

PUBLIC UTILITIES COMMISSION

505 VAN NESS AVENUE
SAN FRANCISCO, CA 94102-3298



May 2, 2007

Advice Letter 2888-E-A

Rose de la Torre
Pacific Gas & Electric
77 Beale Street, Room 1088
Mail Code B10C
San Francisco, CA 94105

Subject: Supplement – Net Energy Metering Compliance Filing Pursuant to Resolution E-3992

Dear Ms. de la Torre:

Advice Letter 2888-E-A is effective August 21, 2006. This supplement supersedes Advice Letter 2888-E and 2793-E. Copies of these three advice letters are returned herewith for your records.

If you have any questions regarding this approval letter, please contact the assigned analyst, Werner Blumer at (415) 703-1421 or via e-mail at wmb@cpuc.ca.gov.

Sincerely,

Sean H. Gallagher, Director
Energy Division

REGULATORY RELATIONS	
M Brown Tariffs Section	D Poster
R Deia Torre	M Hughes
B Lam	
MAY 7 2007	
Return to _____	Records File _____
cc to _____	



Brian K. Cherry
Vice President
Regulatory Relations

77 Beale Street, Room 1087
San Francisco, CA 94105

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August 21, 2006

Advice 2888-E

(Pacific Gas and Electric Company ID U 39 E)

Subject: Net Energy Metering Compliance Filing Pursuant to Resolution E- 3992:

Revised Electric Rate Schedules NEM, NEMBIO, NEMFC, S (Standby) Electric Rule 21, and Electric Rule 21's Generating Facility Interconnection Application (Form 79-974), and a new Electric Rule 21 interconnection agreement: Generating Facility Interconnection Agreement (Eligible/Non-Eligible Net Generating Facility Export) (Form 79-1069) to accommodate Single Customer Accounts Interconnecting Multiple Generators Subject to different Tariff Treatment pursuant to Resolution E-3992

Public Utilities Commission of the State of California

Pacific Gas and Electric Company (PG&E) hereby submits for filing to its electric tariffs revised Electric Rate Schedules: **NEM** – *Net Energy Metering Service*, **NEMBIO** – *Net Energy Metering Service for Biogas Customer-Generator*, **NEMFC** – *Net Energy Metering Service for Fuel Cell Customer-Generators*, **S** – *Standby Service*, along with the revised: **Electric Rule 21** – *Generating Facility Interconnections*. Also included is a New Interconnection Agreement **79-1069** – *PG&E Generating Facility Interconnection Agreement (Eligible /Non-eligible Net Generating Facility Export)* and a revised **79-974** – *Generating Facility Interconnection Application*. The proposed tariff sheets are listed on the enclosed Attachment I.

Purpose

The purpose of this filing is to revise existing electric rate schedules and electric rules as provided for in the ordering language of Resolution E-3992. This revision are being made for customers seeking to interconnect multiple tariff generators at a single point of common coupling (PCC), all of which would not normally be subject to the same rate treatment, and where at least one is eligible for a net energy metering tariff.

Background

Net energy metering (NEM) customers receive many benefits under PG&E's Commission approved net-energy-metering rate schedules: NEM-S, NEM-BIO, and NEM-FC. However, Public Utilities Code Section 2827 does not address a customer who installs an eligible NEM generator with other generators that do not qualify for net energy metering (non-NEM). . It also does not address how generators of different net energy metering tariffs are to be combined.

The Commission originally addressed this issue in principle in Decision (D.) 03-02-068 which provides that "integrated use of nonrenewable energy sources [does not exclude] eligible renewable generation connected to the same service account from net metering." The Commission further noted, "the ineligible generator does not become eligible for net metering due to the combined configuration." To ensure that non-NEM generation does not receive the same treatment as NEM generation, the Commission stated that the use of a reverse power relay to ensure that power is not fed back into the utility grid, could provide adequate assurance that a nonrenewable generation system, even when connected to the same service account as the eligible renewable generator, would not export electricity.

Subsequently, the Rule 21 Working Group discussed these issues and on February 16, 2005 issued its *Recommended Changes to Interconnected Rules Report*.

Based in part on these recommendations, the Commission on August 25, 2005, as part of Rulemaking R 04-03-017, issued Decision (D.) 05-08-013 *Interim Opinion Adopting Changes In Interconnecting Rules for Distributed Generation*. In the decision, the Commission notes, "We will adopt the CEC's recommendation with three protections:

"With regard to DG facilities that include a NEM eligible generator and a generator that does not qualify for net energy metering (non-NEM):

- 1) any energy generated by the renewable DG that exceeds the customer's annual energy usage will not be compensated as renewable DG;
- 2) in no event will non-net metering generators receive credits designed for NEM projects; and
- 3) any DG owner operating under two tariffs must install at its cost individual meters or breakers that prevent the export from the non-net metering generator. Otherwise, for DG facilities that operate under two tariffs applicable to different technologies, utility tariffs should prohibit any provision or methodology that prevents export from an NEM generator even if the non-NEM generator is operating."

On February 27, 2006, PG&E submitted its compliance filing in Advice Letter 2793-E. In the filing, PG&E presented a new rate schedule called NEMCT, and proposed an crediting method based on ration of NEM-eligible to total generation

when non-NEM eligible generation was involved and exporting. The other Independently Owned Utilities (IOUs) filed similar tariffs also based on a pro-ration methodology.

A protest to PG&E's and the other IOU's Advice Letters were received from the City of San Diego (City) on March 13, 2006. SDG&E's advice letter was protested two days late by the Commission's Division of Ratepayer Advocates (DRA) on March 22, 2006. Both protested the pro-rating method and favored an alternative method called Stacking, whereby in the Commission's words, "The 'green' energy is preferred or 'stacked' over the 'non-green' energy from the grid. The 'green' credit is deducted first (in the stack) from his consumption charge over 12 months." PG&E responded to City's and DRA's protests on March 27, 2006.

The Commission sent out a DRAFT Resolution E-3992 and reply comments from PG&E were sent to the Commission on May 8, 2006. .

A second DRAFT Resolution E-3992 was issued and shortly thereafter on July 20, 2006, Resolution E-2992 became final. In summary, the Resolution ordered the proposed NEMCT tariff shall be eliminated from PG&E's earlier Advice Letter 2793-E and language should be added to the existing NEM, NEMBIO and NEMFC, Standby tariffs and Electric Rule 21 (from Ordering Paragraph 1),

Specifically, in the NEM, NEMBIO and NEMFC tariffs PG&E is ordered to replace the pro-ration methodology by stacking methodology (Ordering Paragraph 1), "which 'stacks' the energy exported from NEM-eligible generators over the energy exported from nonNEM-eligible generators on the same account." (Finding of Fact 1) NEM-eligible generator capacity on one account is to be limited to a total 1 MW (Ordering Paragraph 2, bullet 4). PG&E's original proposal on prioritizing how NEM energy export credits are applied under multiple tariffs (ascribing credit first from retail generators, then from "generation component" generators, etc.), is to be deleted (Ordering Paragraph 6). Existing NEM tariffs are to be amended to state that "energy credits cannot be used on aggregated accounts of the GF unless generated by dairy Biogas generators" (Ordering Paragraph 6). The NEM tariffs can only require a single NGOM for each group of multiple NEM-eligible generators (Ordering Paragraph 2, bullet 1) and a NGOM on the NEM-eligible generator group and/or a load meter may be required if a non-NEM-eligible generator group is connected on the same service account without a non-export relay (Ordering Paragraph 2, bullet 2).

With regards to the interconnection application and agreement for arrangements of different generators, Finding of fact 15 states, "a single interconnection agreement for multiple GFs is preferred, in order to avoid duplication and contradictions and that it "be revised to reference the technical data in the Applications for Interconnection, and shall incorporate any changes and Appendices required for GFs with multiple NEM-eligible and/or non-eligible generators" (Ordering

Paragraph 7). It should contain all provisions of the existing NEM agreements.” Specifically, Ordering Paragraph 2 requires that liability insurance requirements be per PUC 2827, and that for non-NEM-eligible generators, the insurance provisions apply to the aggregate capacity of all generators on a single account.

With regards to the metering section of Rule 21, the requirement for NGOMs at the non-NEM-eligible generators shall be deleted, unless required for OAS, operational purposes or with a power purchase agreement. PG&E should also revise Rule 21, Section F to “contain all three NGOM options (1) Interval meter as proposed; (2) Alternate reversible or bi-directional meter option per Finding 15; (3) Customer-selected option per Finding 15 for energy-only credit from a group of NEM-eligible generators metered by a NGOM.”(Ordering Paragraph 5) Additionally, PG&E should revise Section F.3 “to make the proposed option in PG&E AL 2792-E for Rule 22 NGOM requirements applicable to NEM-eligible generators in a GF under multiple tariffs, as stated in the Decision Summary” (Ordering Paragraph 3). Finally, PG&E will make Rule 21, Section I “refer to Section F for NGOM requirements in GFs comprising non-NEM-eligible generators without non-export relay.” (Ordering Paragraph 4)

With regards to the cost allocations for interconnection studies and distribution system modifications, PG&E must revise its tariffs to comply with D.02-03-057, D. 03-02-068 and D. 05-08-013. (Ordering Paragraph 4)

PG&E’s Schedule S—Standby is to be made consistent with the resolution. (Ordering Paragraph 8)

The order requires that terminology “be accurate and uniform within tariffs and among utilities”. (Ordering Paragraph 9)

Above Ordering Paragraphs shall be incorporated by and become effective for PG&E, SCE and SDG&E within 30 days of the effective date of this resolution.

Tariff Additions and Revisions

- 1) **NEM, NEMBIO and NEMFC** – PG&E herein modifies the existing NEM, NEMBIO and NEMFC tariffs to provisions of Resolution E-3992. The changes to the three tariffs is generally the same:

- A) The Applicability section defines two new terms, “Multiple Tariff Facility” and “Constituent Generator Group”, are defined, and interconnection details of Multiple Tariff Facilities are referred to in Special Condition 6:

“Schedule NEM is also applicable to a customer-generator with multiple generators with at least one generator that is eligible to be served on this NEM rate schedule, where all generators are served through the same Point of Common Coupling (PCC) and where the

NEM-Eligible generator capacity does not total more than 1 megawatt. 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, the customer-generator must meet all the requirements of Special Condition 6, and must also meet any other applicable tariffs. “

- B) Also in the Applicability section, reference is made to the cost requirements in Electric Rule 21:

”Due to the additional complexity of Multiple Tariff Facilities taking service under multiple tariffs provisions, 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.”

- C) In the Rates section, a revised reference to schedule S – Standby is made:

”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.”

A section is added to Rates about the Otherwise Applicable Rate Schedule (OAS):

” The charges and credits for Multiple Tariff Facilities arrangements taking service on this rate schedule under the provisions of Special Condition 6, will be calculated as provided in Special Condition 6 using the otherwise applicable rate schedule 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.”

And finally True-up conditions are clarified when first becoming an Multiple Tariff Facility:

”Customers-generators with Multiple Tariff Facilities having existing NEM, NEMBIO and/or NEMFC eligible generators approved for interconnection, and interconnecting additional generators under Special Condition 6, will receive an annual true-up, in accordance with this NEM tariff, prior to taking service under Special Condition 6.

This ensures that all NEM accounts on that rate have the same true-up date going forward.

- D) In the Rate Options section the designation NEMMT is added for customer- generators with Multiple Tariff Facilities
- E) In Special Condition 1, Metering Equipment, a line is added referring the metering requirements for Multiple Tariff Facilities to special condition 6.
- F) In Special Condition 3, Interconnection is added referring the application and interconnection agreement requirements for Multiple Tariff Facilities.
- G) Under Special Condition 5 for Wind Energy Co-Metering, a reference to hybrid Wind and solar arrangements is changed to refer to Special Condition 6.
- H) Special Condition 6, MULTIPLE TARIFF FACILITY INTERCONNECTIONS is added.
- I) The first part few section of Special Condition 6 lay out the requirement for application(s) and interconnection agreement(s), lay out when Net Generation Output Metering (NGOM) is required, and reference Electric Rule 21, modified Section F requirements, clarify other meter requirement as dictated by the Otherwise Applicable Rate Schedule and NEM tariffs involved and that costs for metering and/or non-export relays are the responsibility of the customer. Additionally, clarification is made that any NEMBIOA accounts form their own Constitute Generator Group by virtue of the account load aggregation. Two definitions are included to facilitate discussion of the crediting: the first is a “non-NEM Constituent Generator Group” and the second is “NEM-Eligible Export”.
- J) Since the stacking methodology requires that the credit be the lesser of the sum of NEM-Eligible Constituent Generator Groups’ NGOM outputs or the exports at the PCC, if the export is less than the sum of the NEM-Eligible Constituent Generator Groups NGOM outputs, then the output must be allocated based on each group’s contribution. A method of allocating is offered:
 - i) Sum all NEM-Eligible Constituent Generator Groups’ NGOM output.*
 - ii) Determine the proportion of energy (kWh) attributable to each NEM-Eligible Constitute Generator Group by dividing the NGOM output of each by the sum from (i) above.*
 - iii) NEM-Eligible Export is the lesser of either the exported energy as measured at the PCC or the sum of the energy measured on the NGOMs at all the NEM-Eligible Constituent Generator Groups*

iv) Take the NEM-Eligible Export and assign it to each NEM-Eligible Constituent Generator Group based on its respective proportion.

v) Determine the bill credit for the customer-generator as provided under the customer-generator's OAS in combination with the net metered billing treatment type for each NEM-Eligible Constituent Generator Group.

