

PUBLIC UTILITIES COMMISSION

505 VAN NESS AVENUE
SAN FRANCISCO, CA 94102-3298



September 17, 2008

Advice Letter 3224-E

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

Subject: Implementation of CPUC Decision (D.) 08-02-002 Order
Addressing Pacific Gas and Electric Company's Community
Choice Aggregation Net Energy Metering Service Option

Dear Mr. Cherry:

Advice Letter 3224-E is effective April 4, 2008.

Sincerely,

A handwritten signature in black ink, appearing to read "Ken Lewis".

Kenneth Lewis, Acting Director
Energy Division



Brian K. Cherry
Vice President
Regulatory Relations

Pacific Gas and Electric Company
77 Beale St., Mail Code B10C
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San Francisco, CA 94177

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March 5, 2008

Advice 3224-E

(Pacific Gas and Electric Company ID U 39 E)

Public Utilities Commission of the State of California

Subject: Implementation of CPUC Decision (D.) 08-02-002 Order Addressing Pacific Gas and Electric Company's Community Choice Aggregation Net Energy Metering Service Option

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

Purpose

In compliance with Commission Decision (D.) 08-02-002, PG&E submits the following tariff revisions to implement Net Energy Metering for customer-generation consistent with net energy metering service to PG&E bundled service customer-generators:

- a) Rate Schedule NEM - *Net Energy Metering Service* [for solar and wind customer-generators]
- b) Rate Schedule NEMFC – *Net Energy Metering Service for Fuel Cell Customer-Generators*
- c) Rate Schedule NEMBIO – *Net Energy Metering Service for Biogas Customer-Generator*
- d) PG&E Form 79-974 – *Generating Facility Interconnection Application*
- e) PG&E Form 79-978 – *Interconnection Agreement for Net Energy Metering of Solar or Wind Electric Generation Facilities of 1,000 Kilowatts or Less, Other Than Facilities of 30 Kilowatts or Less*
- f) PG&E Form 79-1101 – *Application and Interconnection Agreement for Customers with Solar and/or Wind Electric Generating Facilities of 30 Kilowatts or Less*

Background

PG&E currently offers net energy metering to customers that have installed solar, wind power, biogas fueled and fuel cell electrical generation systems of up to 1 MW. These “customer-generators” receive credit for the electricity produced by their respective distributed generation systems netted with the electricity they consume. For solar generators up to 1 MW and wind generators up to 50 kW, the credit provided by the utility for customer-generators equals the bundled retail price of energy (kWh). “Bundled” service includes transmission, distribution and all other energy-related charges of the customer-generator’s otherwise applicable schedule. Biogas fueled, and fuel cell generators up to 1 MW, and wind 50 kW up to 1 MW receive only the generation component of the rate as a credit. Also included are customer-generators who have installed at a single metered location, multiple generators that if installed individually would not all be eligible for the same rate treatment (for example, a facility with a solar and a fuel cell generator).

Community Choice Aggregators (CCAs) are agencies of local governments authorized, pursuant to Assembly Bill (AB) 117, to aggregate electrical loads in their jurisdictions and sell power to local customers who would otherwise have been served by the utility. A CCA’s customers continue to pay their bills through the utility-provided billing service, but the utility passes through to the CCA the customer’s payment for the generation portion of the bill. The utility continues to provide the CCA’s customers with transmission, distribution, and metering services.

The Commission addressed Community Choice Aggregation service (CCA service) in Rulemaking (R.) 04-03-017 [now R.06-03-004]. Subsequently, Commission Resolution 4013-E adopted the utilities’ CCA Service tariffs but did not resolve issues concerning net energy metering service to CCAs’ customers. Resolution 4013-E stated, “Service under rate schedule NEM shall not be permitted in combination with CCA service until such time as the Commission establishes the terms and conditions applicable to a CCA and its customers participating in Net Energy Metering service.”

On August 30, 2007, the assigned Administrative Law Judge (ALJ) in this proceeding issued a ruling proposing a way to offer net energy metering services to a CCA’s customers. Various parties filed comments on that proposal. On February 15, 2008 the ALJ in D.08-02-002, adopted terms and conditions for CCA Net Energy Metering service. Specifically, it ordered:

1. “PG&E...shall within 20 days of the effective date of this order, submit tariff changes to implement “Net Energy Metering” ... for customer-generators that are served by Community Choice Aggregators (CCA) consistent with NEM service to utility customer-generators and consistent with CCA rules as described in Rule 23 for ... PG&E

2. Biogas, and fuel cell, generators with a capacity up to 1 megawatt (MW) shall receive a credit for only the generation component of the rate consistent with the utilities' NEM service to bundled service customer-generators. The CCA is responsible for providing the CCA customer-generator with the applicable generation-related bill credit.

3. Wind generators with a capacity up to 50 kW shall receive a transmission and distribution credit from the utility and a generation credit from the CCA, and wind generators with a capacity of more than 50 kW, up to 1 MW, shall receive a credit for only the generation component of the rate from the CCA.

4. The CCA will be responsible for providing billing information regarding the applicable generation-related bill charges or credits for each CCA customer-generator to the utility on a timely basis. [PG&E] will be responsible for providing an eligible CCA customer-generator with transmission and distribution charges or credits.”

Tariff Revisions

1. Pursuant to ordering paragraphs 1, 2, 3 and 4 on rate Schedules **NEM** - *Net Energy Metering Service* [for solar and wind customer-generators], **NEMBIO** – *Net Energy Metering Service for Biogas Customer-Generator*, and **NEMFC** – *Net Energy Metering Service for Fuel Cell Customer-Generators*, PG&E included the following additions or changes:

- Included in the applicability statement of the three rate Schedules and clarified throughout the treatment of CCA customer-generators to be consistent with NEM service to PG&E bundled service customer-generators, except that the CCA, not PG&E, is responsible for providing any generation rate component credits.
- Included the requirement that Multiple Tariff Facilities, served under Community Choice Aggregation service (CCA service), may only participate to the extent their CCA offers net metering for the specific constituent generator group(s).
- While not included in the ordering paragraphs, language related to the schedule E-EPS has been removed from the NEM, NEMBIO and NEMFC tariffs, as this schedule is no longer available and since the price in the customer's OAS has long been in use for purposes of billing under NEM (full retail price), NEMBIO (OAS generation price) and NEMFC (OAS generation price)..
- Added language to the three rate Schedules clarifying billing requirements and responsibilities for Energy Service Providers, CCAs, direct access (DA) customer-generators, and CCA service customer-

generators.

- Pursuant to ordering paragraph 3, the CCA service wind energy co-metering section for wind generators greater than 50 kW, Special Condition 5 of the NEM tariff was modified. Accordingly, the generation of electricity provided to PG&E's grid by a CCA customer-generator or supplied to the CCA customer-generator shall result in a credit or charge, respectively, in accordance with the generation rate component of the eligible customer-generator specified by the CCA's tariffs, as applicable and PG&E's CCA service tariffs, and the OAS the customer-generator selected.
2. Pursuant to ordering paragraph 2 and 4, changes unique to schedule **NEMBIO** – *Net Energy Metering Service for Biogas Customer-Generator* tariff include following:
- If a dairy operation has more than one Eligible Service Account, all such service accounts must be under the same ownership and Biogas fueled customer-generator name, and be served by the same electric commodity service provider, as the account serving the Eligible Biogas Digester Electrical Generating Facility.
 - Public Utilities Code 2827.8 section b(2)(B) permits “up to three large biogas digester electrical generating facilities with a generating capacity of more than one megawatt and not more than 10 megawatts, otherwise meeting the criteria of this section, [to] be eligible for participation in the [NEMBIO] pilot program.” In D.08-02-002, ordering paragraph 2, it only mentions, “Biogas ... generators with a capacity up to 1 megawatt (MW),...”. However ordering paragraph 2 also states PG&E should make CCA service with NEMBIO “...consistent with the utilities' NEM service to bundled service customer-generators.” Therefore, PG&E is assuming that for a customer-generator on CCA service and NEMBIO the intent is they could also interconnect a facility up to 10 MW, if there were not already three such large NEMBIO facilities interconnected by the state's three independently owned utilities.

3. PG&E Forms

Form 79-974, 79-978 and 79-1101 are modified to allow the NEM applicant to indicate they are taking service with a CCA. Some existing billing language is removed where it occurs, and instead customer-generators are referred to the explanation in the NEM tariff sheets and their selected OAS tariff sheets.

- **79-974** – *Generating Facility Interconnection Application,*
- **79-978** – *Interconnection Agreement for Net Energy Metering of Solar or Wind Electric Generation Facilities of 1,000 Kilowatts or Less, Other Than Facilities of 30 Kilowatts or Less, and*
- **79-1101** – *Application and Interconnection Agreement for Customers with Solar and/or Wind Electric Generating Facilities of 30 Kilowatts or Less*

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 **March 25, 2008**, 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: jjn@cpuc.ca.gov and mas@cpuc.ca.gov

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

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

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

Effective Date

PG&E requests that this advice filing become effective on regular notice, **April 4, 2008**, 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 on the service lists for R. 03-10-003 and R. 06-03-004. Address changes to the General Order 96-B service list should be directed to Rose de la Torre at (415) 973-4716. Advice letter filings can also be accessed electronically at: **<http://www.pge.com/tariffs>**

A handwritten signature in black ink that reads "Brian H. Cheng / dc". The signature is written in a cursive style.

Vice President, Regulatory Relations

Attachments

cc: Service List R. 03-10-003
Service List R. 06-03-004

CALIFORNIA PUBLIC UTILITIES COMMISSION

ADVICE LETTER FILING SUMMARY ENERGY UTILITY

MUST BE COMPLETED BY UTILITY (Attach additional pages as needed)

Company name/CPUC Utility No. **Pacific Gas and Electric Company (ID U39 M)**

Utility type:

ELC GAS
 PLC HEAT WATER

Contact Person: Daren Chan

Phone #: (415) 973-5361

E-mail: d1ct@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) #: **3224-E**

Tier: 2

Subject of AL: Implementation of CPUC Decision (D.) 08-02-002 Order Addressing Pacific Gas and Electric Company's Community Choice Aggregation Net Energy Metering Service Option

Keywords (choose from CPUC listing): compliance, forms, tariff revisions

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

If AL filed in compliance with a Commission order, indicate relevant Decision/Resolution #: D.08-02-002

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 AL¹: _____

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

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

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

Resolution Required? Yes No

Requested effective date: **April 4, 2008**

No. of tariff sheets: 32

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: Schedule NEM, NEMFC, NEMBIO; Form 79-974, Form 79-978, Form 79-1101

Service affected and changes proposed¹: N/A

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

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

CPUC, Energy Division

Tariff Files, Room 4005

DMS Branch

505 Van Ness Ave.,

San Francisco, CA 94102

jnj@cpuc.ca.gov and mas@cpuc.ca.gov

Pacific Gas and Electric Company

Attn: Brian 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 3224-E**

Cal P.U.C. Sheet No.	Title of Sheet	Cancelling Cal P.U.C. Sheet No.
27236-E	Schedule NEM--Net Energy Metering Service	26524-E
27237-E	Schedule NEM (Cont.)	26526-E
27238-E	Schedule NEM (Cont.)	New
27239-E	Schedule NEM (Cont.)	26122-E
27240-E	Schedule NEM (Cont.)	26123-E
27241-E	Schedule NEM (Cont.)	New
27242-E	Schedule NEM (Cont.)	26124-E
27243-E	Schedule NEM (Cont.)	New
27244-E	Schedule NEM (Cont.)	26126-E
27245-E	Schedule NEM (Cont.)	New
27246-E	Schedule NEM (Cont.)	26127-E
27247-E	Schedule NEM (Cont.)	26130-E
27248-E	Schedule NEMFC--Net Energy Metering Service For Fuel Cell Customer-Generators	26131-E
27249-E	Schedule NEMFC (Cont.)	New
27250-E	Schedule NEMFC (Cont.)	26132-E
27251-E	Schedule NEMFC (Cont.)	26133-E
27252-E	Schedule NEMFC (Cont.)	26137-E
27253-E	Schedule NEMBIO--Net Energy Metering Service for Biogas Customer-Generators	26138-E
27254-E	Schedule NEMBIO (Cont.)	New
27255-E	Schedule NEMBIO (Cont.)	26139-E
27256-E	Schedule NEMBIO (Cont.)	26141-E
27257-E	Schedule NEMBIO (Cont.)	26143-E
27258-E	Schedule NEMBIO (Cont.)	26145-E
27259-E	Sample Form 79-974--Generating Facility Interconnection Application	26479-E

**ATTACHMENT 1
Advice 3224-E**

Cal P.U.C. Sheet No.	Title of Sheet	Cancelling Cal P.U.C. Sheet No.
27260-E	Sample Form 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 30 kW or less	26433-E
27261-E	Sample Form 79-1101--Net Energy Metering Application and Interconnection Agreement for Customers with Solar and/or Wind Electric Generating Facilities of 30 Kilowatts or Less	26434*-E
27262-E	Table of Contents -- Rate Schedules	26689-E
27263-E	Table of Contents -- Sample Forms	26541-E
27264-E	Table of Contents -- Sample Forms	26542-E
27267-E	Table of Contents -- Sample Forms	New
27265-E	Table of Contents -- Sample Forms	26543-E
27266-E	Table of Contents -- Title Page	27060-E



SCHEDULE NEM—NET ENERGY METERING SERVICE

APPLICABILITY: This net energy-metering schedule is applicable to a customer who uses a solar or wind turbine electrical generating facility, or a hybrid system of both, 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"). Certain incremental billing and metering costs set forth in this schedule that are related to net energy metering are applicable to Energy Service Providers (ESPs) serving eligible customer-generators.

This service is not applicable to a Direct Access (DA) or Community Choice Aggregation Service (CCA Service) customer where the customer's ESP or Community Choice Aggregator (CCA) does not offer a net energy metering tariff. 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. (T)
 |
 (T)

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 such time as the total rated generating capacity used by eligible customer-generators exceeds two and one-half (2.5) percent of PG&E's aggregate customer peak demand.

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.

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 6 for the schedule NEM-eligible generator, and must also meet any other applicable tariffs.

Due to the complexity of Multiple Tariff Facilities NEM generating facilities interconnecting under the provisions of Special Condition 6 may require additional review and/or interconnection facilities and other equipment, and may incur interconnection costs, as provided for in electric Rule 21.

(Continued)



SCHEDULE NEM—NET ENERGY METERING SERVICE
 (Continued)

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 CCA, as applicable, will be based on the net metered usage in accordance with Billing (Special Condition 2, below). (T)

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. (N)
 |
 |
 (N)

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 6, 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 6, 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. (T)

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 6. This ensures that all NEM accounts have the same Relevant Period, as defined in Special Condition 2, going forward. (L)

(Continued)



SCHEDULE NEM—NET ENERGY METERING SERVICE
 (Continued)

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, the combined total of which is not more than 30 kW.
2. NEMEXP – For Small Customer (as defined in Rule 1) customer-generators with solar generating facilities and/or wind generating facilities 50 kW or less, the combined total of which is greater than 30 kW.
3. NEMEXPM – For all other commercial, industrial customer-generators, and agricultural customers billed monthly under Special Condition 2 with solar generating facilities and/or wind generating facilities 50 kW or less, the combined total of which is greater than 30 kW.
4. NEMW – For customer-generators with only wind generating facilities greater than 50 kW billed monthly under Special Condition 5 of this tariff.
5. NEMMT – For customer-generators taking service as a Multiple Tariff Facility under Special Condition 6 of this tariff.

