



**Pacific Gas and  
Electric Company**

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January 14, 2005

**Advice 2614-E  
(Pacific Gas and Electric Company ID U 39 E)**

Public Utilities Commission of the State of California

**Subject: Revisions to the Names of Electric Rate Schedules 1) *E-NET – Net Energy Metering Service* and 2) *E-BIO – Net Energy Metering Service For Biogas Customer-Generators***

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

### **Purpose**

The purpose of this filing is to obtain CPUC approval to revise the names of two of PG&E's net energy metering tariffs and create additional new abbreviated names to better reflect variations in 1) the forms customer-generators must fill out based on the type of account and size of the generator, 2) the different billing treatments set out in California Public Utilities Code sections 2827 h and 2827.9. The changes sought in this filing concern tariff names only and will not otherwise change any terms in the existing tariffs. In the event that the CPUC acts upon other outstanding advice letters pertaining to E-NET or E-BIO (mainly, 2560-E filed September 20, 2004; 2564-E filed October 14, 2004; 2587-E filed November 15, 2004), PG&E will submit a supplemental filing to 2614-E, incorporating changes approved in this filing.

### **Background**

Since AB 58 became effective on January 1, 2003, California Public Utilities Code section 2827 has required that customers taking service on Rate Schedule E-NET be handled in one of four ways. To make sure the tariff names better reflect these differences, PG&E proposes the following:

1) Pursuant to 2827 h. **residential and small commercial** customer-generators may pay monthly or annually for net energy consumed.

- a) PG&E proposes in this filing to change the name of the ENET service for customers in this category with generators 10 kW or smaller to Rate Schedule **NEMS**.
- b) PG&E proposes in this filing to change the name of the ENET service for customers in this category with generators larger than 10 KW to **NEMEXP**.

2) Pursuant to 2827 h (2)(c) all (other) **commercial, industrial and agricultural** customer-generators must pay the net balance of moneys owed "in accordance with the electric service provider's normal billing cycle" (i.e. monthly).

- a) PG&E proposes in this filing to change the name of the ENET service for customers in this category to Rate Schedule **NEMEXPM**.

3) Pursuant to Public Utilities Code section 2827.8 ENET customers with wind generating facilities greater than 50kW but less than 1 MW, are **wind energy co-metering customers**. A different methodology is used to bill these customers using a meter capable of separately registering generation and usage and with credits to the customer for exports calculated using the generation component of the energy charge for the customer's otherwise applicable rate schedule.

- a) PG&E proposes in this filing to change the name of the ENET service for customers in this category to **Rate Schedule NEMW**.

Rate Schedule E-BIO, *Net Energy Metering Service For Biogas Customer-Generators*, created pursuant to AB 2228, effective January 1, 2003 (Public Utilities Code section 2827.9), provides that customers taking service on Rate Schedule E-BIO are billed in one of two ways:

1) For all customers except dairies, the account with the biogas generator serves only the load on that one account.

- a) PG&E proposes to change to name of the EBIO service for customers in this category to Rate Schedule **NEMBIO**.

2) Pursuant to Public Utilities Code section 2827.9 (e)(1), dairies may aggregate the load of eligible accounts other than those served directly by the biogas generator.

- a) PG&E proposes to change the name of the EBIO service for customers in this category to Rate Schedule **NEMBIOA**.

PG&E hereby submits the revised tariffs.

### Tariff Revisions

The name of Rate Schedule *E-NET – Net Energy Metering Service* would generally be changed to Rate Schedule NEM and would include a new section called RATE OPTIONS describing the new short names for the various categories:

1. *NEMS – For residential and small commercial (as defined in subdivision (h) of Section 331 of the CPU Code) customer-generators taking service with generating facilities not more than 10kw.*
2. *NEMEXP – For residential and small commercial customer-generators with generating facilities greater than 10kW.*
3. *NEMEXPM – For all other commercial, industrial customer-generators, and agricultural customers (see special condition 2(d))*
4. *NEMW – For Customer-generators taking service under Special Condition 5 of this tariff.*

In addition, a table listing the proper application and interconnection agreement for each rate option would be added to Special Condition 3.

The name of Rate Schedule *E-BIO, Net Energy Metering Service For Biogas Customer-Generators*, would generally be changed to Rate Schedule NEMBIO and would include a new section describing the new short names to the two variations.

*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.*

Various other rate schedules that reference the E-NET or E-BIO tariff will be changed to reflect the new name of these tariffs.

This filing will not increase any rate or charge, cause the withdrawal of service, or conflict with any rate schedule or rule.

**Protests**

Anyone wishing to protest this filing may do so by sending a letter by **February 3, 2005**, which is 20 days from the date of this filing. The protest must state the grounds upon which it is based, including such items as financial and service impact, and should be submitted expeditiously. Protests should be mailed to:

IMC Branch Chief – Energy Division  
California Public Utilities Commission  
505 Van Ness Avenue, 4<sup>th</sup> Floor  
San Francisco, California 94102

Facsimile: (415) 703-2200  
E-mail: [jjr@cpuc.ca.gov](mailto:jjr@cpuc.ca.gov)

Protests also should be sent by e-mail and facsimile to Mr. Jerry Royer, Energy Division, as shown above, and by U.S. mail to Mr. Royer at the above address.

The protest should be sent via both e-mail and facsimile to PG&E on the same date it is mailed or delivered to the Commission at the address shown below.

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

Facsimile: (415) 973-7226  
E-mail: [RxDd@pge.com](mailto:RxDd@pge.com)

**Effective Date**

PG&E requests that this advice filing become effective February 13, 2005, which is 40 days from the date of this filing.

**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. 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>

*Brian K. Cherry, s.e.c.*

Director - Regulatory Relations

Attachments

cc: Service List R. 04-03-017

Cal P.U.C. Sheet No.	Title of Sheet	Cancelling Cal P.U.C. Sheet No.
22648-E	Schedule E-1	22495-E
22649-E	Schedule EM	22505-E
22650-E	Schedule ES	22508-E
22651-E	Schedule ESR	22511-E
22652-E	Schedule ET	22514-E
22653-E	Schedule E-7	22517-E
22654-E	Schedule E-A7	22520-E
22655-E	Schedule E-8	22159-E
22656-E	Schedule E-9	21291-E
22657-E	Schedule EL-1	22530-E
22658-E	Schedule EML	22170-E
22659-E	Schedule ESL	22535-E
22660-E	Schedule ESRL	22538-E
22661-E	Schedule ETL	22541-E
22662-E	Schedule EL-7	21325-E
22663-E	Schedule EL-A7	22545-E
22664-E	Schedule EL-8	22190-E
22665-E	Schedule E-FERA	21641-E
22666-E	Schedule A-1	22550-E
22667-E	Schedule A-6	21345-E
22668-E	Schedule A-10	21355-E
22669-E	Schedule E-19	21371-E
22670-E	Schedule E-20	20945-E
22671-E	Schedule E-25	22575-E
22672-E	Schedule E-36	21393-E
22673-E	Schedule E-37	22673-E
22674-E	Schedule S	21421-E
22675-E	Schedule NEMBIO	20465-E
22676-E	Schedule NEMBIO (cont'd)	20466-E
22677-E	Schedule NEMBIO (cont'd)	20467-E
22678-E	Schedule NEMBIO (cont'd)	20468-E
22679-E	Schedule NEMBIO (cont'd)	20469-E
22680-E	Schedule NEM	20840-E
22681-E	Schedule NEM (cont'd)	20841-E
22682-E	Schedule NEM (cont'd)	20842-E
22683-E	Schedule NEM (cont'd)	21430-E
22684-E	Schedule NEM (cont'd)	21431-E
22685-E	Schedule NEM (cont'd)	20845-E
22686-E	Schedule NEM (cont'd)	20846-E
22687-E	Schedule NEMFC	21479-E
22688-E	Rule 21 – Generating Facility Interconnections	20850-E
22689-E	Form No. 62-0683	19023-E

Cal P.U.C. Sheet No.	Title of Sheet	Cancelling Cal P.U.C. Sheet No.
22690-E	Form No. 62-0684	19024-E
22691-E	Form No. 62-0685	19025-E
22692-E	Form No. 62-0686	19026-E
22693-E	Form No. 62-0687	19027-E
22694-E	Form No. 79-854	20851-E
22695-E	Form No. 79-978	20852-E
22696-E	Form No. 79-994	20853-E
22697-E	Form No. 79-997	20471-E
22698-E	Form No. 79-998	20854-E
22699-E	Table of Contents (Forms - Cont'd)	22306-E
22700-E	Table of Contents (Forms)	22474-E
22701-E	Table of Contents (Rules)	22475-E
22702-E	Table of Contents - Rate Schedules (Cont'd)	22632-E
22703-E	Table of Contents - Rate Schedules	22635-E



SCHEDULE E-1—RESIDENTIAL SERVICE  
(Continued)

SPECIAL  
CONDITIONS:  
(Cont'd.)