If interval metering is called for in section H of this special condition, this allocation will be done on each interval. If the OAS is a time-of-use (TOU) rate schedule, the allocation will be performed for each TOU period.

- K) Next all possible Constituent Generator Group arrangements are broken in to three basic types as far as metering and billing under the stacking methodology is concerned:
- i) Constituent Generator Groups only including of small wind (50 kW or less) and solar generation. .
 - ii) Two or more types of NEM-Eligible Constituent Generator Groups.
 - iii) Both NEM-Eligible and non-NEM Constituent Generator Groups.
- L) The first arrangement for “for GFs comprised solely of wind generators under 50 kW aggregate capacity and/or solar generators for the balance of 1 MW total NEM-eligible capacity” is described in Finding of Fact 15 from the Resolution E-3992. For this arrangement, the customer-generator will be billed as provided in Special Condition 2 of this tariff, since these can really be described as a single Constituent Generator Group and the tariff and metering requirements for these two types of generators is the same, and is already covered in the existing Schedule NEM.
- M) The second arrangement with two or more types offers two possible metering / billing options:
- a) *The customer-generator must install NGOM on each Constituent Generator Group. In addition, metering is required at the PCC capable of separately registering the flow of electricity in two directions. Billing credit will be calculated as provided for in section F of this special condition. In no event will nonnet metering generators receive credits designed for NEM projects.*
 - b) *If the customer-generator has no Constituent Generator Group(s)*

eligible for NEMBIOA, but has a Constituent Generator Group eligible for small wind (50 kW or less) or solar, the customer-generator must elect to take service under the terms of either NEMW, NEMBIO or NEMFC, as appropriate to one of the other Constituent Generator Group(s).

This second option was added to comply with Finding of Fact 24 in Resolution E-3992.

- N) The third arrangement with NEM-Eligible and non-NEM Eligible Constituent Generator Groups offers three possible metering / billing options, as required in Ordering Language 5 and is consistent with Rule 21 Section F. Those options are:

a) The non Export Relay Option: A customer-generator must install a non-export relay on their non-NEM Constituent Generator Groups and the customer-generator must install metering as follows: 1) If there is one type of Constituent Generation 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 section F must be followed. In no event will nonnet metering generators receive credits designed for NEM projects.

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 Generation 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 requirements of section F must be followed. In no event will nonnet metering generators receive credits designed for NEM projects.

This option is based on Ordering Language 2 bullet 2.

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 follow: 1) If there is one type of Constituent Generation 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 requirements of section F for interval metering must be followed. In no event will nonnet metering generators receive credits designed for NEM projects.

This section is based on Ordering Language 5.

2) Modify Electric Rule 21

Revisions were made to the following Electric Rule sections. Many inter-utility communications were sent in an effort to maintain uniform revisions to Rule 21.

Section C – Application and Interconnection Process

Table C.2 was added to reflect the cost responsibility for various scenarios of multiple tariff interconnections. This issue is yet being vetted in the ongoing Rule 21 Working Group process. Table C.2 is reflective of PG&E's current position on the issue.

Section F – Metering

Section F.8 was added to reflect the metering requirements for multiple tariff interconnections. Section F.8 clarified whether the metering requirements for these interconnections would be governed by Section F.3 or by the applicable net-energy-metering tariff schedules

Section I – Review Process For Applications To Interconnect Generating Facilities

Section I.3.b.'s Screen 2, Option 1 was modified, for multiple tariff interconnections to refer to the provisions of Section F.8, when it came to the issue of reverse power protection.

3) Revise existing Generating Facility Interconnection Application 79-974

Revisions to PG&E's interconnection application (Form 79-974) were made to support efficient processing of multiple tariff interconnections. This application was modified to identify the all the existing and proposed generation, and how it would be operated: export or non-export from the various generation sources. The decision to modify the existing application as opposed to creating a new application purely to support multiple tariff interconnections, kept the total number of PG&E's distributed generation applications at two (2).

4) Create new Generating Facility Interconnection Agreement 79-1069

PG&E submits 79-1069 which was developed starting with existing language from the Rule 21 Interconnection Agreement 79-973. It was

developed with the Finding of Fact 15 in Resolution E-3992 in mind which requests that a single interconnection agreement be developed.

5) Modify Schedule S – Standby

This filing also includes changes to schedule S, Standby Service, to accommodate Multiple Tariff Facilities. In brief, standby exemption will be granted only to qualifying generators in accordance with the Public Utilities Code. The standby reservation capacity will be set not to exceed the rated nominal capacity of the non-eligible NEM generator(s), thereby only allowing qualifying generators to receive standby exemption.

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 20 days after the date of this filing, which is **September 10**. Protests should be mailed to:

CPUC Energy Division
Attention: Tariff Unit, 4th Floor
505 Van Ness Avenue
San Francisco, California 94102
Facsimile: (415) 703-2200
E-mail: jjr@cpuc.ca.gov and jnj@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:

Pacific Gas and Electric Company
Attention: Brian Cherry
Director, Regulatory Relations
77 Beale Street, Mail Code B10C
P.O. Box 770000
San Francisco, California 94177
Facsimile: (415) 973-7226
E-mail: PGETariffs@pge.com

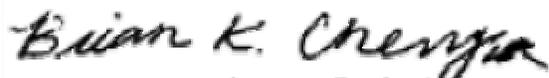
Effective Date

PG&E requests that this advice filing become effective **August 21, 2006**.

Notice

In accordance with General Order 96-A, Section III, Paragraph G, a copy of this advice letter is being sent electronically and via U.S. mail to parties shown on the attached list and Service List R.04-03-017. Address changes 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>



Vice President, Regulatory Relations

Attachments

cc: Service List R.04-03-017

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 (ID39E)

Utility type:

ELC GAS
 PLC HEAT WATER

Contact Person: Shilpa Ramaiya

Phone #: (415) 973- 3186

E-mail: srrd@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) #: 2888-E

Subject of AL: Net Energy Metering Compliance Filing Pursuant to Resolution E-3992

Keywords (choose from CPUC listing): Compliance, Net Energy

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

If AL filed in compliance with a Commission order, indicate relevant Decision/Resolution #: E-3992

Does AL replace a withdrawn or rejected AL? If so, identify the prior AL: Advice 2793-E

Summarize differences between the AL and the prior withdrawn or rejected AL¹: See AL per Resolution
Resolution Required? Yes No

Requested effective date: 8-21-2006

No. of tariff sheets: 40

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: See Attachment 1

Service affected and changes proposed¹: See title and advice letter itself

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

Protests 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
Attention: Tariff Unit
505 Van Ness Ave.,
San Francisco, CA 94102
jjr@cpuc.ca.gov and jnj@cpuc.ca.gov

Utility Info (including e-mail)
Attn: Brian K. Cherry
Director, Regulatory Relations
77 Beale Street, Mail Code B10C
P.O. Box 770000
San Francisco, CA 94177

E-mail: PGETariffs@pge.com

¹ Discuss in AL if more space is needed.

**ATTACHMENT 1
Advice 2888-E**

Cal P.U.C. Sheet No.	Title of Sheet	Cancelling Cal P.U.C. Sheet No.
25184-E	Schedule S--Standby Service	22972-E
25185-E	Schedule S (Cont.)	16203-E
25186-E	Schedule S (Cont.)	24912-E
25187-E	Schedule S (Cont.)	16205-E
25188-E	Schedule S (Cont.)	24604-E
25189-E	Schedule NEM--Net Energy Metering Service	25045-E
25190-E	Schedule NEM (Cont.)	22681-E
25191-E	Schedule NEM (Cont.)	21979-E
25192-E	Schedule NEM (Cont.)	22684-E
25193-E	Schedule NEM (Cont.)	22684-E
25194-E	Schedule NEM (Cont.)	22685-E
25195-E	Schedule NEM (Cont.)	New
25196-E	Schedule NEM (Cont.)	New
25197-E	Schedule NEM (Cont.)	New
25198-E	Schedule NEMFC--Net Energy Metering Service For Fuel Cell Customer-Generators	24065-E
25199-E	Schedule NEMFC (Cont.)	24065-E
25200-E	Schedule NEMFC (Cont.)	21480-E
25201-E	Schedule NEMFC (Cont.)	21481-E
25202-E	Schedule NEMFC (Cont.)	21482-E
25203-E	Schedule NEMFC (Cont.)	New
25204-E	Schedule NEMFC (Cont.)	New
25205-E	Schedule NEMFC (Cont.)	New
25206-E	Schedule NEMBIO--Net Energy Metering Service for Biogas Customer-Generators	24060-E
25207-E	Schedule NEMBIO (Cont.)	24608-E
25208-E	Schedule NEMBIO (Cont.)	22676-E

**ATTACHMENT 1
Advice 2888-E**

Cal P.U.C. Sheet No.	Title of Sheet	Cancelling Cal P.U.C. Sheet No.
25209-E	Schedule NEMBIO (Cont.)	22677-E
25210-E	Schedule NEMBIO (Cont.)	22678-E
25211-E	Schedule NEMBIO (Cont.)	22679-E
25212-E	Schedule NEMBIO (Cont.)	New
25213-E	Schedule NEMBIO (Cont.)	New
25214-E	Schedule NEMBIO (Cont.)	New
25215-E	Rule 21--Generating Facility Interconnections	New
25216-E	Rule 21 (Cont.)	24597-E
25217-E	Rule 21 (Cont.)	23712-E
25218-E	Sample Form 79-974--Generating Facility Interconnection Application	21484-E
25219-E	Sample Form 79-1069--PG and E Generating Facility Interconnection Agreement	New
25220-E	Table of Contents -- Rate Schedules	25053-E
25221-E	Table of Contents -- Rate Schedules	25054-E
25222-E	Table of Contents -- Sample Forms	21487-E
25223-E	Table of Contents -- Rules	24602-E



SCHEDULE S—STANDBY SERVICE

APPLICABILITY: PG&E will supply electricity and capacity on a standby basis under the terms of this schedule for customers: (1) whose supply requirements would otherwise be delivered through PG&E-owned facilities (including Independent System Operator (ISO)-controlled transmission facilities) but are regularly and completely provided through facilities not owned by PG&E; (2) who at times take auxiliary service (by means of a double-throw switch) from another public utility and who signed Standard Form 79-285 prior to the day after the Commission ends the rate freeze ordered by Assembly Bill 1890; (3) who require PG&E to provide reserve capacity and stand ready at all times to supply electricity on an irregular or noncontinuous basis; or (4) whose nonutility source of generation does not qualify under items (1), (2), or (3) above, but who qualify for and elect to receive back-up service under the provisions of Special Condition 7 below. Any customer under a time-of-use rate schedule using electric generation technology that meets the criteria as defined in Electric Rule 1 for Distributed Energy Resources is exempt from the otherwise applicable Standby Reservation Charges. Customers qualifying for this exemption will continue to pay the applicable energy, reactive demand, customer and meter charges provided for under this rate schedule, and shall be subject to the requirements outlined in Special Condition 11 of this tariff.

Customers whose premises are: (1) supplied only in part by electric energy from a non-utility source of supply, and who do not qualify for or elect to take back-up service under the provisions of Special Condition 7, and/or (2) whose regular non-utility source of supply is subject to an extended outage as defined under Special Condition 9, will receive service under one of PG&E's other applicable rate schedules. However, this service will be provided subject to the provisions of Special Conditions 1 through 6 and 8 through 10 below, and reservation charges as specified under Section 1 will also be applicable. Customers who utilize solar generating facilities which are less than or equal to one megawatt to serve load and who do not sell power or make more than incidental export of power into PG&E's power grid and who have not elected service under one of PG&E's net energy metering schedules,* will be exempt from paying standby charges under this provision.

(T)

TERRITORY: PG&E's entire service territory.

RATES: Total bundled service charges are calculated using the total rates shown below. Direct Access (DA) and Community Choice Aggregation (CCA) charges shall be calculated in accordance with the paragraph in this rate schedule titled Billing.

* Customers taking electric service under one of PG&E's net energy metering schedules may also be eligible for standby exemption. See Special Condition 11 of this tariff.

(Continued)



SCHEDULE S—STANDBY SERVICE
(Continued)

SPECIAL
CONDITIONS:
(Cont'd.)

4. PARALLEL OPERATION: Any customer may operate its generating plant in parallel with PG&E's system if the customer's plant is constructed and operated in accordance with Rule 21. However, a customer who operates its plant in parallel must assume responsibility for protecting PG&E and other parties from damage resulting from negligent operation of the customer's facilities. Customers may be required to meet requirements imposed by other governing entities having jurisdiction over PG&E's transmission lines including the ISO and the Western Systems Coordinating Council. The customer shall provide, own, install, and maintain all facilities necessary to accommodate any metering equipment specified by PG&E. Meters shall not allow reverse registration except as allowed under PG&E's energy metering schedules.