(L)

(Continued)



SCHEDULE NEM—NET ENERGY METERING
 (Continued)

SPECIAL
 CONDITIONS:

1. METERING: Eligible Wind Energy Co-Metering customer-generators, see Special Condition 5. Multiple Tariff Facilities will be metered under one of the options described in Special Condition 6. 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 solar or wind, or a hybrid system of both, 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.

(L)

(Continued)



SCHEDULE NEM—NET ENERGY METERING SERVICE
 (Continued)

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 d below, unless otherwise provided for in the OAS.

(T)

d. Payment Options:

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.

e. Relevant Period:

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.

(T)
 (T)

(Continued)



SCHEDULE NEM—NET ENERGY METERING SERVICE
 (Continued)

SPECIAL
 CONDITIONS:
 (Cont'd.)

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

f. Energy True Up:

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. 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. (T)

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. (N)

In the event the energy (kWh) generated exceeds the energy (kWh) consumed during the Relevant Period, based on the eligible customer-generator's OAS as set forth below, no payment shall be made for the excess energy (kWh) delivered to PG&E's grid. 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. (T)

For an 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. (N)

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)

(Continued)



SCHEDULE NEM—NET ENERGY METERING SERVICE
 (Continued)

SPECIAL
 CONDITIONS:
 (Cont'd.)

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

g. Billing Information:

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.

h. Energy Service Providers (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 follows:

Metering services: \$104 Metering Service Base charge, plus \$73/hour for on-site work, plus materials.

Billing: \$85/hour plus materials.

(Continued)



SCHEDULE NEM—NET ENERGY METERING SERVICE
 (Continued)

SPECIAL
 CONDITIONS:
 (Cont'd.)

3. INTERCONNECTION: (Cont'd.)
 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.

4. EXEMPTIONS FROM CERTAIN CHARGES: Per Section 2728.7 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.

(L)

(Continued)



SCHEDULE NEM—NET ENERGY METERING SERVICE
 (Continued)

SPECIAL
 CONDITIONS:
 (Cont'd.)

6. MULTIPLE TARIFF FACILITIES: (L)

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 F.
- 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 schedules NEM, NEMBIO or NEMFC, but interconnects under the 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 tariff NEMBIOA (accounts with the loads from eligible accounts aggregated on the main NEMBIO account pursuant to Special Condition 4 of the NEMBIO tariff) will be treated as a separate Constituent Generator Group.

(Continued)



SCHEDULE NEM—NET ENERGY METERING SERVICE
 (Continued)

SPECIAL
 CONDITIONS:
 (Cont'd.)

- 6. MULTIPLE TARIFF FACILITIES (Cont'd):
 - g. Multiple Tariff Facility Configurations and Metering. (Cont'd)
 - 2) For both, NEM-Eligible 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 6(f) and 6(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 6(f) and 6(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 6(f) and 6(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). (N)
 |
 (N)

(Continued)



SCHEDULE NEMFC—NET ENERGY METERING SERVICE FOR FUEL CELL CUSTOMER-GENERATORS

APPLICABILITY: This schedule is applicable to Bundled Service and Community Choice Aggregation Service (CCA Service) Customers who are served under a Time-of-Use (TOU) rate schedule, and who (1) interconnect and operate in parallel with PG&E's electrical system an Eligible Fuel Cell Electrical Generating Facility, as defined below, with a generating capacity no greater than 1,000 kW, located on or adjacent to the customers' owned, leased or rented premises, (2) is interconnected and operates in parallel with PG&E grid while the grid is operational, and is sized to offset part or all of the Customers' electrical requirements, (3) are the recipient of local, state, or federal funds, or who self-finance projects designed to encourage the development of Eligible Fuel Cell Electrical Generating Facilities, and (4) use technology that meets the definition of an "ultra-clean and low-emission distributed generation," pursuant to California Public Utilities Code Section 353.2 (PU Code Section 353.2). Such a customer will be referred to hereafter as a "Fuel Cell Customer-Generator." Customers eligible for service under this schedule are exempt from any new or additional charges not included in their Otherwise Applicable Schedule (OAS). (T)
 (T)

This service is not applicable to a CCA Service Fuel-Cell Customer-Generator where the customer's Community Choice Aggregator (CCA) does not offer a fuel cell net energy metering tariff. In addition, if an eligible Fuel Cell Customer-Generator participates in direct transactions with a CCA that does not provide distribution service for the direct transactions, the CCA, and not PG&E, is obligated to provide net energy metering to the customer. (N)
 |
 |
 |
 (N)

The Eligible Fuel Cell Generating Facility is defined as a generating facility that meets all applicable safety and performance standards in accordance with PG&E's Electric Rule 21 and pursuant to PU Code Section 2827.10 includes 1) an integrated powerplant systems containing a stack, tubular array, or other functionally similar configuration used to electrochemically convert fuel to electric energy; 2) an inverter and fuel processing system where necessary, and 3) other plant equipment, including heat recovery equipment necessary to support the plant's operation or its energy conversion.

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. (L)

(Continued)



SCHEDULE NEMFC—NET ENERGY METERING SERVICE FOR FUEL CELL CUSTOMER-GENERATORS
 (Continued)

APPLICABILITY:
 (Cont'd.)

(L)

Pursuant to PU Code Section 2827.10, this schedule is available on a first-come, first-serve basis and will be closed to new customers once 45 MW of cumulative rated generating capacity is served under this schedule.

Customers seeking preference for eligibility under this rate shall file an application with the CPUC to establish that their facilities are located in a community with significant exposure to air contaminants, or localized air contaminants, or both, including but not limited to communities of minority populations or low-income populations, or both, based on the ambient air quality standards established pursuant to Section 39607 of the Health and Safety Code. The CPUC shall determine how such preference shall be implemented. In no event shall such an application, if granted, cause the cumulative rated generating capacity served by PG&E under this schedule to exceed 45 MW.

A fuel cell electrical generating facility shall not be eligible for participation in the NEMFC tariff unless it commenced operation before **January 1, 2010**. A fuel cell customer-generator shall be eligible for the tariff established herein only for the operating life of the Eligible Fuel Cell Electrical Generating Facility.

Schedule NEMFC 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 NEMFC eligible generator, and must also meet any other applicable tariffs.

(Continued)



SCHEDULE NEMFC—NET ENERGY METERING SERVICE FOR FUEL CELL CUSTOMER-GENERATORS

APPLICABILITY: (cont'd) Due to the complexity of Multiple Tariff Facilities, NEMFC generating facilities interconnecting under the provisions of Special Condition 5 may require additional review and/or interconnection facilities and other equipment, and may incur interconnection costs, as provided for in electric Rule 21.

TERRITORY: The entire territory served.

RATES: Only the Generation Rate Component of the energy charge (kWh) of the Fuel Cell Customer-Generator's OAS ("Generation Rate Component") shall be used in the calculation of credits when the Fuel Cell Customer-Generator is a net energy producer, on a monthly basis, for any TOU period. Only the Generation Rate Component of the Fuel Cell Customer-Generator's OAS shall be used to calculate the charge for generation when the Fuel Cell Customer-Generator is a Net Energy consumer on a monthly basis, for any TOU period. If the Fuel Cell Customer-Generator is being served under CCA service, the applicable monthly bill charges or credits related to the Generation Rate Component will be specified by their CCA in accordance with the eligible Biogas Customer-Generator's OAS and PG&E's Community Choice Aggregation tariffs. All other charges, including but not limited to, Transmission Charges, Distribution Charges, Monthly Customer Charges, Minimum Charges, Demand Charges, and non-energy related charges, shall be calculated according to the Fuel Cell Customer-Generator's OAS for all energy supplied by PG&E prior to the netting of energy charges and credits. (T)

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 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.

Customers-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.

SUB-SCHEDULE: Eligible Customer-Generators will be placed on Rate Schedule NEMFC, unless they are applying for service under the provisions of the following sub-schedule:

NEMMT – For customer-generators taking service as a Multiple Tariff Facility under Special Condition 5 of this tariff

(Continued)



SCHEDULE NEMFC—NET ENERGY METERING SERVICE FOR FUEL CELL CUSTOMER-GENERATORS
 (Continued)

SPECIAL
 CONDITIONS:

1. METERING:

- a. Fuel cell Net Energy metering shall be accomplished using a TOU meter capable of separately registering the flow of electricity in two directions. If the Fuel Cell Customer-Generator's existing meter is not capable of separately measuring the flow of electricity in two directions, the Fuel Cell Customer-Generator shall be responsible for all expenses involved in purchasing and installing a meter that is able to separately measure electricity flow in two directions. If dual metering is installed, the Net Energy metering calculation shall yield a result identical to that of a single meter capable of separately measuring the flow of electricity in two directions.
- b. If none of the normal metering options at PG&E's disposal that are necessary to render accurate billing are acceptable to the Fuel Cell Customer-Generator, PG&E shall have the right to refuse service under this rate schedule.
- c. Multiple Tariff Facilities will be metered under one of the options described in Special Condition 5.

2. BILLING: Fuel Cell Customer-Generator will be billed monthly for all charges other than Generation Rate Component. With each monthly billing statement, PG&E shall provide the Fuel Cell Customer-Generator with information regarding energy (kWh) consumption and energy (kWh) exports.

At the end of each Relevant Period, PG&E or CCA, as applicable, shall perform a Reconciliation. 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 NEMFC, and on every subsequent anniversary thereof. If an eligible customer-generator terminates service, or experiences a change in electric commodity service provider, 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. (T)

For a CCA Service Fuel Cell 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. (N)
 |
 (N)

The Reconciliation shall be performed as follows:

NEMFC customer-generators will receive a bill that totals 1) all Generation Rate Component charges for the Relevant Period; 2) all Eligible Generation Credits for the Relevant Period; and 3) all other charges, due in that billing cycle of the Relevant Period.

The "Eligible Generation Credit" equals the lesser of 1) all monthly Generation Rate Component charges for the Relevant Period; or 2) the absolute value of all monthly Eligible Generation Credit for the Relevant Period. Any excess credit that exceeds the Eligible Generation Credit will be retained by PG&E, or CCA, as applicable, and the customer will not be owed any compensation for this excess. (T)
 (T)

(Continued)



SCHEDULE NEMFC—NET ENERGY METERING SERVICE FOR FUEL CELL CUSTOMER-GENERATORS
 (Continued)

SPECIAL
 CONDITIONS:
 (Cont'd.)

- 5. MULTIPLE TARIFF FACILITIES: (Cont'd)
 - g. Multiple Tariff Facility Configurations and Metering (Cont'd)
 - 2) For both, NEM-eligible and non-NEM-eligible Constituent Generator Groups, the Customer-Generator must select one of the following options:
 - a) **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 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.
 - b) **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.
 - c) **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 CCA Service, may only participate to the extent their CCA offers net metering for the specific constituent generator group(s).

(N)
 |
 (N)

(Continued)



SCHEDULE NEMBIO—NET ENERGY METERING SERVICE FOR BIOGAS CUSTOMER-GENERATORS

APPLICABILITY: This schedule is applicable to Bundled Service and Community Choice Aggregation Service (CCA Service) Customers who are served under a Time-of-Use (TOU) rate schedule, and who (1) interconnect and operate in parallel with PG&E's electrical system an Eligible Biogas Digester Electrical Generating Facility, as defined below, with a generating capacity no greater than 1,000 kW, located on or adjacent to the Biogas Customer-Generators' premises intended to offset part or all of the Biogas Customer-Generators' electrical requirements, and (2) are the recipient of local, state, or federal funds, or who self-finance projects designed to encourage the development of Biogas Digester Electrical Generating Facilities (Biogas Customer-Generator). Customers eligible for service under this Schedule are exempt from any new or additional charges not included in their Otherwise Applicable Schedule (OAS). (T)
 (T)

This service is not applicable to a CCA Service Biogas Customer-Generator where the customer's Community Choice Aggregator (CCA) does not offer a biogas net energy metering tariff. In addition, if an eligible Biogas Customer-Generator participates in direct transactions with a CCA that does not provide distribution service for the direct transactions, the CCA, and not PG&E, is obligated to provide net energy metering to the customer. (N)
 |
 |
 |
 (N)

An Eligible Biogas Digester Electrical Facility is defined as a generating facility that meets all applicable safety and performance standards in accordance with PG&E's Electric Rule 21 and pursuant to California Public Utilities Code Section 2827.9 (PU Code Section 2827.9) produces electricity by a manure methane production project or as a byproduct of the anaerobic digestion of bio-solids and animal waste.

Pursuant to PU Code Section 2827.9, this Schedule is available on a first-come, first-serve basis and will be closed to new customers once the combined statewide cumulative rated generating capacity used by the eligible biogas digester customer-generators in the service territories of the three largest electrical corporations in the state reaches 50,000 kW. No Biogas Customer-Generator shall be eligible for participation on NEMBIO that has not commenced operation by December 31, 2009. A biogas digester customer-generator shall be eligible for the tariff established pursuant to this section, only for the operating life of the Biogas Customer-Generator. (L)

(Continued)



SCHEDULE NEMBIO—NET ENERGY METERING SERVICE FOR BIOGAS CUSTOMER-GENERATORS
 (Continued)

APPLICABILITY:
 (Cont'd.)

Notwithstanding the generating capacity limit of up to 1,000 kW, in the service territories of the three largest electrical corporations in the state, up to three large Biogas Customer-Generators, served under either Bundled Service or CCA Service, with a generating capacity of more than 1,000 kW and not more than 10,000 kW, otherwise meeting the criteria above, shall be eligible for NEMBIO.

(T)

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.

As required by PU Code Section 2827.9, no Biogas Customer-Generator that is subject to the best available control technology (BACT) requirements shall be eligible for participation in NEMBIO unless the Biogas Customer-Generator has installed the best available control technology as required by the regional air pollution control district at the time of installation to ensure the maximum feasible reductions in toxic and criteria pollutants.

Schedule NEMBIO 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 6 for the Schedule NEMBIO eligible generator, and must also meet all other applicable tariffs.

Due to the complexity of Multiple Tariff Facilities NEMBIO, generating facilities interconnecting under the provisions of Special Condition 6 may require additional review and/or interconnection facilities and other equipment, and may incur interconnection costs, as provided for in electric Rule 21.

(L)

(Continued)



SCHEDULE NEMBIO—NET ENERGY METERING SERVICE FOR BIOGAS CUSTOMER-GENERATORS

TERRITORY: The entire territory served.