9. BILLING: A customer's bill is calculated based on the option applicable to the customer.

**Bundled Service Customers** receive supply and delivery services solely from PG&E. The customer's bill is based on the total rates and conditions set forth in this schedule.

**Transitional Bundled Service Customers** take transitional bundled service as prescribed in Rule 22.1, or take bundled service prior to the end of the six (6) month advance notice period required to elect bundled portfolio service as prescribed in Rule 22.1. These customers shall pay charges for transmission, transmission rate adjustments, reliability services, distribution, nuclear decommissioning, public purpose programs, the FTA (where applicable), the RRBMA (where applicable), the DA CRS pursuant to Schedule DA CRS and short-term commodity prices as set forth in Schedule TBCC.

**Direct Access Customers** purchase energy from an energy service provider and continue receiving delivery services from PG&E. Direct Access bills are equal to the sum of charges for transmission, transmission rate adjustments, reliability services, distribution, public purpose programs, nuclear decommissioning, the FTA (where applicable), the RRBMA (where applicable), the franchise fee surcharge, and the Direct Access Cost Responsibility Surcharge (DA CRS). The DA CRS is equal to the sum of the individual charges set forth below. Exemptions to the DA CRS are set forth in Schedule DA CRS.

Regulatory Asset Charge (per kWh)	\$0.00623
DWR Power Charge (per kWh)	\$0.01011
DWR Bond Charge (per kWh)	\$0.00493
CTC Charge (per kWh)	\$0.00573
<b>Total DA CRS (per kWh)</b>	<b>\$0.02700</b>

10. FIXED TRANSITION AMOUNT: Residential customers are obligated to pay a FTA, also referred to as a Trust Transfer Amount (TTA), as described in Schedule E-RRB and defined in Preliminary Statement Part AS. In addition, residential customers receive the benefit of the RRBMA rate.
11. SOLAR GENERATION FACILITIES EXEMPTION: 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 Schedule NEM, will be exempt from paying the otherwise applicable standby reservation charges. (T)

(Continued)



SCHEDULE EM—MASTER-METERED MULTIFAMILY SERVICE

(Continued)

SPECIAL  
CONDITIONS:  
(Cont'd.)

10. BILLING: (Cont'd.)

**Bundled Service Customers** receive supply and delivery services solely from PG&E. The customer's bill is based on the Total Rates and Conditions set forth in this schedule.

**Transitional Bundled Service Customers** take transitional bundled service as prescribed in Rule 22.1, or take bundled service prior to the end of the six (6) month advance notice period required to elect bundled portfolio service as prescribed in Rule 22.1. These customers shall pay charges for transmission, transmission rate adjustments, reliability services, distribution, nuclear decommissioning, public purpose programs, the FTA (where applicable), the RRBMA (where applicable), the DA CRS pursuant to Schedule DA CRS and short-term commodity prices as set forth in Schedule TBCC.

**Direct Access Customers** purchase energy from an energy service provider and continue receiving delivery services from PG&E. Direct Access bills are equal to the sum of charges for transmission, transmission rate adjustments, reliability services, distribution, public purpose programs, nuclear decommissioning, the FTA (where applicable), the RRBMA (where applicable), the franchise fee surcharge, and the Direct Access Cost Responsibility Surcharge (DA CRS). The DA CRS is equal to the sum of the individual charges set forth below. Exemptions to the DA CRS are set forth in Schedule DA CRS.

Regulatory Asset Charge (per kWh)	\$0.00623
DWR Power Charge (per kWh)	\$0.01011
DWR Bond Charge (per kWh)	\$0.00493
CTC Charge (per kWh)	\$0.00573

Total DA CRS (per kWh) \$0.02700

11. FIXED TRANSITION AMOUNT: Residential customers are obligated to pay a FTA, also referred to as Trust Transfer Amount (TTA), as described in Schedule E-RRB and defined in Preliminary Statement Part AS. In addition, residential customers receive the benefit of the RRBMA rate.

12. SOLAR GENERATION FACILITIES EXEMPTION: 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 Schedule NEM, will be exempt from paying the otherwise applicable standby reservation charges.

(T)

(Continued)



SCHEDULE ES—MULTIFAMILY SERVICE

(Continued)

SPECIAL  
CONDITIONS:  
(Cont'd.)

10. BILLING: A customer's bill is calculated based on the option applicable to the customer.

**Bundled Service Customers** receive supply and delivery services solely from PG&E. The customer's bill is based on the Total Rates and Conditions set forth in this Schedule.

**Transitional Bundled Service Customers** take transitional bundled service as prescribed in Rule 22.1, or take bundled service prior to the end of the six (6) month advance notice period required to elect bundled portfolio service as prescribed in Rule 22.1. These customers shall pay charges for transmission, transmission rate adjustments, reliability services, distribution, nuclear decommissioning, public purpose programs, the FTA (where applicable), the RRBMA (where applicable), the DA CRS pursuant to Schedule DA CRS and short-term commodity prices as set forth in Schedule TBCC.

**Direct Access Customers** purchase energy from an energy service provider and continue receiving delivery services from PG&E. Direct Access bills are equal to the sum of charges for transmission, transmission rate adjustments, reliability services, distribution, public purpose programs, nuclear decommissioning, the FTA (where applicable), the RRBMA (where applicable), the franchise fee surcharge, and the Direct Access Cost Responsibility Surcharge (DA CRS). The DA CRS is equal to the sum of the individual charges set forth below. Exemptions to the DA CRS are set forth in Schedule DA CRS.

Regulatory Asset Charge (per kWh)	\$0.00623
DWR Power Charge (per kWh)	\$0.01011
DWR Bond Charge (per kWh)	\$0.00493
CTC Charge (per kWh)	\$0.00573
 Total DA CRS (per kWh)	 \$0.02700

11. FIXED TRANSITION AMOUNT: Residential customers are obligated to pay a FTA, also referred to as Trust Transfer Amount (TTA), as described in Schedule E-RRB and defined in Preliminary Statement Part AS. In addition, residential customers receive the benefit of the RRBMA rate.
12. SOLAR GENERATION FACILITIES EXEMPTION: 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 Schedule NEM, will be exempt from paying the otherwise applicable standby reservation charges. (T)

(Continued)



SCHEDULE ESR—RESIDENTIAL RV PARK AND RESIDENTIAL MARINA SERVICE  
(Continued)

SPECIAL  
CONDITIONS:  
(Cont'd.)

10. BILLING: (Cont'd.)

**Bundled Service Customers** receive supply and delivery services solely from PG&E. The customer's bill is based on the Total Rates and Conditions set forth in this schedule.

**Transitional Bundled Service Customers** take transitional bundled service as prescribed in Rule 22.1, or take bundled service prior to the end of the six (6) month advance notice period required to elect bundled portfolio service as prescribed in Rule 22.1. These customers shall pay charges for transmission, transmission rate adjustments, reliability services, distribution, nuclear decommissioning, public purpose programs, the FTA (where applicable), the RRBMA (where applicable), the DA CRS pursuant to Schedule DA CRS and short-term commodity prices as set forth in Schedule TBCC.

**Direct Access Customers** purchase energy from an energy service provider and continue receiving delivery services from PG&E. Direct Access bills are equal to the sum of charges for transmission, transmission rate adjustments, reliability services, distribution, public purpose programs, nuclear decommissioning, the FTA (where applicable), the RRBMA (where applicable), the franchise fee surcharge, and the Direct Access Cost Responsibility Surcharge (DA CRS). The DA CRS is equal to the sum of the individual charges set forth below. Exemptions to the DA CRS are set forth in Schedule DA CRS.

Regulatory Asset Charge (per kWh)	\$0.00623
DWR Power Charge (per kWh)	\$0.01011
DWR Bond Charge (per kWh)	\$0.00493
CTC Charge (per kWh)	\$0.00573

Total DA CRS (per kWh) \$0.02700

11. **FIXED TRANSITION AMOUNT:** Residential customers are obligated to pay a FTA, also referred to as a Trust Transfer Amount (TTA), as described in Schedule E-RRB and defined in Preliminary Statement Part AS. In addition, residential customers receive the benefit of the RRBMA rate.

12. **SOLAR GENERATION FACILITIES EXEMPTION:** 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 Schedule NEM, will be exempt from paying the otherwise applicable standby reservation charges.

(T)



SCHEDULE ET—MOBILEHOME PARK SERVICE

(Continued)

SPECIAL  
CONDITIONS:  
(Cont'd.)

11. BILLING: A customer's bill is calculated based on the option applicable to the customer.

**Bundled Service Customers** receive supply and delivery services solely from PG&E. The customer's bill is based on the Total Rates and Conditions set forth in this schedule.

