE Sheet 15	30785-E
33478-E	ELECTRIC SCHEDULE NEM NET ENERGY METERING SERVICE Sheet 16	30786-E
33479-E	ELECTRIC SCHEDULE NEM NET ENERGY METERING SERVICE Sheet 17	30787-E
33480-E	ELECTRIC SCHEDULE NEM NET ENERGY METERING SERVICE Sheet 20	32769-E
33481-E	ELECTRIC SCHEDULE NEM NET ENERGY METERING SERVICE Sheet 21	
33482-E	ELECTRIC SAMPLE FORM 79-1153 NEM LOAD AGGREGATION APPENDIX Sheet 1	
33483-E	ELECTRIC TABLE OF CONTENTS Sheet 1	33445-E
33484-E	ELECTRIC TABLE OF CONTENTS RATE SCHEDULES Sheet 6	33438-E
33485-E	ELECTRIC TABLE OF CONTENTS SAMPLE FORMS Sheet 28	32774-E



ELECTRIC SCHEDULE NEM
NET ENERGY METERING SERVICE

Sheet 1

APPLICABILITY: This net energy-metering schedule is applicable to a customer who uses a Renewable Electrical Generation Facility as defined below with a capacity of not more than 1,000 kilowatts that is located on the customer's owned, leased, or rented premises, is interconnected and operates in parallel with PG&E's transmission and distribution systems, including wind energy co-metering customers as defined in California Public Utilities Code Section 2827.8, and is intended primarily to offset part or all of the customer's own electrical requirements (hereinafter "eligible customer-generator" or "customer"). Subject to the requirements of Special Condition 8, Load Aggregation to determine the customer's own electrical requirements is permitted. Certain incremental billing and metering costs set forth in this schedule that are related to net energy metering are applicable to Electric Service Providers (ESPs) serving eligible customer-generators. (T)
 (T)

This service is not applicable to a Direct Access (DA) customer where the customer's ESP does not offer a net energy metering tariff. In addition, if the tariffs for the customer's ESP do not permit Load Aggregation, as described in Special Condition 8, this option is not available to the DA customer. In addition, if an eligible customer-generator participates in direct transactions with an ESP that does not provide distribution service for the direct transactions, the ESP, and not PG&E, is obligated to provide net energy metering to the customer. (N)
 |
 (N)

This rate schedule is available on a first-come, first-served basis to customers that provide PG&E with: (a) a completed Net Energy Metering Application including all supporting documents and required payments; AND (b) a completed signed Net Energy Metering Interconnection Agreement; AND (c) evidence of the customer's final inspection clearance from the governmental authority having jurisdiction over the generating facility; until July 1, 2017, or such time as the total rated generating capacity used by eligible customer-generators on Rate Schedule NEM, NEMV and NEMVMASH exceeds 2409 megawatts of nameplate generating capacity, whichever is earlier. Once this cap has been reached, Schedule NEM will be closed to new customers.

The total rated generating capacity of eligible customer-generators will be calculated as the sum of all of the following:

- 1) For each PV generating facility, PG&E will use the California Energy Commission's (CEC) AC rating; or where the CEC AC rating is not available, PG&E will multiply the inverter AC nameplate rating by 0.86.
- 2) For all other Renewable Electrical Generation Facilities, PG&E will use the AC nameplate rating of the generating facility.

(Continued)



ELECTRIC SCHEDULE NEM
NET ENERGY METERING SERVICE

Sheet 2

APPLICABILITY (Cont'd): Customers seeking generator interconnections in portions of San Francisco and Oakland where PG&E has a network grid must contact PG&E about generation export limitations.

A Renewable Electrical Generation Facility means a generating facility that generates electricity by using:

- a) biomass,
- b) solar thermal,
- c) photovoltaic,
- d) wind,
- e) geothermal,
- f) fuel cells using renewable fuels,
- g) small hydroelectric generation (but a small hydroelectric generation facility is not an eligible Renewable Electrical Generation Facility if it will cause an adverse impact on instream beneficial uses or cause a change in the volume or timing of streamflow),
- h) digester gas,
- i) municipal solid waste conversion,
- j) landfill gas,
- k) ocean wave,
- l) ocean thermal, or
- m) tidal current,

(T)

and any additions or enhancements to the facility using that technology pursuant to paragraph (1) of subdivision (a) of Section 25741 of the Public Resources Code. These renewable sources are defined in the latest version of the California Energy Commission's (CEC's) Renewables Portfolio Standard (RPS) Eligibility Guidebook and the Overall Program Guidebook.³

(T)

³ The RPS Guidebooks can be found at: <http://www.energy.ca.gov/renewables/documents/index.html#rps>

(Continued)



ELECTRIC SCHEDULE NEM
NET ENERGY METERING SERVICE

Sheet 3

APPLICABILITY:
 (Cont'd.)

Schedule NEM applies also to specified net energy metering eligible (NEM-eligible) generators in a generating facility comprised of multiple NEM- and non-NEM-eligible generators, served through the same Point of Common Coupling (PCC), where the NEM-eligible generating capacity is not more than 1 MW. Such facilities will be referred to as Multiple Tariff Facilities, and any group of generators within such a facility that is subject to the same tariff provisions for billing and metering purposes will be referred to as a Constituent Generator Group. In order to be eligible for this rate schedule in a Multiple Tariff Facility, the customer-generator must meet all the requirements of Special Condition 5 for the schedule NEM-eligible generator, and must also meet any other applicable tariffs.

Due to the complexity of Load Aggregation Arrangements and/or Multiple Tariff Facilities NEM generating facilities interconnecting under the provisions of Special Conditions 5 and 8 may require additional review and/or interconnection facilities and other equipment, and may incur interconnection costs, as provided for in electric Rule 21.

(N)
 (T)
 (N)

A Customer who owns, rents or leases a premises that includes solar and/or wind turbine electrical generating facilities, or a hybrid of both with a capacity of 30kW or less, that were previously approved by PG&E for NEM interconnection prior to the Customer moving in and/or taking electric service with PG&E (Change of party Customer) will take service on this tariff as long as the requirements of this section are met. To be eligible, the Change of party Customer must: 1) ensure that the generating facility is compliant with all applicable safety and performance standards as delineated in PG&E's Electric Rule 21 and other applicable tariffs; 2) understand that PG&E may from time to time release to the California Energy Commission and/or the California Public Utilities Commission, information regarding the Change of party Customer's facility, including Change of party Customer's name and Generating Facility location, capacity and operational characteristics. Any type of Renewable Electrical Generation Facility other than a solar and/or wind turbine electrical generating facilities, or a hybrid of both with a capacity of 30kW or less, may at PG&E's request be required to complete and submit to PG&E a new Interconnection Agreement (79-1137) and/or Affidavit (Appendix C).

Change of party Customers making any modification to previously approved PG&E NEM solar and/or wind turbine electrical generating facilities or other Renewable Electrical Generation Facility are not eligible for this provision and must complete the interconnection process in Special Condition 3 of this tariff.

Change of party Customers also must agree to comply with all rules and requirements of PG&E's Net Energy Metering tariffs.

When the builder/developer of a subdivision sells a new home during the NEM application process, after the builder/developer completes the Net Energy Metering Application and Interconnection Agreement and otherwise meets all of PG&E's requirements for the NEM project, but prior to PG&E providing final written approval for Parallel Operation on Schedule NEM, PG&E may treat the new home owner/Customer as a Change-of-party Customer, as defined above.