RATES: Only the generation rate component of the energy charge (kWh) of the Biogas Customer-Generator's OAS ("Generation Rate Component") shall be used in the calculation of credits when the Biogas Customer-Generator is a net energy producer, on a monthly basis, for any TOU period. Only the Generation Rate Component of the Biogas Customer-Generator's OAS shall be used to calculate the charge for generation when the Biogas Customer-Generator is a Net Energy consumer on a monthly basis, for any TOU period. If the Biogas Customer-Generator is being served under CCA service, the applicable monthly bill charges or credits related to the Generation Rate Component will be specified by their CCA in accordance with the eligible Biogas Customer-Generator's OAS and PG&E's Community Choice Aggregation tariffs. All other charges, including but not limited to, Transmission Charges, Distribution Charges, Monthly Customer Charges, Minimum Charges, Demand Charges, and non-energy related charges, shall be calculated according to the Customer-Generator's OAS for all energy (kWh) supplied to PG&E's grid prior to the netting of energy charges and credits. (T)

The charges and credits for Multiple Tariff Facilities taking service on this rate schedule under the provisions of Special Condition 6 will be calculated using the 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 6. This ensures that all NEM accounts have the same Relevant Period, as defined in Special Condition 2, going forward.

SUB-SCHEDULES: Eligible Customer-Generators will be placed on Rate Schedule NEMBIO, unless they are applying for service under the provisions of one of the following sub-schedules:

NEMBIOA – For Customer-Generators taking service under the provisions of Special Condition 4—LOAD AGGREGATION

NEMMT – For Customer-Generators taking service as a Multiple Tariff Facility under Special Condition 6 of this tariff

(Continued)



SCHEDULE NEMBIO—NET ENERGY METERING SERVICE FOR BIOGAS CUSTOMER-GENERATORS
 (Continued)

SPECIAL
 CONDITIONS:

2. BILLING: Biogas Customer-Generator will be billed monthly for all charges other than the Generation Rate Component charges on all eligible Aggregated Metered Service Accounts. With each monthly billing statement PG&E shall provide the Biogas Customer-Generator with information regarding energy (kWh) consumption and energy (kWh) exported.

At the end of each Relevant Period, PG&E or CCA, as applicable, shall perform a Reconciliation. 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 NEMBIO, and on every subsequent anniversary thereof. If an eligible customer-generator terminates service, or experiences a change in electric commodity service provider, 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. (T)

For a CCA Service Biogas 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. (N)
 |
 (N)

The Reconciliation shall be performed as follows:

- a. NEMBIO customer-generators will receive a bill that totals 1) all Generation Rate Component charges for the Relevant Period; 2) all Eligible Generation Credits for the Relevant Period; and 3) all other charges due in that billing cycle of the Relevant Period.

The "Eligible Generation Credit" equals the lesser of 1) all monthly Generation Rate Component charges for the Relevant Period, including in the case of a dairy operation the Generation Rate Component charges associated with accounts eligible for Special Condition 4; or 2) the absolute value of all monthly Eligible Generation Credits for the Relevant Period. Any excess credit that exceeds the Eligible Generation Credit for the Relevant Period will be retained by PG&E, or CCA, if applicable, and the customer will not be owed any compensation for this excess. (T)

For non-dairy operations with no Load Aggregation as defined in Special Condition 4, only the account serving the Eligible Biogas Digester Generating Facility is used to determine Generation Rate Component charges.

For dairy operations with Load Aggregation as defined in Special Condition 4, the Generation Rate Component charges for the usage from all the Eligible Service Accounts is used to determine the Eligible Generation Credit.

- b. In the case of Load Aggregation for dairy operations, defined in Special Condition 4, each Eligible Service Account will be billed for Generation Rate Component charges, based on the rate schedule for the particular service account, at the end of the Relevant Period, or sooner if the account closes, experiences a change in electric commodity service provider, or is no longer eligible for Load Aggregation. (T)

(Continued)



SCHEDULE NEMBIO—NET ENERGY METERING SERVICE FOR BIOGAS CUSTOMER-GENERATORS
 (Continued)

SPECIAL
 CONDITIONS:
 (Cont'd.)

4. **LOAD AGGREGATION:** PG&E shall aggregate the load of TOU service accounts of dairy operations that are located on property adjacent, or contiguous, to the Eligible Biogas Digester Electrical Generating Facility including but not limited to accounts associated with the milking operations, milk refrigeration, or water pumping ("Eligible Service Account"). If a dairy operation has more than one Eligible Service Account, all such service accounts must be under the same ownership and Biogas Customer-Generator name, and be served by the same electric commodity service provider, as the account serving the Eligible Biogas Digester Electrical Generating Facility. (T)

5. **STANDBY CHARGES:** Consistent with electric Rate Schedule S – *Standby Service*, to the extent that charges for transmission and distribution services are recovered through demand charges in any billing period, no standby charges shall apply in that monthly billing cycle except Multiple Tariff Facilities interconnected under the terms of Special Condition 6, may be subject to the requirements of Schedule S. (T)

6. **MULTIPLE TARIFF FACILITIES:**
 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 F.
 - 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 schedules NEM, NEMBIO or NEMFC, but interconnects under the 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 tariff NEMBIOA (accounts with the load from Eligible Service Accounts aggregated on the main NEMBIO account pursuant to Special Condition 4) will be treated as a separate Constituent Generator Group.

(Continued)



SCHEDULE NEMBIO—NET ENERGY METERING SERVICE FOR BIOGAS CUSTOMER-GENERATORS
 (Continued)

SPECIAL
 CONDITIONS:
 (Cont'd.)

- 6. MULTIPLE TARIFF FACILITIES: (Cont'd.)
 - g. Multiple Tariff Facility Configurations and Metering. (Cont'd.)
 - 1) For two or more types of NEM-eligible Constituent Generator Groups (Cont'd)
 - 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 for small wind (50 kW or less) and/or solar generators, the customer-generator may elect to take service for such under either NEM sub-schedule NEMW or Schedule NEMBIO or NEMFC, as appropriate to one of the other Constituent Generator Group(s).
 - 2) For both, NEM-eligible and non-NEM-eligible Constituent Generator Groups, the Customer-Generator must select one of the following options:
 - a) **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 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 6(f) and 6(g) apply.
 - b) **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 6(f) and 6(g) apply.
 - c) **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 6(f) and 6(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 CCA Service, may only participate to the extent their CCA offers net metering for the specific constituent generator group(s). (N)
 |
 (N)

(Continued)



PACIFIC GAS AND ELECTRIC COMPANY

GENERATING FACILITY INTERCONNECTION APPLICATION
FORM NO. 79-974 (REV 03/08)
(ATTACHED)

(T)

Part 1 – Introduction and Overview

- A. Applicability:** This Generating Facility Interconnection Application (Application) is used to request the interconnection of a Generating Facility to Pacific Gas and Electric Company's (PG&E) Distribution System (over which the California Public Utilities Commission (CPUC) has jurisdiction). Refer to PG&E's Rule 21 to determine the specific requirements for interconnecting a Generating Facility. Capitalized terms used in this Application, and not otherwise defined herein, shall have the same meanings as defined in PG&E's Rule 21 and Rule 1.

Except as noted in the next paragraph, this Application may be used for any Generating Facility to be operated by, or for, a Customer and/or Producer to supplement or serve part or all of its electric energy requirements that would otherwise be provided by PG&E, including "distributed generation", "cogeneration," emergency, backup, and standby generation, and Net Energy Metered Generating Facilities. A simpler, shorter form is also available from PG&E for Net Energy Metering Customers with Solar and/or Wind Electric Generating Facilities less than 30kW (Form 79-1101). This form is available upon request by telephoning 415-972-5676 or on PG&E's website at <http://www.pge.com/gen>. While Customers operating Generating Facilities isolated from PG&E's Distribution System are not obligated to enter into an Interconnection Agreement with PG&E, parts of this Application will still need to be completed to satisfy PG&E's notice requirements for operating an isolated Generating Facility as specified in the California Health and Safety Code Section 119085 (b).

This Application may not be used to apply for interconnecting Generating Facilities used to participate in transactions where all, or a portion of, the electrical output of the Generating Facility is scheduled with the California Independent System Operator. Such transactions are subject to the jurisdiction of the Federal Energy Regulatory Commission (FERC) and require a different application available from PG&E.

This Application is not applicable for incentives and/or rebates offered by the Energy Resources Conservation and Development Commission ("CEC") or the CPUC. Please contact those agencies directly or on their respective websites (www.energy.state.ca.us and www.cpuc.ca.gov).

Guidelines and Steps for Interconnection: This Application must be completed and sent to PG&E along with the additional information indicated in Part 1, Section C below to initiate PG&E's interconnection review of the proposed Generating Facility. An Initial Review fee of \$800 (payable by check or money order to PG&E must accompany the Applications except those Applications for isolated Generating Facilities and Net Energy Metering Generating Facilities. Supplemental Review and Interconnection Study fees may be required for large capacity and/or more complex Generating Facility Interconnections; see PG&E's Rule 21, Section C.1.b. & c. for more information regarding interconnection of a generator to PG&E's Distribution System. Please refer to the California Energy Commission's website: http://www.energy.ca.gov/distgen/interconnection/guide_book.html.

This document is only an Application. Upon acceptance of the Generating Facilities, PG&E will prepare an Interconnection Agreement for execution by the "Producer," the party that will be responsible for the Generating Facility. PG&E may also require an inspection and testing of the Generating Facility and installation of any related Interconnection Facilities prior to giving the Producer written authorization to operate in parallel. **Unauthorized Parallel Operation may be dangerous and may result in injury to persons and/or may cause damage to equipment and/or property for which a Producer/Customer may be liable!**

Please note, other approvals may need to be acquired, and/or other agreements may need to be formed with PG&E or regulatory agencies, such as the Air Quality Management Districts and local governmental building and planning commissions prior to operating a Generating Facility. PG&E's authorization to operate in parallel does not satisfy the need for an Applicant to acquire such other approvals.

- B. Required Documents:** Four (4) copies of this Application and each of the following documents **are required to be submitted** before this application will be processed. Drawings must conform to accepted engineering standards and must be legible. 11"x17" drawings are preferred.
1. A **Single-line drawing** showing the electrical relationship and descriptions of the significant electrical components such as the primary switchgear, secondary switchboard, protective relays, transformers, generators, circuit breakers, with operating voltages, capacities, and protective functions of the Generating Facility, the Customer's loads, and the interconnection with PG&E's Distribution System. Please show the location of all required net generation electric output meter(s) and the A.C. manual operated disconnect switch on the single line drawing.
 2. **Site plans and diagrams** showing the physical relationship of the significant electrical components of the Generating Facility such as generators, transformers, primary switchgear/secondary switchboard, and control panels, the Customer's loads and the interconnection with PG&E's Distribution System. Please show the location of all required net generation electric output meter(s) and the A.C. manual operated disconnect switch on the site plans.
 3. If **transformers** are used to interconnect the Generating Facility with PG&E's Distribution System, please provide transformer nameplate information (voltages, capacity, winding arrangements, connections, impedance, et cetera).
 4. If a **transfer switch** or scheme is used to interconnect the Generating Facility with PG&E Distribution System, please provide component descriptions, capacity ratings, and a technical description of how the transfer scheme is intended to operate.
 5. If **protective relays** are used to control the interconnection, provide protection diagrams or elementary drawings showing relay wiring and connections, proposed relay settings, and a description of how the protection scheme is intended to function.
 6. An Initial Review fee check or money order in the amount of \$800, if applicable, made out to PG&E referencing the electric account number and "Initial Interconnection Review Fee."

Part 1 Cont'd – Introduction and Overview

C. **Mailing Instructions, Assistance:** When this application has been completed it may be printed and mailed, along with the required attachments to:

**Pacific Gas and Electric Company
Attn: Manager, Generation Interconnection Services
P.O. Box 770000
Mail Code N7L
San Francisco, California, 94177**

Alternatively, you may contact PG&E at (415) 972-5676 or e-mail at gen@pge.com

Part 2 – Identifying the Generating Facility's Location and Responsible Parties

<i>Project Name:</i>	<i>Date Received:</i>	<i>Generating Facility ID:</i>	<i>Application Expiration Date (Refer to Part 2, Section E)</i>

(For PG&E Use Only)

A. Customer Electric Account Information (What electric service will the Generating Facility be interconnected for parallel operation with PG&E? For aggregated electric accounts (under NEMBIO, dairy operations only) provide the primary and all associated accounts/meter information)

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Name shown on PG&E service account Electric Account Number Electric Badge (Meter) Number

NOTE: Customer Electric account must match the customer's utility bill account information.

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Meter Location Street Address City State Zip

Please check all that apply:

- A New Generating Facility interconnection (at an existing service)
- For Physical Changes to an interconnected Generating Facility with previous approval by PG&E (adding PV panels, changing inverters/turbines or changing load and/or operations).
- A New interconnection in conjunction with a new service
 - An **Application for Service** must be completed. Additional fees may be required if a service or line extension is required (in accordance with PG&E Electric Rules 15 and 16). Please contact PG&E at 1-800-PGE-5000.
- An Interconnection under Direct Access (DA)
 - Customers applying for interconnection who are served under Direct Access by an Energy Service Provider (ESP) must contact their ESP directly for information regarding the options available under their Direct Access contract.
- An Interconnection under Community Choice Aggregation Service (CCA Service)
 - Customers applying for interconnection who are served under Community Choice Aggregation Service (CCA Service) by an Community Choice Aggregator (CCA) must contact their CCA directly for information regarding the options available under their CCA Service Program.
- An interconnected non-exporting Generating Facility (load always exceeds generation)

Customer Electric Account Contact Information (Who is the customer contact for progress updates and/or additional information?)

Contact Person		Company Name	
Phone	Fax	E-mail	
Mailing Address	City	State	Zip

B. Project Contact Information (Who is the project manager for this Generating Facility?)

Project Contact Person (Optional)		Company Name	
Phone	Fax	E-mail	
Mailing Address	City	State	Zip

B.1. Will the Generating Facility be owned by a (third) party other than the name appearing on the PG&E service account in A. above (please check)? Yes No

Part 2 Cont'd – Identifying the Generating Facility's Location and Responsible Parties

C.1. Customer - Generating Facility Interconnection Agreement (“GFIA”) or Customer Generation Agreement (“CGA”) (for 3rd Party Generator on Premises) Information (Please identify the party that will execute the applicable agreement.) This Section is not applicable to Net Energy Metering (NEM) Applicants because PG&E and the Customer, not the 3rd Party if any, must enter into the Net Energy Metering Interconnection Agreement.

Company Name to be entered on GFIA/CGA	Legal Title of Company to be entered on GFIA/CGA
Person Executing the GFIA/CGA	Title of Person Executing the GFIA/CGA

Mailing Address	Phone	E-Mail

C.2. 3rd Party Owner – GFIA Information (Please identify the Party, if known, that will execute the GFIA). This Section is not applicable to Net Energy Metering (NEM) Applicants because PG&E and the Customer, not the 3rd Party if any, must enter into the Net Energy Metering Interconnection Agreement.