**Transitional Bundled Service Customers** take transitional bundled service as prescribed in Rule 22.1, or take bundled service prior to the end of the six (6) month advance notice period required to elect bundled portfolio service as prescribed in Rule 22.1. These customers shall pay charges for transmission, transmission rate adjustments, reliability services, distribution, nuclear decommissioning, public purpose programs, the FTA (where applicable), the RRBMA (where applicable), the DA CRS pursuant to Schedule DA CRS and short-term commodity prices as set forth in Schedule TBCC.

**Direct Access Customers** purchase energy from an energy service provider and continue receiving delivery services from PG&E. Direct Access bills are equal to the sum of charges for transmission, transmission rate adjustments, reliability services, distribution, public purpose programs, nuclear decommissioning, the FTA (where applicable), the RRBMA (where applicable), the franchise fee surcharge, and the Direct Access Cost Responsibility Surcharge (DA CRS). The DA CRS is equal to the sum of the individual charges set forth below. Exemptions to the DA CRS are set forth in Schedule DA CRS.

Regulatory Asset Charge (per kWh)	\$0.00623
DWR Power Charge (per kWh)	\$0.01011
DWR Bond Charge (per kWh)	\$0.00493
CTC Charge (per kWh)	\$0.00573
<b>Total DA CRS (per kWh)</b>	<b>\$0.02700</b>

12. FIXED TRANSITION AMOUNT: Residential customers are obligated to pay a FTA, also referred to as a Trust Transfer Amount (TTA), as described in Schedule E-RRB and defined in Preliminary Statement Part AS. In addition, residential customers receive the benefit of the RRBMA rate.
13. SOLAR GENERATION FACILITIES EXEMPTION: 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 Schedule NEM, will be exempt from paying the otherwise applicable standby reservation charges. (T)

(Continued)



SCHEDULE E-7—RESIDENTIAL TIME-OF-USE SERVICE  
(Continued)

SPECIAL  
CONDITIONS:  
(Cont'd.)

8. BILLING (Cont'd):

Regulatory Asset Charge (per kWh)	\$0.00623
DWR Power Charge (per kWh)	\$0.01011
DWR Bond Charge (per kWh)	\$0.00493
CTC Charge (per kWh)	\$0.00573
 Total DA CRS (per kWh)	 \$0.02700

9. FIXED TRANSITION AMOUNT: Residential customers are obligated to pay a FTA, also referred to as a Trust Transfer Amount (TTA), as described in Schedule E-RRB and defined in Preliminary Statement Part AS. In addition, residential customers receive the benefit of the RRBMA rate.

10. SOLAR GENERATION FACILITIES EXEMPTION: 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 Schedule NEM, will be exempt from paying the otherwise applicable standby reservation charges. (T)

11. DISTRIBUTED ENERGY RESOURCES EXEMPTION: 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 shall be subject to the following requirements. Customers qualifying for an exemption from standby charges under Public Utilities (PU) Code Sections 353.1 and 353.3, as described above, must take service on a time-of-use (TOU) schedule in order to receive this exemption until a real-time pricing program, as described in PU Code 353.3, is made available. Once available, customers qualifying for the standby charge 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 time-of-use (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.

12. DWR BOND CHARGE: The Department of Water Resources (DWR) Bond Charge was imposed by California Public Utilities Commission Decision 02-10-063, as modified by Decision 02-12-082, and is property of DWR for all purposes under California law. The Bond Charge applies to all retail sales, excluding CARE and Medical Baseline sales. The DWR Bond Charge (where applicable) is included in customers' total billed amounts.



SCHEDULE E-A7—EXPERIMENTAL RESIDENTIAL ALTERNATE PEAK TIME-OF-USE SERVICE  
(Continued)

SPECIAL  
CONDITIONS:  
(Cont'd.)

8. BILLING (Cont'd.):

Regulatory Asset Charge (per kWh)	\$0.00623
DWR Power Charge (per kWh)	\$0.01011
DWR Bond Charge (per kWh)	\$0.00493
CTC Charge (per kWh)	\$0.00573
 Total DA CRS (per kWh)	 \$0.02700

9. FIXED TRANSITION AMOUNT: Residential customers are obligated to pay a FTA, also referred to as a Trust Transfer Amount (TTA), as described in Schedule E-RRB and defined in Preliminary Statement Part AS. In addition, residential customers receive the benefit of the RRBMA rate.

10. SOLAR GENERATION FACILITIES EXEMPTION: 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 Schedule NEM, will be exempt from paying the otherwise applicable standby reservation charges. (T)

11. DISTRIBUTED ENERGY RESOURCES EXEMPTION: 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 shall be subject to the following requirements. Customers qualifying for an exemption from standby charges under Public Utilities (PU) Code Sections 353.1 and 353.3, as described above, must take service on a time-of-use (TOU) schedule in order to receive this exemption until a real-time pricing program, as described in PU Code 353.3, is made available. Once available, customers qualifying for the standby charge exemption must participate in the real-time program referred to above. Qualification for and receipt this distributed energy resources exemption does not exempt the customer from metering charges applicable to time-of-use (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.

12. DWR BOND CHARGE: The Department of Water Resources (DWR) Bond Charge was imposed by California Public Utilities Commission Decision 02-10-063, as modified by Decision 02-12-082, and is property of DWR for all purposes under California law. The Bond Charge applies to all retail sales, excluding CARE and Medical Baseline sales. The DWR Bond Charge (where applicable) is included in customers' total billed amounts.



SCHEDULE E-8—RESIDENTIAL SEASONAL SERVICE OPTION  
(Continued)

SPECIAL  
CONDITIONS:  
(Cont'd.)

6. **FIXED TRANSITION AMOUNT:** Residential customers are obligated to pay a FTA, also referred to as a Trust Transfer Amount (TTA), as described in Schedule E-RRB and defined in Preliminary Statement Part AS. In addition, residential customers receive the benefit of the RRBMA rate.
  
7. **SOLAR GENERATION FACILITIES EXEMPTION:** 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 Schedule NEM, will be exempt from paying the otherwise applicable standby reservation charges. (T)
  
8. **DISTRIBUTED ENERGY RESOURCES EXEMPTION:** 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 shall be subject to the following requirements. Customers qualifying for an exemption from standby charges under Public Utilities (PU) Code Sections 353.1 and 353.3, as described above, must transfer to Schedule E-7, to receive this exemption until a real-time pricing program, as described in PU Code 353.3, is made available. Once available, customers qualifying for the standby charge 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 time-of-use (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.
  
9. **DWR BOND CHARGE:** The Department of Water Resources (DWR) Bond Charge was imposed by California Public Utilities Commission Decision 02-10-063, as modified by Decision 02-12-082, and is property of DWR for all purposes under California law. The Bond Charge applies to all retail sales, excluding CARE and Medical Baseline sales. The DWR Bond Charge (where applicable) is included in customers' total billed amounts.



SCHEDULE E-9—EXPERIMENTAL RESIDENTIAL TIME-OF-USE SERVICE  
FOR LOW EMISSION VEHICLE CUSTOMERS  
(Continued)

SPECIAL  
CONDITIONS:  
(Cont'd.)

9. SOLAR GENERATION FACILITIES EXEMPTION: 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 Schedule NEM, will be exempt from paying the otherwise applicable standby reservation charges. (T)

DISTRIBUTED ENERGY RESOURCES EXEMPTION: 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 shall be subject to the following requirements. Customers qualifying for an exemption from standby charges under Public Utilities (PU) Code Sections 353.1 and 353.3, as described above, must take service on a time-of-use (TOU) schedule in order to receive this exemption until a real-time pricing program, as described in PU Code 353.3, is made available. Once available, customers qualifying for the standby charge 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 time-of-use (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.

10. DWR BOND CHARGE: The Department of Water Resources (DWR) Bond Charge was imposed by California Public Utilities Commission Decision 02-10-063, as modified by Decision 02-12-082, and is property of DWR for all purposes under California law. The Bond Charge applies to all retail sales, excluding CARE and Medical Baseline sales. The DWR Bond Charge (where applicable) is included in customers' total billed amounts.



SCHEDULE EL-1—RESIDENTIAL CARE PROGRAM SERVICE  
(Continued)

SPECIAL  
CONDITIONS:  
(Cont'd.)

9. BILLING (Cont'd.):

Regulatory Asset Charge (per kWh)	\$0.00623
DWR Power Charge (per kWh)	\$0.00000
DWR Bond Charge (per kWh)	\$0.00000
CTC Charge (per kWh)	\$0.00573

Total DA CRS (per kWh)                      \$0.01196

10. FIXED TRANSITION AMOUNT: Residential customers are obligated to pay a FTA, also referred to as a Trust Transfer Amount (TTA), as described in Schedule E-RRB and defined in Preliminary Statement Part AS. In addition, residential customers receive the benefit of the RRBMA rate.