(L)

(Continued)



**ELECTRIC SCHEDULE NEM
 NET ENERGY METERING SERVICE**

Sheet 4

APPLICABILITY: **Demand Response Programs -** (N)
 (Cont'd.) For Load Aggregation pursuant to Special Condition 8, Aggregated Accounts, including the Generating Account, are eligible for the same demand response programs and solar tariffs as NEM customers. Demand response payments to Aggregated Accounts will be based on the Qualified Customer's metered usage disregarding any contributions allocated from the Generating Account. Similarly, any other demand response programmatic elements that are affected by a customer's load (e.g., program eligibility) shall also exclude from consideration any impacts of Generator Account generation. Any payments for demand response will be limited to the customer's load, and not include excess generation exported to the grid. (N)

TERRITORY: The entire territory served. (L)

RATES: All rates charged under this schedule will be in accordance with the eligible customer-generator's PG&E otherwise-applicable metered rate schedule (OAS). An eligible customer-generator 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. The "Average Rate Limiter" for general service OAS's and all other demand charges will be based on the demand in kilowatts as measured only on the energy being consumed by the customer from PG&E. The power factor, when it applies on the OAS, will be based on the energy consumed by the customer-generator from PG&E and the average power factor over the past 12 billing months of operation prior to starting on NEM. Customer-generators without 12 billing months of power factor history, will have their power factor estimated based on the nature of the connected facilities and their hours of operation. Power factor will be subsequently applied to the customer-generator's bill until the customer-generator 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 customer-generator's bills. Charges for energy (kWh) supplied by PG&E, ESP or Community Choice Aggregator (CCA), as applicable, will be based on the net metered usage in accordance with Billing (Special Condition 2, below).

For PG&E customer-generators, the energy charges will be in accordance with the customer-generator's OAS. For ESP or CCA customer-generators, 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.

Customer-generators eligible for service under this schedule are exempt from the requirements of Schedule S—Standby Service except Multiple Tariff Facilities interconnected under the terms of Special Condition 5, may be subject to the requirements of Schedule S.

The charges and credits for Multiple Tariff Facilities taking service on this rate schedule under the provisions of Special Condition 5, will be calculated using the applicable OAS identified by the customer-generator in its application for interconnection and its interconnection agreement with PG&E or as subsequently changed by the customer-generator in accordance with PG&E's electric Rule 12.

Customer-generators with Multiple Tariff Facilities with existing NEM, NEMBIO and/or NEMFC eligible generators interconnecting additional generators, will receive a bill true-up prior to taking service under Special Condition 5. This ensures that all NEM accounts have the same Relevant Period, as defined in Special Condition 2, going forward.

(Continued)



ELECTRIC SCHEDULE NEM
NET ENERGY METERING SERVICE

Sheet 5

SUB-SCHEDULES:

Eligible customer-generators will be placed on the appropriate sub-schedule as described below:

1. NEMS – For Small Customer (as defined in Rule 1) customer-generators taking service with solar and/or wind generating facilities of 30 kilowatts or less.
2. NEMEXP – For Small Customer (as defined in Rule 1) customer-generators with (i) solar and/or wind generating facilities or 1,000 kilowatts or less, other than facilities of 30 kilowatts or less, or (ii) any other Renewable Electrical Generation Facility of 1,000 kilowatts or less.
3. NEMEXPM – For all other commercial, industrial customer-generators, and agricultural customers billed monthly under Special Condition 2 with (i) solar and/or wind generating facilities of 1,000 kilowatts or less, other than facilities of 30 kilowatts or less, (ii) or any other Renewable Electrical Generation Facility of 1,000 kilowatts or less.
4. NEMMT – For customer-generators taking service as a Multiple Tariff Facility under Special Condition 5 of this tariff.
5. NEMA – For a customer-generator with a Load Aggregation Arrangement pursuant to Special Condition 8 of this tariff.

(N)
 (N)

(Continued)



ELECTRIC SCHEDULE NEM
NET ENERGY METERING SERVICE

Sheet 6

SPECIAL
 CONDITIONS:

1. **METERING:** Multiple Tariff Facilities will be metered under one of the options described in Special Condition 5. All other net energy metering shall be accomplished using a single meter capable of registering the flow of electricity in two directions. If the eligible customer-generator's existing electrical meter is not capable of measuring the flow of electricity in two directions, the eligible customer-generator shall be responsible for all expenses involved in purchasing and installing a meter that is able to measure electricity flow in two directions. An additional meter or meters, installed in a dual meter socket ("dual metering"), to monitor the flow of electricity in each direction may be installed with the consent of the eligible customer-generator, at the expense of PG&E, and the dual metering shall be used only to provide the information necessary to accurately bill or credit the customer according to the utility's OAS or to collect Renewable Electrical Generation Facility electric generating system performance information for research purposes. PG&E shall determine whether dual metering is required under this provision. If dual metering is installed, the net energy metering calculation (see below) shall yield a result identical to that of a single meter capable of measuring the flow of electricity in two directions.

PG&E shall not require dual metering except where necessary for billing accuracy. If none of the normal metering options available at PG&E's disposal which are necessary to render accurate billing are acceptable to the customer-generator, PG&E shall have the right to refuse interconnection.

Customer-generators eligible for Special Condition 4 shall not be responsible for replacing, nor be obligated to replace, their existing meter unless the customer-generator's existing electrical meter is not capable of measuring the flow of electricity in two directions.

Customer-generators with Load Aggregation Arrangements will need metering on the Generating Account capable of separately measuring exports in a manner commensurate with the smallest time interval used by PG&E to establish billing determinates for any of the Aggregated Account meters. If a newly installed Renewable Electrical Generation Facility can use the existing metering, the metering charges will be based on applicable meter charges in the Generating Account OAS; if a new meter is requested by the customer for a new service as allowed in Special Condition 3, it must be installed at the customer's expense as a Special Facility using incremental costs, pursuant to Section 1, Electric Rule 2.

(N)

For each Aggregated Account other than the Generating Account, an appropriate load account meter is required, consistent with the rate schedule for that account, and customer is responsible for all metering charges provided for in each Aggregated Account's OAS.

(N)

(Continued)



ELECTRIC SCHEDULE NEM
NET ENERGY METERING SERVICE

Sheet 7

SPECIAL
 CONDITIONS:
 (Cont'd.)

2. BILLING: Facilities qualifying under Multiple Tariffs Facilities, see Special Condition 5.

For customer-generators taking service on OAS's, any net monthly consumption or production shall be valued as follows:

- a. For an OAS with Baseline Rates

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

If the eligible customer-generator is a net consumer, the eligible customer-generator will be billed in accordance with the eligible customer-generator's OAS.

If the eligible customer-generator is a net generator, the net kWh generated 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.

If the eligible customer-generator is being served under DA or CCA Service, ESP or CCA charges will be specified by their ESP or CCA in accordance with the eligible customer-generator's OAS and PG&E's Direct Access or Community Choice Aggregation tariffs. Applicable PG&E charges or credits will be valued as described in this Section 2.

For a DA or CCA Service customer-generator, Generation Rate Component credits, if any, do not reduce the charges owed to PG&E for energy supplied to the eligible customer-generator.

- b. For an OAS with Time of Use (TOU):

If the eligible customer-generator is a net consumer during any discrete TOU period, the net kWh consumed shall be billed in accordance with that same TOU period in the eligible customer-generator's OAS.

If the eligible customer-generator is a net generator during any discrete TOU period, the net kWh produced shall be valued at the same price per kWh at the same TOU period in the eligible customer generator's OAS.

In the event that at the end of the monthly billing cycle, an eligible customer-generator's net usage for all TOU periods totals zero (i.e. net generation in one or more periods exactly offsets the net usage 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).