Company Name to be entered on GFIA/CGA	Legal Title of Company to be entered on GFIA/CGA
Person Executing the GFIA	Title of Person Executing GFIA

Mailing Address	Phone	E-Mail

D. Operating Date (What date is this Generating Facility expected to begin operation?)

E. Expiration Date* (The date the status of this Application is changed to “withdrawn” by PG&E?)

- **The information submitted in this Application will remain active and valid for a period of 12 months from the date the Application was accepted by PG&E as a “completed” Application. If the project has not been interconnected, or that reasonable proof the project is going forward has not been submitted to PG&E by that time, the Application will be considered “withdrawn” and removed from the queue. To the extent that the Initial Review, Supplemental Review, or Detailed Interconnection Study fees have been paid to and the corresponding reviews/study completed by PG&E, Applicant will only be entitled to a return of one-half of the Initial Review fee of \$400. All other fees will be forfeited.**

Part 2 Cont'd – Electing Interconnection Cost Responsibilities

F. Estimated Versus Actual Cost Responsibility

Under Rule 21 Applicants can elect estimated or actual costs for (1) detailed interconnection studies, and/or (2) Interconnection Facilities and distribution system modifications. This election must be made at the time of application submission. Under both cost options, an estimate is prepared. If the Applicant elects the actual cost option, there will be a true-up after the completion of the work. If actual costs exceed the original estimated amounts, Applicant will be responsible for costs above the estimated amounts. Conversely, if actual costs are less than the original estimated amounts, PG&E will refund the difference.

Applicants seeking interconnection under PG&E's Net Energy Metering tariffs are not responsible for Initial Review, Supplemental Review and Detailed Interconnection Study fees, nor for distribution system modifications' costs.

Selection of detailed interconnection study cost responsibility* (Non-NEM only):

Estimated Cost

Actual Cost

Selection of Interconnection Facilities and distribution system modifications' (if applicable) cost responsibility*:

Estimated Cost

Actual Cost

* **Note:** If no selections are made, estimated cost responsibility will apply.

Part 3 - Describing the Generating Facility and Host Customer's Electrical Facilities

A. (MP&I)	Indicate the operating mode of the Generating Facility	operating mode options: ___1 ___2 ___3 (Choose one)
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Instructions and Notes

Choose from the following operating mode options:

1. **Parallel Operation:** The Generating Facility will interconnect and operate "in parallel" with PG&E's Distribution System for more than one (1) second.
2. **Momentary Parallel Operation (MP):** The Generating Facility will interconnect and operate on a "momentary parallel" basis with PG&E's Distribution System for a duration of one (1) second or less through transfer switches or operating schemes specifically designed and engineered for such operation.
3. **Isolated Operation (I):** The Generating Facility will be "isolated" and prevented from becoming interconnected with PG&E's Distribution System through a transfer switch or operating scheme specifically designed and engineered for such operation.

Part 3 – Cont’d - Describing the Generating Facility and Host Customer’s Electrical Facilities

If the answer is operating mode option 1, “parallel operation,” please supply all of the information requested for the Generating Facility. Be sure to supply adequate information including diagrams and written descriptions regarding the protective relays that will be used to detect faults or abnormal operating conditions on PG&E’s Distribution System.

If the answer is operating mode option 2, “momentary parallel operation,” only questions A, E and F of this Part 3 and questions A, B, E, F, I, L, M, N, and S of Part 4 need be answered. Be sure, however, to supply adequate information including diagrams and written descriptions regarding the switching device or scheme that will be used to limit the parallel operation period to one second or less. Please also describe the back up or protective device and controls that will trip the Generating Facility should the transfer switch or scheme not complete the transfer in one second or less.

If the answer is operating mode option 3, “Isolated Operation,” only questions A, E, and F of this Part 3 and questions A, B, F, and S of Part 4 need be answered. Be sure, however, to supply adequate information including diagrams and written descriptions regarding the isolating switching device or scheme that will be used to prevent the Generating Facility from operating in parallel with PG&E’s Distribution System.

B.
*Parallel
Operation
Applications
Only*

If the Answer to Section A above was operating mode option 1, please indicate the type of agreement that is being requested with this Application. If operating mode option 2 or 3 was selected, please skip to questions E and F.

If agreement options 2, 3, 5, 7, 8, 9, or 10 to this Section B are chosen, please provide an estimate of the maximum kW the Generating Facility is expected to export to PG&E’s Distribution System. If PG&E determines that the amount of power to be exported is significant in relation to the capacity available on its Distribution System, it may request additional information, including time of delivery or seasonal kW/kWh estimates.

agreement options:

 1 2 3 4 5

 6 7 8 9 10

(Choose all that apply)

Maximum kW

Instructions and Notes

Sample agreements are available from PG&E for review. Choose from the following ten (10) agreement options:

Customer Owned Generating Facility (non-NEM)

1. **A Generating Facility Interconnection Agreement** that provides for parallel operation of the Generating Facility, but does not provide for exporting power to PG&E’s Distribution System. This non-export agreement, however does allow the occasional and uncompensated export of energy to PG&E’s Distribution System for less than 2 seconds in duration.
2. **A “Qualifying Facility” Power Purchase Agreement** that provides for parallel operation of the Generating Facility, and exporting energy to PG&E’s Distribution System for sale to PG&E. This option is available only to “Qualifying Facilities” with a total Nameplate Capacity of 100 kW or less. See Question F for the definition of a Qualifying Facility. (This type of agreement has not yet been developed by PG&E or approved by the CPUC. Check with PG&E for availability).
3. **A Generating Facility Interconnection Export Addendum** that provides for parallel operation of the Generating Facility and the occasional, continuous, non-compensated, export of inverter-based technology solar and wind energy, 1 MW or less to PG&E’s Distribution System. Continuous export is export greater than 60 seconds in duration. This addendum must be executed in concert with Agreement 1.

Third Party Owned Generating Facility (non-NEM)

4. **A Generating Facility Interconnection Agreement** that provides for parallel operation of the 3rd Party owned Generating Facility, but does not provide for exporting energy to PG&E’s Distribution System.
5. **A “Qualifying Facility” Power Purchase Agreement** that provides for parallel operation of the 3rd Party owned Generating Facility, and exporting energy to PG&E’s Distribution System for sale to PG&E. This option is available only to “Qualifying Facilities” with a total Nameplate Capacity of 100 kW or less. See Question F for the definition of a Qualifying Facility. (This type of agreement has not yet been developed by PG&E or approved by the CPUC. Check with PG&E for availability).
6. **A Customer Generation Agreement** that defines the relationship between the Customer whose name appears on PG&E’s electric service account. This agreement must be executed in addition agreements 4 and 5.

Part 3 Cont'd - Describing the Generating Facility and Host Customer's Electrical Facilities

Net Energy Metering Generating Facility

If you wish to have your Generating Facility participate on one of PG&E's Net Energy Metering tariffs, following your bi-directional meter installation, your meter and disconnect switch must be installed in a safe PG&E accessible location and remain unobstructed by plants, structures, locked gates or pets. Meter and disconnect switch access must be maintained at all times for your safety and PG&E's electrical system safety. Additionally, unencumbered access is required for meter reading, system maintenance, and operations. Any animals owned by the customer, for example pet dogs, should be kept clear from these areas to avoid hindering PG&E service personnel from completing their work.

Are there any meter access issues? Please check all that apply to avoid interconnection delays.

- Dog, or other animals at Residence
- Locked Gate
- Shrubs or Bushes
- Other (please explain) _____

7. **A Net Energy Metering Agreement: Solar and Wind**, that provides for parallel operation of the Generating Facility, and exporting energy to PG&E's Distribution System for credit under the terms of PG&E's Net Energy Metering tariffs for solar or wind Generating Facilities of 1MW or less, other than Generating Facilities of 30 kW or less. This agreement also requires submittal of an expanded net energy metered supplemental application. This option is available only to eligible Generating Facilities as defined in PG&E's Net Energy Metering tariffs.

8. **A Net Energy Metering Agreement: Bio-Gas**, that provides for parallel operation of the Generating Facility, and exporting energy to PG&E's Distribution System for credit under the terms of PG&E's Net Energy Metering tariffs for qualifying bio-gas digester Generating Facilities. This option is available only to eligible Generating Facilities as defined in PG&E's Net Energy Metering tariffs.

9. **A Net Energy Metering Agreement: Fuel Cell**, that provides for parallel operation of the Generating Facility, and exporting energy to PG&E's Distribution System for credit under the terms of PG&E's Net Energy Metering tariffs for fuel-cell Generating Facilities. This option is available only to eligible Generating Facilities as defined in PG&E's Net Energy Metering tariffs.

10. **Multiple Tariff Generating Facility Agreement**, that provides for the parallel operation of a Generating Facility that utilizes generators eligible for service under NEM or other applicable Net Energy Metering tariffs that are electrically connected behind the same Point of Common Coupling with generators not eligible to receive service under the NEM tariff.

11. **Other, please describe:** _____

<p>C. <i>Parallel Operation Applications Only</i></p>	<p>If the answer to Section B above was agreement option 1 or 4, please indicate the protection option that will be used to prevent energy from being exported to PG&E's Distribution System.</p> <p>If protection option 3 to this Section C is selected, please provide the continuous current rating of the host Customer facility's service entrance equipment (service panel rating):</p> <p>If Protection Option 4 to this Section C is selected, please provide the minimum load of the host Customer facility:</p>	<p>Protection Option: <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 (Choose one)</p> <p>_____ Amps</p> <p>_____ kW</p>
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Part 3 Cont'd - Describing the Generating Facility and Host Customer's Electrical Facilities

Instructions and Notes

Refer to PG&E's Rule 21, Section I.2., for additional information as to how to answer this question. If the Generating Facility will never export power to PG&E's Distribution System, a simpler, lower cost, protection scheme may be used to control the interface between the Generating Facility and PG&E's Distribution System. Choose from the following four options:

1. A reverse-power protection device will be installed to measure any export of power and trip the Generating Facility or open an intertie breaker to isolate the Generating Facility if limits are exceeded.
2. An under-power protection device will be installed to measure the inflow of power and trip or reduce the output of the Generating Facility if limits are not maintained.
3. The Generating Facility Interconnection Facility equipment has been certified as Non-Islanding and the incidental export of power will be limited by the design of the interconnection. If this option is to be used, the continuous ampere rating of the service entrance equipment (service panel rating) that is used by the host Customer facility must be stated in the space provided above.
4. The Gross Nameplate Rating of the Generating Facility will not exceed 50% of the host Customer facility's minimum electrical load. If this option is to be used, the minimum load of the host Customer facility must be stated in the space provided above.

Note: With the approval of PG&E, a Producer that wishes to retain the option to export power from a Generating Facility to PG&E's Distribution System may use a different protection scheme that provides for the detection of faults and other abnormal operating conditions.

<p>D.</p> <p><i>Parallel Operation Applications Only</i></p>	<p>What is the maximum 3-phase fault current that will be contributed by the Generating Facility to a 3-phase fault at the Point of Common Coupling (PCC)? (If the Generating Facility is single phase in design, please provide the contribution for a line-to-line fault.)</p> <p>Please indicate the short circuit interrupting rating of the host Customer facility's service panel:</p>	<p>_____</p> <p>Amps</p> <p>_____</p> <p>Amps</p>
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Instructions and Notes

Refer to PG&E's Rule 21 Sections D.4.a. and I.3.g. for significance and additional information. To determine this value, any transformers and/or significant lengths of interconnecting conductor used between each of the Generators (if there are more than one) that make up the Generating Facility and the PCC must be taken into account. The details, impedance, and arrangement of such transformers and interconnecting conductors should be shown on the single-line diagram that is provided. Consult an electrical engineer or the equipment supplier if assistance is needed in answering this question.

It is expected that most Applicants will want to reserve the flexibility to operate any or all of their Generators in parallel. If the design of the proposed Generating Facility limits the amount of generation that may be interconnected at any time to PG&E's Distribution System, please describe the assumptions used in calculating the maximum fault current contribution value.

<p>E.</p> <p>(MP&I)</p>	<p>Please indicate how this Generating Facility will be operated.</p>	<p><input type="checkbox"/>_1 <input type="checkbox"/>_2 <input type="checkbox"/>_3 <input type="checkbox"/>_4 <input type="checkbox"/>_5 <input type="checkbox"/>_6</p> <p>(Please choose all options that may apply.)</p>
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Choose from the following six operation options:

1. **Combined Heat and Power or Cogeneration** – Where the operation of the Generating Facility will produce thermal energy for a process other than generating electricity.
2. **Peak Shaving/Demand Management** – Where the Generating Facility will be operated primarily to reduce electrical demands of the host Customer facility during PG&E's "peak pricing periods".
3. **Primary Power Source** – Where the Generating Facility will be used as the primary source of electric power and power supplied by PG&E to the host Customer's loads will be required for supplemental, standby, or backup power purposes only.
4. **Standby / Emergency / Backup** – Where the Generating Facility will normally be operated only when PG&E's electric service is not available.
5. **Net Energy Metering** – Where the Generating Facility qualifies and receives service under PG&E's Net Energy Metering tariffs. For applicants for the Net Energy Metering of a solar and/or wind generating facility 1,000kW or less, other than customers with facilities of 30kW or less, a supplemental application (Form Number 79-998) is also required.
6. **Multiple Tariff** - Generating Facilities that have a combination of non-Net Energy Metering (non-NEM) generator(s) and a Net Energy Metering (NEM) generator(s). Check one of the following four options on the next sheet.

Part 3 Cont'd - Describing the Generating Facility and Host Customer's Electrical Facilities

For **Multiple Tariff** Generating Facilities, check one of the following:

- New facility installing non-NEM generator(s) and NEM generator(s) at the same time.
- Existing facility with non-NEM generator(s) and planning to add NEM generator(s). Please provide data for the table below.
- Existing facility with NEM generator(s) and planning to add non-NEM generator(s). Please provide data for the table below.
- Existing facility with NEM generator(s) and planning to add NEM generator(s) under a different NEM tariff. Please provide data for the table below.