5. CONTRACT: This schedule is applicable only on a one-year contract Form No. 79-285). Once the initial one-year term is over, the contract will automatically continue in effect for successive terms of one year each until it is cancelled. Either party may cancel the contract by giving written notice not less than 30 days prior to the end of the current term. If the customer at any time increases the capacity of a load connected to its plant (or other source), the customer shall promptly notify PG&E. Any revision to the Reservation Capacity shall then be redetermined to be applicable beginning in the month in which such increase occurs.

6. LIMITATION ON RESERVATION CAPACITY SERVED: Standby service to new or increased loads is limited to PG&E's ability to serve such loads without jeopardizing service to existing customers on rate schedules for firm service, including standby service. If standby service to any load or combination of loads is refused by PG&E, PG&E shall notify the California Public Utilities Commission (Commission) in writing. Standby service will require a special contract which shall be subject to approval of the Commission in the following cases:
 - a. Reservation Capacity exceeds 100,000 kW per account;
 - b. The combined Reservation Capacity for two or more customers whose other power source is a single, nonutility plant, exceeds 100,000 kW; and
 - c. The service is of an unusual character, as determined by PG&E.

(T)
(T)

(Continued)



SCHEDULE S—STANDBY SERVICE
(Continued)

SPECIAL
CONDITIONS:
(Cont'd.)

7. SUPPLEMENTAL STANDBY SERVICE (BACKUP REQUIREMENTS):

- a. Schedule E-19, Schedule E-20 and Schedule E-37 customers whose nonutility source of generation does not regularly supply all the power necessary at their premises may elect to receive the back-up portion of their total service requirement under Schedule S if: (1) the rated capacity of the customer's on-site generator less the capacity of all generating units qualifying for any of PG&E's net energy metering schedules is at least 50 percent of the customer's maximum kW demand; and (2) load profile recorders are installed to separately meter the net on-site generation and the on-site load. Supplemental standby service will be available to all Schedule E-19 or Schedule E-20 customers whose nonutility source of generation does not regularly supply all the power necessary at their premises, if load profile recorders are installed to separately to meter the net on-site generation and the on-site load, effective May 1, 1994. If the customer elects instead to receive all of their service under Schedule E-19 or E-20, however, Special Conditions 1 through 6 of this Schedule will apply to the back-up portion of their load, with a Reservation capacity as determined by the net capacity of the on-site generation. (T)
- b. Supplemental standby service requires the installation of a load profile recorder. PG&E will install load profile recorders, subject to meter availability. The customer shall provide, install, own, and maintain all facilities necessary to accommodate metering equipment specified by PG&E. An additional charge applies for Supplemental Standby Service. A Supplemental Standby Service Meter Charge will be added to the standby customer's bill in addition to the TOU Energy Charges for back-up requirements, specified in the Rates Section. Supplemental standby service customers will also pay the appropriate rate Schedule E-19 or E-20 charges, including the Customer Charge, for their supplemental power use. (T)

(Continued)



SCHEDULE S—STANDBY SERVICE
(Continued)

SPECIAL
CONDITIONS:
(Cont'd.)

7. SUPPLEMENTAL STANDBY SERVICE (BACKUP REQUIREMENTS): (Cont'd.)

c. Back-up requirements are the portion of the customer's maximum demand and energy usage in any billing month caused by the nonoperation of the customer's alternative source of power. The customer's Reservation Capacity shall be determined by the net capacity of the customer's on-site generation less the capacity of all generating units qualifying for any of PG&E's net metering schedules, calculated as the average gross continuous full load capability of the generator during the hours between 10:00 a.m. and 8:00 p.m. of the winter part-peak period, less all auxiliary loads. During the winter season, supplemental loads are any on-site loads in excess of the Reservation Capacity.

(T)
(T)

During the summer season, supplemental loads are any on-site loads in excess of the Reservation Capacity, minus the customer's Summer Season Operating Capacity Adjustment. The customer's Summer Season Operating Capacity Adjustment shall be calculated as the difference between the average gross continuous full load capability during the hours between 10:00 a.m. and 8:00 p.m. of the winter part-peak period and the average gross continuous full load capability during the same hours of the summer season. The customer's Reservation Capacity and Summer Season Operating Capacity Adjustment are both subject to annual revision based upon review of recorded operating data for the customer's generation. Back-up requirements will be billed under Schedule S, while supplemental loads will be billed under the provisions of the customer's otherwise applicable rate schedule.

The customer's metered reactive power usage will be prorated for the purpose of assigning such usage separately to the customer's bills for backup power and for supplemental power. In particular, a single Power Factor Adjustment (as specified under Special Condition 8) will be calculated based on the ratio of all kWh and kVAh used, and then applied separately to the customer's bills for backup and supplemental power. The Reactive Demand Charge (see Special Condition 2) will be calculated by multiplying the customer's maximum measured reactive demand by the ratio of the current Reservation Capacity and the customer's maximum total kW of backup and supplemental load.

(Continued)



SCHEDULE S—STANDBY SERVICE
(Continued)

SPECIAL
CONDITIONS:
(Cont'd.)

10. NON-TIME-OF-USE METERING: In those cases where PG&E deems it is not cost-effective to install a time-of-use (TOU) meter, PG&E will estimate the customer's kWh usage for each TOU period, and apply all TOU charges to the estimated kWh usage by TOU period. PG&E will estimate the customer's total kWh usage in the billing period to kWh usage within each TOU period based on a percentage breakdown using the ratio of the number of hours in each TOU period to total hours in the billing period.

11. DISTRIBUTED ENERGY RESOURCES EXEMPTION: Public Utilities (PU) Code Sections 353.1 and 353.3, provide for certain exemptions of standby reservation charges for qualifying "distributed energy resources." See Electric Rule 1 for definition of Distributed Energy Resources. Customers qualifying for an exemption from standby charges under PU Code Sections 353.1 and 353.3, as described above, must take service on a TOU schedule in order to receive this exemption until a real-time pricing program, as described in PU Code Section 353.3, is made available. Once available, customers qualifying for the distributed energy resources exemption must participate in the real-time program referred to above. Qualification for and receipt of this distributed energy resources exemption does not exempt the customer from metering charges applicable to TOU and real-time pricing, or exempt the customer from reasonable interconnection charges, non-bypassable charges as required in Preliminary Statement BB - *Competition Transition Charge Responsibility for All Customers and CTC Procurement*, or obligations determined by the Commission to result from participation in the purchase of power through the California Department of Water Resources, as provided in PU Code Section 353.7.

(T)
(T)

12. MULTIPLE TECHNOLOGIES: Customers with generating facilities that are comprised of multiple generating units that apply different technologies, and with at least one generating unit that qualifies for a PG&E net energy metering tariff, and where all of the generating units are served through the same Point of Common Coupling as defined in PG&E's Rule 21, may be eligible for standby exemption for a portion of their standby requirement. Such exemption will be granted only for the duration allowed by the applicable tariff schedule and in accordance with the California Public Utilities Code. The customer will be billed under its otherwise-applicable rate schedule, and Special Conditions 1 through 7 of this Schedule S will not apply to the eligible generating portion qualifying for standby exemption. For the generating portion not qualifying for standby exemption, Special Conditions 1 through 7 of Schedule S will apply. The Standby reservation capacity will be set at a level not to exceed the nominal rated capacity of the non-eligible generating unit(s). Qualification for and receipt of this exemption does not exempt customers with multiple technologies from metering charges applicable to TOU and real-time pricing, or exempt the customer from reasonable interconnection charges, non-bypassable charges and other applicable tariff obligations.

(N)

(N)

(Continued)



SCHEDULE NEM—NET ENERGY METERING SERVICE

APPLICABILITY: This net energy-metering schedule is applicable to a residential, small commercial (as defined in subdivision (h) of Section 331 of the California Public Utilities Code (CPU Code)), commercial, industrial, or agricultural 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 facilities, including wind energy co-metering customers as defined in CPU 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) customer where the customer's ESP does not offer a net energy metering tariff. In addition, if an eligible customer-generator participates in direct transactions with an electric provider that does not provide distribution service for the direct transactions, the electric provider, and not PG&E, is obligated to provide net energy metering to the customer.

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 one-half of 1 percent of PG&E's aggregate customer peak demand.

Customers seeking interconnections in portions of San Francisco and Oakland where PG&E has a network grid must contact PG&E about generation export limitations.

(N)

Schedule NEM is also applicable to a customer-generator with multiple generators with at least one generator that is eligible to be served on this NEM rate schedule, where all generators are served through the same Point of Common Coupling (PCC) and where the NEM-Eligible generator capacity does not total more than 1 megawatt. 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, the customer-generator must meet all the requirements of Special Condition 6, and must also meet any other applicable tariffs.

Due to additional complexity of Multiple Tariff Facilities taking service under multiple tariffs provisions, 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.

(N)

TERRITORY: The entire territory served.



SCHEDULE NEM—NET ENERGY METERING
(Continued)

SPECIAL
CONDITIONS:

- 1. METERING EQUIPMENT: 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 otherwise applicable tariff 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. (T)
(T)

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.

- 2. NET ENERGY METERING AND BILLING: Eligible Wind Energy Co-Metering customer-generators, see Special Condition 5, and facilities qualifying under multiple tariffs, see Special Condition 6. Net energy is defined as measuring the difference between the electricity supplied by PG&E through the electric grid to the eligible customer-generator and electricity generated by an eligible customer generator and fed back into the electric grid over a 12-month period. At the end of each 12-month period following the date the customer-generator was first eligible for Schedule NEM, or the date of final interconnection, whichever is later, and at each anniversary date thereafter, the eligible customer-generator shall be billed for electricity used during that period. If an eligible customer-generator terminates service under this rate schedule, or experiences a change in electric service provider prior to the end of any 12-month period, PG&E shall reconcile the customer's consumption and production of electricity and bill the customer as described below, as if it were the end of the normal 12-month period. (T)
(T)

In the event the energy generated exceeds the energy consumed during the 12-month period, based on the eligible customer-generator's otherwise-applicable rate schedule as set forth below, no payment shall be made for the excess energy delivered to PG&E's grid. If PG&E is the electric service provider, this condition may be modified where the customer has signed a contract to sell electricity to PG&E.

(Continued)



SCHEDULE NEM—NET ENERGY METERING SERVICE
(Continued)

SPECIAL
CONDITIONS:
(Cont'd.)

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

d) Annual and Monthly Billing

If PG&E supplies the eligible customer-generator with electricity, PG&E shall provide the eligible customer-generator with net electricity consumption information with each regular bill. That information shall include the current monetary balance owed PG&E for the net electricity consumed since the last 12-month period ended. Eligible residential and small commercial customer-generators may pay monthly or annually for the net energy 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, 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 12-month period.

e) Energy Service Providers (ESP) Charges

If PG&E provides direct access metering, UDC consolidated billing, or ESP dual or consolidated billing support services for DA customer-generators served under this rate or their ESPs, 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.

(L)



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.

5. WIND ENERGY CO-METERING: In accordance with Section 2827.8 of the California Public Utilities Code, any customer-generator with wind energy generating facilities greater than 50 kW but not exceeding 1,000 kW taking service under this tariff is required to do so pursuant to this section. An eligible customer-generator's hybrid system that includes a wind generating facility eligible under this special condition and a solar generating facility eligible under this schedule is considered a Multiple Tariff Facility and will be interconnected subject to Special Condition 6.

(T)
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(T)

Wind Energy Co-Metering customer-generators are required to take service on a time-of-use (TOU) otherwise-applicable rate schedule. In addition, the customer-generator must utilize a TOU meter, or multiple TOU meters, capable of separately measuring the electricity in both directions, that is, the electricity supplied by PG&E to the customer and the electricity generated by the customer and fed back to the electric grid. If the customer's existing meter is not a TOU meter or is not capable of separately measuring the flow of electricity in both directions, the eligible customer-generator is responsible for all expenses involved in purchasing and installing a meter that is both TOU and able to separately measure electricity flow in both directions.

Subject to Special Condition 2, the generation of electricity provided to PG&E by a Wind Energy Co-Metering customer-generator shall result in a credit to the eligible customer-generator priced in accordance with the generation component of the energy charge of the eligible customer-generator's otherwise-applicable rate schedule, including generation surcharges from Schedule E-EPS, or any successor rate schedule. All electricity supplied to the Wind Energy Co-Metering customer-generator by PG&E shall be priced in accordance with the customer-generator's otherwise-applicable rate schedule.

(Continued)



SCHEDULE NEM—NET ENERGY METERING SERVICE
(Continued)

SPECIAL
CONDITIONS:
(Cont'd.)

6. MULTIPLE TARIFF FACILITY INTERCONNECTIONS:

(N)

A Multiple Tariff Facility with Constituent Generator Groups is covered by this provision,

A) Required Contract: Customer-generators must sign the application(s) for interconnection and interconnection agreement(s) as required by PG&E and described in Special Condition 3 of this tariff prior to receiving service under this tariff.

B) When Net Generation Output Metering (NGOM) is required, such NGOM must conform to the requirements set forth in Electric Rule 21, Section F.

C) A **non-NEM 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 still 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 designated otherwise-applicable rate schedule. All metering 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 NEMBIOA (accounts with the load aggregated on the main NEMBIO account pursuant to special condition 2 of the NEMBIO tariff) will be treated as a separate Constituent Generator Group.

F) A **NEM-Eligible Constituent Generator Group** is defined as a constituent generator group that is eligible for service under the provisions of schedule NEM, NEMBIO or NEMFC.