If the eligible customer-generator is being served under DA or CCA Service, ESP or CCA charges will be specified by their ESP or CCA in accordance with the eligible customer-generator's OAS and PG&E's Direct Access or Community Choice Aggregation tariffs. Applicable PG&E charges or credits will be valued as described in this Section 2.

For a DA or CCA Service customer-generator, Generation Rate Component credits, if any, do not reduce the charges owed to PG&E for energy supplied to the eligible customer-generator.

(T)

(Continued)



ELECTRIC SCHEDULE NEM
NET ENERGY METERING SERVICE

Sheet 8

SPECIAL
 CONDITIONS:
 (Cont'd.)

2. NET ENERGY METERING AND BILLING: (Cont'd.)

c. For an OAS with Minimum Charges:

Eligible customer-generators taking service on residential OAS's, 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 Section 2.e below, unless otherwise provided for in the OAS.

(T)

d. For a customer-generator electing Load Aggregation

(N)

For each monthly billing period, the energy (kWh) exported to the grid (in kilowatt-hours or kWh) by the Renewable Electrical Generation Facility shall be allocated to each of the Aggregated Account meters (kWh reading), as well as the Generating Account if it has load, based on the cumulative usage at each aggregated account and the cumulative generation from the generating account from the start of the Relevant Period. At the end of the month, once the allocation proportions are known, the kWh for each Generating Account meter interval will be allocated to each of the Aggregated Accounts for the corresponding interval.

Once the kWh is allocated to an eligible customer-generator's Aggregated Account, that account will be treated in accordance with (a), (b), and/or (c) above, as applies to the rate schedule on which the Aggregated Account takes service. The Generating Account will also be treated as an Aggregated Account in months where it has net load.

(N)

e. Payment Options:

(T)

Eligible Small Customer (as defined in Rule 1) customer generators may pay monthly or annually for the net energy (kWh) consumed. For all other commercial, industrial, and agricultural customers, the net balance of all moneys owed must be paid on each monthly billing cycle; when they are 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 generator's account, until the end of the Relevant Period.

Aggregated Accounts, including the Generating Account in a Load Aggregation Arrangement must pay monthly for energy consumed.

(N)

(N)

f. Relevant Period:

(T)

A Relevant Period consists of any twelve monthly billing cycles commencing on the date PG&E provides the Customer-Generator with PG&E's written approval to begin parallel operation of the generating facility for purposes of participating in NEM, and on every subsequent anniversary thereof. If an eligible customer-generator terminates service, 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.

(Continued)



**ELECTRIC SCHEDULE NEM
 NET ENERGY METERING SERVICE**

Sheet 9

SPECIAL
 CONDITIONS:
 (Cont'd.)

2. NET ENERGY METERING AND BILLING: (Cont'd.)

f. Relevant Period: (Cont'd.)

(N)

For Load Aggregation, the Generating Account and all Aggregated Accounts will have the same billing cycle and Relevant Period, based on the interconnection date, or Anniversary thereof as described earlier in this paragraph. However, if an Aggregated Account terminates service, or experiences a change in ESP or CCA prior to the end of any 12 monthly billing cycles, its Relevant Period will consist of that period from the anniversary date until the effective date of that termination or ESP or CCA change. If an Aggregated Account is subsequently added, its Relevant Period will consist of that period from its effective date of inclusion in Load.

(N)

g. Energy True Up:

(T)

Net energy is defined as measuring the difference between the energy (kWh) supplied by PG&E, ESP or CCA, as applicable, through the electric grid to the eligible customer-generator and energy (kWh) generated by an eligible customer-generator and fed back into the electric grid over a Relevant Period.

For an Aggregated Account, (including a Generating Account) Net Energy is defined as measuring the difference between the energy (kWh) supplied by PG&E, ESP or CCA, as applicable, through the electric grid to the eligible customer-generator and the total energy (kWh) allocated to that Aggregated Account over a Relevant Period.

(N)

(N)

A true up is performed by PG&E and/or ESP or CCA, as applicable, at the end of each Relevant Period following the date the customer-generator was first eligible for Schedule NEM, or the date of PG&E's written approval to begin parallel operation of the generating facility for purposes of participating in NEM, whichever is later, and at each anniversary date thereafter. The eligible customer-generator shall be billed for energy (kWh) used during that period.

Where the residential minimum bill applies at the true up for a Bundled Service customer, no further amounts will be billed to the customer-generator as a result of the true up. Where the minimum bill applies at the true up for a customer generator that has taken DA, CCA Service or transitional bundled commodity cost service for all or part of the Relevant period, the customer-generator will be billed for all applicable energy-related components, provided no credit will be allowed for negative components unless the rate for such component is also negative.

If the customer-generator is taking service under DA or CCA Service, separate true-ups will be calculated for the applicable PG&E charges and credits and the ESP or CCA charges and credits. If PG&E is the electric commodity service provider, this condition may be modified where the customer has signed a contract to sell electricity to PG&E.

(L)

(Continued)



ELECTRIC SCHEDULE NEM
NET ENERGY METERING SERVICE

Sheet 10

SPECIAL
 CONDITIONS:
 (Cont'd.)

2. NET ENERGY METERING AND BILLING: (Cont'd.)

g. Energy True Up: (Cont'd)

(T) (L)

For a DA or CCA Service customer-generator, Generation Rate Component credits, if any, do not reduce the charges owed to PG&E for energy supplied to the eligible customer-generator.

If any Eligible customer-generator has any credits calculated pursuant to this Section 2 remaining at the end of the Relevant Period, that credit will be set to zero. However, in the event the energy (kWh) generated exceeds the energy (kWh) consumed during the Relevant Period, compensation shall be made for the excess energy (kWh) as described and allowed for in Special Condition 6.

(T)

Once the true-up is completed at the end of the Relevant Period, any overpayment for energy (kWh) from the true-up will be credited to future bill charges.

(L)

h. Billing Information:

(T)

If PG&E supplies the eligible customer-generator with energy (kWh), PG&E shall provide the eligible customer-generator with 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 last Relevant Period ended.

i. Electric Service Provider (ESP) Charges:

If PG&E provides direct access (DA) metering for the ESP, UDC consolidated billing (that is, PG&E Consolidated Billing as described on PG&E's Rule 22), or ESP dual or consolidated billing support services for DA customer-generators served under PG&E's rates or their ESP's rates, PG&E may recover the incremental costs related to net energy metering from the customer's ESP, as described in Schedule E-ESP – *Services To Electric Service Providers*, and Schedule E-EUS – *End User Service*.

(N)

(N)

(D)

(D)

All accounts in a Load Aggregation Arrangement, including the Generating Account and all of its Aggregated Accounts, will normally all take service either only from PG&E, a single ESP or a single CCA. However, if PG&E is the billing agent, a mixture of electric commodity service providers may be permitted as long as PG&E agrees and recovers the additional incremental costs related to billing this Load Aggregation Arrangement from the customer's ESP and/or CCA based on the applicable rates in Schedules E-ESP and E-CCA.

(N)

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|

(N)

(Continued)



ELECTRIC SCHEDULE NEM
NET ENERGY METERING SERVICE

Sheet 12

SPECIAL
 CONDITIONS:
 (Cont'd.)

3. INTERCONNECTION: (Cont'd.)

For Load Aggregation, a completed and signed "NEM Load Aggregation Appendix" (Form 79-1153) must be submitted together with the appropriate NEM interconnection agreement listed above. (N)
 |
 (N)

The eligible customer-generator must meet all applicable safety and performance standards established by the National Electrical Code, the Institute of Electrical and Electronics Engineers, and accredited testing laboratories such as Underwriters Laboratories and, where applicable, rules of the California Public Utilities Commission regarding safety and reliability.