Instructions (From Part 4)	Generator Information	Existing Generator Type	Existing Generator Type	New Generator Type	New Generator Type	Generating Facility Totals
#	Please indicate the number of each "type" of Generator being installed: (see Instruction)					
A	Gen/Inverter Manufacturer					
B	Generator/Inverter Model					
C	Gen/Inverter software Version					
D	Is the Gen/Inverter certified	<input type="checkbox"/> Yes <input type="checkbox"/> No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	
E	Generator design	<input type="checkbox"/> Synch <input type="checkbox"/> Induct. <input type="checkbox"/> Inverter				
F	Gross Nameplate Rating					
I	Operating Voltage					
J	Power Factor rating					
K	PF Adjustment Range					
L	Wiring Configuration					

GENERATING FACILITY INTERCONNECTION APPLICATION

Part 3 Cont'd - Describing the Generating Facility and Host Customer's Electrical Facilities

Instructions From Part 4	Generator Information	Existing Generator Type	Existing Generator Type	New Generator Type	New Generator Type
M (MP)	3-Phase Winding Configuration (Choose One)	<input type="checkbox"/> 3 Wire Delta <input type="checkbox"/> 3 Wire Wye <input type="checkbox"/> 4 Wire Wye	<input type="checkbox"/> 3 Wire Delta <input type="checkbox"/> 3 Wire Wye <input type="checkbox"/> 4 Wire Wye	<input type="checkbox"/> 3 Wire Delta <input type="checkbox"/> 3 Wire Wye <input type="checkbox"/> 4 Wire Wye	<input type="checkbox"/> 3 Wire Delta <input type="checkbox"/> 3 Wire Wye <input type="checkbox"/> 4 Wire Wye
N (MP)	Neutral Grounding System Used (Choose One)	<input type="checkbox"/> Ungrounded <input type="checkbox"/> Solidly Grounded <input type="checkbox"/> Ground Resistor <div style="text-align: right;">_____ Ohms</div>	<input type="checkbox"/> Ungrounded <input type="checkbox"/> Solidly Grounded <input type="checkbox"/> Ground Resistor <div style="text-align: right;">_____ Ohms</div>	<input type="checkbox"/> Ungrounded <input type="checkbox"/> Solidly Grounded <input type="checkbox"/> Ground Resistor <div style="text-align: right;">_____ Ohms</div>	<input type="checkbox"/> Ungrounded <input type="checkbox"/> Solidly Grounded <input type="checkbox"/> Ground Resistor <div style="text-align: right;">_____ Ohms</div>
O	<i>For Synchronous Generators Only:</i> Synchronous Reactance: Transient Reactance: Subtransient Reactance:	_____ (Xd %) _____ (X'd %) _____ (X''d %)	_____ (Xd %) _____ (X'd %) _____ (X''d %)	_____ (Xd %) _____ (X'd %) _____ (X''d %)	_____ (Xd %) _____ (X'd %) _____ (X''d %)
P	<i>For Induction Generators Only:</i> Locked Rotor Current: OR Stator Resistance: Stator Leakage Reactance: Rotor Resistance: Rotor Leakage Reactance:	_____ (Amps) _____ (%) _____ (%) _____ (%) _____ (%)	_____ (Amps) _____ (%) _____ (%) _____ (%) _____ (%)	_____ (Amps) _____ (%) _____ (%) _____ (%) _____ (%)	_____ (Amps) _____ (%) _____ (%) _____ (%) _____ (%)
Q	Short Circuit Current Produced by Generator:	_____ (Amps)	_____ (Amps)	_____ (Amps)	_____ (Amps)
R	<i>For Generators that are Started as a "Motor" Only</i> 1. In-Rush Current: 2. Host Customer's Service Entrance Panel (Main Panel) Continuous Current Rating:	_____ (Amps) _____ (Amps)	_____ (Amps) _____ (Amps)	_____ (Amps) _____ (Amps)	_____ (Amps) _____ (Amps)
S (MP&I)	Prime Mover Type: (Circle One)	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

Part 3 Cont'd - Describing the Generating Facility and Host Customer's Electrical Facilities

F. (MP&I)	Please indicate if Qualifying Facility Status will be obtained from the FERC for this Generating Facility.	<input type="checkbox"/> Yes <input type="checkbox"/> No
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Instructions and Notes

Parties operating Generating Facilities complying with all of the requirements for qualification as either a small power production facility or cogeneration facility pursuant to the regulations of the FERC (18 Code of Federal Regulations Part 292, Section 292.203 et seq.) implementing the Public Utility Regulatory Policies Act of 1978 (16 U.S.C.A. Section 796, et seq.), or any successor requirements for "Qualifying Facilities," may seek certification from FERC to have the Generating Facility designated as a Qualifying Facility or "QF." In summary, QF's are Generating Facilities using renewable or alternative fuels as a primary energy source or facilities that utilize the thermal energy given off by the generation process for some other useful purpose. QF's enjoy certain rights and privileges not available to non-QF Generating Facilities.

QF status is not required to interconnect and operate in parallel with PG&E's Distribution System.

G.	Please indicate if Generating Facility will meet the annual Efficiency and Operating Standards of PUC Code 216.6 (Applicable to Cogeneration Only)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
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Part 4 – Instructions for Describing the Generators

	Generator Information	Instructions and Comments
#	Please indicate the number of each "type" of Generator being installed:	Please provide the following information for each Generator "type". Be sure all Generators classified as one "type" are identical in all respects. If only one type of Generator is to be used, only one column needs to be completed. Please be sure the information in the "Totals" column is correct and reflects the total number of Generator units to be installed.
A	Generator/Inverter Manufacturer	Enter the brand name of the Generator.
B	Generator/Inverter Model	Enter the model name or number assigned by the manufacturer of the Generator.
C	Generator/Inverter Software Version	If this Generator's control and or protective functions are dependent on a "software" program supplied by the manufacturer of the equipment, please provide the version or release number for the software that will be used.
D	Is the Generator Certified by a Nationally Recognized Testing Laboratory (NRTL) according to Rule 21?	Answer "Yes" only if the Generator manufacturer can or has provided certification data. See PG&E's Rule 21, Section J for additional information regarding Generator certification.

Part 4 – Instructions for Describing the Generators

	Generator Information	Instructions and Comments
E	Generator Design	Please indicate the design of each Generator. Designate “Inverter” anytime an inverter is used as the interface between the Generator and the electric system regardless of the primary power production/storage device used.
F	Gross Nameplate Rating (kVA)	This is the capacity value normally supplied by the manufacturer and stamped on the Generator’s “nameplate”. This value is not required where the manufacturer provides only a “kW” rating. However, where both kVA and kW values are available, please indicate both.
G	Gross Nameplate Rating (kW)	This is the capacity value normally supplied by the manufacturer and stamped on the Generator’s “nameplate”. This value is not required where the manufacturer provides only a “kVA” rating. However, where both kVA and kW values are available, please indicate both.
H	Net Nameplate Rating (kW)	This capacity value is determined by subtracting the “auxiliary” or “station service” loads used to operate the Generator or Generating Facility. Applicants are not required to supply this value but, if it is not supplied, applicable standby charges may be based on the higher “gross” values.
I	Operating Voltage	This value should be the voltage rating designated by the manufacturer and used in this Generating Facility. Please indicate phase-to-phase voltages for 3-phase installations. See PG&E’s Rule 21, Section D.2.b. for additional information.
J	Power Factor Rating	This value should be the nominal power factor rating designated by the manufacturer for the Generator. See PG&E’s Rule 21, Section D.2.i. for additional information.
K	PF Adjustment Range	Where the power factor of the Generator is adjustable, please indicate the maximum and minimum operating values. See PG&E’s Rule 21, Section D.2.i.
L	Wiring Configuration	Please indicate whether the Generator is a single-phase or three-phase device. See PG&E’s Rule 21, Section D.3.
M	3-Phase Winding Configuration	For three-phase generating units, please indicate the configuration of the Generator’s windings or inverter systems.
N	Neutral Grounding	Wye connected generating units are often grounded – either through a resistor or directly, depending upon the nature of the electrical system to which the Generator is connected. If the grounding method used at this facility is not listed, please attach additional descriptive information.

Part 4 – Instructions for Describing the Generators

	Generator Information	Instructions and Comments
O	<i>For Synchronous Generators Only:</i>	If the Generator is of a “synchronous” design, please provide the synchronous reactance, transient reactance, and subtransient reactance values supplied by the manufacturer. This information is necessary to determine the short circuit contribution of the Generator and as data in load flow and short circuit computer models of PG&E’s Distribution System. If the Generator’s Gross Nameplate Capacity is 10 MW or greater, PG&E may request additional data to better model the nature and behavior of the Generator with relation to its Distribution System.
P	<i>For Induction Generators Only:</i>	If the Generator is of an “induction” design, please provide the “locked rotor current” value supplied by the manufacturer. If this value is not available, the stator resistance, stator leakage reactance, rotor resistance, rotor leakage reactance values supplied by the manufacturer may be used to determine the locked rotor current. If the Generator’s Gross Nameplate Capacity is 10 MW or greater, PG&E may request additional data to better model the nature and behavior of the Generator with relation to its Distribution System.
Q	Short Circuit Current Produced by Generator	Please indicate the current each Generator can supply to a three-phase fault across its output terminals. For single phase Generators, please supply the phase-to-phase fault current.
R	<i>For Generators that are Started as a “Motor” Only:</i> 1. In-Rush Current 2. Host Customer’s Service Entrance Panel (Main Panel) Continuous Current Rating	This information is needed only for Generators that are started by “motoring” the generator. See PG&E’s Rule 21, Section I.3.e. for significance and additional information. If this question was answered in Part 3, question C of this Application, it need not be answered here.
S	Prime Mover Type	Please indicate the type and fuel used as the “prime mover” or source of energy for the Generator. 1 = Internal Combustion Engine – Natural Gas 2 = Internal Combustion Engine – Diesel Fueled 3 = Internal Combustion Engine - Other Fuel 4 = Microturbine– Natural Gas 5 = Microturbine – Other Fuel 6 = Combustion Turbine Natural Gas 7 = Combustion Turbine - Other Fuel 8 = Steam Turbine 9 = Photovoltaic Panels 10 = Solar-thermal engine 11 = Fuel Cell– Natural Gas 12 = Fuel Cell– Other Fuel 13 = Hydroelectric Turbine 14 = Wind Turbine 15 = Other (please describe)



PACIFIC GAS AND ELECTRIC COMPANY

INTERCONNECTION AGREEMENT FOR NET ENERGY METERING OF SOLAR OR
WIND ELECTRIC GENERATING FACILITIES OF 1,000 KILOWATTS OR LESS,
OTHER THAN FACILITIES OF 30 KILOWATTS OR LESS
FORM NO. 79-978 (REV. 03/08)
(ATTACHED)

(T)

This "Interconnection Agreement for Net Energy Metering of Solar or Wind Electric Generating Facilities of 1,000 Kilowatts or Less, Other Than Facilities of 30 Kilowatts or Less" ("Agreement")¹ is entered into by and between _____ ("Customer-Generator"), and Pacific Gas and Electric Company ("PG&E"), a California Corporation. Customer-Generator and PG&E are sometimes also referred to in this Agreement jointly as "Parties" or individually as "Party." In consideration of the mutual promises and obligations stated in this Agreement and its attachments, the Parties agree as follows:

1. SCOPE AND PURPOSE

This Agreement provides for Customer-Generator to interconnect and operate a Generating Facility in parallel with PG&E's Distribution System to serve the electrical loads connected to the electric service account that PG&E uses to interconnect Customer-Generator's Generating Facility. Customer-Generator's Generating Facility is intended primarily to offset part or all of the Customer-Generator's own electrical requirements. Consistent with, and in order to effectuate, the provisions of Sections 2827, 2827.7 and 2827.8 of the California Public Utilities Code and PG&E's electric rate Schedule NEM ("NEM"), Parties enter into this Agreement. This Agreement applies to the Customer-Generator's Generating Facilities identified below with the specified characteristics and generating capacity, and does not allow interconnection or operation of facilities different than those described.

2. SUMMARY AND DESCRIPTION OF CUSTOMER-GENERATOR'S GENERATING FACILITY AND DESIGNATION OF OTHERWISE-APPLICABLE RATE SCHEDULE

2.1 A description of the Generating Facility, including a summary of its significant components and a single-line diagram showing the general arrangement of how Customer-Generator's Generating Facility and loads are interconnected with PG&E's Distribution System, is attached to and made a part of this Agreement. (This description is supplied by Customer-Generator as Appendix A).

2.2 Generating Facility identification number: _____ (Assigned by PG&E)

2.3 Customer-Generator's electric service account number: _____ (Assigned by PG&E)

2.4 Name and address used by PG&E to locate the electric service account used to interconnect the Generating Facility with PG&E's Distribution System:

Name: _____

Address: _____

City/Zip Code: _____

2.5 Interconnected Equipment:

¹ Additional forms are available upon request by telephoning 415-972-5676 or on PG&E's website at <http://www.pge.com/gen>.

**INTERCONNECTION AGREEMENT FOR NET ENERGY METERING OF SOLAR OR WIND ELECTRIC
GENERATING FACILITIES OF 1,000 KILOWATTS OR LESS, OTHER THAN FACILITIES OF 30 KILOWATTS OR LESS**

List of generating equipment interconnected with, or without, an inverter to PG&E. (For those generators interconnecting without an inverter, write in "N/A" in the right three columns. If an inverter is shared by more than one generator, write "shared" on the same line as that generator under the manufacturer column and do not enter the inverter rating. Attach list of additional equipment, if applicable.)

	Type of Generator (Solar / Wind / Hybrid)	Generator Rating (watts)	Manufacturer of Inverter used with Generator (if Applicable)	Inverter Model Number (if Applicable)	Inverter Rating (watts) ² (if Applicable)
1					
2					

- 2.6 Customer-Generator's otherwise-applicable rate schedule under the provisions of Schedule NEM will be _____. (Eligible Wind Energy Co-Metering Customer-Generators **must** be on a time-of-use rate schedule. See Special Condition 5 of the NEM tariff.)
- 2.7 The Generating Facility's expected date of Initial Operation is _____. The expected date of Initial Operation shall be within two years of the date of this Agreement.
- 2.8 If the date of the permits allowing the Customer-Generator to commence construction of the Generating Facility is prior to January 1, 2003, please provide the date the permits were issued: _____.

² If installing an inverter, the inverter rating equals: (the CEC efficiency for each installed inverter) TIMES (the nameplate rating, in kW, of each inverter). The CEC efficiency is obtained on the CEC website at http://www.consumerenergycenter.org/erprebate/eligible_inverters.html as listed on the date the application is reviewed. Enter the total of all inverter ratings for multiple inverter installations in the Table above.

3. DOCUMENTS INCLUDED AND DEFINED TERMS

- 3.1 This Agreement includes the following exhibits that are specifically incorporated herein and made a part of this Agreement.

Appendix A Description of Generating Facility and Single-Line Diagram (Supplied by Customer-Generator).

Appendix B A Copy of PG&E's Agreement for Installation or Allocation of Special Facilities (Forms 79-255, 79-280, 79-702) or Agreements to Perform Any Tariff Related Work (62-4527), if applicable (Formed by the Parties).

In addition, PG&E Electric Tariff Rules and Rates, including but not limited to Electric Rules 2, 14, 15, 16, and 21, Schedule NEM, and Customer-Generator's otherwise-applicable rate schedule, available at PG&E's website at www.pge.com or by request, are specifically incorporated herein and made part of this Agreement.

- 3.2 When initially capitalized, whether in the singular or in the plural, the terms used herein shall have the meanings assigned to them either in this Agreement or in PG&E's Electric Rule 21, Section H.

4. CUSTOMER BILLING AND PAYMENT

Customer-Generator initially selects Pacific Gas and Electric Company's electric rate schedule referenced in Section 2.6 of this Agreement as its otherwise-applicable rate schedule. Customer-Generator understands that they will be billed according to the otherwise-applicable rate schedule and Schedule NEM.

5. TERM AND TERMINATION

- 5.1 This Agreement shall become effective as of the last date entered in Section 18 below. The Agreement shall continue in full force and effect until the earliest date that one of the following events occurs:

- (a) The Parties agree in writing to terminate the Agreement.
- (b) Unless otherwise agreed in writing by the Parties, at 12:01 A.M. on the day following the date the electric service account through which Customer-Generator's Generating Facility is interconnected to PG&E is closed or terminated.
- (c) At 12:01 A.M. on the 61st day after Customer-Generator or PG&E provides written Notice pursuant to Section 11 below to the other Party of Customer-Generator's or PG&E's intent to terminate this Agreement.