Where multiple NEM-Eligible Constituent Generator Groups are present, and there are energy (kWh) exports to the grid at the PCC, the billing credit will be based upon the proportional contribution of the energy production (kWh) of each NEM-Eligible Constituent Generator Group as follows:

- i) Sum all NEM-Eligible Constituent Generator Groups' NGOM output.
- ii) Determine the proportion of energy (kWh) attributable to each NEM-Eligible Constituent Generator Group by dividing the NGOM output of each by the sum from (i) above.
- iii) **NEM-Eligible Export** is the lesser of either the exported energy as measured at the PCC or the sum of the energy measured on the NGOMs at all the NEM-Eligible Constituent Generator Groups
- iv) Take the NEM-Eligible Export and assign it to each NEM-Eligible Constituent Generator Group based on its respective proportion.

(N)



SCHEDULE NEM—NET ENERGY METERING SERVICE
(Continued)

SPECIAL
CONDITIONS:
(Cont'd.)

6. MULTIPLE TARIFF FACILITY INTERCONNECTIONS (Cont'd)

(N)

- v) Determine the bill credit for the customer-generator as provided under the customer-generator's OAS in combination with the net metered billing treatment type for each NEM-Eligible Constituent Generator Group.

If interval metering is called for in section H of this special condition, this allocation will be done on each interval. If the OAS is a time-of-use (TOU) rate schedule, the allocation will be performed for each TOU period.

G) Multiple Tariff Facility Configurations.

For A Multiple Tariff Facility comprised of:

- i) Constituent Generator Groups including only small wind (50 kW or less) and solar generation, the customer-generator will be billed as provided in Special Condition 2 of this tariff.
- ii) **Two or more types of NEM-Eligible Constituent Generator Groups**, the customer-generator must select **one** of the following options:
 - a) The customer-generator must install NGOM on each Constituent Generator Group. In addition, metering is required at the PCC capable of separately registering the flow of electricity in two directions. Billing credit will be calculated as provided for in section F of this special condition. In no event will nonnet metering generators receive credits designed for NEM projects.
 - b) If the customer-generator has no Constituent Generator Group(s) eligible for NEMBIOA, but has a Constituent Generator Group eligible for small wind (50 kW or less) or solar, the customer-generator must elect to take service under the terms of either NEMW, NEMBIO or NEMFC, as appropriate to one of the other Constituent Generator Group(s).
- iii) Both **NEM-Eligible and non-NEM 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 the customer-generator must install metering as follows: 1) If there is one type of Constituent Generation 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 section F must be followed. In no event will non-net metering generators receive credits designed for NEM projects.

(N)



SCHEDULE NEM—NET ENERGY METERING SERVICE
(Continued)

SPECIAL
CONDITIONS:
(Cont'd.)

6. MULTIPLE TARIFF FACILITY INTERCONNECTIONS (Cont'd)

- 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 Generation 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 requirements of section F must be followed. In no event will nonnet metering generators receive credits designed for NEM projects.
- 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 Generation 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 requirements of section F for interval metering must be followed. In no event will non-net metering generators receive credits designed for NEM projects.

(N)

(N)



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

APPLICABILITY: This schedule is applicable to Bundled 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 in Special Condition 5.a below pursuant to California Public Utilities Code Section 2827.10 (PU Code Section 2827.10), with a generating capacity no greater than 1,000 kW, located on or adjacent to the customers' owned, leased or rented premises as the sole source of customer generation, 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, (2) 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 (3) 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).

Customers with Eligible Fuel Cell Electrical Generating Facilities requesting interconnections in portions of San Francisco and Oakland where PG&E has a network grid must contact PG&E about generation export limitations.

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 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.

Schedule NEMFC is also applicable to a customer-generator with multiple generators with at least one generator that is eligible to be served on this NEMFC rate schedule, where all generators are served through the same Point of Common Coupling (PCC) and where the NEM-Eligible generator capacity does not total more than 1 megawatt. 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, the customer-generator must meet all the requirements of Special Condition 6, and must also meet any other applicable tariffs.

Due to the additional complexity of Multiple Tariff Facilities taking service under multiple tariffs provisions, NEMFC 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.

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.

(D)
(N)

(N)



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

TERRITORY:	The entire territory served.	(L)
RATES:	<p>Only the Generation Rate Component of the Fuel Cell Customer-Generator's OAS, including generation surcharges such as those from Schedule E-EPS or any successor rate schedule, if any, 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, including any and all generation surcharges, if any, 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. 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 prior to the netting of energy supplied or produced, for all energy supplied.</p> <p>The charges and credits for Multiple Tariff Facilities arrangements taking service on this rate schedule under the provisions of Special Condition 6, will be calculated as provided in Special Condition 6 using the otherwise applicable rate schedule 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.</p> <p>Customers-generators with Multiple Tariff Facilities having existing NEM, NEMBIO and/or NEMFC eligible generators approved for interconnection, and interconnecting additional generators under Special Condition 6, will receive an annual true-up, in accordance with this NEM tariff, prior to taking service under Special Condition 6. This ensures that all NEM accounts on that rate have the same true-up date going forward.</p>	<p>(L)</p> <p>(N)</p> <p>(N)</p>

(Continued)



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

SPECIAL
CONDITIONS:

1. **REQUIRED CONTRACT:** A *Generating Facility Interconnection Application* (Form 79-974) and an *Interconnection Agreement for Net Energy Metering of Fuel Cell Generating Facilities* (Form 79-1010) are required for service under this Schedule. For a Multiple Tariff Facility (NEMMT) application form 79-974 and interconnection agreement form 79-1069 are required for service under this rate Schedule. (N)
(N)

2. **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 6.

3. **BILLING:** Fuel Cell Customer-Generator will be billed monthly for all charges other than Generation Rate Component. Then, at the end of each Relevant Period, as defined in 5.d, following the Date of Final Interconnection, PG&E shall proceed as follows:
 - a. PG&E will complete an Annual Reconciliation per Section 5.f.
 - b. Any remaining Generation credit greater than the Eligible Generation Credit calculated per Section 5.g will be zeroed out and the Fuel Cell Customer-Generator shall not be entitled to compensation for such credit, and a new Relevant Period shall commence.
 - c. With each monthly billing statement, PG&E shall provide the Fuel Cell Customer-Generator with information regarding gross energy (kWh) consumption and net energy (kWh) consumption/production.

RATE OPTIONS:

A Multiple Tariff Facility taking service under Special Condition 6 of this tariff will be placed on Rate Schedule Option **NEMMT**. (N)
(N)



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

SPECIAL
CONDITIONS:
(Cont'd.)

- 4. **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.
- 5. **DEFINITIONS:** The following definitions are applicable to service provided under this Schedule.
 - a. **ELIGIBLE FUEL CELL ELECTRICAL GENERATING FACILITY:** A Generating Facility used to produce electricity by a fuel cell, that meets 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 Public Utilities Commission regarding safety and reliability. In addition, the Generating Facility must include the following:
 - 1) 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.
 - b. **DATE OF FINAL INTERCONNECTION:** The date PG&E provides the Fuel Cell Customer-Generator with PG&E's written approval to commence parallel operation of the Eligible Fuel Cell Electrical Generating Facility and commences service under Schedule NEMFC.
 - c. **OTHERWISE APPLICABLE SCHEDULE (OAS):** The Fuel Cell Customer-Generator's regularly filed TOU rate schedule under which service is rendered.
 - d. **RELEVANT PERIOD:** Twelve monthly billing cycles commencing on the anniversary Date of Final Interconnection or pursuant to Special Condition 3b, or a portion thereof in the event service under this tariff terminates.
 - e. **ELIGIBLE METERED SERVICE ACCOUNT:** A TOU metered service account serving an Eligible Fuel Cell Electrical Generating Facility.

(T)
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(T)

(Continued)



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

SPECIAL
CONDITIONS:
(Cont'd.)

5. DEFINITIONS: (Cont'd)

f. ANNUAL RECONCILIATION: PG&E will total all the electricity (kWh) supplied by PG&E to the Fuel Cell Customer-Generator and all the electricity (kWh) fed back to the PG&E Distribution System by the Fuel Cell Customer-Generator during the Relevant Period. If the total electricity supplied by PG&E is greater than the total of electricity fed back to the PG&E Distribution System, then the Fuel Cell Customer-Generator is a Fuel Cell Net Consumer. Otherwise, the Fuel Cell Customer is a Fuel Cell Net Producer.

As Part of the Annual Reconciliation, Fuel Cell Net Consumers and Fuel Cell Net Producers will receive a bill for energy usage that totals 1) all generation charges; 2) all Eligible Generation Credits; and 3) all other charges, due in that billing cycle.

The balance of all moneys owed by Fuel Cell Net Consumers and Fuel Cell Net Producers shall be paid in accordance with PG&E's tariff schedules.

g. ELIGIBLE GENERATION CREDIT: The Eligible Generation Credit for Fuel Cell Net Consumers equals the lesser of (1) all net generation charges for the Relevant Period; or (2) the absolute value of all net generation credits for the Relevant Period. (L)

For Fuel Cell Net Producers, generation credits for kWh in excess of total kWh consumed, are not Eligible Generation Credits. To calculate the Eligible Generation Credit for a Fuel Cell Net Producer, PG&E will, as part of the Annual Reconciliation, (1) determine the average credit for energy (per kWh) produced by taking the total credit calculated for generation delivered to PG&E's Distribution System by the Fuel Cell Net Producer and dividing by the total kWh delivered to the Distribution System during the Relevant Period; and (2) multiply this amount by the total energy (kWh) consumed by the Fuel Cell Net Producer over the corresponding period. This Eligible Generation Credit shall be no greater than the total of all net generation charges for the Relevant Period. Any credit for excess energy (kWh) will be retained by PG&E and Fuel Cell Net Producer will not be owed any compensation for this excess energy.

h. NET ENERGY: The difference between the electricity (kWh) supplied by PG&E to the Fuel Cell Customer-Generator, and the electricity (kWh) generated by the Fuel Cell Customer-Generator and fed back into PG&E's Distribution System, measured over a given period.

j. GENERATION RATE COMPONENT: The generation rate component of the energy charge of the Fuel Cell Customer-Generator's OAS. (L)

(Continued)



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

SPECIAL
CONDITIONS:
(Cont'd.)

6. MULTIPLE TARIFF FACILITY INTERCONNECTIONS:

(N)

A Multiple Tariff Facility with Constituent Generator Groups is covered by this provision,

A) Required Contract: Customer-generators must sign the application(s) for interconnection and interconnection agreement(s) as required by PG&E and described in Special Condition 3 of this tariff prior to receiving service under this tariff.

B) When Net Generation Output Metering (NGOM) is required, such NGOM must conform to the requirements set forth in Electric Rule 21, Section F.

C) A **non-NEM 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 still 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 designated otherwise-applicable rate schedule. All metering 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 NEMBIOA (accounts with the load aggregated on the main NEMBIO account pursuant to special condition 2 of the NEMBIO tariff) will be treated as a separate Constituent Generator Group.

F) A **NEM-Eligible Constituent Generator Group** is defined as a constituent generator group that is eligible for service under the provisions of schedule NEM, NEMBIO or NEMFC.

Where multiple NEM-Eligible Constituent Generator Groups are present, and there are energy (kWh) exports to the grid at the PCC, the billing credit will be based upon the proportional contribution of the energy production (kWh) of each NEM-Eligible Constituent Generator Group as follows:

i) Sum all NEM-Eligible Constituent Generator Groups' NGOM output.

ii) Determine the proportion of energy (kWh) attributable to each NEM-Eligible Constituent Generator Group by dividing the NGOM output of each by the sum from (i) above.

iii) **NEM-Eligible Export** is the lesser of either the exported energy as measured at the PCC or the sum of the energy measured on the NGOMs at all the NEM-Eligible Constituent Generator Groups

iv) Take the NEM-Eligible Export and assign it to each NEM-Eligible Constituent Generator Group based on its respective proportion.

(N)



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

SPECIAL
CONDITIONS:
(Cont'd.)

6. MULTIPLE TARIFF FACILITY INTERCONNECTIONS (Cont'd)

(N)

- v) Determine the bill credit for the customer-generator as provided under the customer-generator's OAS in combination with the net metered billing treatment type for each NEM-Eligible Constituent Generator Group.

If interval metering is called for in section H of this special condition, this allocation will be done on each interval. If the OAS is a time-of-use (TOU) rate schedule, the allocation will be performed for each TOU period.

G) Multiple Tariff Facility Configurations.

For A Multiple Tariff Facility comprised of:

- i) Constituent Generator Groups including only small wind (50 kW or less) and solar generation, the customer-generator will be billed as provided in Special Condition 2 of this tariff.
- ii) **Two or more types of NEM-Eligible Constituent Generator Groups**, the customer-generator must select **one** of the following options:
 - a) The customer-generator must install NGOM on each Constituent Generator Group. In addition, metering is required at the PCC capable of separately registering the flow of electricity in two directions. Billing credit will be calculated as provided for in section F of this special condition. In no event will nonnet metering generators receive credits designed for NEM projects.
 - b) If the customer-generator has no Constituent Generator Group(s) eligible for NEMBIOA, but has a Constituent Generator Group eligible for small wind (50 kW or less) or solar, the customer-generator must elect to take service under the terms of either NEMW, NEMBIO or NEMFC, as appropriate to one of the other Constituent Generator Group(s).
- iii) Both **NEM-Eligible and non-NEM 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 the customer-generator must install metering as follows: 1) If there is one type of Constituent Generation 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 section F must be followed. In no event will non-net metering generators receive credits designed for NEM projects.