For Load Aggregation Arrangements Requesting an additional service for Generator – Subject to all other applicable rules, an additional service may be allowed for the Generating Account if it has no load other than that associated directly with the Renewable Electric Generation Facility. However, a customer may not subsequently add load to that additional service, and if the Renewable Electrical Generation Facility is removed, the additional service, may not be converted to a load account. (N)
 |
 |
 |
 |
 (N)

4. EXEMPTIONS FROM CERTAIN CHARGES: Per Section 2827.7 of the California Public Utilities Code, eligible customer-generators who have all local and state permits required to commence construction of their generating facilities on or before December 31, 2002, and have completed construction on or before September 30, 2003, shall not be required to pay non-bypassable charges on Departing Load including Public Purpose Program charges and shall be entitled to the net energy metering terms in effect on the date the local and state permits were acquired, for the life of the generating facility, regardless of any change in customer or ownership of the generating facility.

(Continued)



**ELECTRIC SCHEDULE NEM
 NET ENERGY METERING SERVICE**

Sheet 13

SPECIAL
 CONDITIONS:
 (Cont'd.)

5. MULTIPLE TARIFF FACILITIES: (T)
- Multiple Tariff Facilities have the following additional provisions:
- a. When Net Generation Output Metering (NGOM) is required, such NGOM must conform to the requirements set forth in Electric Rule 21, Section J.
 - b. A NEM-eligible Constituent Generator Group is defined as a constituent generator group that is eligible for service under the provisions of either schedule NEM, NEMBIO or NEMFC or their sub-schedules.
 - c. A non-NEM-eligible Constituent Generator Group is defined as a constituent generator group that does not take service under the provisions of schedule NEM, NEMBIO or NEMFC, but interconnects under the non-NEM provisions of Electric Rule 21.
 - d. All metering for Multiple Tariff Facilities called for in this special condition must meet the requirements needed to bill under the customer-generator's OAS. All metering, equipment and Non Export relays necessary to implement the provisions in this section will be provided at the Customer-Generator's expense.
 - e. Any generators eligible for tariffs NEMA, NEMFCA or NEMBIOA (accounts with the loads from eligible accounts aggregated on the main NEM, NEMFC or NEMBIO account pursuant as allowed under this Special Condition 5 of this NEM tariff) will be treated as a separate Constituent Generator Group. However at this time NEMA may not be combined with NEMFCA or NEMBIOA under this Special Condition. (N)(T)
- |
|
|
(N)(T)

(Continued)



**ELECTRIC SCHEDULE NEM
 NET ENERGY METERING SERVICE**

Sheet 14

SPECIAL
 CONDITIONS:
 (Cont'd.)

5. MULTIPLE TARIFF FACILITIES (Cont'd):

- f. Except for Load Aggregation Arrangements, where multiple NEM-eligible Constituent Generator Groups are present and energy (kWh) is exported to the grid at the PCC, the billing credit will be based upon the proportional contribution of the energy production (kWh) of each NEM-eligible Constituent Generator Group over the billing period as follows: (T)
- 1) Sum all NEM-eligible Constituent Generator Groups' NGOM readings.
 - 2) Determine the proportion of energy (kWh) attributable to each NEM-eligible Constituent Generator Group by dividing the NGOM reading of each by the sum from (1) above.
 - 3) NEM-eligible Export is the lesser of either all exported energy (kWh) as measured at the PCC or the sum of the energy (kWh) per (1) above.
 - 4) Take the NEM-eligible Export and assign it to each NEM-eligible Constituent Generator Group based on its respective proportion of NGOM reading.
 - 5) Determine the bill credit for the customer-generator as provided under the customer-generator's OAS in combination with the net energy metering tariff billing treatment type for each NEM-eligible Constituent Generator Group.
 - 6) If interval metering is chosen per Special Condition 5(g)(2)(c) of this special condition, this allocation of bill credit will be done on the aggregated intervals over a billing period. If the OAS is a time-of-use (TOU) rate schedule, the allocation will be performed for each aggregated TOU period separately.
 - 7) Generating Facilities including only multiple Renewable Electrical Generating Facilities are not Multiple Tariff Facilities and the customer-generator will be billed as provided in Special Condition 2 of this tariff.

(Continued)

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 Regulatory Relations

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**ELECTRIC SCHEDULE NEM
 NET ENERGY METERING SERVICE**

Sheet 15

SPECIAL
 CONDITIONS:
 (Cont'd.)

5. MULTIPLE TARIFF FACILITIES (Cont'd):

g. Multiple Tariff Facility Configurations and Metering.

1) Except for Load Aggregation Arrangements, for two or more types of NEM-eligible Constituent Generator Groups, the customer-generator must select one of the following options: (T)

a) Install NGOM on each Constituent Generator Group. In addition, metering is required at the PCC capable of separately registering the flow of energy (kWh) in two directions. Billing credit will be calculated as provided for in Special Condition 5(f). Generation Rate Component charges are the charges for energy (kWh) used based on the generation rate component of the energy charge under the customer-generator's rate schedule(s). Billing credit will be applied consistent with the appropriate net metering tariff as follows:

- i. First, apply NEMBIO credits (if any) to Generation Rate Component charges on any aggregated accounts, and then to Generation Rate Component charges on the account served by the generating facility (Host Account).
- ii. Second, apply NEMFC credits (if any) to Generation Rate Component charges on the account served by the generating facility.
- iii. Third, apply NEM credits (if any) as appropriate to the remainder of energy charges on the account served by the generating facility.

b) If the customer-generator has no Constituent Generator Group(s) eligible for Schedule NEMBIOA, but has a Constituent Generator Group eligible for Schedule NEM consisting of one or more Renewable Electrical Generation Facilities, the customer-generator may elect to take service for such under either Schedule NEMBIO or NEMFC, as appropriate to one of the other Constituent Generator Group(s).

(Continued)



**ELECTRIC SCHEDULE NEM
 NET ENERGY METERING SERVICE**

Sheet 16

SPECIAL
 CONDITIONS:
 (Cont'd.)

- 5. MULTIPLE TARIFF FACILITIES (Cont'd):
 - g. Multiple Tariff Facility Configurations and Metering. (Cont'd)
 - 2) For both, NEM-Eligible — unless there is a Load Aggregation Constituent Generator Group, in which case it must be the only NEM-Eligible Constituent Generator Group — and non-NEM Eligible Constituent Generator Groups, the Customer-Generator must select one of the following options:
 - i. **The Non Export Relay Option:** A Customer-Generator must install a Non-Export relay on their non-NEM Constituent Generator Groups and install metering as follows: 1) If there is only one type of NEM-eligible Constituent Generator Group then metering at the PCC is all that is required and the terms of the appropriate NEM tariff for that group will apply; 2) If there are two or more types of NEM-Eligible Constituent Generator Groups, then Metering at the PCC and NGOM metering of each NEM-Eligible Constituent Generator Group is required. The requirements of Special Condition 5(f) and 5(g) apply.
 - ii. **The Load Metering Option:** The customer-generator must install NGOM on each NEM-Eligible Constituent Generator Group, install energy consumption metering at the load, and install metering at the PCC as follows: 1) If there is one type of NEM-Eligible Constituent Generator Group then the terms of the appropriate NEM tariff for that group will apply; 2) If there are two or more types of NEM-Eligible Constituent Generator Groups, then the terms of Special Condition 5(f) and 5(g) apply.
 - iii. **The Interval Meter Option:** The customer-generator must install interval NGOM on each NEM-Eligible Constituent Generator Group and install interval metering at the PCC as follows: 1) If there is one type of Constituent Generator Group then the terms of the appropriate NEM tariff for that group will apply; 2) If there are two or more types of NEM-Eligible Constituent Generator Groups, then the terms of Special Condition 5(f) and 5(g) for interval metering apply. Energies (kWh) generated in an interval are aggregated over a billing period according to the OAS.
 - h. Multiple Tariff Facilities, served under DA or CCA Service, may only participate to the extent their ESP or CCA offers net metering for the specific constituent generator group(s).
 - i. Multiple Tariff Facilities involving multiple Load Aggregation Constituent Generator Groups, except for those allowed under Section g. above, are not permitted at this time.