- 5.2 Customer-Generator may elect to terminate this Agreement pursuant to the terms of Section 5.1(c) for any reason. PG&E may elect to terminate this Agreement pursuant to the terms of Section 5.1(c) for one or more of the following reasons:

**INTERCONNECTION AGREEMENT FOR NET ENERGY METERING OF SOLAR OR WIND ELECTRIC
GENERATING FACILITIES OF 1,000 KILOWATTS OR LESS, OTHER THAN FACILITIES OF 30 KILOWATTS OR LESS**

- (a) A change in applicable rules, tariffs, or regulations, as approved or directed by the Commission, or a change in any local, state or federal law, statute or regulation, either of which materially alters or otherwise affects PG&E's ability or obligation to perform PG&E's duties under this Agreement; or,
 - (b) Customer-Generator fails to take all corrective actions specified in PG&E's Notice that Customer-Generator's Generating Facility is out of compliance with the terms of this Agreement within the time frame set forth in such Notice; or,
 - (c) Customer-Generator abandons the Generating Facility. PG&E shall deem the Generating Facility to be abandoned if PG&E determines, in its sole opinion, the Generating Facility is nonoperational and Customer-Generator does not provide a substantive response to PG&E Notice of its intent to terminate this Agreement as a result of Customer-Generator's apparent abandonment of the Generating Facility affirming Customer-Generator's intent and ability to continue to operate the Generating Facility; or,
 - (d) Customer-Generator's Generating Facility ceases to meet all applicable safety and performance standards set out in Section 6.
- 5.3 Notwithstanding any other provisions of this Agreement, PG&E shall have the right to unilaterally file with the Commission, pursuant to the Commission's rules and regulations, an application to terminate this Agreement.
- 5.4 Any agreements attached to and incorporated into this Agreement shall terminate concurrently with this Agreement unless the Parties have agreed otherwise in writing.

6. GENERATING FACILITY REQUIREMENTS

- 6.1 Customer-Generator's Generating Facility 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 Commission regarding safety and reliability including Rule 21.
- 6.2 Customer-Generator shall: (a) maintain the Generating Facility and Interconnection Facilities in a safe and prudent manner and in conformance with all applicable laws and regulations including, but not limited to, Section 6.1, and (b) obtain any governmental authorizations and permits required for the construction and operation of the Generating Facility and Interconnection Facilities. Customer-Generator shall reimburse PG&E for any and all losses, damages, claims, penalties, or liability it incurs as a result of Customer-Generator's failure to obtain or maintain any governmental authorizations and permits required for construction and operation of Customer-Generator's Generating Facility.
- 6.3 Customer-Generator shall not commence parallel operation of the Generating Facility until PG&E has provided express written approval. Such approval shall normally be provided no later than thirty (30) business days following PG&E's receipt of: (1) a completed *Generating Facility Interconnection Application* (Form 79-974), including all supporting documents and payments as described in the Application; (2) a completed *Expanded Net Energy Metering (NEM) Supplemental Application* (Form

79-998); (3) a signed and completed *Interconnection Agreement* (Form 79-978); and (4) a copy of the Customer-Generator's final inspection clearance from the governmental authority having jurisdiction over the Generating Facility. Such approval shall not be unreasonably withheld. PG&E shall have the right to have representatives present at the Commissioning Test as defined in Rule 21. Customer-Generator shall notify PG&E at least five (5) business days prior to the initial testing.

7. INTERCONNECTION FACILITIES

- 7.1 Customer-Generator and/or PG&E, as appropriate, shall provide Interconnection Facilities that adequately protect PG&E's Distribution System, personnel, and other persons from damage or injury, which may be caused by the operation of Customer-Generator's Generating Facility.
- 7.2 Customer-Generator shall be solely responsible for the costs, design, purchase, construction, permitting, operation, and maintenance of the Interconnection Facilities that Customer-Generator owns.
- 7.3 If the provisions of PG&E's Electric Rule 21, or any other tariff or rule approved by the Commission, require PG&E to own and operate a portion of the Interconnection Facilities, Customer-Generator and PG&E shall promptly execute a Special Facilities Agreement that establishes and allocates responsibility for the design, installation, operation, maintenance, and ownership of the Interconnection Facilities. This Special Facilities Agreement shall be attached to and made a part of this Agreement as Appendix B.

8. LIMITATION OF LIABILITY

Each Party's liability to the other Party for any loss, cost, claim, injury, liability, or expense, including reasonable attorney's fees, relating to or arising from any act or omission in its performance of this agreement, shall be limited to the amount of direct damage actually incurred. In no event shall either Party be liable to the other Party for any indirect, special, consequential, or punitive damages of any kind whatsoever.

9. INSURANCE

Customer-Generator Facility is required to comply with standards and rules set forth in section 6 and provide the following for insurance policies in place.

Customer-Generator shall furnish the required certificates and all endorsements to PG&E prior to Parallel Operation.

The certificate shall provide thirty (30) calendar days' written notice to PG&E prior to cancellation, termination, alteration, or material change of such insurance.

PG&E shall have the right to inspect or obtain a copy of the original policy or policies of insurance.

**INTERCONNECTION AGREEMENT FOR NET ENERGY METERING OF SOLAR OR WIND ELECTRIC
GENERATING FACILITIES OF 1,000 KILOWATTS OR LESS, OTHER THAN FACILITIES OF 30 KILOWATTS OR LESS**

- 9.1 If at any time during this agreement the Customer-Generator fails to meet the requirements in section 6, the following insurance shall apply:

Customer-Generator shall procure and maintain a commercial general liability insurance policy at least as broad as the Insurance Services Office (ISO) commercial general liability coverage "occurrence" form; or, if Customer-Generator is an individual, then liability coverage with respect to premises and use at least as broad as the ISO homeowners' or personal liability Insurance occurrence policy form, or substitute, providing equivalent coverage no less than the following limits, based on generator size:

- (a) Two million dollars (\$2,000,000) for each occurrence if the Gross Nameplate Rating of the Generating Facility is greater than one hundred (100) kW; or
- (b) One million dollars (\$1,000,000) for each occurrence if the Gross Nameplate Rating of the Generating Facility is greater than twenty (20) kW and less than or equal to one hundred (100) kW; or
- (c) Five hundred thousand dollars (\$500,000) for each occurrence if the Gross Nameplate Rating of the Generating Facility is twenty (20) kW or less;
- (d) Two hundred thousand dollars (\$200,000) for each occurrence if the Gross Nameplate Rating of the Generating Facility is ten (10) kW or less and the Generating Facility is connected to an account receiving residential service from PG&E.

The insurance shall, by endorsement, shall:

- (a) Add PG&E as an additional insured;
 - (b) State that coverage provided is primary and is not in excess to or contributing with any insurance or self-insurance maintained by PG&E.
 - (c) Contain a severability of interest clause or cross-liability clause.
- 9.2 If Customer-Generator's Generating Facility is connected to an account receiving residential service from PG&E and the requirement of Section 9.1 prevents Customer-Generator from obtaining the insurance required in this Section, then upon Customer-Generator's written Notice to PG&E in accordance with Section 11.1, the requirements of Section 9.1 may be waived.
- 9.3 Customer-Generator may self-insure with approval from PG&E. Evidence of an acceptable plan to self-insure, at least thirty (30) calendar days' prior to operations shall be submitted.

If Customer-Generator ceases to self-insure to the level required hereunder, or if Customer-Generator is unable to provide continuing evidence of Customer-Generator's ability to self-insure, Customer-Generator agrees to immediately obtain the coverage required under agreement.

**INTERCONNECTION AGREEMENT FOR NET ENERGY METERING OF SOLAR OR WIND ELECTRIC
GENERATING FACILITIES OF 1,000 KILOWATTS OR LESS, OTHER THAN FACILITIES OF 30 KILOWATTS OR LESS**

- 9.4 All required certificates, endorsements or letters of self-insurance shall be issued and submitted to the following:

Pacific Gas and Electric Company
Attn: Generation Interconnection Services
P.O. Box 770000
Mail Code N7L
San Francisco, California 94177

10. INDEMNITY FOR FAILURE TO COMPLY WITH INSURANCE PROVISIONS

- 10.1 If Customer-Generator fails to comply with the insurance provisions of this Agreement, Customer-Generator shall, at its own cost, defend, save harmless and indemnify PG&E, its directors, officers, employees, agents, assignees, and successors in interest from and against any and all loss, liability, damage, claim, cost, charge, demand, or expense of any kind or nature (including attorney's fees and other costs of litigation) resulting from the death or injury to any person or damage to any property, including the personnel and property of the utility, to the extent that the utility would have been protected had Customer-Generator complied with all such insurance provisions. The inclusion of this Section 10.1 is not intended to create any expressed or implied right in Customer-Generator to elect not to provide any such required insurance.
- 10.2 The provisions of this Section 10 shall not be construed to relieve any insurer of its obligations to pay any insurance claims in accordance with the provisions of any valid insurance policy.

11. NOTICES

- 11.1 Any written notice, demand, or request required or authorized in connection with this Agreement ("Notice") shall be deemed properly given if delivered in person or sent by first class mail, postage prepaid, to the person specified below:

If to PG&E: Pacific Gas and Electric Company
Attention: Manager, Business Customer Center
P.O. Box 770000
Mail Code B19C
San Francisco, California 94177
Phone: (800) 468-4743
FAX: (415) 972-5309

If to Customer-Generator:

Customer-Generator Name: _____

Address: _____

City: _____

Phone: () _____

FAX: () _____

- 11.2 A Party may change its address for Notices at any time by providing the other Party

notice of the change in accordance with Section 11.1.

- 11.3 The Parties may also designate operating representatives to conduct the daily communications, which may be necessary or convenient for the administration of this Agreement. Such designations, including names, addresses, and phone numbers may be communicated or revised by one Party's Notice to the other.

12. REVIEW OF RECORDS AND DATA

- 12.1 PG&E shall have the right to review and obtain copies of Customer-Generator's operations and maintenance records, logs, or other information such as Generating Facility availability, maintenance outages, circuit breaker operation requiring manual reset, relay targets and unusual events pertaining to Customer-Generator's Generating Facility or its interconnection to PG&E.
- 12.2 Customer-Generator authorizes to release to the California Energy Commission (CEC) information regarding Customer-Generator's facility, including customer name and Generating Facility location, size, and operational characteristics, as requested from time to time pursuant to the CEC's rules and regulations.

13. ASSIGNMENT

Customer-Generator shall not voluntarily assign its rights nor delegate its duties under this Agreement without PG&E's written consent. Any assignment or delegation Customer-Generator makes without PG&E's written consent shall not be valid. PG&E shall not unreasonably withhold its consent to Customer-Generator's assignment of this Agreement.

14. NON-WAIVER

None of the provisions of this Agreement shall be considered waived by a Party unless such waiver is given in writing. The failure of a Party to insist in any one or more instances upon strict performance of any of the provisions of this Agreement or to take advantage of any of its rights hereunder shall not be construed as a waiver of any such provisions or the relinquishment of any such rights for the future, but the same shall continue and remain in full force and effect.

15. GOVERNING LAW, JURISDICTION OF COMMISSION, INCLUSION OF PG&E's TARIFF SCHEDULES AND RULES

- 15.1 This Agreement shall be interpreted, governed, and construed under the laws of the State of California as if executed and to be performed wholly within the State of California without giving effect to choice of law provisions that might apply to the law of a different jurisdiction.
- 15.2 This Agreement shall, at all times, be subject to such changes or modifications by the Commission as it may from time to time direct in the exercise of its jurisdiction.
- 15.3 The interconnection and services provided under this Agreement shall at all times be subject to the terms and conditions set forth in the Tariff Schedules and Rules applicable to the electric service provided by PG&E, which Tariff Schedules and Rules are hereby incorporated into this Agreement by this reference.

**INTERCONNECTION AGREEMENT FOR NET ENERGY METERING OF SOLAR OR WIND ELECTRIC
GENERATING FACILITIES OF 1,000 KILOWATTS OR LESS, OTHER THAN FACILITIES OF 30 KILOWATTS OR LESS**

15.4 Notwithstanding any other provisions of this Agreement, PG&E shall have the right to unilaterally file with the Commission, pursuant to the Commission's rules and regulations, an application for change in rates, charges, classification, service, tariff or rule or any agreement relating thereto.

16. AMENDMENT AND MODIFICATION

This Agreement can only be amended or modified by a writing signed by both Parties.

17. ENTIRE AGREEMENT

This Agreement, including any incorporated Tariff Schedules and Rules, contains the entire Agreement and understanding between the Parties, their agents, and employees as to the subject matter of this Agreement. Each party also represents that in entering into this Agreement, it has not relied on any promise, inducement, representation, warranty, agreement or other statement not set forth in this Agreement or in the incorporated Tariff Schedules and Rules.

18. SIGNATURES

IN WITNESS WHEREOF, the Parties hereto have caused this Agreement to be executed by their duly authorized representatives. This Agreement is effective as of the last date set forth below.

CUSTOMER-GENERATOR'S NAME	PACIFIC GAS AND ELECTRIC COMPANY
By: _____	By: _____
Name: _____	Name: _____
Title: _____	Title: <u>Manager,</u> <u>Generation Interconnection Services</u>
Date: _____	Date: _____

APPENDIX A
DESCRIPTION OF GENERATING FACILITY
AND SINGLE-LINE DIAGRAM
(Provided by Customer-Generator)

**INTERCONNECTION AGREEMENT FOR NET ENERGY METERING OF SOLAR OR WIND ELECTRIC
GENERATING FACILITIES OF 1,000 KILOWATTS OR LESS, OTHER THAN FACILITIES OF 30 KILOWATTS OR LESS**

APPENDIX B

(If Applicable)

Any Rule 2 or Rule 21 Agreements for the Installation or Allocation of Special Facilities (Forms 79-255, 79-280, 79-702) or Agreements to Perform Any Tariff Related Work (62-4527)
(Formed between the Parties)



PACIFIC GAS AND ELECTRIC COMPANY

APPLICATION AND INTERCONNECTION AGREEMENT FOR CUSTOMERS WITH
SOLAR AND/OR WIND ELECTRIC GENERATING FACILITIES OF 30 KILOWATTS OR
LESS

FORM NO. 79-1101 (03/08)
(ATTACHED)

(T)



Net Energy Metering

Application and Interconnection Agreement for Customers with Solar and/or Wind Electric Generating Facilities of 30 Kilowatts or Less



Please note that this agreement does not constitute an application to any **rebate** and/or **incentive programs**. For more information on these programs and their specific applications, please contact PG&E by phone, or by email using the subject "solar energy" at smarter-energy@pge.com, 1-800-933-9555 (residential) or BusinessCustomerHelp@pge.com, 1-800-468-4743 (commercial/industrial).

For more information on the California Solar Initiative (CSI), please go to www.pge.com/csi where you will find information about the program, including the program handbook, reservation request forms with the program contract as well as a list of requirements, FAQ's and resources. For additional questions about the CSI, contact PG&E at solar@pge.com.

If you are applying for a CSI rebate, please check below and continue with this application

- Yes, I am also applying for a CSI rebate.

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

A. Applicability and Purpose:

This *NET ENERGY METERING APPLICATION AND INTERCONNECTION AGREEMENT FOR CUSTOMERS WITH SOLAR AND/OR WIND ELECTRIC GENERATING FACILITIES OF 30 KW OR LESS* ("Agreement") applies to electric rate schedule NEM, Net Energy Metering Service (NEM) for Customer-Generators ("Customer") who interconnect a solar and/or wind turbine electrical Generating Facility, or a hybrid system of both, with an aggregate capacity of 30 kilowatts (kW) or less that is located on Customer's premises, and that operates in parallel with Pacific Gas and Electric Company's ("PG&E") Distribution System.