(N)



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

SPECIAL
CONDITIONS:
(Cont'd.)

6. MULTIPLE TARIFF FACILITY INTERCONNECTIONS (Cont'd)

- 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 Generation 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 requirements of section F must be followed. In no event will nonnet metering generators receive credits designed for NEM projects.
- 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 Generation 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 requirements of section F for interval metering must be followed. In no event will non-net metering generators receive credits designed for NEM projects.

(N)

(N)



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

APPLICABILITY: This schedule is applicable to Bundled 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 pursuant to California Public Utilities Code Section 2827.9 (PU Code Section 2827.9), with a generating capacity no greater than 1,000 kW, located on or adjacent to the Biogas Customer-Generators' premises as the sole source of Biogas Customer-Generators' generation, 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). 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.

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 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.

Customers with Biogas Customer-Generators requesting 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 is also applicable to a customer-generator with multiple generators with at least one generator that is eligible to be served on this NEMBIO rate schedule, where all generators are served through the same Point of Common Coupling (PCC) and where the NEM-Eligible generator capacity does not total more than 1 megawatt. 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, the customer-generator must meet all the requirements of Special Condition 7, and must also meet all other applicable tariffs.

Due to the additional complexity of **Multiple Tariff Facilities** taking service under multiple tariffs provisions, NEMBIO generating facilities interconnecting under the provisions of Special Condition 7 may require additional review and/or interconnection facilities and other equipment, and may incur interconnection costs, as provided for in electric Rule 21.

(N)

(N)



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

TERRITORY:	The entire territory served.	(L)
RATES:	<p>Only the Generation Rate Component of the Biogas Customer-Generator's OAS, including generation surcharges such as those from Schedule E-EPS or any successor rate schedule, if any, 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, including all generation surcharges, if any, 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. 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 prior to the netting of energy supplied or produced, for all energy supplied.</p> <p>The charges and credits for Multiple Tariff Facilities arrangements taking service on this tariff under the provisions of Special Condition 7, will be calculated as provided in Special Condition 7 using the otherwise applicable rate schedule 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.</p> <p>Customers-generators with Multiple Tariff Facilities having existing NEM, NEMBIO and/or NEMFC eligible generators approved for interconnection, and interconnecting additional generators under Special Condition 7, will receive an annual true-up, in accordance with this NEM tariff, prior to taking service under Special Condition 7. This ensures that all NEM accounts on that rate have the same true-up date going forward</p>	<p>(L)</p> <p>(N)</p> <p>(N)</p>
RATE OPTIONS:	Eligible Customer-Generators will be placed on Rate Schedule NEMBIO, unless they are applying for service under the provisions of Special Condition 2—LOAD AGGREGATION below, in which case they will be placed on Rate Schedule Option NEMBIOA. For a Multiple Tariff Facility taking service under Special Condition 6 of this tariff whether eligible for NEMBIO or NEMBIOA will be placed on Rate Schedule Option NEMMT .	<p>(T)</p> <p>(T)</p>

(Continued)



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

SPECIAL
CONDITIONS:

1. **REQUIRED CONTRACT:** An "Interconnection Agreement for Net Energy Metering of Qualifying Biogas Digester Generating Facilities" (Form 79-997) is required for service under this Schedule. For a **Multiple Tariff Facility**, (NEMMT), an application form (Form 79-974) and interconnection agreement (Form 79-1069) are required for service under this tariff option.
2. **LOAD AGGREGATION:** For purposes of determining whether the Biogas Customer-Generator was a Biogas Net Consumer or a Biogas Net Producer, as defined in Special Condition 6.f below, PG&E shall aggregate the load of metered TOU service accounts that meet the requirements of Special Condition 6.e for dairy operations. In addition, for purposes of calculating the Eligible Generation Credit for a dairy with aggregated accounts at the end of the Relevant Period, the Generation rate of the Biogas Customer-Generator's OAS, including generation surcharges such as those from Schedule E-EPS, if any, will be used to calculate the credit for electricity produced by the Generating Facility that is netted against usage on the aggregated accounts, as if all the aggregated account usage was registered on the meter serving the Eligible Biogas Digester Electrical Generating Facility.
3. **METERING:**
 - a. Biogas Digester net energy metering shall be accomplished using a TOU meter capable of separately registering the flow of electricity in two directions. If the Biogas Customer-Generator's existing meter is not capable of separately measuring the flow of electricity in two directions, the Biogas 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 Biogas Customer-Generator, PG&E shall have the have the right to refuse interconnection under this rate schedule.
 - c. Dairy operations with service accounts that qualify for Special Condition 2 are required to meet the provisions of Special Conditions 3.a and 3.b for the account serving the Eligible Biogas Digester Electrical Generating Facility only; all other service accounts are only required to have the metering specified in the TOU rate schedule on which it is billed.
 - d. Multiple Tariff Facilities will be metered under one of the options described in Special Condition 7.

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(N)

(Continued)



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

SPECIAL
CONDITIONS:
(Cont'd.)

- 4. BILLING: (Cont'd.) (L)
- 5. BILLING: Biogas Customer-Generator will be billed monthly for all charges other than Generation Rate Component charges on all Eligible Metered Service Accounts. Then, at the end of each Relevant Period, as defined in 6.d, following the Date of Final Interconnection, PG&E shall proceed as follows:
 - a. PG&E will complete an Annual Reconciliation per section 6.f.
 - b. Any remaining Generation credit greater than the Eligible Generation Credit calculated per section 6.g will be zeroed out and the Biogas Customer-Generator shall not be entitled to compensation for such credit, and a new Relevant Period shall commence.
 - c. PG&E shall provide the Biogas Customer-Generator with gross energy (kWh) consumption and net energy (kWh) consumed/produced information with each monthly billing statement. (L)
 - d. In the case of a dairy operation, all the Eligible Metered Service Accounts will be billed for Generation Rate Component charges, based on the OAS for that particular Eligible Metered Service Account, at the end of the Relevant Period, or sooner if the account closes or is no longer a qualifying account eligible for Load Aggregation.
- 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 7, may be subject to the requirements of Schedule S... (T)
(T)
- 6. DEFINITIONS: The following definitions are applicable to service provided under this Schedule.
 - a. ELIGIBLE BIOGAS DIGESTER ELECTRICAL GENERATING FACILITY: A Generating Facility used to produce electricity by a manure methane production project or as a byproduct of the anaerobic digestion of bio-solids and animal waste, that meets 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 Public Utilities Commission regarding safety and reliability.
 - b. DATE OF FINAL INTERCONNECTION: The date PG&E provides the Biogas Customer-Generator with PG&E's written approval to commence parallel operation of the Eligible Biogas Digester Electrical Generating Facility for purposes of participating in NEMBIO.

(Continued)



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

SPECIAL
CONDITIONS:
(Cont'd.)

6. DEFINITIONS: (Cont'd.)

- c. OTHERWISE APPLICABLE SCHEDULE (OAS): The Biogas Customer-Generator's regularly filed rate schedule under which service is rendered.
- d. RELEVANT PERIOD: Twelve monthly billing cycles commencing on the anniversary Date of Final Interconnection or pursuant to Special Condition 4b, or a portion thereof in the event service under this tariff terminates.
- e. ELIGIBLE METERED SERVICE ACCOUNT: A TOU metered service account serving an Eligible Biogas Digester Electrical Generating Facility. All TOU metered service account(s) serving 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 of the eligible Biogas Digester dairy operation are eligible for Special Condition 2 above. If a dairy operation has more than one Eligible Metered Service Account, all such metered service accounts must be under the same ownership and Biogas Customer-Generator name as the account serving the Eligible Biogas Digester Electrical Generating Facility to qualify for the provisions of Special Condition 2.
- f. ANNUAL RECONCILIATION: PG&E will total all the electricity (kWh) supplied by PG&E to the Eligible Biogas Digester Customer-Generator and all the electricity (kWh) fed back to the PG&E Distribution System by the Biogas Customer-Generator during the Relevant Period. If the total electricity supplied by PG&E is greater than the total of electricity fed back to the PG&E Distribution System, then the Eligible Biogas Digester Customer-Generator is a Biogas Net Consumer. Otherwise, the Biogas Customer is a Biogas Net Producer.

(L)

(L)

For non-dairy operations, only the account serving the Eligible Biogas Digester Generating Facility is used to determine if the Biogas Customer-Generator is a Biogas Net Producer or a Biogas Net Consumer.

In the case of a dairy operation, an aggregate of usage from all the Eligible Metered Service Accounts is used to determine if the Biogas Customer-Generator is a Biogas Net Producer or Biogas Net Consumer.

As part of the Annual Reconciliation, Biogas Net Consumers and Biogas Net Producers will receive a bill for energy usage that totals 1) all generation charges; 2) all Eligible Generation Credits; and 3) all other charges, due in that billing cycle.

The balance of all moneys owed by Biogas Net Consumers and Biogas Net Producers shall be paid in accordance with PG&E's tariff schedules.

(Continued)



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

SPECIAL
CONDITIONS:
(Cont'd.)

6. DEFINITIONS: (Cont'd.)

g. ELIGIBLE GENERATION CREDIT: The Eligible Generation Credit for Biogas Net Consumers equals the lesser of 1) all net generation charges for the Relevant Period, including in the case of a dairy operation the Generation Charges associated with accounts eligible for Special Condition 2; or 2) the absolute value of all net generation credits for the Relevant Period.

For Biogas Net Producers, generation credits for kWh in excess of total kWh consumed, are not Eligible Generation Credits. To calculate the Eligible Generation Credit for a Biogas Net Producer, PG&E will, as part of the Annual Reconciliation, 1) determine the average credit for energy (per kWh) produced by taking the total credit calculated for generation delivered to PG&E's Distribution System by the Biogas Net Producer and dividing by the total kWh delivered to the Distribution System during the Relevant Period; and 2) multiply this amount by the total energy (kWh) consumed by the Biogas Net Producer over the corresponding period. This Eligible Generation Credit shall be no greater than the total of all net generation charges for the Relevant Period, including in the case of a dairy operation, the generation charges associated with the accounts eligible for Special Condition 2. Any credit for excess energy (kWh) will be retained by PG&E and Biogas Net Producer will not be owed any compensation for this excess energy.

h. NET ENERGY: The difference between the electricity (kWh) supplied by PG&E to the Biogas Customer-Generator, and the electricity (kWh) generated by the Biogas Customer-Generator and fed back into PG&E's Distribution System, measured over a given period.

i. GENERATION RATE COMPONENT: The generation rate component of the energy charge of the Biogas Customer-Generator's OAS for the account.

(L)

(L)



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

SPECIAL
CONDITIONS:
(Cont'd.)

7. MULTIPLE TARIFF FACILITY INTERCONNECTIONS:

(N)

A Multiple Tariff Facility with Constituent Generator Groups is covered by this provision,

A) Required Contract: Customer-generators must sign the application(s) for interconnection and interconnection agreement(s) as required by PG&E and described in Special Condition 3 of this tariff prior to receiving service under this tariff.

B) When Net Generation Output Metering (NGOM) is required, such NGOM must conform to the requirements set forth in Electric Rule 21, Section F.

C) A **non-NEM 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 still 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 designated otherwise-applicable rate schedule. All metering 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 NEMBIOA (accounts with the load aggregated on the main NEMBIO account pursuant to special condition 2 of the NEMBIO tariff) will be treated as a separate Constituent Generator Group.

F) A **NEM-Eligible Constituent Generator Group** is defined as a constituent generator group that is eligible for service under the provisions of schedule NEM, NEMBIO or NEMFC.

Where multiple NEM-Eligible Constituent Generator Groups are present, and there are energy (kWh) exports to the grid at the PCC, the billing credit will be based upon the proportional contribution of the energy production (kWh) of each NEM-Eligible Constituent Generator Group as follows:

i) Sum all NEM-Eligible Constituent Generator Groups' NGOM output.

ii) Determine the proportion of energy (kWh) attributable to each NEM-Eligible Constituent Generator Group by dividing the NGOM output of each by the sum from (i) above.

iii) **NEM-Eligible Export** is the lesser of either the exported energy as measured at the PCC or the sum of the energy measured on the NGOMs at all the NEM-Eligible Constituent Generator Groups

iv) Take the NEM-Eligible Export and assign it to each NEM-Eligible Constituent Generator Group based on its respective proportion.

(N)



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

SPECIAL
CONDITIONS:
(Cont'd.)

7. MULTIPLE TARIFF FACILITY INTERCONNECTIONS (Cont'd)

(N)

- v) Determine the bill credit for the customer-generator as provided under the customer-generator's OAS in combination with the net metered billing treatment type for each NEM-Eligible Constituent Generator Group.

If interval metering is called for in section H of this special condition, this allocation will be done on each interval. If the OAS is a time-of-use (TOU) rate schedule, the allocation will be performed for each TOU period.

G) Multiple Tariff Facility Configurations.