(Continued)



ELECTRIC SCHEDULE NEM
NET ENERGY METERING SERVICE

Sheet 17

SPECIAL
CONDITIONS:
 (Cont'd.)

6. Net Surplus Electricity Compensation (NSC):

Pursuant to P.U. Code Sections 2827 (h)(4)(A), this Special Condition was established to provide a NEM customer having **Net Surplus Electricity**, (defined as all electricity generated by an eligible customer measured in kilowatt-hours over a Relevant Period – as defined in Special Condition 2(e) 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 NEM customer who has Net Surplus Electricity will be known as a **Net Surplus Generator**.

(a) NSC Applicability – All bundled Net Surplus Generators that satisfy the conditions in the Applicability Section of this tariff and take service under this rate schedule are eligible to receive NSC if they have a true-up on, or following, the effective date below. This includes Net Surplus Generators on sub-schedules NEMS, NEMEXP, and NEMEXPM. A NEMMT Net Surplus Generator is also eligible to receive NSC but only for the one or more generators at the same metered account eligible for billing treatment under Special Condition 2 (a through f) of this NEM schedule.

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.

If an eligible customer-generator elects Load Aggregation as described in Special Condition 8, the Generating Account shall be permanently ineligible to receive net surplus electricity compensation, and PG&E shall retain any kilowatt-hours and zero out any credits remaining on each account in the Load Aggregation Arrangement at the end of the Relevant Period. However, if an Aggregated Account that is not a Generating Account is separated from the Arrangement, and subsequently qualifies for NEM, it is also eligible for NSC.

(N)
 |
 |
 |
 |
 |
 (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 NEM customer in January 2010 and the meter read date for their twelfth billing month following enrollment in NEM falls in December of 2010; or (ii) a Net Surplus Generator's NEM 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.

(Continued)



ELECTRIC SCHEDULE NEM
NET ENERGY METERING SERVICE

Sheet 20

SPECIAL
 CONDITIONS:
 (Cont'd.)

7. Pursuant to Public Utilities Code Section 2827(c)(2), any customer with an existing electrical generating facility and meter who enters into a new net energy metering contract (for example, Sample Form 79-978, *Interconnection Agreement for Net Energy Metering of Solar and Wind Electric Generating Facilities of 1,000 Kilowatts or Less, other than Facilities of 30 Kilowatts or Less*) shall complete and submit a copy of form 79-1125 – *NEM / NEMVMASH Inspection Report* to PG&E, unless the electrical generating facility and meter have been installed or inspected within the previous three years. The *NEM Inspection Report* shall be prepared by a California licensed contractor who is not the owner or operator of the facility and meter. A California licensed electrician shall perform the inspection of the electrical portion of the facility and meter and sign the *NEM / NEMVMASH Inspection Report*. If an inspection is required, the customer shall submit the fully completed *NEM / NEMVMASH Inspection Report* to PG&E within 90 days of the customer becoming the customer of record at this account, or else the customer agrees to disconnect their Generating Facility and inform PG&E it no longer will take service on schedule NEM or NEMVMASH. By signing the interconnection agreement, the *NEM / NEMVMASH Inspection Report* shall be incorporated into it. (T)
8. **Load Aggregation** (N)
- Load Aggregation is available to an eligible customer-generator that has load served by multiple meters (“**Aggregated Accounts**”) located on the property where the Renewable Electrical Generation Facility (“**Generating Account**”) is located and on property adjacent or contiguous to the property on which the Renewable Electrical Generation Facility is located, only if those properties are solely owned, leased, or rented by the eligible customer-generator, subject to the terms of this Special Condition and elsewhere in this tariff. All of the Aggregated Accounts, including a single Generating Account, that are billed together under this Special Condition are referred to as an **Arrangement**. Customer-generators are eligible to participate in Load Aggregation provided that all meters in a Load Aggregation Arrangement are located (i) on the property where the renewable electrical generation facility is located, or (ii) are located within an unbroken chain of contiguous parcels that are all solely owned, leased or rented by the customer-generator. For purposes of Load Aggregation, parcels that are divided by a street, highway, or public thoroughfare are considered contiguous, provided they are within an unbroken chain of otherwise contiguous parcels that are all solely owned, leased or rented by the customer-generator, as verified in Form 79-1153.
- For example, assume there are five parcels (A, B, C, D, E, and F) that form a cluster of contiguous parcels and D and E are separated from A, B, C and F by a street, highway, or public thoroughfare. For the purposes of participating in Load Aggregation, all five parcels are considered contiguous, provided they are otherwise contiguous and all are solely owned, leased or rented by the customer-generator. Refer to Diagram 1 (for illustrative purposes only). (N)

(Continued)

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ELECTRIC SCHEDULE NEM
NET ENERGY METERING SERVICE

Sheet 21

SPECIAL
 CONDITIONS:
 (Cont'd.)

8. **Load Aggregation (Cont'd)**

(N)

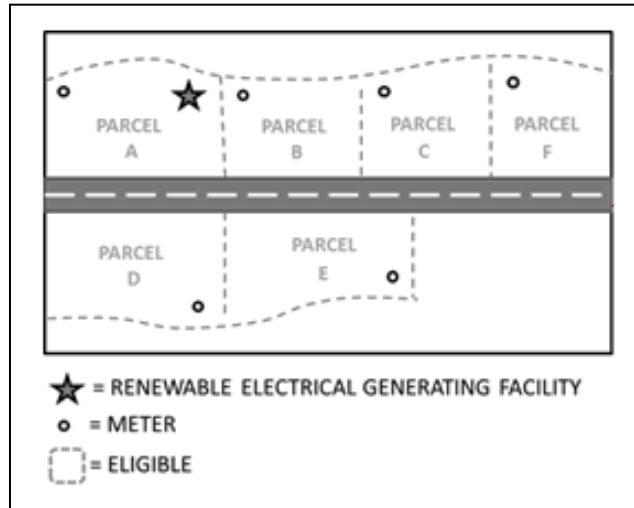


Diagram 1

Billing Service Charges -- Notwithstanding Public Utilities Code Section 2827 (g), an eligible customer-generator electing Load Aggregation shall remit service charges for the cost of providing billing services as follows. These charges shall include:

- i) One-Time Setup Charge of \$25.00 per Aggregated Account and for the Generating Account, as defined in this Special Condition, and cumulatively, shall be limited to no more than \$500 per Load Aggregation Arrangement.

Plus,

- ii) Monthly Charge of \$5 Per Aggregated Account and for the Generating Account as defined in this Special Condition.