11. SOLAR GENERATION FACILITIES EXEMPTION: 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 Schedule NEM, will be exempt from paying the otherwise applicable standby reservation charges. (T)

12. DISTRIBUTED ENERGY RESOURCES EXEMPTION: 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 shall be subject to the following requirements. Customers qualifying for an exemption from standby charges under Public Utilities (PU) Code Sections 353.1 and 353.3, as described above, must transfer to Schedule EL-7, to receive this exemption until a real-time pricing program, as described in PU Code 353.3, is made available. Once available, customers qualifying for the standby charge 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 time-of-use (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.

13. DWR BOND CHARGE: The Department of Water Resources (DWR) Bond Charge was imposed by California Public Utilities Commission Decision 02-10-063, as modified by Decision 02-12-082, and is property of DWR for all purposes under California law. The Bond Charge applies to all retail sales, excluding CARE and Medical Baseline sales. The DWR Bond Charge (where applicable) is included in customers' total billed amounts.



SCHEDULE EML—MASTER-METERED MULTIFAMILY CARE PROGRAM SERVICE  
(Continued)

SPECIAL  
CONDITIONS:  
(Cont'd.)

- 10. **FIXED TRANSITION AMOUNT:** Residential customers are obligated to pay a FTA, also referred to as a Trust Transfer Amount (TTA), as described in Schedule E-RRB and defined in Preliminary Statement Part AS. In addition, residential customers receive the benefit of the RRBMA rate.
- 11. **SOLAR GENERATION FACILITIES EXEMPTION:** 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 Schedule NEM, will be exempt from paying the otherwise applicable standby reservation charges. (T)
- 12. **DISTRIBUTED ENERGY RESOURCES EXEMPTION:** 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 shall be subject to the following requirements. Customers qualifying for an exemption from standby charges under Public Utilities (PU) Code Sections 353.1 and 353.3, as described above, must transfer to Schedule EL-7, to receive this exemption until a real-time pricing program, as described in PU Code 353.3, is made available. Once available, customers qualifying for the standby charge 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 time-of-use (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.
- 13. **DWR BOND CHARGE:** The Department of Water Resources (DWR) Bond Charge was imposed by California Public Utilities Commission Decision 02-10-063, as modified by Decision 02-12-082, and is property of DWR for all purposes under California law. The Bond Charge applies to all retail sales, excluding CARE and Medical Baseline sales. The DWR Bond Charge (where applicable) is included in customers' total billed amounts.



SCHEDULE ESL—MULTIFAMILY CARE PROGRAM SERVICE  
(Continued)

SPECIAL  
CONDITIONS:  
(Cont'd.)

10. BILLING: (Cont'd.)

Direct Access Customers purchase energy from an energy service provider and continue receiving delivery services from PG&E. Direct Access bills are equal to the sum of charges for transmission, transmission rate adjustments, reliability services, distribution, public purpose programs, nuclear decommissioning, the FTA (where applicable), the RRBMA (where applicable), the franchise fee surcharge, and the Direct Access Cost Responsibility Surcharge (DA CRS). The DA CRS is equal to the sum of the individual charges set forth below. Exemptions to the DA CRS are set forth in Schedule DA CRS.

	CARE AND MEDICAL BASELINE USE	NON-QUALIFYING CARE USE
Regulatory Asset Charge (per kWh)	\$0.00623	\$0.00623
DWR Power Charge (per kWh)	\$0.00000	\$0.01011
DWR Bond Charge (per kWh)	\$0.00000	\$0.00493
CTC Charge (per kWh)	\$0.00573	\$0.00573
Total DA CRS (per kWh)	\$0.01196	\$0.02700

11. FIXED TRANSITION AMOUNT: Residential customers are obligated to pay a FTA, also referred to as a Trust Transfer Amount (TTA), as described in Schedule E-RRB and defined in Preliminary Statement Part AS. In addition, residential customers receive the benefit of the RRBMA rate.

12. SOLAR GENERATION FACILITIES EXEMPTION: 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 Schedule NEM, will be exempt from paying the otherwise applicable standby reservation charges. (T)

(Continued)



SCHEDULE ESRL—RESIDENTIAL RV PARK AND RESIDENTIAL MARINA CARE PROGRAM SERVICE  
(Continued)

SPECIAL  
CONDITIONS:  
(Cont'd.)

10. BILLING: (Cont'd.)

Direct Access Customers purchase energy from an energy service provider and continue receiving delivery services from PG&E. Direct Access bills are equal to the sum of charges for transmission, transmission rate adjustments, reliability services, distribution, public purpose programs, nuclear decommissioning, the FTA (where applicable), the RRBMA (where applicable), the franchise fee surcharge, and the Direct Access Cost Responsibility Surcharge (DA CRS). The DA CRS is equal to the sum of the individual charges set forth below. Exemptions to the DA CRS are set forth in Schedule DA CRS.

	CARE AND MEDICAL BASELINE USE	NON-QUALIFYING CARE USE
Regulatory Asset Charge (per kWh)	\$0.00623	\$0.00623
DWR Power Charge (per kWh)	\$0.00000	\$0.01011
DWR Bond Charge (per kWh)	\$0.00000	\$0.00493
CTC Charge (per kWh)	\$0.00573	\$0.00573
Total DA CRS (per kWh)	\$0.01196	\$0.02700

11. FIXED TRANSITION AMOUNT: Residential customers are obligated to pay a FTA, also referred to as a Trust Transfer Amount (TTA), as described in Schedule E-RRB and defined in Preliminary Statement Part AS. In addition, residential customers receive the benefit of the RRBMA rate.

12. SOLAR GENERATION FACILITIES EXEMPTION: 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 Schedule NEM, will be exempt from paying the otherwise applicable standby reservation charges. (T)

(Continued)



SCHEDULE ETL—MOBILE HOME PARK CARE PROGRAM SERVICE  
(Continued)

SPECIAL  
CONDITIONS:  
(Cont'd.)

11. BILLING: (Cont'd.)

**Bundled Service Customers** receive supply and delivery services solely from PG&E. The customer's bill is based on the Total Rates and Conditions set forth in this schedule.

**Transitional Bundled Service Customers** take transitional bundled service as prescribed in Rule 22.1, or take bundled service prior to the end of the six (6) month advance notice period required to elect bundled portfolio service as prescribed in Rule 22.1. These customers shall pay charges for transmission, transmission rate adjustments, reliability services, distribution, nuclear decommissioning, public purpose programs, the FTA (where applicable), the RRBMA (where applicable), the DA CRS pursuant to Schedule DA CRS and short-term commodity prices as set forth in Schedule TBCC.

**Direct Access Customers** purchase energy from an energy service provider and continue receiving delivery services from PG&E. Direct Access bills are equal to the sum of charges for transmission, transmission rate adjustments, reliability services, distribution, public purpose programs, nuclear decommissioning, the FTA (where applicable), the RRBMA (where applicable), the franchise fee surcharge, and the Direct Access Cost Responsibility Surcharge (DA CRS). The DA CRS is equal to the sum of the individual charges set forth below. Exemptions to the DA CRS are set forth in Schedule DA CRS.

	CARE AND MEDICAL BASELINE USE	NON- QUALIFYING CARE USE
Regulatory Asset Charge (per kWh)	\$0.00623	\$0.00623
DWR Power Charge (per kWh)	\$0.00000	\$0.01011
DWR Bond Charge (per kWh)	\$0.00000	\$0.00493
CTC Charge (per kWh)	\$0.00573	\$0.00573
Total DA CRS (per kWh)	\$0.01196	\$0.02700

12. **FIXED TRANSITION AMOUNT:** Residential customers are obligated to pay a FTA, also referred to as a Trust Transfer Amount (TTA), as described in Schedule E-RRB and defined in Preliminary Statement Part AS. In addition, residential customers receive the benefit of the RRBMA rate.

13. **SOLAR GENERATION FACILITIES EXEMPTION:** 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 Schedule NEM, will be exempt from paying the otherwise applicable standby reservation charges. (T)

(Continued)



SCHEDULE EL-7—RESIDENTIAL CARE PROGRAM TIME-OF-USE SERVICE  
(Continued)

SPECIAL  
CONDITIONS:  
(Cont'd.)

10. SOLAR GENERATION FACILITIES EXEMPTION: 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 Schedule NEM, will be exempt from paying the otherwise applicable standby reservation charges. (T)
  
11. DISTRIBUTED ENERGY RESOURCES EXEMPTION: 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 shall be subject to the following requirements. Customers qualifying for an exemption from standby charges under Public Utilities (PU) Code Sections 353.1 and 353.3, as described above, must take service on a time-of-use (TOU) schedule in order to receive this exemption until a real-time pricing program, as described in PU Code 353.3, is made available. Once available, customers qualifying for the standby charge exemption must participate in the real-time program referred to above. Qualification for and receipt of this distributed resources energy exemption does not exempt the customer from metering charges applicable to time-of-use (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.
  