The purpose of this Agreement is to allow Customer to interconnect with PG&E's Distribution System, subject to the provisions of this Agreement and PG&E's rate schedule NEM. Customer has elected to interconnect and operate its solar and/or wind electric Generating Facility in parallel with PG&E's Distribution System, primarily to offset part or all of the Customer's own electrical requirements at this service point. Customer shall at all times comply with this Agreement as well as with all applicable laws, tariffs and applicable requirements of the Public Utilities Commission of the State of California.

B. Description of Service (This Agreement is being filed for, check all that apply):

- A New NEM Generating Facility interconnection (at an existing service)
- For Physical Changes to an interconnected Generating Facility with previous approval by PG&E (adding PV panels, changing inverters/turbines or changing load and/or operations).
- A New interconnection in conjunction with a new service
 - An **Application for Service** must be completed. Additional fees may be required if a service or line extension is required (in accordance with PG&E Electric Rules 15 and 16). Please contact PG&E at 1-800-PGE-5000.
- An Interconnection under Direct Access (DA)
 - Customers applying for NEM who are served under **Direct Access** by an Energy Service Provider (ESP) must contact their ESP directly for information regarding the ESP's net energy metering program.
- An Interconnection under Community Choice Aggregation Service (CCA Service)
 - Customers applying for NEM who are served under Community Choice Aggregation Service by an Community Choice Aggregator (CCA) must contact their CCA directly for information regarding the CCA's net energy metering program.
- An interconnected non-exporting Generating Facility (load always exceeds generation)

Please complete this agreement in its entirety

- For Customers with a non-exporting Generating Facility, Form 79-974 may be more appropriate. Form 79-974 may be found at <http://www.pge.com/tariffs/pdf/E79-974.pdf>

C. Customer Generating Facility Information - Where will the Generating Facility be installed?

Name shown on PG&E service account (Must Match Customer Name on PG&E Blue Bill)		Account Number	Meter Number (Meter Badge ID)
Street Address			
City		State	Zip
Mailing Address			
City		State	Zip
Business Phone	Home Phone	Fax	Email

D. Contractor Information (Must be completed even if Contractor will not serve as a PG&E contact).

Contractor		Company Name	
Mailing Address			
City		State	Zip
Business Phone		Fax	Email
<input type="checkbox"/> This contractor is to be used as PG&E contact and is authorized by Customer to receive confidential Customer information and act on behalf of Customer with respect to this agreement.			

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

Contact Person		Company Name	
Mailing Address			
City		State	Zip
Business Phone		Fax	Email
<input type="checkbox"/> This contact person is to be used as PG&E contact and is authorized by Customer to receive confidential Customer information and act on behalf of Customer with respect to this agreement.			

Please complete this agreement in its entirety

By checking the boxes above and signing this agreement, Customer authorizes PG&E to release information to the contact(s) named above regarding Customer's usage and billing information, Generating Facility location, size and operational characteristics as requested in the course of this interconnection process. PG&E is granted permission to share information with authorized recipients for a period of **three years** from the date this agreement is received by PG&E. Contacts(s) are also authorized to make changes to rates and metering arrangements which may result in charges to Customer.

In addition, Customer authorizes PG&E to release to the California Energy Commission (CEC) information regarding Customer's facility, including customer name and Generating Facility location, size, and operational characteristics, as requested from time to time pursuant to the CEC's rules and regulations.

Part II – Requirements for Interconnection

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

Permission to Interconnect

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

Safe Operation of your Generating Facility

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

Interconnections on PG&E's Secondary Network

Applications to interconnect systems located in San Francisco or Oakland may require additional analysis to determine whether or not their proposed installation is on PG&E's networked secondary system. Networked secondary systems are in place to provide heightened levels of reliability in densely populated areas and may affect the ability of PG&E to interconnect NEM customers. **Please contact Generation Interconnection Services at 415-972-5676 or email gen@pge.com if your proposed installation is in San Francisco or Oakland.**

Meter Access

Following your bi-directional meter installation, your meter must be installed in a safe PG&E-accessible location and remain unobstructed by locked gates or pets. Additionally, meter access must be maintained at all times for meter reading and system maintenance. Any animals owned by the customer, including pet dogs, should not have access to these areas to avoid hindering PG&E service personnel from completing their work.

Document and Fee Requirements

Other Documents and/or Fees *may* be required and there may be requirements for interconnection in addition to the above list, depending on the specifics of the planned Generating Facility. Other approvals and/or other agreements may be needed for special PG&E programs or regulatory agency requirements.

Stale Agreements

If this agreement is still pending two years from its date of submittal and customer has not met all of the requirements, PG&E will close this application and Customer will be required to submit a new application should Customer wish to take service on Schedule NEM.

A. Agreement Package:

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

Please complete this agreement in its entirety

Required Documents for New Applicants:

1. A completed copy of this **Agreement**. **Please note:** the Customer name (as identified in Part I, Section C) must be the same name as on the PG&E bill. In this Agreement, Customer will confirm their otherwise-applicable rate schedule (OAS), establishing how Customer's monthly usage or net generation will be charged/credited. Customer-initiated rate changes are governed in accordance with PG&E's Electric Rule 12.
2. A **single-line diagram** showing Customer's actual installation of his/her Generating Facility. The diagram must include the electrical rating and operating voltages of the significant electrical components such as the service panel, the disconnect switch (if required), inverters, all wind and/or photovoltaic generators, circuit breakers and other protective devices of the Generating Facility, the general location of the Customer's loads relative to the Generating Facility, and the interconnection with PG&E's Distribution System. The diagram must include the following information:
 - A. A description and location of the visible, lockable **AC disconnect switch** if present.

Effective November 21, 2006, customers installing inverter-based systems will no longer be required to include an AC disconnect switch when the facility has a self-contained electric revenue meter (i.e. 0-320 amp socket-based meters or 400 amp K-based meters). This type of meter is used by 98% of all PG&E customers.

To accommodate this change while maintaining utility operating needs, the revenue meter, when appropriate, may be temporarily removed by PG&E to isolate the customer's generator from the electric distribution system. Removal of the revenue meter (due to an emergency or maintenance on PG&E's system) will result in loss of electrical service to the customer's facility or residence.

PG&E recommends that customers installing an inverter-based generator consider also installing an AC disconnect switch to facilitate maintenance of the customer's equipment (i.e. inverter, PV arrays, etc). The AC disconnect switch provides the additional benefit of allowing PG&E to isolate the customer's generator from the utility's Distribution System without having to interrupt service to the customer's facility or residence.

PG&E's AC disconnect requirement for Distributed Energy Resources (Distributed Generation) will continue to apply to:

- Inverter-based interconnections having a transformer-rated meter (i.e. all meter panels or switchboards employing the use of potential and current transformers).
 - Non-inverter based generators, including rotating or machine-based generators - irrespective of whether the service meter configuration is transformer-rated or self-contained.
- B. A description of the specific **inverter(s)** used to control the interconnection between PG&E and the Generating Facility, including rating, brand name, and model number. CEC-certified inverters¹ will pass the requirements for Simplified Interconnection per PG&E's Electric Rule 21. Non-certified units will require further study and may involve additional costs.
 - C. A complete description of the **generating equipment Customer plans to install**. If the Generating Facility includes photovoltaic panels, the description must include the manufacturer name, model number, number of panels, and the nameplate rating. If the Generating Facility includes a wind turbine, the description must include the manufacturer name, model number, number of turbines, and the nameplate rating. Only CEC-certified inverters and certified wind-turbine generators without separate inverters will pass the requirements for Simplified Interconnection. (See the PG&E website <http://www.pge.com/gen> or the CEC website at: www.aaa.com<http://www.consumerenergycenter.org/erprebate/equipment.html>)
 - D. A description of how the power output from the inverter is connected to the **main service panel via a branch breaker**. The ampere rating of this branch breaker and the main service panel breaker must be compatible with the output rating of the Generating Facility. The output rating is computed based on the total nameplate rating of the inverter.
 - E. If such metering is required, a complete description of the **performance (generation output) meter and related equipment**. The description must include the meter manufacturer, model number and type (socket or panel), as well

¹ The CEC's eligible inverter list can be found at; (http://www.consumerenergycenter.org/erprebate/eligible_inverters.html)

as any other relevant information (e.g., socket, panels, breakers, etc.). If instrument transformers are required, the description should include this information.

3. Information Regarding any existing **insurance coverage** (liability and/or property) for the Schedule-NEM Generating Facility location.

Customer shall meet all applicable safety and performance standards established by the National Electrical Code, the Institute of Electrical and Electronics Engineers, accredited testing laboratories such as Underwriters Laboratories and, where applicable, rules of the California Public Utilities Commission regarding safety and reliability. A Customer with a solar or wind-turbine electrical generating system, or a hybrid system of both, that meets those standards and rules shall not be required to install additional controls, perform or pay for additional tests, or purchase additional liability insurance.

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

- I have insurance. I hereby certify that there is presently insurance coverage in the amount of \$_____ for the Schedule-NEM Generating Facility location.

Insuring Company's Name: _____

Insurance Policy # _____

- I **do not** have insurance. I hereby certify that there is presently \$0 (zero) dollars of insurance for the Schedule-NEM Generating Facility location

4. A copy of the **final, signed, jurisdictional approval (building permit) for Customer's Generating Facility** from the local government entity with jurisdiction over the Customer's project. **Customer's agreement package will not be complete until PG&E receives this document.** Once PG&E receives the final building permit, PG&E will contact Customer to schedule an on-site inspection and, if required, bi-directional meter installation.

B. Internet Agreement Forms

If this Agreement has been completed on PG&E's website, it may be automatically submitted via that system. Copies or forms requiring a signature, attachments and any applicable fees described in Part II must be mailed to PG&E at the address noted in Section IV (E), Notices.

Part III – General Facility and Rate Information

A. What applicable **Rate Schedule** have you selected for your NEM account (known as your “otherwise applicable rate schedule” or “OAS”)?

RESIDENTIAL:

- E-1 – Non-Time-of-Use Residential Service
- E-6 – Residential Time-of-Use Service
- E-7 – Residential Time-of-Use Service²
- E-9 – Experimental Residential Time-of-Use for Low Emission Vehicle Customers³
- Other (_____)

SMALL COMMERCIAL

- A-1 – Small General Non-Time-of-Use Service
- A-6 – Small General Time-of-Use Service
- A-10 - Medium General Demand-Metered Service
- Other (_____)

AGRICULTURAL

- AG-1 – Agricultural Power
- AG-R – Split-Week Time-of-Use Agricultural Power
- AG-V – Short-Peak Time-of-Use Agricultural Power
- AG-4 – Time-of-Use Agricultural Power
- AG-5 - Large Time-of-Use Agricultural Power

Historical electrical rate information may be found at: <http://www.pge.com/nots/rates/tariffs/rateinfo.shtml>, and current electric rate schedules may be found at: <http://www.pge.com/tariffs/ERS.SHTML#ERS>.

Depending on Customer’s rate schedule and metering arrangement, an installation fee and/or reprogramming fee may be required to provide net energy metering.

Customer initially selects PG&E’s electric rate schedule referenced in Part III.A (above) of this Agreement as its otherwise-applicable rate schedule. Customer understands that they will be billed according to the otherwise-applicable rate schedule and Schedule NEM.

For further information on understanding NEM billing, please go to the ‘related docs’ section of PG&E’s Net Energy Metering website at: www.pge.com/standardnem.

²Pursuant to 2003 GRC Phase 2 Decision 05-11-005, the E-7 rate schedule was closed to all new customers on May 1, 2006, but was subsequently temporarily reopened on January 1, 2007 only to new solar customers satisfying the conditions in Decision 06-12-025. This schedule was closed to new solar customers as of January 1, 2008, except that solar customers requesting service under this rate schedule prior to January 1, 2008, may begin taking this service between January 1, 2008 and June 30, 2008, up to the maximum number of new solar customers established by D.06 12 025. Availability of this option will be determined in the order the request was received in either the PG&E Interconnection Application or in the PG&E California Solar Initiative Application, and additionally, after June 1, 2008, based on the date the customer is ready to interconnect. Otherwise, E-7 NEM service is available only to qualifying customers who have continuously taken service on E-7 since December 31, 2007 or earlier.

³ If customer selects **Schedule E-9**, the **Experimental Rate for Low Emission Vehicles** as the otherwise-applicable rate, a **Schedule E-9 Application** will need to be completed and signed.

Please complete this agreement in its entirety

B. Will this account be established in a new **subdivision**?

- Yes **If yes**, who is the developer? _____
 No

C. Will an electric **vehicle** recharging facility be included as part of the load at this location?

- Yes
 If yes, will the vehicle recharging facility be separately metered from the residence?
 Yes
 No
 No

D. Expected **date** of Project Completion and PG&E Receipt of Final, Signed-Off Building Permit for Generating Facility?

Date: _____

E. Are there any other generators connected on this account?

- Yes
 If yes, specify what kind of generator _____
 No

F. Are there any possible meter access issues?

- Yes
 Dog at Residence
 Locked Gate
 Meter located inside of facility/residence
 Other (Please explain) _____
 No

A. AC Disconnect Switch

List the disconnect switch that will be used at this Generating Facility (Enter “N/A” if not applicable).

Disconnect Switch Manufacturer	Disconnect Switch Model Number	Disconnect Switch Rating (amps)

B. Inverters interconnected with PG&E

List all the inverters that will be interconnected to PG&E.

Customers with non-standard inverters which do not meet the UL and IEEE requirements specified in Electric Rule 21, or Customers whose aggregate Generating Facility capacity exceeds 15% of the peak load on the distribution line section as described in Electric Rule 21 (Section I.6.) require a **Supplemental Review** which may entail a study, additional equipment, and/or other requirements.

No.	Inverter Manufacturer	Inverter Model Number	Inverter Rating (kW) ⁴	Quantity of Inverters	Inverter Output Voltage	Single or Three phase?
1						
2						

C. Photovoltaic Generator Equipment

List the photovoltaic (PV) panel information requested below. If the panels are not all identical modules, list the total capacity connected to each inverter you listed above. (Please attach additional sheets if more space is needed.)

No.	PV Panel Manufacturer	PV Panel Model	PV Panel Rating ³ (kW)	Quantity of PV Panels	Total Capacity (kW) ⁴	Inverter number from (B) above (1 or 2)
1						
2						

D. Wind Turbine Equipment

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

No.	Wind Turbine Manufacturer	Wind Turbine Model	Wind Turbine Rating ⁴ (kW)	Quantity of Wind Turbines	Total Capacity (kW) ⁴	Inverter number from (B) above (1 or 2)	Turbine Output Voltage	Single or Three Phase
1								

⁴ The inverter rating equals the nameplate rating, in kW, of each inverter. The CEC efficiency is obtained the CEC website at http://www.consumerenergycenter.org/erprebate/eligible_inverters.html as listed on the date the application is reviewed. Enter the total of all inverter ratings for multiple inverter installations in the Table above.