(N)



ELECTRIC SAMPLE FORM 79-1153
NEM LOAD AGGREGATION APPENDIX

Sheet 1 (N)
(N)

Please Refer to Attached
Sample Form

Advice Letter No: 4305-E-A
Decision No. SB 594 and E-4610

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Brian K. Cherry
Vice President
Regulatory Relations

Date Filed January 16, 2014
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NEM LOAD AGGREGATION APPENDIX

(If Applicable)

**List of Qualifying Accounts Eligible for
Load Aggregation under Special Condition 8 of Schedule
NEM and Customer-Generator Declaration Warranting NEM Aggregation Is Located On
Same or Adjacent or Contiguous Property to Generator Parcel**

This is an appendix to Form 79-1101 79-978, 79-1137 or 79-1069 as applicable. As governed by Schedule NEM Special Condition 8, PG&E will aggregate the load of the Customer-Generator's accounts listed below where the Customer-Generator is the customer of record and the accounts continue to meet the requirements of Special Condition 8 of PG&E's NEM tariff as outlined in the Customer Declaration below.

In accordance with this appendix:

(i) Pursuant to Schedule NEM Special Condition 8, the electricity generated by the renewable electrical generation facility and exported to the grid shall be allocated to each of the aggregated meters in proportion to the electrical load served by those meters, and

(ii) In accordance with Special Condition 8 of the Rate Schedule NEM, Customer-Generator shall remit service charges of _____ to PG&E for its cost of providing billing service to those meters, and

(iii) Customer-Generator shall permanently be ineligible to receive AB 920 net surplus electricity compensation (NSC), and PG&E shall retain any kilowatt hours in excess of the eligible Customer-Generator's electrical load as determined for each aggregated meter individually. (However, if an Aggregated Account that is not a Generating Account is separated from the Arrangement, and subsequently qualifies for NEM, it may be eligible for NSC.)

This agreement at all times shall be subject to such modifications as the California Public Utilities Commission may direct from time to time in the exercise of its jurisdiction.

NEM LOAD AGGREGATION APPENDIX

Requesting Second Service for Generator: Yes No

For Load Aggregation Arrangements Requesting an additional service for Generator – Subject to all other applicable rules, an additional service may be allowed for the Generating Account if it has no load other than that associated directly with the Renewable Electric Generation Facility. However, a customer may not subsequently add load to that additional service, and if the Renewable Electrical Generation Facility is removed, the additional service, may not be converted to a load account.

Accounts	Customer-Generator Service Agreement ID from your Billing Statement ⁶	Account Address as listed on your Billing Statement (Street, City, Zip Code – no P.O. boxes)	Annual kWh Load ⁷
Generator Account			
1.			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
Total Annual kWh			
110% of Total Annual kWh (Standard NEM solar and/or wind <= 30 kW only)			

(Use more sheets as necessary. You do not have to restate the Generator Account on additional sheets.)

Total Annual Kwh Load (from all sheets, if applicable)	
Estimated Annual kWh Production Solar = CEC-AC ⁸ rating X 1,664 ⁹ Wind = Total Inverter Nameplate Rating X 2,190 ¹⁰ Other Technologies = Total Inverter Nameplate Rating X 7,008 ¹¹	

(Customer-Generator) _____ Date: _____ Page: ___ of ___

⁶ If this is a new account, enter *NEW*.

⁷ For previous twelve months from date of signature. Please also enter the annual kWh for generator account prior to the generator being installed; if none, enter zero.

⁸ CEC-AC (kW) = California Energy Commission Alternating Current, refers to inverter efficiency rating (Quantity of PV Modules x PTC Rating of PV Modules x CEC Inverter Efficiency Rating)/1000

⁹ Estimated Solar Production = 8,760 hrs/yr X 0.19 solar capacity factor = 1,664

¹⁰ Estimated Wind Production = 8,760 hrs/yr X 0.25 wind capacity factor = 2,190

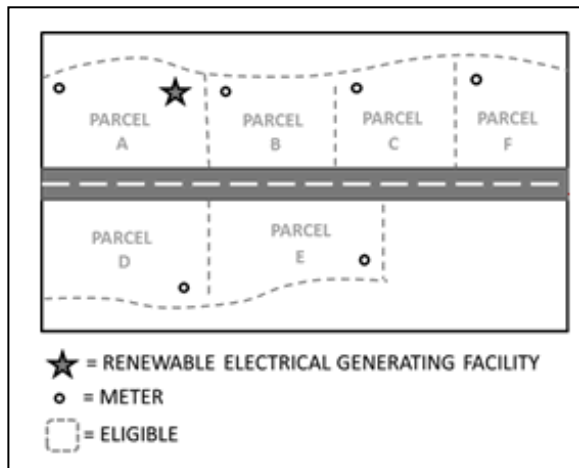
¹¹ Estimated Other Technologies = 8,760 hrs/yr X 0.80 other technologies capacity factor = 7,008

Customer-Generator Declaration

In accordance with Schedule NEM, I, Customer-Generator represent and warrant under penalty of perjury that:

- 1) The total annual output in kWh of the generator is less than or equal to 110% (for solar and/or wind systems equal to or less than 30 kW) or 100% (for all other technologies and solar and/or wind systems greater than 30 kW) of the annual aggregated electrical load in kWh of the meters associated with the generator account, including the load on the generating account itself (before being offset by the generator); and
- 2) Each of the aggregated account meters associated with this NEM generator account are located either
 - (i) on the property where the renewable electrical generation facility is located, or

(ii) are located within an unbroken chain of contiguous parcels that are all solely owned, leased or rented by the customer-generator. For purposes of Load Aggregation, parcels that are divided by a street,



highway, or public thoroughfare are considered contiguous, provided they are within an unbroken chain of otherwise contiguous parcels that are all solely owned leased or rented by the customer-generator.

For example, assume there are five parcels (A, B, C, D, E, and F) that form a cluster of contiguous parcels and D and E are separated from A, B, C and F by a street, highway, or public thoroughfare. For the purposes of participating in Load Aggregation, all five parcels are considered contiguous, provided they are otherwise contiguous and all are solely owned, leased or rented by the customer-generator. Refer to the diagram at left (for illustrative purposes only.)

- 3) PG&E reserves the right to request a parcel map to confirm the property meets the requirements of 2) above; and
- 4) Customer-Generator agrees to notify PG&E if there is any change of status that makes any of the meters listed in this Appendix ineligible for meter aggregation to ensure that only eligible meters are participating; PG&E will require an updated Appendix and Declaration form; and
- 5) Upon request by PG&E, I agree to provide documentation that all aggregated meters meet the requirements of Rate Schedule NEM Special Condition 8 including but not limited to parcel maps and ownership records.

Customer Generator's Name

Date

Signature

Type/Print Name

Title



ELECTRIC TABLE OF CONTENTS

Sheet 1

TABLE OF CONTENTS

SCHEDULE	TITLE OF SHEET	CAL P.U.C. SHEET NO.	
	Title Page	33483-E	(T)
	Rate Schedules	33434,33435,33436,33437, 33484 ,33446,32705,31541,33440-E	(T)
	Preliminary Statements	33441,32706,30376,32544,32398,30846,32783,33138-E	
	Rules	32424, 32425, 33001-E	
	Maps, Contracts and Deviations.....	33253-E	
	Sample Forms	32777,32429,32726,32431,32504, 33485 ,33209,32506,32648,32437,32508,32439-E	(T)

(Continued)