For A Multiple Tariff Facility comprised of:

- i) Constituent Generator Groups including only small wind (50 kW or less) and solar generation, the customer-generator will be billed as provided in Special Condition 2 of this tariff.
- ii) **Two or more types of NEM-Eligible Constituent Generator Groups**, the customer-generator must select **one** of the following options:
 - a) The customer-generator must install NGOM on each Constituent Generator Group. In addition, metering is required at the PCC capable of separately registering the flow of electricity in two directions. Billing credit will be calculated as provided for in section F of this special condition. In no event will nonnet metering generators receive credits designed for NEM projects.
 - b) If the customer-generator has no Constituent Generator Group(s) eligible for NEMBIOA, but has a Constituent Generator Group eligible for small wind (50 kW or less) or solar, the customer-generator must elect to take service under the terms of either NEMW, NEMBIO or NEMFC, as appropriate to one of the other Constituent Generator Group(s).
- iii) Both **NEM-Eligible and non-NEM 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 the customer-generator must install metering as follows: 1) If there is one type of Constituent Generation 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 section F must be followed. In no event will non-net metering generators receive credits designed for NEM projects.

(N)



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

SPECIAL
CONDITIONS:
(Cont'd.)

7. MULTIPLE TARIFF FACILITY INTERCONNECTIONS (Cont'd)

- 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 Generation 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 requirements of section F must be followed. In no event will nonnet metering generators receive credits designed for NEM projects.
- 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 Generation 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 requirements of section F for interval metering must be followed. In no event will non-net metering generators receive credits designed for NEM projects.

(N)

(N)



RULE 21—GENERATING FACILITY INTERCONNECTIONS
(Continued)

F. METERING, MONITORING AND TELEMETRY (Cont'd.)

6. LOCATION

Where PG&E-owned Metering is located on the Producer's premises, Producer shall provide, at no expense to PG&E, a suitable location for all such Metering Equipment.

7. COSTS OF METERING

The Producer will bear all costs of the Metering required by this Rule, including the incremental costs of operating and maintaining the Metering Equipment.

8. MULTIPLE TARIFF METERING

The requirements of Section F.3 may not apply where a Generating Facility includes multiple generators eligible for service under more than one Net Energy Metering (NEM) tariff schedule (e.g., NEM, NEM-BIO, NEM-FC), or where a Generating Facility consists of one or more NEM eligible generator in combination with one or more non-NEM generators. To ensure proper tariff administration, metering will be required at the PCC and at each of the NEM eligible generator tariff schedule groups. For combinations of multiple NEM eligible tariffs, all of which are located at single premises, billing administration and metering requirements will be as specified in the appropriate NEM tariff schedule.

Where a Generating Facility consists of one or more NEM eligible generators in combination with one or more non-NEM generators, metering of non-NEM generator(s) is not required, unless as specified in Section F.3.

(N)

(N)

G. DISPUTE RESOLUTION PROCESS

The following procedures will apply for disputes arising from this Rule:

1. The Commission shall have initial jurisdiction to interpret, add, delete or modify any provision of this Rule or of any agreements entered into between PG&E and the Producer to implement this tariff ("The Implementing Agreements") and to resolve disputes regarding PG&E's performance of its obligations under its tariffs, the applicable agreements, and requirements related to the Interconnection of the Producer's Generating or Interconnection Facilities pursuant to this Rule.

(Continued)



RULE 21—GENERATING FACILITY INTERCONNECTIONS
(Continued)

I. REVIEW PROCESS FOR APPLICATIONS TO INTERCONNECT GENERATING FACILITIES (Cont'd.)

3. REVIEW PROCESS DETAILS

a. Screen 1: Is the PCC on a Networked Secondary System?

- If Yes, the Generating Facility does not qualify for Simplified Interconnection. Perform Supplemental Review.
- If No, continue to next screen.

Significance: Special considerations must be given to Generating Facilities proposed to be installed on networked secondary Distribution Systems because of the design and operational aspects of network protectors. There are no such considerations for radial Distribution Systems.

b. Screen 2: Will power be exported across the PCC?

- If Yes, the Generating Facility does not qualify for Simplified Interconnection. Perform Supplemental Review.
- If No, the Generating Facility must incorporate one of the following four options:

Option 1 ("Reverse Power Protection"): To insure power is not exported across the PCC, a reverse power Protective Function may be provided. The default setting for this Protective Function, when used, shall be 0.1% (export) of the service transformer's rating, with a maximum 2.0 second time delay. For multiple tariff interconnections, refer to Section F.8. (T)

Option 2 ("Minimum Power Protection"): To ensure that at least a minimum amount of power is imported across the PCC at all times (and, therefore, that power is not exported), an under-power Protective Function may be provided. The default setting for this Protective Function, when used, shall be 5% (import) of the Generating Facility's total Gross Nameplate Rating, with a maximum 2.0 second time delay.

(Continued)



Pacific Gas and Electric Company
San Francisco, California

Cancelling

Revised
Revised

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

25218-E*
21484-E

PACIFIC GAS AND ELECTRIC COMPANY

GENERATING FACILITY INTERCONNECTION APPLICATION
FORM NO. 79-974 (08/06)
(ATTACHED)

(T)

Advice Letter No. 2888-E
Decision No.

104391

Issued by
Brian K. Cherry
Vice President
Regulatory Relations

Date Filed August 21, 2006
Effective August 21, 2006
Resolution No. E-3992

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 Metered Generating Facilities with a nameplate rating less than 10kW (Form 79-994). 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 XXXX.

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 California Natural Resources, California Energy Commission of 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, Solar and most 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.

- C. 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

D. 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

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

(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)

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.

Meter Location Street Address	City	State	Zip

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

GENERATING FACILITY INTERCONNECTION APPLICATION

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. Not applicable for Net Energy Metering Applicants.

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). Not applicable for Net Energy Metering Applicants.

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 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.

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. <i>Parallel Operation Applications Only</i>	<p>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.</p> <p>If agreement options 2, 3, 5, 6, 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.</p>	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

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.
2. **A Generating Facility Interconnection Agreement (Inadvertent Export)** that provides for parallel operation of the Generating Facility, and the occasional, inadvertent, non-compensated, export of power to PG&E's Distribution System (This type of agreement has not yet been developed by PG&E or approved by the CPUC. PG&E has developed an inadvertent deliveries addendum for use in the interim. Check with PG&E for availability).
3. **A "Qualifying Facility" Power Purchase Agreement** that provides for parallel operation of the Generating Facility, and exporting power 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).

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

Third Party Owned Generating Facility

4. **A Generating Facility Interconnection Agreement** that provides for parallel operation of the third party owned Generating Facility, but does not provide for exporting power to PG&E's Distribution System.
5. **A Generating Facility Interconnection Inadvertent Export Agreement** that provides for parallel operation of the third party owned Generating Facility and the occasional, inadvertent, non-compensated, export of power to PG&E's Distribution System. (This type of agreement has not yet been developed by PG&E or approved by the CPUC. PG&E has developed an inadvertent deliveries addendum for use in the interim. Check with PG&E for availability).
6. **A "Qualifying Facility" Power Purchase Agreement** that provides for parallel operation of the third party owned Generating Facility, and exporting power 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).
7. **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 to 4, 5, or 6.)

Net Energy Metering Generating Facility

8. **A Net Energy Metering Agreement** that provides for parallel operation of the Generating Facility, and exporting power to PG&E's Distribution System for credit under the terms of PG&E's Net Energy Metering tariffs. This option is available only to eligible generating facilities as defined in PG&E's Net Energy Metering tariffs. (An interconnection agreement for a Generating Facility consisting of two generators eligible for two different Net Energy Metering tariffs has not yet been developed. Check with PG&E for availability).
9. **A Net Energy Metering /Non- Net Energy Metering eligible Generating Facility Agreement** that provides for the parallel operation of the 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. (This type of agreement has not yet been developed by PG&E or approved by the CPUC. Check with PG&E for availability).
10. **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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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.

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

<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>_____</p> <p>Amps</p>
	<p>Please indicate the short circuit interrupting rating of the host Customer facility's service panel:</p>	<p>_____</p> <p>Amps</p>

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>__1 __2 __3 __4 __5 __6</p> <p>(Please choose all options that may apply.)</p>
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Instructions and Notes

Choose from the following five operation options:

- Combined Heat and Power or Cogeneration** – Where the operation of the Generating Facility will produce thermal energy for a process other than generating electricity.
- 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".
- 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.
- Standby / Emergency / Backup** – Where the Generating Facility will normally be operated only when PG&E's electric service is not available.
- 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 1000kW or less, other than residential or small commercial customers, a supplemental application (Form Number 79-998) is also required.
- Combined Technologies: Generating Systems that have a combination of non-Net Energy Metering (non-NEM) system and a Net Energy Metering (NEM) system.

Check one of the following:

- For new projects installing a new generating system which will install a non-NEM system and a NEM system at the same time.
- For existing projects that have a non-NEM system and plan to add a new NEM system. Please provide data for the table below.
- For existing projects that have a NEM system and plan to add a new non-NEM system. Please provide data for the table below.
- For existing projects that have a NEM system and plan to add a new NEM system under a different NEM tariff. Please provide data for the table below.

GENERATING FACILITY INTERCONNECTION APPLICATION

Generator Information	Existing Generator / PV System Type 1	Existing Generator / PV System Type 2	New Generator / PV System Type 1	Existing Generator / PV System Type 2	Totals For All Generators 1
Please indicate the number of each "type" of Generator being installed: (see Instruction)					
Gen/Inverter Manufacturer					
Generator/Inverter Model					
Gen/Inverter software Version					
Is the Gen/Inverter certified	<input type="checkbox"/> Yes <input type="checkbox"/> No				
Gen design	<input type="checkbox"/> Synch <input type="checkbox"/> Induct. <input type="checkbox"/> Inverter				
Gross Nameplate Rating					
Operating Voltage					
Power Factor rating					
PF Adjustment Range					
Wiring Configuration					

F. (MP&I)

Please indicate if Qualifying Facility Status will be obtained from the FERC for this Generating Facility.

Yes
 No

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 218.5(Applicable to Cogeneration Only)

Yes
 No
 N/A

Part 4 – Describe each of the Generators (See Instructions.) Use additional sheets, if necessary.

GENERATING FACILITY INTERCONNECTION APPLICATION
Part 4 Cont'd – Describe each of the Generators (See instructions) Use additional sheets if necessary

Generator Information		Type 1	Type 2	Type 3
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
N (MP)	Neutral Grounding System Used (Choose One)	<input type="checkbox"/> Ungrounded <input type="checkbox"/> Solidly Grounded <input type="checkbox"/> Ground Resistor _____ Ohms	<input type="checkbox"/> Ungrounded <input type="checkbox"/> Solidly Grounded <input type="checkbox"/> Ground Resistor _____ Ohms	<input type="checkbox"/> Ungrounded <input type="checkbox"/> Solidly Grounded <input type="checkbox"/> Ground Resistor _____ Ohms
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 %)
P	<i>For Induction Generators Only:</i> Locked Rotor Current: OR Stator Resistance: Stator Leakage Reactance: Rotor Resistance: Rotor Leakage Reactance:	_____ (Amps) _____ (%) _____ (%) _____ (%) _____ (%)	_____ (Amps) _____ (%) _____ (%) _____ (%) _____ (%)	_____ (Amps) _____ (%) _____ (%) _____ (%) _____ (%)
Q	Short Circuit Current Produced by Generator:	_____ (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)
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

Instructions for Part 4 – 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.
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.
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Instructions for Part 4 Cont'd – Describing the Generators

	Generator Information	Instructions and Comments
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.
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.

Instructions for Part 4 Cont'd – Describing the Generators

	Generator Information	Instructions and Comments
R	<p><i>For Generators that are Started as a "Motor" Only:</i></p> <ol style="list-style-type: none"> 1. In-Rush Current 2. Host Customer's Service Entrance Panel (Main Panel) Continuous Current Rating 	<p>This information is needed only for Generators that are started by "motoring" the generator.</p> <p>See PG&E's Rule 21, Section I.3.e. for significance and additional information.</p> <p>If this question was answered in Part 3, question C of this Application, it need not be answered here.</p>
S	<p>Prime Mover Type</p>	<p>Please indicate the type and fuel used as the "prime mover" or source of energy for the Generator.</p> <ol style="list-style-type: none"> 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
San Francisco, California

Cancelling

Revised
Revised

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

25219-E*

PACIFIC GAS AND ELECTRIC COMPANY

GENERATING FACILITY INTERCONNECTION AGREEMENT
(ELIGIBLE/NON-ELIGIBLE NET GENERATING FACILITY EXPORT)
FORM NO. 79-1069 (08/06)
(ATTACHED)

Advice Letter No. 2888-E
Decision No.