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

E. Notices - Mailing Instructions and Assistance:

When this agreement has been completed it should be mailed, along with the required attachments and any applicable fees, to:

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

Phone calls and questions may be directed to the Generation Interconnection Services hotline at: 415-972-5676 or email gen@pge.com

GOVERNING LAW

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

TERM OF AGREEMENT

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

GOVERNING AUTHORITY

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

Customer Name (Please Print): _____

(Signature): _____ Date: _____

Title: _____

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

Please complete this agreement in its entirety

TABLE OF CONTENTS

**Rate Schedules
 Other**

SCHEDULE	TITLE OF SHEET	CAL P.U.C. SHEET NO.
S	Standby Service	25424, 26071-26072, 24909-24910, 26823-26824, 16203, 24912, 16205, 26825-26826, 25501-E
E-DCG	DCG Departing Customer Generation, CG	25121, 23247, 23667, 25122-25123, 25124, 23252-23255-E
E-DEPART	Departing Customers	23235-E
E-NMDL	New Municipal Departing Load	26698-26699, 26699*-26701, 26701*-26702*, 26702-26703, 26703*-26704*, 26704-26707, 26707*-26708*, 26708-E
E-LORMS	Limited Optional Remote Metering Services	20194-E
E-RRB	Rate Reduction Bonds Bill Credit and Fixed Transition Amount Charge.....	22296, 22227-E
E-SDL	Split-Wheeling Departing Load	25125-25127, 24622-24626-E
E-TMDL	Transferred Municipal Departing Load.....	25880-25891-E
NEM	Net Energy Metering Service.....	27236 , 26525, 27237-27238 , 27239-27240 , 27241-27242 , 27243-27244-E (T)
NEMFC	Net Energy Metering Service For Fuel Cell Customer-Generators	27248-27249 , 27250-27251 , 21481-21482, 23614-E (T)
NEMBO	Net Energy Metering Service for Biogas Customer-Generators..	27253-27254 , 27255 , 22677, 27256 , 23615-E (T)
E-ERA	Energy Rate Adjustments	26073-26075, 24216, 26076-E
TBCC	Transitional Bundled Commodity Cost.....	25523, 26688, 26688*, 22991, 21207, 20994, 20995-E
E-CS	ClimateSmart	26317-26318-E

**Rate Schedules
 Agricultural**

AG-1	Agricultural Power	26203, 26078, 25321, 24221, 24222-24223, 25504, 25425-E
AG-R	Split-Week Time-of-Use Agricultural Power	25905-25906, 26079-26080, 24923, 25987, 24230, 25505, 25426-E
AG-V	Short-Peak Time-of-Use Agricultural Power	25907-25908, 26081-26082, 24928, 25988, 24237-24239, 25506, 25427-E
AG-4	Time-of-Use Agricultural Power	25909-25910, 26083-26085, 24935, 25989, 24936, 24248-24249, 25507, 25428-E
AG-5	Large Time-of-Use Agricultural Power	25911-25912, 26086-26088, 24942, 25990, 25990, 24257-24259, 25508, 25429-E
AG-ICE	Agricultural Internal Combustion Engine Conversion Incentive Rate	25913, 25870, 23645, 26089, 25991, 25991, 23648-23649-E

TABLE OF CONTENTS

**Sample Forms
 Rule 19 Medical Baseline Quantities**

SCHEDULE	TITLE OF SHEET	CAL P.U.C. SHEET NO.
61-0502	Medical Baseline Allowance Self Certification.....	18977-E
62-3481	Declaration of Eligibility for a Standard Medical Baseline Quantity	18978-E

**Sample Forms
 Rules 19.1, 19.2, and 19.3 California Alternative Rates for Energy**

01-9077	Application for Residential Single-Family Customers.....	26343-E
01-9285	Application for Tenants of Sub-metered Facilities	26344-E
03-006	Postage Paid Application	21626-E
62-0156	Application for Qualified Nonprofit Group-Living Facilities	26345-E
62-1198	Application for Qualified Agricultural Employee Housing Facilities.....	26346-E
62-1477	Income Guidelines	26347-E
61-0535	Application for Migrant Farm Worker Housing Centers	26348-E
61-0522	Application for Farm Workers Residential Single Family.....	23977-E

**Sample Forms
 Rule 21 Generating Facility Interconnections**

79-280	Agreement for Installation or Allocation of Special Facilities for Parallel Operation of Nonutility-Owned Generation and/or Electrical Standby Service	11581-E
79-702	Appendix to Form 79-280 - Detail of Special Facilities Charges	11582-E
79-973	Generating Facility Interconnection Agreement	26478-E
79-1070	Addendum to Form 79-973 -- Export Addendum for Inverter Based Solar and Wind Generators Sized 1 MW or Less	24333-E
79-974	Generating Facility Interconnection Application	27259-E (T)
79-988	Generating Facility Interconnection Agreement Third Party Non-Exporting.....	18918-E
79-992	Generating Facility Interconnection Agreement Third Party Generation or Premise Non- Exporting.....	18919-E

**Sample Forms
 Rule 22 Direct Access Services**

79-948	Energy Service Provider (ESP) Service Agreement.....	14948-E
--------	--	---------

TABLE OF CONTENTS

**Sample Forms
 Residential Family Electric Rate Assistance**

SCHEDULE	TITLE OF SHEET	CAL P.U.C. SHEET NO.
62-0972	Application for Residential Single-Family Customers (Chinese)	26349-E
62-0973	Application for Residential Single-Family Customers (Vietnamese).....	26350-E
62-0939	CARE Residential Single-Family Pre-printed Instruction.....	26351-E
62-0919	CARE Residential Single-Family Pre-printed Application.....	26352-E
62-0940	CARE Residential Single-Family Recertification Instruction.....	26353-E
62-1509	CARE Residential Single-Family Recertification	26354-E
62-0672	Application for Tenants of Sub-metered Facilities (Chinese)	26355-E
62-0673	Application for Tenants of Sub-metered Facilities (Vietnamese).....	26356-E
79-1051	Large Print - Application for Residential Single-Family Customers (English)	26357-E
79-1052	Large Print - Application for Residential Single-Family Customers (Spanish)	26358-E
79-1053	Large Print - Application for Residential Single-Family Customers (Chinese).....	26359-E
79-1054	Large Print - Application for Residential Single-Family Customers (Vietnamese)	26360-E
79-1055	Large Print - Application for Tenants of Sub-Metered Facilities (English)	26361-E
79-1056	Large Print - Application for Tenants of Sub-Metered Facilities (Spanish)	26362-E
79-1057	Large Print - Application for Tenants of Sub-Metered Facilities (Chinese).....	26363-E
79-1058	Large Print - Application for Tenants of Sub-Metered Facilities (Vietnamese)	26364-E
79-1059	Large Print - CARE Income Guidelines.....	26365-E
62-1415	Application for Residential Single-Family Customers (English/Vietnamese).....	DELETE-E
62-1418	Application for Residential Single-Family Customers (English/Spanish)	24998-E
62-1419	Application for Residential Single-Family Customers (English/Chinese).....	DELETE-E
62-1420	Application for Tenants of Sub-Metered Facilities (English/Chinese).....	25000-E
62-1422	Application for Tenants of Sub-Metered Facilities (English/Spanish)	DELETE-E
62-1423	Application for Tenants of Sub-Metered Facilities (English/Vietnamese)	25002-E
79-1060	Large Print - Application for Residential Single-Family Customers (English)	DELETE-E
79-1061	Large Print - Application for Residential Single-Family Customers (Spanish)	25004-E
79-1062	Large Print - Application for Residential Single-Family Customers (Chinese).....	DELETE-E
79-1063	Large Print - Application for Residential Single-Family Customers (Vietnamese)	25006-E
79-1064	Large Print - Application for Tenants of Sub-Metered Facilities (English)	DELETE-E
79-1065	Large Print - Application for Tenants of Sub-Metered Facilities (Spanish)	25008-E
79-1066	Large Print - Application for Tenants of Sub-Metered Facilities (Chinese).....	DELETE-E
79-1067	Large Print - Application for Tenants of Sub-Metered Facilities (Vietnamese)	25010-E
61-0523	FERA Residential Single Family Pre-printed Application	DELETE-E
62-0524	FERA Residential Single Family Pre-printed Application Instruction.....	25012-E
79-1072	FERA Residential Single Family Recertification Instruction	26366-E
79-1073	FERA Residential Single Family Recertification.....	26367-E

TABLE OF CONTENTS

**Sample Forms
 Net Energy Metering**

SCHEDULE	TITLE OF SHEET	CAL P.U.C. SHEET NO.
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 30 kW or less	27260-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 Qualifying Biogas Digester Generating Facilities	22697-E
79-998	Expanded Net Energy Metering (E-Net) Supplemental Application	22698-E
79-999	Agreement for Limited Optional Remote Metering Service	20195-E

(T)

TABLE OF CONTENTS

**Sample Forms
 Net Energy Metering**

SCHEDULE	TITLE OF SHEET	CAL P.U.C. SHEET NO.
79-1101	Net Energy Metering Application and Interconnection Agreement for Customers with Solar and/or Wind Electric Generating Facilities of 30 Kilowatts or Less	(T) 27261-E

**Sample Forms
 Street, Highway, and Area Lighting**

62-4509	Agreement for Street and Highway Lighting Customer-Owned Electrolier System	26261-E
62-4510	Agreement for Street and Highway Lighting (Overhead Service).....	26262-E
62-4908	Outdoor Lighting Agreement	26263-E
79-938	Customer-Owned Streetlights Pacific Gas and Electric Company Pole Contract Agreement ...	11568-E
79-1048	Agreement for Unmetered Low Wattage Equipment Connected to Customer-Owned Street Light Facilities	24633-E
79-1078	Agreement for Unmetered Electric Service to Wireless Devices Energized by Connection to Pacific Gas and Electric Company Street Light Facilities	25450-E

**Sample Forms
 Commercial, Industrial, and Agricultural**

M62-1491	Summary Billing Agreement.....	14319-E
79-244	Contract for Electric Service - Time Metered	13655-E
79-724	Supplemental Agreement for Optional Non-firm Electric Service	25159-E
79-724-A	Supplemental Agreement for Optional Curtailable or Interruptible Electric Service	DELETE-E
79-743	Agreement for Optional Time-of-Use Service to Water Agencies	13656-E
79-758	Agreement for Maximum Demand Adjustment for Energy Efficiency Measures	11632-E
79-759	Supplemental Agreement for As-Available Capacity	11732-E
79-770	Customer Application Citrus Producers Utility Bill Deferral Program.....	16252-E
79-785	Agreement for Voluntary Nonfirm Bidding Pilot Service	13107-E
79-786	Agreement for Voluntary Local Nonfirm Bidding Pilot Service	DELETE-E
79-842	Optimal Billing Period Service Customer Election Form	16545-E

**Sample Forms
 Standby**

79-285	Special Agreement for Electrical Standby Service (Schedule S)	25065-E
79-726	Electric Standby Service Log Sheet (Schedule S)	11484-E

TABLE OF CONTENTS

Table of Contents

SCHEDULE	TITLE OF SHEET	CAL P.U.C. SHEET NO.	
Title Page	.....	27060-E	
Rate Schedules	.....26722, 27059, 27262, 27262 ,	26573-E	(T)
Preliminary Statements	.....26738, 26712, 26739, 26382-E		
Rules	.....	26568-E	
Maps, Contracts and Deviations	.....	26322-E	
Sample Forms	.....26569, 27263-27264, 27265 , 25876, 26294, 26686, 25961-E		(T)

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

ABAG Power Pool	Douglass & Liddell	PG&E National Energy Group
Accent Energy	Downey, Brand, Seymour & Rohwer	Pinnacle CNG Company
Aglet Consumer Alliance	Duke Energy	PITCO
Agnews Developmental Center	Duke Energy North America	Plurimi, Inc.
Ahmed, Ali	Duncan, Virgil E.	PPL EnergyPlus, LLC
Alcantar & Kahl	Dutcher, John	Praxair, Inc.
Ancillary Services Coalition	Dynergy Inc.	Price, Roy
Anderson Donovan & Poole P.C.	Ellison Schneider	Product Development Dept
Applied Power Technologies	Energy Law Group LLP	R. M. Hairston & Company
APS Energy Services Co Inc	Energy Management Services, LLC	R. W. Beck & Associates
Arter & Hadden LLP	Exelon Energy Ohio, Inc	Recon Research
Avista Corp	Exeter Associates	Regional Cogeneration Service
Barkovich & Yap, Inc.	Foster Farms	RMC Lonestar
BART	Foster, Wheeler, Martinez	Sacramento Municipal Utility District
Bartle Wells Associates	Franciscan Mobilehome	SCD Energy Solutions
Blue Ridge Gas	Future Resources Associates, Inc	Seattle City Light
Bohannon Development Co	G. A. Krause & Assoc	Sempra
BP Energy Company	Gas Transmission Northwest Corporation	Sempra Energy
Braun & Associates	GLJ Energy Publications	Sequoia Union HS Dist
C & H Sugar Co.	Goodin, MacBride, Squeri, Schlotz &	SESCO
CA Bldg Industry Association	Hanna & Morton	Sierra Pacific Power Company
CA Cotton Ginners & Growers Assoc.	Heeg, Peggy A.	Silicon Valley Power
CA League of Food Processors	Hitachi Global Storage Technologies	Smurfit Stone Container Corp
CA Water Service Group	Hogan Manufacturing, Inc	Southern California Edison
California Energy Commission	House, Lon	SPURR
California Farm Bureau Federation	Imperial Irrigation District	St. Paul Assoc
California Gas Acquisition Svcs	Integrated Utility Consulting Group	Sutherland, Asbill & Brennan
California ISO	International Power Technology	Tabors Caramanis & Associates
Calpine	Interstate Gas Services, Inc.	Tecogen, Inc
Calpine Corp	IUCG/Sunshine Design LLC	TFS Energy
Calpine Gilroy Cogen	J. R. Wood, Inc	Transcanada
Cambridge Energy Research Assoc	JTM, Inc	Turlock Irrigation District
Cameron McKenna	Luce, Forward, Hamilton & Scripps	U S Borax, Inc
Cardinal Cogen	Manatt, Phelps & Phillips	United Cogen Inc.
Cellnet Data Systems	Marcus, David	URM Groups
Chevron Texaco	Matthew V. Brady & Associates	Utility Resource Network
Chevron USA Production Co.	Maynor, Donald H.	Wellhead Electric Company
City of Glendale	MBMC, Inc.	White & Case
City of Healdsburg	McKenzie & Assoc	WMA
City of Palo Alto	McKenzie & Associates	
City of Redding	Meek, Daniel W.	
CLECA Law Office	Mirant California, LLC	
Commerce Energy	Modesto Irrigation Dist	
Constellation New Energy	Morrison & Foerster	
CPUC	Morse Richard Weisenmiller & Assoc.	
Cross Border Inc	Navigant Consulting	
Crossborder Inc	New United Motor Mfg, Inc	
CSC Energy Services	Norris & Wong Associates	
Davis, Wright, Tremaine LLP	North Coast Solar Resources	
Defense Fuel Support Center	Northern California Power Agency	
Department of the Army	Office of Energy Assessments	
Department of Water & Power City	OnGrid Solar	
DGS Natural Gas Services	Palo Alto Muni Utilities	