Advice Letter No: 4305-E-A
 Decision No. SB 594 and E-4610

Issued by
Brian K. Cherry
 Vice President
 Regulatory Relations

Date Filed January 16, 2014
 Effective _____
 Resolution No. _____



ELECTRIC TABLE OF CONTENTS
RATE SCHEDULES

Sheet 6

SCHEDULE	TITLE OF SHEET	CAL P.U.C. SHEET NO.
	Rate Schedules	
	Other	
S	Standby Service	28399,28400,33429,31125,28238-28243, 31126,28245,30291,33430,28401-28404-E
E-CHP	Combined Heat and Power PPA	30809-30813-E
E-CHPS	Combined Heat and Power Simplified PPA	30814-30817-E
E-CHPSA	Combined Heat And Power Simplified 500 kW PPA	30825-30828-E
E-DCG	DCG Departing Customer Generation, CG	30168*,30169*,23667, 30697,30698,28954,28607,23252,23253,28405,23255-E
E-DEPART	Departing Customers	28859-E
E-NWDL	New WAPA Departing Load	28581,28582,28862,28863,27448-27452-E
E-NMDL	New Municipal Departing Load.....	27453,32097,32098,32099, 29557,29558,29559, 29560,29561,29562,29563,29564-E
E-LORMS	Limited Optional Remote Metering Services	20194-E
E-SDL	Split-Wheeling Departing Load.....	28588,28589,28867,28868,27459-27464-E
E-TMDL	Transferred Municipal Departing Load	27465,28869,28870, 25883,28961,28594,28608,25887,25888,25889,25890,25891-E
NEM	Net Energy Metering Service.....	33464-33473 ,32766, 33474-33479 ,30788,32768, 33480,33481 -E (T)
NEMFC	Net Energy Metering Service For Fuel Cell Customer-Generators.....	32440-32448-E
NEMBIO	Net Energy Metering Service for Biogas Customer-Generators	27253-27255, 26140,27256,26142,27257,26144,27258-E
NEMCCSF	Net Energy Metering Service for City and County of San Francisco	28176,28177, 28178,28179-E
NEMV	Virtual Net Metering for a Multi-Tenant or Multi-Meter Property Served at the Same Service Delivery Point.....	31546-31568-E
NEMVMASH	Net Energy Metering – Virtual Net Energy Metering	30514–30522,30731-30736-E
E-ERA	Energy Rate Adjustments.....	33360-33363-E
RES-BCT	Schedule for Local Government Renewable Energy Self-Generation Bill Credit Transfer.....	30752,30753,29208,32216-32219,29213,32220-E
E-OBF	On-Bill Financing Balance Account (OBFA)	29490-29492-E
E-SOP	Residential Electric SmartMeter TM Opt-Out Program	31330, 31454-E

(Continued)

Advice Letter No: 4305-E-A
 Decision No. SB 594 and E-4610

Issued by
Brian K. Cherry
 Vice President
 Regulatory Relations

Date Filed January 16, 2014
 Effective _____
 Resolution No. _____



ELECTRIC TABLE OF CONTENTS
SAMPLE FORMS

Sheet 28

FORM	TITLE OF SHEET	CAL P.U.C. SHEET NO.
Sample Forms		
Net Energy Metering		
79-854	Interconnection Agreement for Net Energy Metering for Residential and Small Commercial Solar or Wind Electric Generating Facilities of 10 kW or Less.....	22694-E
79-978	Interconnection Agreement for Net Energy Metering of Solar or Wind Electric Generating Facilities 1,000 Kilowatts or less, other than Residential or Small Commercial Facilities of 10 kW or Less.....	32039-E*
79-994	Interconnection Application for Net Energy Metering (E-NET) for Residential or Small Commercial Customers with Solar or Wind Generating Facilities of 10 Kilowatts or Less.....	25580-E
79-997	Interconnection Agreement for Net Energy Metering of Biogas Digester Generating Facilities.....	32121-E
79-998	Expanded Net Energy Metering (E-Net) Supplemental Application.....	32122-E
79-999	Agreement for Limited Optional Remote Metering Service.....	32123-E
79-1010	Interconnection Agreement for Net Energy Metering of Fuel Cell Generating Facilities.....	32449-E
79-1069	Generating Facility Interconnection Agreement (Eligible/Non-Eligible Net Generating Facility Export).....	32450-E
79-1151A	Agreement and Customer Authorization – Net Energy Metering Interconnection For Solar And/Or Wind Electric Generating Facilities Of 30 Kilowatts Or Less.....	32770-E
79-1151B	Application – Net Energy Metering Interconnection For Solar And/Or Wind Electric Generating Facilities Of 30 Kilowatts Or Less.....	32771-E
79-1109	Net Energy Metering Application and Interconnection Agreement for the Building Owner of a Multifamily Affordable Solar Housing Facility with a Solar Generating Facility of 1 Megawatt or Less.....	32045-E*
79-1112	Local Government Application for an Arrangement to Take Service on Rate Schedule RES-BCT With Interconnection Eligible Renewable Generation of Not More Than 5 Megawatt.....	32221-E
79-1114	NEM 2010 Early True-up Request Form.....	28929-E
79-1124	Eligible Low Income Development Virtual Net Energy Metering Application and Interconnection Agreement for Multi-Family Affordable Housing with Solar Generation Totaling 1 Megawatt or Less.....	32046-E*
79-1125	NEM / NEMVMASH Inspection Report.....	32047-E*
79-1130	Customer Request Form not to Receive Net Surplus Compensation.....	30639-E
79-1131	NEMV Application and Interconnection Agreement for an Eligible Generating Facility of 1MW or Less Serving Multiple Tenants.....	32048-E*
79-1137	Interconnection Agreement for Net Metering for a Renewable Electrical Generation Facility of 1,000 Kilowatts or Less.....	32049-E*
79-1142	NEMV Interconnection Application for a Renewable Electrical Generation Facility of 1 Megawatt or Less.....	32050-E*
79-1153	NEM Load Aggregation Appendix.....	33482-E (N)

(Continued)

Advice Letter No: 4305-E-A
 Decision No. SB 594 and E-4610

Issued by
Brian K. Cherry
 Vice President
 Regulatory Relations

Date Filed January 16, 2014
 Effective _____
 Resolution No. _____

Advice 4305-E-A
January 16, 2014

ATTACHMENT 2
Energy Division Letter

PUBLIC UTILITIES COMMISSION

505 VAN NESS AVENUE
SAN FRANCISCO, CA 94102-3298



Date: December 16, 2013

From: Gabe Petlin, CPUC Energy Division

To: Susan Buller, PG&E; Erin Pulgar, SCE; and Jamie York, SDG&E

Energy Division Requested Changes to PG&E Advice 4305-E, SCE Advice 2952-E, and SDG&E Advice 2529-E

The Energy Division requests the IOUs make the following changes to the above mentioned advice letters via supplemental filings. We would like to review draft supplemental advice letters and tariffs before they are served on parties. When served on parties the protest period should be re-opened for 5 days. Unless noted each request is directed at all three IOUs for consistency. We request to receive review drafts within 10 business days or sooner of this letter.

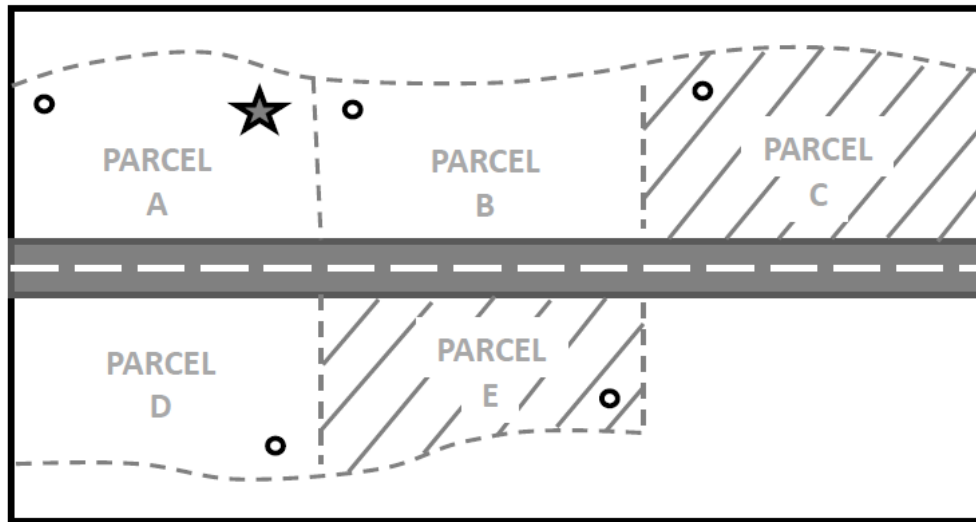
8 Parties filed protests on the Advice Letters: SEIA, SolarCity, IREC, City of San Diego, California Farm Bureau Federation, Agricultural Energy Consumers Association, Natel Energy, and Recolte Energy.