12. DWR BOND CHARGE: The Department of Water Resources (DWR) Bond Charge was imposed by California Public Utilities Commission Decision 02-10-063, as modified by Decision 02-12-082, and is property of DWR for all purposes under California law. The Bond Charge applies to all retail sales, excluding CARE and Medical Baseline sales. The DWR Bond Charge (where applicable) is included in customers' total billed amounts.



SCHEDULE EL-A7—EXPERIMENTAL RESIDENTIAL CARE PROGRAM ALTERNATE PEAK TIME-OF-USE SERVICE  
(Continued)

SPECIAL  
CONDITIONS:  
(Cont'd.)

8. BILLING: A customer's bill is calculated based on the option applicable to the customer.

**Bundled Service Customers** receive supply and delivery services solely from PG&E. The customer's bill is based on the Total Rates and Conditions set forth in this schedule.

**Transitional Bundled Service Customers** take transitional bundled service as prescribed in Rule 22.1, or take bundled service prior to the end of the six (6) month advance notice period required to elect bundled portfolio service as prescribed in Rule 22.1. These customers shall pay charges for transmission, transmission rate adjustments, reliability services, distribution, nuclear decommissioning, public purpose programs, the FTA (where applicable), the RRBMA (where applicable), the DA CRS pursuant to Schedule DA CRS and short-term commodity prices as set forth in Schedule TBCC.

**Direct Access Customers** purchase energy from an energy service provider and continue receiving delivery services from PG&E. Direct Access bills are equal to the sum of charges for transmission, transmission rate adjustments, reliability services, distribution, public purpose programs, nuclear decommissioning, the FTA (where applicable), the RRBMA (where applicable), the franchise fee surcharge, and the Direct Access Cost Responsibility Surcharge (DA CRS). The DA CRS is equal to the sum of the individual charges set forth below. Exemptions to the DA CRS are set forth in Schedule DA CRS.

Regulatory Asset Charge (per kWh)	\$0.00623
DWR Power Charge (per kWh)	\$0.00000
DWR Bond Charge (per kWh)	\$0.00000
CTC Charge (per kWh)	\$0.00573
<b>Total DA CRS (per kWh)</b>	<b>\$0.01196</b>

9. FIXED TRANSITION AMOUNT: Residential customers are obligated to pay a FTA, also referred to as a Trust Transfer Amount (TTA), as described in Schedule E-RRB and defined in Preliminary Statement Part AS. In addition, residential customers receive the benefit of the RRBMA rate.

10. SOLAR GENERATION FACILITIES EXEMPTION: 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 Schedule NEM, will be exempt from paying the otherwise applicable standby reservation charges. (T)

(Continued)



SCHEDULE EL-8—RESIDENTIAL SEASONAL CARE PROGRAM SERVICE OPTION  
(Continued)

SPECIAL  
CONDITIONS:  
(Cont'd.)

- 6. **FIXED TRANSITION AMOUNT:** Residential customers are obligated to pay a FTA, also referred to as a Trust Transfer Amount (TTA), as described in Schedule E-RRB and defined in Preliminary Statement Part AS. In addition, residential customers receive the benefit of the RRBMA rate.
- 7. **SOLAR GENERATION FACILITIES EXEMPTION:** 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 Schedule NEM, will be exempt from paying the otherwise applicable standby reservation charges. (T)
- 8. **DISTRIBUTED ENERGY RESOURCES EXEMPTION:** 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 shall be subject to the following requirements. Customers qualifying for an exemption from standby charges under Public Utilities (PU) Code Sections 353.1 and 353.3, as described above, must transfer to Schedule EL-7, to receive this exemption until a real-time pricing program, as described in PU Code 353.3, is made available. Once available, customers qualifying for the standby charge 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 time-of-use (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.
- 9. **DWR BOND CHARGE:** The Department of Water Resources (DWR) Bond Charge was imposed by California Public Utilities Commission Decision 02-10-063, as modified by Decision 02-12-082, and is property of DWR for all purposes under California law. The Bond Charge applies to all retail sales, excluding CARE and Medical Baseline sales. The DWR Bond Charge (where applicable) is included in customers' total billed amounts.



SCHEDULE E-FERA—FAMILY ELECTRIC RATE ASSISTANCE

**APPLICABILITY:** This schedule is applicable to single-phase and polyphase residential bundled service in single-family dwellings and in flats and apartments separately metered by PG&E and domestic submetered tenants residing in multifamily accommodations, mobilehome parks and to qualifying recreational vehicle parks and marinas and to farm service on the premises operated by the person who's residence is supplied through the same meter where the applicant qualified for Family Electric Rate Assistance (FERA) under the eligibility and certification criteria set forth below in Special Conditions 2 and 3.

All individually meter customers and submetered tenants must have a maximum annual household income of between 175% and 250% of federal poverty guidelines and have 3 or more persons residing full time in their household for that household to receive benefit of Schedule E-FERA.

**TERRITORY:** The entire territory served.

**RATES:** The rate of the customer's otherwise applicable rate schedule; E-1, E-7, E-A7, E-8, E-9 and NEM will apply except that all Tier 3 baseline usage will be billed at Tier 2 baseline rates. These conditions also apply to master-metered customers and to qualified sub-metered tenants where the master-meter customer is served under PG&E's Rate Schedule ES, ESL, ESR, ESRL, ET, or ETL. (T)

For master-metered customers, the FERA discount is equal to the Tier 3 usage assigned to non-CARE and non-medical units on a prorated basis times the difference between Tier 2 and Tier 3 rates multiplied by the number of FERA units divided by the sum of the number of non-CARE and non-medical units.

- SPECIAL CONDITIONS:**
1. **OTHERWISE APPLICABLE SCHEDULE:** The Special Conditions of the Customer's otherwise applicable rate schedule will apply to this schedule.
  2. **ELGIBILITY:** To be eligible to receive E-FERA the applicant must qualify under the criteria set forth below and meet the certification requirements thereof to the satisfaction of PG&E. Applicants may qualify for E-FERA at their primary residence only. Customers or sub-metered tenants participating in the California Alternate Rates for Energy (CARE) program or medical baseline program cannot concurrently participate in the FERA program. Master-metered customers without sub-metering on Schedule EM are ineligible to participate in the FERA program. In addition, non-residential customers taking service on Schedule E-CARE are categorically ineligible to take service on Schedule E-FERA. Direct Access and Transitional Bundled Service customers are also ineligible to take service on Schedule E-FERA. Customers on experimental residential Schedules E-2 and E-3 are also ineligible to participate in the FERA program.

(Continued)



SCHEDULE A-1—SMALL GENERAL SERVICE  
(Continued)

**BILLING:**  
(Cont'd.)

**Direct Access Customers** purchase energy from an energy service provider and continue receiving delivery services from PG&E. Direct Access bills are equal to the sum of charges for transmission, transmission rate adjustments, reliability services, distribution, public purpose programs, nuclear decommissioning, the FTA (where applicable), the RRBMA (where applicable), the franchise fee surcharge, and the Direct Access Cost Responsibility Surcharge (DA CRS). The DA CRS is equal to the sum of the individual charges set forth below. Exemptions to the DA CRS are set forth in Schedule DA CRS.

Regulatory Asset Charge (per kWh)	\$0.00623
DWR Power Charge (per kWh)	\$0.01014
DWR Bond Charge (per kWh)	\$0.00493
CTC Charge (per kWh)	\$0.00570
<b>Total DA CRS (per kWh)</b>	<b>\$0.02700</b>

**FIXED  
TRANSITION  
AMOUNT:**

All customers served on this schedule are obligated to pay a Fixed Transition Amount (FTA), also referred to as a Trust Transfer Amount (TTA), as described in Schedule E-RRB and defined in Preliminary Statement Part AS. In addition, these customers will receive the benefit of the rate reduction memorandum account rate.

**CARE  
DISCOUNT:**

Nonprofit Group-Living Facilities which meet the eligibility criteria in Rule 19.2 or 19.3 are eligible for a California Alternate Rates for Energy discount pursuant to Schedule E-CARE. CARE customers are exempt from paying the DWR Bond Charge. For CARE customers, no portion of the rates shall be used to pay the DWR bond charge. Generation is calculated residually based on the total rate less the sum of the following: Transmission, Transmission Rate Adjustments, Reliability Services, Distribution, Public Purpose Programs, Nuclear Decommissioning, Competition Transition Charges (CTC), Regulatory Asset, FTA and the Rate Reduction Bond Memorandum Account Rate.