104390

Issued by
Brian K. Cherry
Vice President
Regulatory Relations

Date Filed August 21, 2006
Effective August 21, 2006
Resolution No. E-3992



WE DELIVER ENERGY.™

This Generating Facility Interconnection Agreement (Eligible/Non-Eligible Net Generating Facility Export) ("Agreement") is entered into by and between _____ ("Producer"), and Pacific Gas and Electric Company ("PG&E") a California Corporation. Producer 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

- 1.1 This Agreement provides for Producer to interconnect and operate a Generating Facility in parallel with PG&E's Distribution System to serve the electrical loads at the location identified in Section 2.4. The Generating Facility may be any combination of "Eligible customer-generators" ("Eligible Generator(s)") as defined in California Public Utilities Code ("PU Code"), Section 2827 through 2827.10. and/or other Generator(s) ("Non-Eligible Generator(s)"). Eligible customer-generators can consist of any of the following technologies: solar, wind, biogas digester or fuel cell.
1.2 This Agreement provides for Producer to operate the Eligible Generator(s) pursuant to the provisions of Section 2827 et seq. of the PU Code and the applicable PG&E tariffs for net energy metering. The Agreement also provides for Producer to operate its Non-Eligible Generator(s). This Agreement does not constitute an agreement by PG&E to provide retail electrical service to Producer. Such arrangements must be made separately between PG&E and Producer.
1.3 This Agreement does not address Producer's account billing and payment for energy consumption. For the Generating Facility as specified in Section 2 of this Agreement, please refer to the applicable PG&E net-energy-metered (NEM) tariff schedules for billing and payment protocol,

2. SUMMARY AND DESCRIPTION OF PRODUCER'S GENERATING FACILITY

- 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 Producer's Generating Facility and loads are interconnected with PG&E's Distribution System, are attached to and made a part of this Agreement. (Supplied by Producer as Appendix A).
2.2 Generating Facility identification number: _____ (Assigned by PG&E)
2.3 Producer'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: _____

**GENERATING FACILITY INTERCONNECTION AGREEMENT
(ELIGIBLE/NON-ELIGIBLE NEM GENERATING FACILITY EXPORT)
PACIFIC GAS AND ELECTRIC COMPANY**

City/Zip Code: _____

2.5 The Gross Nameplate Rating of the Generating Facility is:

2.5.1 Eligible Generator(s):

Solar:	_____ kW
Wind:	_____ kW
Biogas Digester:	_____ kW
Fuel Cell:	_____ kW

2.5.2 Non-Eligible Generator(s): _____ kW

2.5.3 **Total Gross** Nameplate Rating of the Generating Facility: _____ kW

2.6 The Net Nameplate Rating of the Generating Facility is:

2.6.1 Eligible Generator(s):

Solar:	_____ kW
Wind:	_____ kW
Biogas Digester:	_____ kW
Fuel Cell:	_____ kW

2.6.2 Non-Eligible Generator(s): _____ kW

2.6.3 **Total Net** Nameplate Rating of the Generating Facility: _____ kW

2.7 The maximum level of power that may be exported by the Generating Facility to PG&E's Distribution System is expected to be:

2.7.1 Eligible Generator(s):

Solar:	_____ kW
Wind:	_____ kW
Biogas Digester:	_____ kW
Fuel Cell:	_____ kW

2.7.2 Non-Eligible Generator(s):

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_____kW

2.7.3 **Total maximum level of power** that may be exported by the
Generating Facility: _____ kW

2.8 For the purpose of securing the Competition Transition Charge exemption available under Section 372 of the California Public Utilities Code ("PUC"), Producer hereby declares that the portion of the Generating Facility that is generating in a combined heat and power mode does / does not meet the requirements for "Cogeneration" as such term is used in Section 218.5 of the California Public Utilities Code.

2.9 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.

2.10 For the purpose of securing certain tariff charge exemptions available under the PU Code, Producer hereby declares the following for each Generator of the Generating Facility:

(a) Requirements for "Distributed Energy Resource Generation" as such term is used in Section 353.1 of the PU Code

Solar:	<u>does meet</u> <input type="checkbox"/> <u>does not meet</u> <input type="checkbox"/>
Wind:	<u>does meet</u> <input type="checkbox"/> <u>does not meet</u> <input type="checkbox"/>
Biogas Digester:	<u>does meet</u> <input type="checkbox"/> <u>does not meet</u> <input type="checkbox"/>
Fuel Cell:	<u>does meet</u> <input type="checkbox"/> <u>does not meet</u> <input type="checkbox"/>
Non-Eligible Generator:	<u>does meet</u> <input type="checkbox"/> <u>does not meet</u> <input type="checkbox"/>

(b) For the purpose of securing the Competition Transition Charge exemption available under Section 372 of the California Public Utilities Code ("PUC"), Producer hereby declares that the Generating Facility does / does not meet the requirements for "Cogeneration" as such term is used in Section 218.5 of the California Public Utilities Code.

2.11 What applicable rate schedule, known as the "otherwise applicable schedule" will be selected for the net-energy-metering account(s):

3. DOCUMENTS INCLUDED; DEFINED TERMS

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

**GENERATING FACILITY INTERCONNECTION AGREEMENT
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- Appendix A- Description of Generating Facility and Single-Line Diagram (Supplied by Producer)
- Appendix B- Web-site references to Rules 2 and 21 and other selected rules and tariffs of PG&E (Supplied by PG&E)
- Appendix C- A Copy of PG&E's Agreement for Installation of Allocation of Special Facilities for Parallel Operation of Nonutility-Owned Generation and/or Electrical Standby Service (Form 79-280) ("Special Facility Agreement"), if applicable, (Formed by the Parties)
- Appendix D - Producer's warranty that the Generating Facility meets the requirements for a "Cogeneration facility" pursuant to Section 218.5 of the PU Code (When applicable)
- Appendix E - Producer's warranty that the Generating Facility meets the requirements for "Distributed Energy Resources Generation" as defined in Section 353.1 of the PU Code (When applicable)
- Appendix F - Listing of eligible service accounts, as defined in PG&E's Schedule NEM-BIO to be included in Net Energy Metering calculations (When applicable)
- Appendix G - Producer's warranty that it meets the requirements for an "Eligible Biogas Digester Electrical Generating Facility," (applicable Generator(s) only) as defined in Section 2827.9 of the PU Code (When applicable).

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 Rule 21, Section H.

4. TERM AND TERMINATION

4.1 This Agreement shall become effective as of the last date entered in Section 16, 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, or
- (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 Producer's Generating Facility is interconnected to PG&E's Distribution System is closed or terminated, or

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(c) At 12:01 A.M. on the 61st day after Producer or PG&E provides written Notice pursuant to Section 9 below to the other Party of Producer's or PG&E's intent to terminate this Agreement.

4.2 Producer may elect to terminate this Agreement pursuant to the terms of Section 4.1(c) for any reason. PG&E may elect to terminate this Agreement pursuant to the terms of Section 4.1(c) for one or more of the following reasons:

(a) A change in applicable rules, tariffs, and regulations, as approved or directed by the California Public Utilities Commission "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) Unless otherwise agreed to in writing by the Parties, Producer fails to take all corrective actions specified in PG&E's Notice that Producer's Generating Facility is out of compliance with the terms of this Agreement within the time frame set forth in such Notice; or,

(c) Producer fails to interconnect and operate the Generating Facility per the terms of this Agreement prior to 120 days after the date set forth in Section 2.9, above, as the Generating Facility's expected date of Initial Operation; or,

(d) Producer 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 non-operational and Producer does not provide a substantive response to PG&E Notice of its intent to terminate this Agreement as a result of Producer's apparent abandonment of the Generating Facility affirming Producer's intent and ability to continue to operate the Generating Facility.

(e) Producer makes a change to the physical configuration of the Generating Facility, as declared in Section 2 and Appendix A of this Agreement.

4.3 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.

4.4 Any agreements attached to and incorporated into this Agreement shall terminate concurrently with this Agreement unless the Parties have agreed otherwise in writing.

5. GENERATING FACILITY, OPERATION AND CERTIFICATION REQUIREMENTS

5.1 Except for that energy delivered to PG&E's Distribution System The electric power produced by Producer's Generating Facility shall be used solely to serve electrical loads connected to the electric service account that PG&E uses to interconnect

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Producer's Generating Facility (or, where permitted under Section 218 of the PUC, the electric loads of an on-site or neighboring party lawfully connected to Producer's Generating Facility through Producer's circuits). Producer shall not use the Generating Facility to serve electrical loads that will cause Producer to be considered an "electrical corporation" as such term is used in Section 218 of the California Public Utilities Code.

- 5.2 Unless otherwise agreed upon in writing by the Parties, this Agreement does not provide for, nor otherwise require PG&E to purchase, transmit, distribute, or store the electrical power produced by Producer's Generating Facility.
- 5.3 Producer is responsible for operating the Generating Facility in compliance with all of PG&E's tariffs, including but not limited to PG&E's Rule 21, applicable safety and performance standards established by the National Electric Code, Institute of Electrical Engineers, accredited testing laboratories such as Underwriters Laboratories, rules of the Commission regarding safety and reliability, and any other regulations and laws governing the Interconnection of the Generating Facility.
- 5.4 Producer 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 5.3, and (b) obtain any governmental authorizations and permits required for the construction and operation of the Generating Facility and Interconnection Facilities. Producer shall reimburse PG&E for any and all losses, damages, claims, penalties, or liability it incurs as a result of Producer's failure to obtain or maintain any governmental authorizations and permits required for construction and operation of Producer's Generating Facility.
- 5.5 Producer shall not commence parallel operation of the Generating Facility until PG&E has provided express written approval. Such approval shall normally be provided per the timelines established by the applicable PUC 2827 section, or by Rule 21. Such approval will be provided after 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) any required NEM supplemental application forms; (3) a signed and completed Generating Facility Interconnection Agreement (Eligible/Non-Eligible NEM Generating Facility Export) Agreement (Form 79-1069); (4) a copy of the Producer's final inspection clearance from the governmental authority having jurisdiction over the Generating Facility; and (5) submission of all applicable payments for reviews, studies, Interconnection Facilities, and Distribution System Modifications. Such approval will not be unreasonably withheld. PG&E shall have the right to have representatives present at the Commissioning Test as defined in Rule 21. Producer shall notify PG&E at least five (5) business days prior to the initial testing.
- 5.6 In no event shall the delivery of the maximum electric power to PG&E's Distribution System exceed the amount or other limitations specified in Section 2 and Appendix A of this Agreement. If Producer does not regulate its Generating Facility in compliance with the limitations set forth in this Agreement, PG&E may require Producer to disconnect its Generating Facility from PG&E's Distribution System until Producer demonstrates to PG&E's sole satisfaction that Producer has taken

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adequate measures to regulate the output of its Generating Facility and control its deliveries of electric power to PG&E. Further, should PG&E determine that Producer's operation of the Generating Facility is causing an unsafe condition or is adversely affecting PG&E's ability to utilize its Distribution System in any manner, even if Producer's deliveries of electric power to PG&E's Distribution System are within the limitations specified in this Agreement, PG&E may require Producer to temporarily or permanently reduce or cease deliveries of electric power to PG&E's Distribution System. Alternatively, the Parties may agree to other corrective measures so as to mitigate the effect of electric power flowing from the Generating Facility to PG&E's Distribution System. Producer's failure to comply with the terms of this Section shall constitute a material breach of this Agreement and PG&E may initiate termination in accordance with the terms of Section 4.2(b).

- 5.7 Producer shall not deliver reactive power to PG&E's Distribution System unless the Parties have agreed otherwise in writing.
- 5.8 The Generating Facility shall be operated with all of Producer's Protective Functions in service whenever the Generating Facility is operated in parallel with PG&E's Distribution System. Any deviation from these requirements may occur only when the Parties have agreed to such deviations in writing.
- 5.9 If Producer declares that its Generating Facility meets the requirements for "Cogeneration" as such term is used in Section 218.5 of the PUC (or any successor definition of "Cogeneration") ("Cogeneration Requirements"), Producer warrants that, beginning on the date of Initial Operation and continuing throughout the term of this Agreement, its Generating Facility shall continue to meet such Cogeneration Requirements, per Appendix D of this Agreement.

6. INTERCONNECTION FACILITIES

- 6.1 Producer 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 Producer's Generating Facility.
- 6.2 Producer shall be solely responsible for the costs, design, purchase, construction, operation, and maintenance of the Interconnection Facilities that Producer owns.
- 6.3 If the provisions of PG&E's Rule 21, or any other tariff or rule approved by the Commission, requires PG&E to own and operate a portion of the Interconnection Facilities, Producer and PG&E shall promptly execute an 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 C.
- 6.4 The Interconnection Facilities may include Net Generation Metering for determination of standby charges and applicable non-bypassable charges, and/or

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other meters required for PG&E's administration and billing pursuant to PGG&E's tariffs for net energy metering.

7. 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.

8. INSURANCE

8.1 In connection with Producer's performance of its duties and obligations under this Agreement, Producer shall maintain, during the term of this Agreement, general liability insurance with a combined single limit of not less than:

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

Such general liability insurance shall include coverage for "Premises-Operations, Owners and Contractors Protective, Products/Completed Operations Hazard, Explosion, Collapse, Underground, Contractual Liability, and Broad Form Property Damage including Completed Operations."

8.2 The general liability insurance required in Section 8.1 shall, by endorsement to the policy or policies, (a) include PG&E as an additional insured; (b) contain a severability of interest clause or cross-liability clause; (c) provide that PG&E shall not by reason of its inclusion as an additional insured incur liability to the insurance carrier for payment of premium for such insurance; and (d) provide for thirty (30)

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calendar days' written notice to PG&E prior to cancellation, termination, alteration, or material change of such insurance.