- 1) ***Adjacent and Contiguous*** – The IOUs’ interpretation of adjacent and contiguous is overly narrow. The Energy Division requests the following clarifying language be added:

Customer-generators with multiple contiguous properties are eligible to participate in NEM load aggregation without regard to where meters are located relative to the NEM generator, so long as all meters are within an unbroken chain of parcels under the same ownership, or lease that are contiguous to each other. Parcels that are divided by a street, highway, or public thoroughfare are considered contiguous, provided they are within an unbroken chain of otherwise contiguous parcels and under the same ownership or lease.

For example, if there are three parcels, A, B and C, where A abuts B, B abuts C, but A and C are separated by B, then the loads of all three parcels shall be eligible for aggregation. In addition, if there are five parcels, A, B, C, D, and E that form a cluster of contiguous parcels and D and E are separated from A, B and C by a street, highway, or public thoroughfare all five parcels are considered contiguous, provided they are otherwise contiguous and under the same ownership or lease.

The IOUs should include a visual example to illustrate the above additional language. The following diagram from PG&E should be modified to show that **all 5 parcels are eligible**.



- ★ = RENEWABLE ELECTRICAL GENERATION FACILITY
- = METER
- (dashed) = ELIGIBLE
- ▨ (diagonal lines) = INELIGIBLE

- 2) **Bill Credit Allocation Method** – The method proposed by the IOUs could result in less than 100% of the kWh generated by the generator account being allocated to benefiting accounts. To ensure that all of the kWh from the generating account are allocated to the benefiting accounts the IOUs have agreed to add the following language at the request of the Energy Division:

The monthly allocation percentage of kWh will be based on the cumulative usage at each aggregated account and the cumulative generation from the generating account from the start of the Relevant Period.

Including a few sample illustrations would be very helpful.

- 3) **The IOUs' Proposed Billing Service Fees** – The Energy Division requests the following changes to the billing service fees:

- One-time set-up fees may be no higher than \$25 per benefiting account and shall be capped at \$500 per aggregation arrangement.
- Monthly billing fees may be no higher than \$5 per benefiting account.
- The IOUs may request authorization to establish memorandum accounts to track billing costs in excess of the current NEM program costs for one year from the effective date of the tariffs, and the IOUs may file advice letters in one year after the effective date with a proposed final billing service fee structure to be implemented on a going forward basis.

Should the fee structure change existing customers shall not be retroactively charged or debited.

- 4) **Effective date of PG&E Advice Letter** – PG&E proposed an effective date of 120 days after the date of filing their advice letter. Both SCE and SDG&E proposed an effective date 30 days from their original date of filing. The Energy Division requests that all three IOUs make their tariffs effective upon approval by the Energy Division.
- 5) **Clarification with Respect to the Permanent Prohibition on Net Surplus Compensation (NSC) for Aggregated Facilities.** With regard to the NSC issue raised by SEIA (SB 594 states that customer generators enrolled under NEM aggregation will be *permanently* ineligible for NSC), all of the utilities agreed that a customer generator will be prohibited from NSC *only* while under the NEM aggregation tariff. In other words, if a customer generator was enrolled in NEM aggregation at one point in time, and then later chose to take service under the regular NEM tariff, they would once again be eligible for NSC. The Energy Division requests the IOUs make the appropriate clarification in their tariffs on this issue.
- 6) **The Prohibited Combination of a Non-NEM Eligible Generator with a NEM Aggregation Arrangement** – SCE has agreed to remove this prohibition in response to the protest of SEIA and SCE has indicated it is agreeable to modifying this provision to allow aggregated accounts to have non-NEM eligible generating facilities directly interconnected to them. The Energy Division requests that all three IOUs make such a modification.
- 7) **Consistent Use of the Terms “Property” and “Parcel”.** The Energy Division requests that the tariffs be modified to be consistent with the legislation SB 594 which uses the terms “property” and “parcel”. Therefore the term “premise” should be struck from the tariffs.

Utility Specific Requested Changes:

- 8) **SCE Form 14-397.** The Energy Division requests that the language “as determined by SCE” be replaced with “as verified in Form14-937.”

Issues that can be Addressed Outside of the Advice Letters:

- 9) **Consistent and Detailed Tracking of NEM-Related Interconnection Costs -** Commission Resolution E-4610 directs the IOUs to begin to track interconnection costs associated with all NEM systems. Energy Division will follow-up on this directly with the IOUs and not as part of this advice letter review process.
- 10) **CSI Incentives** – SEIA requests that the IOUs’ NEM tariffs be clarified with respect to the treatment of CSI incentives for NEM Aggregation customers with multiple CSI Applications. The Energy Division has directed the CSI program administrators to address this issue it will be handled outside of this advice letter review process.

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

1st Light Energy	Douglass & Liddell	OnGrid Solar
AT&T	Downey & Brand	Pacific Gas and Electric Company
Alcantar & Kahl LLP	Ellison Schneider & Harris LLP	Praxair
Anderson & Poole	G. A. Krause & Assoc.	Regulatory & Cogeneration Service, Inc.
BART	GenOn Energy Inc.	SCD Energy Solutions
Barkovich & Yap, Inc.	GenOn Energy, Inc.	SCE
Bartle Wells Associates	Goodin, MacBride, Squeri, Schlotz & Ritchie	SDG&E and SoCalGas
Braun Blasing McLaughlin, P.C.	Green Power Institute	SPURR
CENERGY POWER	Hanna & Morton	San Francisco Public Utilities Commission
California Cotton Ginners & Growers Assn	In House Energy	Seattle City Light
California Energy Commission	International Power Technology	Sempra Utilities
California Public Utilities Commission	Intestate Gas Services, Inc.	SoCalGas
California State Association of Counties	K&L Gates LLP	Southern California Edison Company
Calpine	Kelly Group	Spark Energy
Casner, Steve	Linde	Sun Light & Power
Center for Biological Diversity	Los Angeles Dept of Water & Power	Sunshine Design
City of Palo Alto	MRW & Associates	Tecogen, Inc.
City of San Jose	Manatt Phelps Phillips	Tiger Natural Gas, Inc.
Clean Power	Marin Energy Authority	TransCanada
Coast Economic Consulting	McKenna Long & Aldridge LLP	Utility Cost Management
Commercial Energy	McKenzie & Associates	Utility Power Solutions
County of Tehama - Department of Public Works	Modesto Irrigation District	Utility Specialists
Crossborder Energy	Morgan Stanley	Verizon
Davis Wright Tremaine LLP	NLine Energy, Inc.	Water and Energy Consulting
Day Carter Murphy	NRG Solar	Wellhead Electric Company
Defense Energy Support Center	Nexant, Inc.	Western Manufactured Housing Communities Association (WMA)
Dept of General Services	North America Power Partners	
Division of Ratepayer Advocates	Occidental Energy Marketing, Inc.	