**STANDBY  
APPLICABILITY:**

**SOLAR GENERATION FACILITIES EXEMPTION:** 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 Schedule NEM, will be exempt from paying the otherwise applicable standby reservation charges. (T)

(Continued)



SCHEDULE A-6—SMALL GENERAL TIME-OF-USE SERVICE  
(Continued)

STANDBY  
APPLICABILITY:

SOLAR GENERATION FACILITIES EXEMPTION: 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 Schedule NEM, will be exempt from paying the otherwise applicable standby reservation charges.

(T)

DISTRIBUTED ENERGY RESOURCES EXEMPTION: 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 shall be subject to the following requirements. Customers qualifying for an exemption from standby charges under Public Utilities (PU) Code Sections 353.1 and 353.3, as described above, must take service on a time-of-use (TOU) schedule in order to receive this exemption until a real-time pricing program, as described in PU Code 353.3, is made available. Once available, customers qualifying for the standby charge 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 time-of-use (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.

DWR BOND  
CHARGE:

The Department of Water Resources (DWR) Bond Charge was imposed by California Public Utilities Commission Decision 02-10-063, as modified by Decision 02-12-082, and is property of DWR for all purposes under California law. The Bond Charge applies to all retail sales, excluding CARE and Medical Baseline sales. The DWR Bond Charge (where applicable) is included in customers' total billed amounts.



SCHEDULE A-10—MEDIUM GENERAL DEMAND-METERED SERVICE  
(Continued)

STANDBY  
APPLICABILITY:

SOLAR GENERATION FACILITIES EXEMPTION: 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 Schedule NEM, will be exempt from paying the otherwise applicable standby reservation charges.

(T)

DISTRIBUTED ENERGY RESOURCES EXEMPTION: 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 shall be subject to the following requirements. Customers qualifying for an exemption from standby charges under Public Utilities (PU) Code Sections 353.1 and 353.3, as described above, must transfer to Schedule E-19, to receive this exemption until a real-time pricing program, as described in PU Code 353.3, is made available. Once available, customers qualifying for the standby charge 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 time-of-use (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.

DWR BOND  
CHARGE:

The Department of Water Resources (DWR) Bond Charge was imposed by California Public Utilities Commission Decision 02-10-063, as modified by Decision 02-12-082, and is property of DWR for all purposes under California law. The Bond Charge applies to all retail bundled sales, excluding CARE and Medical Baseline sales. The DWR Bond Charge (where applicable) is included in customers' total billed amounts.



COMMERCIAL/INDUSTRIAL/GENERAL  
SCHEDULE E-19—MEDIUM GENERAL DEMAND-METERED TIME-OF-USE SERVICE  
(Continued)

21. STANDBY  
APPLICA-  
BILITY:

SOLAR GENERATION FACILITIES EXEMPTION: 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 Schedule NEM, will be exempt from paying the otherwise applicable standby reservation charges. (T)

DISTRIBUTED ENERGY RESOURCES EXEMPTION: 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 shall be subject to the following requirements. Customers qualifying for an exemption from standby charges under Public Utilities (PU) Code Sections 353.1 and 353.3, as described above, must take service on a time-of-use (TOU) schedule in order to receive this exemption until a real-time pricing program, as described in PU Code 353.3, is made available. Once available, customers qualifying for the standby charge 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 time-of-use (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.

22. DWR BOND  
CHARGE:

The Department of Water Resources (DWR) Bond Charge was imposed by California Public Utilities Commission Decision 02-10-063, as modified by Decision 02-12-082, and is property of DWR for all purposes under California law. The Bond Charge applies to all retail sales, excluding CARE and Medical Baseline sales. The DWR Bond Charge (where applicable) is included in customers' total billed amounts.



COMMERCIAL/INDUSTRIAL/GENERAL  
SCHEDULE E-20—SERVICE TO CUSTOMERS WITH MAXIMUM DEMANDS OF 1,000 KILOWATTS OR MORE  
(Continued)

16. OPTIONAL  
OPTIMAL  
BILLING  
PERIOD  
SERVICE:  
(Cont'd.)

d. Proration of Charges

All applicable customer charges, demand charges or other applicable fixed charges, shall be prorated as specified in Rule 9. As specified in Rule 9, Sections A and B, the regular billing period will be once each month, and prorations for monthly bills of less than 27 or more than 33 days shall be calculated on the basis of the number of days in the period in question to the total number of days in an average month, as specified in Rule 9.

e. Functional Assignment of Credit

For billing purposes, the optional billing credit will be assigned to Distribution.

17. ELECTRIC  
EMER-  
GENCY  
PLAN  
ROTATING  
BLOCK  
OUTAGES:

As set forth in CPUC Decision 01-04-006, all transmission level customers except essential use customers, OBMC participants, net suppliers to the electrical grid, or others exempt by the Commission, are to be included in rotating outages in the event of an emergency. A transmission level customer who refuses or fails to drop load shall be added to the next rotating outage group so that the customer does not escape curtailment. If the transmission level customer fails to cooperate and drop load at PG&E's request, automatic equipment controlled by PG&E will be installed at the customer's expense per Electric Rule 2. A transmission level customer who refuses to drop load before installation of the equipment shall be subject to a penalty of \$6/kWh for all load requested to be curtailed that is not curtailed. The \$6/kWh penalty shall not apply if the customer's generation suffers a verified, forced outage and during times of scheduled maintenance. The scheduled maintenance must be approved by both the ISO and PG&E, but approval may not be unreasonably withheld.

18. STANDBY  
APPLICA-  
BILITY:

SOLAR GENERATION FACILITIES EXEMPTION: 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 Schedule NEM, will be exempt from paying the otherwise applicable standby reservation charges. (T)

DISTRIBUTED ENERGY RESOURCES EXEMPTION: 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 shall be subject to the following requirements. Customers qualifying for an exemption from standby charges under Public Utilities (PU) Code Sections 353.1 and 353.3, as described above, must take service on a time-of-use (TOU) schedule in order to receive this exemption until a real-time pricing program, as described in PU Code 353.3, is made available. Once available, customers qualifying for the standby charge 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 time-of-use (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.

(Continued)



SCHEDULE E-25—RESTRICTED VARIABLE-PEAK-PERIOD TIME-OF-USE SERVICE TO WATER AGENCIES  
(Continued)

11. **CONTRACTS:** Schedule E-25 is an experimental rate, the future availability of which is subject to review. To begin service under Schedule E-25, the customer must sign a contract with an initial expiration date of December 31, 1992. At least 30 days prior to this expiration date, PG&E will inform the customer if the rate will not be extended. If it is extended, the contract will automatically continue in effect for successive terms of one year each until it is canceled. The customer or PG&E may cancel a contract at the end of a term by giving written notice at least 30 days before the end of the term. The contract will be canceled automatically if sustained low maximum demand (below 500 kW—see "Applicability") requires that the account be transferred to a different rate schedule.

12. **BILLING:** A customer's bill is calculated based on the option applicable to the customer.

**Bundled Service Customers** receive supply and delivery services solely from PG&E. The customer's bill is based on the Total Rates and Conditions set forth in this schedule.

**Transitional Bundled Service Customers** take transitional bundled service as prescribed in Rule 22.1, or take bundled service prior to the end of the six (6) month advance notice period required to elect bundled portfolio service as prescribed in Rule 22.1. These customers shall pay charges for transmission, transmission rate adjustments, reliability services, distribution, nuclear decommissioning, public purpose programs, the FTA (where applicable), the RRBMA (where applicable), the DA CRS pursuant to Schedule DA CRS and short-term commodity prices as set forth in Schedule TBCC.

**Direct Access Customers** purchase energy from an energy service provider and continue receiving delivery services from PG&E. Direct Access bills are equal to the sum of charges for transmission, transmission rate adjustments, reliability services, distribution, public purpose programs, nuclear decommissioning, the FTA (where applicable), the RRBMA (where applicable), the franchise fee surcharge, and the Direct Access Cost Responsibility Surcharge (DA CRS). The DA CRS is equal to the sum of the individual charges set forth below. Exemptions to the DA CRS are set forth in Schedule DA CRS.

Regulatory Asset Charge (per kWh)	\$0.00623
DWR Power Charge (per kWh)	\$0.01136
DWR Bond Charge (per kWh)	\$0.00493
CTC Rate (per kWh)	\$0.00448

Total DA CRS (per kWh) \$0.02700

13. **STANDBY APPLICABILITY:** **SOLAR GENERATION FACILITIES EXEMPTION:** 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 Schedule NEM, will be exempt from paying the otherwise applicable standby reservation charges. (T)

(Continued)



**COMMERCIAL/INDUSTRIAL/GENERAL**  
**SCHEDULE E-36—SMALL GENERAL SERVICE TO OIL AND GAS EXTRACTION CUSTOMERS**  
(Continued)

6. STANDBY APPLICABILITY: SOLAR GENERATION FACILITIES EXEMPTION: 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 Schedule NEM, will be exempt from paying the otherwise applicable standby reservation charges. (T)

DISTRIBUTED ENERGY RESOURCES EXEMPTION: 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 shall be subject to the following requirements. Customers qualifying for an exemption from standby charges under Public Utilities (PU) Code Sections 353.1 and 353.3, as described above, must transfer to Schedules A-6, to receive this exemption until a real-time pricing program, as described in PU Code 353.3, is made available. Once available, customers qualifying for the standby charge 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 time-of-use (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.