- 8.3 If Producer's Generating Facility is connected to an account receiving residential service from PG&E and the requirement of Section 8.2(a) prevents Producer from obtaining the insurance required in Section 8.1, then upon Producer's written Notice to PG&E in accordance with Section 9.1, the requirements of Section 8.2(a) shall be waived.
- 8.4 Evidence of the insurance required in Section 8.2 shall state that coverage provided is primary and is not in excess to or contributing with any insurance or self-insurance maintained by PG&E.
- 8.5 Producer agrees to furnish the required certificates and endorsements to PG&E prior to Initial Operation. PG&E shall have the right to inspect or obtain a copy of the original policy or policies of insurance.
- 8.6 If Producer is self-insured with an established record of self-insurance, Producer may comply with the following in lieu of Sections 8.1 through 8.4:
- (a) Producer shall provide to, PG&E, at least thirty (30) calendar days prior to the date of Initial Operation, evidence of an acceptable plan to self-insure to a level of coverage equivalent to that required under Section 8.1.
 - (b) If Producer ceases to self-insure to the level required hereunder, or if Producer are unable to provide continuing evidence of Producer's ability to self-insure, Producer agrees to immediately obtain the coverage required under Section 8.1.
- 8.7 All insurance certificates, statements of self insurance, endorsements, cancellations, terminations, alterations, and material changes of such insurance shall be issued and submitted to the following:

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

9. NOTICES

- 9.1 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 address specified below:

If to PG&E: Pacific Gas and Electric Company
Attention: Manager, Generation Interconnection Services
P.O. Box 770000

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Mail Code N7L
San Francisco, California 94177

If to Producer: Producer Name: _____
Address: _____
City: _____
Phone: () _____
FAX: () _____

- 9.2 A Party may change its address for Notices at any time by providing the other Party Notice of the change in accordance with Section 9.1.
- 9.3 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.

10. REVIEW OF RECORDS AND DATA

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

11. ASSIGNMENT

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

12. 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.

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

- 13.1 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.
- 13.2 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.
- 13.3 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.
- 13.4 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.

14. AMENDMENT AND MODIFICATION

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

15. 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.

16. SIGNATURES

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

PRODUCER'S NAME

PACIFIC GAS AND ELECTRIC COMPANY

By: _____
Name: _____
Title: _____
Date: _____

By: _____
Name: _____
Title: _____
Date: _____

GENERATING FACILITY INTERCONNECTION AGREEMENT
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APPENDIX A

DESCRIPTION OF GENERATING FACILITY
AND SINGLE-LINE DIAGRAM,
(Provided by Producer)

(Note: The Description of the Generating Facility should include, but not limited to, for each of the technology types of generation: spatial configuration, net and gross nameplate ratings, manufacturer, if the generators are certified under Rule 21, protection equipment, and intended mode of operation (i.e. non-export: export up to 2 seconds; inadvertent export: export between 2 seconds and 60 seconds; and continuous export: export greater than 60 seconds). Additionally points of interconnection with PG&E, as well as locations and type of protection equipment and disconnect switches should be identified.

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**APPENDIX B
RULES "2" AND "21"**

(Note: PG&E's electric Rules "2" and "21" may be subject to such changes or modifications by the Commission as the Commission may, from time to time, direct in the exercise of its jurisdiction. PG&E's tariffs, including Rules "2" and "21" can be accessed via the PG&E website at www.pge.com/tariffs. Upon request, PG&E can provide copies to Producer of Rules "2" and "21.")

**GENERATING FACILITY INTERCONNECTION AGREEMENT
(ELIGIBLE/NON-ELIGIBLE NEM GENERATING FACILITY EXPORT)
PACIFIC GAS AND ELECTRIC COMPANY**

**APPENDIX C
(If Applicable)
RULE 21 "SPECIAL FACILITIES" AGREEMENT
(Formed between the Parties)**

**GENERATING FACILITY INTERCONNECTION AGREEMENT
(ELIGIBLE/NON-ELIGIBLE NEM GENERATING FACILITY EXPORT)
PACIFIC GAS AND ELECTRIC COMPANY**

**APPENDIX D
(When applicable)**

PRODUCER'S WARRANTY THAT THE GENERATING FACILITY IS A "COGENERATION FACILITY" PURSUANT TO SECTION 218.5 OF THE CALIFORNIA PUBLIC UTILITIES CODE

For the purpose of securing the Competition Transition Charge exemption available under Section 372 of the PU Code, Producer hereby declares that the Generating Facility meets the requirements for "Cogeneration" as such term is used in Section 218.5 of the PU Code ("Cogeneration Requirements").

Producer warrants that, beginning on the date of Initial Operation and continuing throughout the term of this Agreement, the Generating Facility shall continue to meet the Cogeneration Requirements. If Producer becomes aware that its Generating Facility has ceased to meet the Cogeneration Requirements, Producer shall promptly provide PG&E with Notice of such change pursuant to Section 9.1 of the Agreement. If at any time during the term of this Agreement PG&E determines in its sole discretion that Producer's Generating Facility may no longer meet the Cogeneration Requirements, PG&E may require Producer to provide evidence that the Generating Facility continues to meet the Cogeneration Requirements within 15 business days of PG&E's request for such evidence. Additionally, PG&E may periodically (typically, once per year) inspect Producer's Generating Facility and/or require documentation from Producer to monitor the Generating Facility's compliance with the Cogeneration Requirements. If PG&E determines in its sole judgment that Producer either failed to provide evidence in a timely manner or that it provided insufficient evidence that its Generating Facility continues to meet the Cogeneration Requirements, then the Cogeneration status of the Generating Facility shall be deemed ineffective until such time as Producer again demonstrates to PG&E's reasonable satisfaction that the Generating Facility meets the requirements for a Cogeneration facility (the "Cogeneration Status Change").

PG&E shall revise its records and the administration of this Agreement to reflect the Cogeneration Status Change and provide Notice to Producer of the Cogeneration Status Change pursuant to Section 9.1 of this Agreement. Such Notice shall specify the effective date of the Cogeneration Status Change. This date shall be the first day of the calendar year for which PG&E determines in its sole discretion that the Generating Facility first ceased to meet the Cogeneration Requirements. PG&E shall invoice the Producer's electric service account through which the Generating Facility is Interconnected with PG&E's Distribution System for Competition Transition Charges ("CTCs") that were not previously billed during the period between the effective date of the Status Change and the date of the Notice in reliance upon Producer's representations that the Generating Facility complied with the Cogeneration Requirements and therefore was eligible for the exemption from CTCs available under Section 372 of the PU Code.

Any amounts to be paid or refunded by Producer, as may be invoiced by PG&E pursuant to the terms of this warranty, shall be paid to PG&E within 30 days of Producer's receipt of such invoice.

**GENERATING FACILITY INTERCONNECTION AGREEMENT
(ELIGIBLE/NON-ELIGIBLE NEM GENERATING FACILITY EXPORT)
PACIFIC GAS AND ELECTRIC COMPANY**

**APPENDIX E
(When applicable)**

PRODUCER'S WARRANTY THAT THE GENERATING FACILITY IS A "DISTRIBUTED ENERGY RESOURCES GENERATION" FACILITY PURSUANT TO SECTION 353.1 OF THE CALIFORNIA PUBLIC UTILITIES CODE

For the purpose of securing the tariff charge exemption available under Section 353.3 of the PU Code, Producer hereby declares that the Generating Facility meets the requirements for "Distributed Energy Resources Generation" as such term is used in Section 353.1 of the PU Code ("DERG Requirements").

Producer warrants that, beginning on the date of Initial Operation and continuing throughout the term of this Agreement, its Generating Facility shall continue to meet the DERG Requirements. If Producer becomes aware that the Generating Facility has ceased to meet the DERG Requirements, Producer shall promptly provide PG&E with Notice of such change pursuant to Section 9.1 of the Agreement. If at any time during the term of this Agreement PG&E determines in its sole discretion that Producer's Generating Facility may no longer meet the DERG Requirements, PG&E may require Producer to provide evidence that the Generating Facility continues to meet the DERG Requirements within 15 business days of PG&E's request for such evidence. Additionally, PG&E may periodically (typically, once per year) inspect Producer's Generating Facility and/or require documentation from Producer to monitor the Generating Facility's compliance with the DERG Requirements. If PG&E determines in its sole judgment that Producer either failed to provide evidence in a timely manner or that it provided insufficient evidence that its Generating Facility continues to meet the DERG Requirements, then the Distributed Energy Resources Generation status of the Generating Facility shall be deemed ineffective until such time as Producer again demonstrates to PG&E's reasonable satisfaction that the Generating Facility meets the requirements for a Distributed Energy Resources Generation facility (the "DERG Status Change").

PG&E shall revise its records and the administration of this Agreement to reflect the DERG Status Change and provide Notice to Producer of the DERG Status Change pursuant to Section 9.1 of this Agreement. Such Notice shall specify the effective date of the DERG Status Change. This date shall be the first day of the calendar year for which PG&E determines in its sole discretion that the Generating Facility first ceased to meet the DERG Requirements. PG&E shall invoice the Producer electric service account through which the Generating Facility is Interconnected with PG&E's Distribution System for any tariff charges that were not previously billed during the period between the effective date of the DERG Status Change and the date of the Notice in reliance upon Producer's representations that the Generating Facility complied with the DERG Requirements and therefore was eligible for the exemption from tariff charges available under Section 353.3 of the PU Code.

Any amounts to be paid or refunded by Producer, as may be invoiced by PG&E pursuant to the terms of this warranty, shall be paid to PG&E within 30 days of Producer's receipt of such invoice.

**GENERATING FACILITY INTERCONNECTION AGREEMENT
(ELIGIBLE/NON-ELIGIBLE NEM GENERATING FACILITY EXPORT)
PACIFIC GAS AND ELECTRIC COMPANY**

APPENDIX F

(When applicable)

**PRODUCER'S WARRANTY THAT THE GENERATING FACILITY IS
AN ELIGIBLE BIOGAS ELECTRICAL GENERATING FACILITY
PURSUANT TO SECTION 2827.9 OF THE CALIFORNIA PUBLIC UTILITIES CODE**

Producer has declared that the Generating Facility meets the requirements for an "Eligible Biogas Electrical Generating Facility", as defined in Section 2827.9 of the California Public Utilities Code. ("Eligibility Requirements").

Producer warrants that, beginning on the date of Initial Operation and continuing throughout the term of this Agreement, its Generating Facility shall continue to meet the Eligibility Requirements. If Producer becomes aware that the Generating Facility has ceased to meet the Eligibility Requirements, Producer shall promptly provide PG&E with Notice of such change pursuant to Section 9.1 of the Agreement. If at any time during the term of this Agreement PG&E determines in its sole discretion that Producer's Generating Facility may no longer meet the Eligibility Requirements, PG&E may require Producer to provide evidence that the Generating Facility continues to meet the Eligibility Requirements within 15 business days of PG&E's request for such evidence. Additionally, PG&E may periodically (typically, once per year) inspect Producer's Generating Facility and/or require documentation from Producer to monitor the Generating Facility's compliance with the Eligibility Requirements. If PG&E determines in its sole judgment that Producer either failed to provide evidence in a timely manner or that it provided insufficient evidence that its Generating Facility continues to meet the Eligibility Requirements, then the Distributed Energy Resources Generation status of the Generating Facility shall be deemed ineffective until such time as Producer again demonstrates to PG&E's reasonable satisfaction that the Generating Facility meets the requirements for a Distributed Energy Resources Generation facility (the "Eligibility Status Change").

PG&E shall revise its records and the administration of this Agreement to reflect the Eligibility Status Change and provide Notice to Producer of the Eligibility Status Change pursuant to Section 9.1 of this Agreement. Such Notice shall specify the effective date of the Eligibility Status Change. This date shall be the first day of the calendar year for which PG&E determines in its sole discretion that the Generating Facility first ceased to meet the Eligibility Requirements. PG&E shall invoice the Producer for any tariff charges that were not previously billed during the period between the effective date of the Eligibility Status Change and the date of the Notice in reliance upon Producer's representations that the Generating Facility complied with the Eligibility Requirements and therefore was eligible for the rate treatment available under the Net Energy Metering provisions of PG&E's Schedule NEM-BIO, Experimental Biogas Net Energy Metering.

Any amounts to be paid or refunded by Producer, as may be invoiced by PG&E pursuant to the terms of this warranty, shall be paid to PG&E within 30 days of Producer's receipt of such invoice.



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Ancillary Services Coalition	Dutcher, John	Price, Roy
Anderson Donovan & Poole P.C.	Dynegy Inc.	Product Development Dept
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Barkovich & Yap, Inc.	Exeter Associates	RMC Lonestar
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Calpine	International Power Technology	Tabors Caramanis & Associates
Calpine Corp	Interstate Gas Services, Inc.	Tecogen, Inc
Calpine Gilroy Cogen	IUCG/Sunshine Design LLC	TFS Energy
Cambridge Energy Research Assoc	J. R. Wood, Inc	Transcanada
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Cardinal Cogen	Luce, Forward, Hamilton & Scripps	U S Borax, Inc
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Childress, David A.	Maynor, Donald H.	Utility Resource Network
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CLECA Law Office	Modesto Irrigation Dist	
Commerce Energy	Morrison & Foerster	
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