7. DWR BOND CHARGE: The Department of Water Resources (DWR) Bond Charge was imposed by California Public Utilities Commission Decision 02-10-063, as modified by Decision 02-12-082, and is property of DWR for all purposes under California law. The Bond Charge applies to all retail sales, excluding CARE and Medical Baseline sales. The DWR Bond Charge (where applicable) is included in customers' total billed amounts.



**COMMERCIAL/INDUSTRIAL/GENERAL**  
**SCHEDULE E-37—MEDIUM GENERAL DEMAND-METERED TIME-OF-USE SERVICE**  
**TO OIL AND GAS EXTRACTION CUSTOMERS**  
(Continued)

10. BILLING  
(Cont'd.)

**Direct Access Customers** purchase energy from an energy service provider and continue receiving delivery services from PG&E. Direct Access bills are equal to the sum of charges for transmission, transmission rate adjustments, reliability services, distribution, public purpose programs, nuclear decommissioning, the FTA (where applicable), the RRBMA (where applicable), the franchise fee surcharge, and the Direct Access Cost Responsibility Surcharge (DA CRS). The DA CRS is equal to the sum of the individual charges set forth below. Exemptions to the DA CRS are set forth in Schedule DA CRS.

Regulatory Asset Charge (per kWh)	\$0.00623
DWR Power Charge (per kWh)	\$0.01136
DWR Bond Charge (per kWh)	\$0.00493
CTC Charge (per kWh)	\$0.00448
 Total DA CRS (per kWh)	 \$0.02700

11. STANDBY  
APPLICABILITY:

**SOLAR GENERATION FACILITIES EXEMPTION:** 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 Schedule NEM, will be exempt from paying the otherwise applicable standby reservation charges. (T)

**DISTRIBUTED ENERGY RESOURCES EXEMPTION:** 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 shall be subject to the following requirements. Customers qualifying for an exemption from standby charges under Public Utilities (PU) Code Sections 353.1 and 353.3, as described above, must transfer to Schedule E-19, to receive this exemption until a real-time pricing program, as described in PU Code 353.3, is made available. Once available, customers qualifying for the standby charge 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 time-of-use (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.

12. DWR BOND  
CHARGE:

The Department of Water Resources (DWR) Bond Charge was imposed by California Public Utilities Commission Decision 02-10-063, as modified by Decision 02-12-082, and is property of DWR for all purposes under California law. The Bond Charge applies to all retail sales, excluding CARE and Medical Baseline sales. The DWR Bond Charge (where applicable) is included in customers' total billed amounts.



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 Schedule NEM, 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 charges shall be calculated in accordance with the paragraph in this rate schedule titled Billing.

(Continued)



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

(T)

**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 5,000 kW of rated generating capacity is served under this Schedule and will expire on January 1, 2006, unless extended by legislation.

A customer's NEMBIO account is not eligible for NEM and NEM accounts are not eligible under Special Condition 2.

(T)

**TERRITORY:** The entire territory served.

**RATES:** Only the Generation Rate Component of the Biogas Customer-Generator's OAS, without generation surcharges such as those from Schedule E-EPS, 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.

**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.

(N)

(N)

(Continued)



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

(T)

(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.
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.
4. **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.

(Continued)



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

(T)

(Continued)

SPECIAL  
CONDITIONS:  
(Cont'd.)

- 4. BILLING: (Cont'd.)
  - 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.
- 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.
  - 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.

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

(T)

SPECIAL  
CONDITIONS:  
(Cont'd.)

6. DEFINITIONS: (Cont'd.)

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.

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.

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

(T)

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.

(Continued)



SCHEDULE NEM—NET ENERGY METERING SERVICE

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**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 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.

**TERRITORY:** The entire territory served.

**RATES:** All rates charged under this schedule will be in accordance with the eligible customer-generator's otherwise-applicable metered rate schedule. An eligible customer-generator served under this schedule is responsible for all charges from its otherwise-applicable rate schedule including monthly minimum charges, customer charges, meter charges, facilities charges, demand charges and surcharges. The "Peak Rate Limiter" and "Average Rate Limiter" for general service otherwise-applicable-rate schedules, the "Demand Charge Limiter" for agricultural otherwise-applicable-rate schedules and all other demand charges will be based on the demand in kilowatts as measured only on the energy being consumed by the customer from PG&E. The power factor, when it applies on the otherwise-applicable-rate schedule, will be based on the average power factor over the past 12 billing months of operation prior to starting on NEM. Customer-generators without 12 billing months of power factor history, will have their power factor estimated based on the nature of the connected facilities and their hours of operation. Power factor will be subsequently applied to the customer-generator's bill until the customer-generator demonstrates to PG&E's satisfaction that adequate correction had been provided. PG&E will continue to monitor and review the power factor and if warranted, change the power factor correction on the customer-generator's bills. Charges for electricity supplied by PG&E will be based on the net metered usage in accordance with Net Energy Metering and Billing (Special Condition 2, below).

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SCHEDULE NEM—NET ENERGY METERING SERVICE  
(Continued)

(T)

RATES: (Cont'd.) Customer-generators eligible for service under this schedule are exempt from the requirements of Schedule S—Standby Service.

Except for those eligible customer-generators qualifying for Special Condition 4 below, customer-generators are responsible for Public Purpose Program (PPP) charges. Such charges shall be based on Departing Load (as defined in PG&E's Preliminary Statement BB), and retail usage in accordance with the eligible customer's otherwise-applicable rate schedule.

To determine nonbypassable PPP charges and any other charges the CPUC determines to be nonbypassable, a customer-generator's Departing Load shall be estimated by PG&E at such time, and in such a manner, as may be approved by the Commission (CPUC).

RATE OPTIONS:

1. **NEMS** – For residential and small commercial (as defined in subdivision (h) of Section 331 of the CPU Code) customer-generators taking service with generating facilities not more than 10 kW.
2. **NEMEXP** – For residential and small commercial customer-generators with generating facilities greater than 10 kW.
3. **NEMEXPM** – For all other commercial, industrial customer-generators, and agricultural customers (see Special Condition 2(d)).
4. **NEMW** – For customer-generators taking service under Special Condition 5 of this tariff.

(N)

(N)

(Continued)



SCHEDULE NEM—NET ENERGY METERING

(Continued)

(T)

SPECIAL  
CONDITIONS:

1. **METERING EQUIPMENT:** Eligible Wind Energy Co-Metering customer-generators, see Special Condition 5. 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.

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. 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)

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.

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SCHEDULE NEM—NET ENERGY METERING SERVICE  
(Continued)

(T)

SPECIAL  
CONDITIONS:  
(Cont'd.)

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

In the event that the electricity supplied by PG&E during the 12-month period exceeds the electricity generated by the eligible customer-generator during the same period, the eligible customer-generator is a net electricity consumer and PG&E shall bill the eligible customer-generator for the net consumption during the 12-month period based on the eligible customer-generator's otherwise-applicable rate schedule, as set forth below.

Except as provided in Special Condition 5, for customer-generators taking service on otherwise-applicable rate schedules, any net monthly consumption or production shall be valued as follows:

a) Baseline Rates

For eligible customer-generators taking service on otherwise-applicable baseline rate schedules, any net consumption or production shall be valued monthly as follows:

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

If the eligible customer-generator is a net generator, the net kWh generated shall be valued at the rate for the kWh up to the baseline quantity, with any excess kWh generated, valued at the rate for the appropriate tier level in which the equivalent kWh of usage would fall.

b) Time of Use

For eligible customer-generators taking service on otherwise-applicable time-of-use rate schedules, any net consumption or production shall be valued monthly as follows:

If the eligible customer-generator is a net consumer during any discrete time-of-use period, the net kWh consumed shall be billed in accordance with that same time-of-use period in the eligible customer-generator's otherwise-applicable rate schedule.

If the eligible customer-generator is a net generator during any discrete time-of-use period, the net kWh produced shall be valued at the same price per kWh as the same time-of-use period in the eligible customer generator's otherwise-applicable rate schedule.

c) Minimum Charges

For eligible customer-generators taking service on otherwise applicable residential rate schedules, the minimum charges have a customer-related component and an energy-related component. The customer-related component of such minimum charges shall be treated as described in the Rates Section and billed monthly. The energy related component shall be treated in the same manner as energy consumed, as described in Section d below.



SCHEDULE NEM—NET ENERGY METERING SERVICE  
(Continued)

(T)

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.

3. INTERCONNECTION: Prior to receiving approval for Parallel Operation, the customer-generator must submit a completed PG&E application form and interconnection agreement as follows:

(T)

<u>RATE OPTION</u>	<u>APPLICATION</u>	<u>INTERCONNECTION AGREEMENT</u>
NEMS	<i>Application for Net Energy Metering (NEM) for Residential or Small Commercial Customers with Solar or Wind Electric Generating Facilities of 10 Kilowatts or Less, (Form 79-994)</i>	<i>Interconnection Agreement for Net Energy Metering for Residential or Small Commercial Solar or Wind Electric Generating Facilities of 10 Kilowatts or Less, (Form 79-854)</i>
NEMEXP	<i>Generating Facility Interconnection Application, (Form 79-974)</i> <i>Expanded Net Energy Metering (NEM) Supplemental Application Form (Form 79-998)</i>	<i>Interconnection Agreement for Net Energy Metering of Solar or Wind Electric Generating Facilities of 1,000 Kilowatts or Less, other than Residential or Small Commercial Facilities of 10 Kilowatts or Less (Form 79-978)</i>
NEMEXPM	<i>(same as for NEMEXP)</i>	<i>(same as for NEMEXP)</i>
NEMW	<i>(same as for NEMEXP)</i>	<i>(same as for NEMEXP)</i>

(T)



SCHEDULE NEM—NET ENERGY METERING SERVICE  
(Continued)

(T)

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.

(L)  
|  
|  
|  
(L)

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. This definition includes eligible customer-generators with a hybrid system including a solar generating facility where the size of the wind energy generating facility component exceeds 50 kW and total generating facility size is less than 1,000 kW.

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, excluding generation surcharges from Schedule E-EPS. 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.



SCHEDULE NEM—NET ENERGY METERING SERVICE  
(Continued)

(T)

SPECIAL  
CONDITIONS:  
(Cont'd.)

5. WIND ENERGY CO-METERING (Cont'd):

At the end of each 12-month period (as described in Special Condition 2), if the electricity fed back to the electric grid by the eligible customer-generator exceeds the electricity supplied to the eligible customer-generator by PG&E, the eligible customer-generator is a Wind Energy Co-Metering producer; (otherwise the eligible customer-generator is a Wind Energy Co-Metering consumer). To calculate the maximum generation credit for a Wind Energy Co-Metering producer, PG&E will, at the end of each 12-month period, determine the average credit for energy based on the following equation:

Average Credit (\$/kWh) =

Total Credit (\$) calculated for the 12-month period

\_\_\_\_\_

Total energy fed back to PG&E (kWh) during the 12-month period

Then the

Maximum Credit (\$) =

Average Credit (\$/kWh) × Total energy (kWh) PG&E supplied during the 12-month period

Any credit for excess energy (kWh) over this maximum will be retained by PG&E and the Wind Energy Co-Metering producer will not be owed any compensation for this excess energy.

(Continued)



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).

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.

A customer's NEMFC account is not eligible for service under Schedule NEM. (T)

**NEMFC will expire on January 1, 2006, unless extended by legislation.**

**TERRITORY:** The entire territory served.

**RATES:** Only the Generation Rate Component of the Fuel Cell Customer-Generator's OAS, without generation surcharges such as those from Schedule E-EPS, 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.

(Continued)



RULE 21—GENERATING FACILITY INTERCONNECTIONS  
(Continued)

H. DEFINITIONS (Cont'd.)

**Line Section:** That portion of PG&E's Distribution System connected to a Customer bounded by automatic sectionalizing devices or the end of the distribution line.

**Metering:** The measurement of electrical power flow in kW and/or energy flow in kWh, and, if necessary, kVAR at a point, and its display to PG&E, as required by this Rule.

**Metering Equipment:** All equipment, hardware, software including meter cabinets, conduit, etc., that are necessary for Metering.

**Momentary Parallel Operation:** The interconnection of a Generating Facility to the Distribution System for one second (60 cycles) or less.

**Nationally Recognized Testing Laboratory (NRTL):** A laboratory accredited to perform the Certification Testing requirements under this Rule.

**Net Energy Metering:** Metering for the receipt and delivery of electricity between the Producer and PG&E pursuant to Section 2827 of the Public Utilities Code and Schedule NEM, Net Energy Metering.

(T)

**Net Generation Metering:** Metering of the net electrical power of energy output in kW or energy in kWh, respectively, from a given Generating Facility. This may also be the measurement of the difference between the total electrical energy produced by a Generator and the electrical energy consumed by the auxiliary equipment necessary to operate the Generator. For a Generator with no Host Load and/or Public Utilities Code Section 218 Load (Section 218 Load), Metering that is located at the Point of Common Coupling. For a Generator with Host Load and/or Section 218 Load, Metering that is located at the Generator but after the point of auxiliary load(s) and prior to serving Host Load and/or Section 218 Load.

**Net Nameplate Rating:** The Gross Nameplate Rating minus the consumption of electrical power of a Generator or Generating Facility as designated by the manufacturer(s) of the Generator(s).

**Network Service:** More than one electrical feeder providing Distribution Service at a Point of Common Coupling.

**Non-Export; Non-Exporting:** Designed to prevent the transfer of electrical energy from the Generating Facility to PG&E.

(Continued)



Pacific Gas and Electric Company  
San Francisco, California

Canceling

Revised  
Revised

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

22689-E  
19023-E

PACIFIC GAS AND ELECTRIC COMPANY  
APPLICATION FOR SERVICE—RESIDENTIAL SERVICE  
FORM NO. 62-0683 (REV. 01/05)  
(ATTACHED)

(T)

Advice Letter No. 2614-E  
Decision No.

53732

Issued by  
**Karen A. Tomcala**  
Vice President  
Regulatory Relations

Date Filed January 14, 2005  
Effective February 23, 2005  
Resolution No. \_\_\_\_\_



# Application for Service Residential Service

Please fill out this application (6 pages) and submit the completed form to your local PG&E office.  
This application can be filled out and submitted online at PGE.com  
*\*Represents optional fields*

## Project Type

Single family residence       Multiple lots/units (Number of lots/units \_\_\_\_\_)

## Project Information

Commodity for which PG&E service is requested     Gas Service     Electric Service ( Overhead or  Underground)

Is this a full time residence?                       Or, part time / vacation home?

Project Address/Lot Number \_\_\_\_\_ City \_\_\_\_\_ Zip \_\_\_\_\_

Nearest Cross Street \_\_\_\_\_ \*APN (Assessor's Parcel Number) \_\_\_\_\_

Applicant / Company Name \_\_\_\_\_

Legal name to appear on contract \_\_\_\_\_

Name of person authorized to sign contracts \_\_\_\_\_ Title \_\_\_\_\_

\*Building Permit Number \_\_\_\_\_ Date Gas and/or Electric Service Needed \_\_\_\_\_

\*Who will be responsible for the PG&E bill after the meter is set? \_\_\_\_\_

*PG&E may supply service in accordance with Gas and/or Electric Rules 2, 13,15, 16, 20, 21 and LS schedules as applicable. There may be circumstances where application of PG&E's distribution/service extension rules would place an undue financial burden on PG&E. In these cases, PG&E may apply the exceptional case provisions of its gas and electric extension and service rules.*

## Contact Information

Name of Contact \_\_\_\_\_

Day Phone (\_\_\_\_) \_\_\_\_\_ Fax (\_\_\_\_) \_\_\_\_\_ \*Email address \_\_\_\_\_

Mailing Address \_\_\_\_\_ City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

\*Contractor's name \_\_\_\_\_ \*Contractor's Phone (\_\_\_\_) \_\_\_\_\_

## Design Information

*As a new applicant for gas or electric service, you are permitted to select either PG&E or your own contractor to design any new gas/electric distribution and / or service facilities. More details regarding the applicant design requirements can be found in the Applicant Design Manual available through your local PG&E office. You should become familiar with the requirements before you make your decision. (Please see the following pages for specific information regarding facilities design).*

### Gas Extension

- Choose One
- Design by Applicant
- Design by PG&E.

### Electric Extension

- Choose One
- Design by Applicant.
- Design by PG&E

\* I request PG&E to provide a design bid for:  Gas and / or  Electric

Joint trench drawing to be prepared by  Applicant  PG&E  Not Required

## Construction Information

### Distribution Construction

*As a new applicant for gas or electric service, you are permitted to select either PG&E or your own contractor to construct all or a portion of any new gas/electric distribution and / or service facilities. More details regarding the installation option requirements are available through your local PG&E office. You should become familiar with the requirements before you make your selection (Please see the following pages under installation options for specific information)*

Who will trench, backfill, and provide and install distribution conduit & substructures?  Applicant  PG&E

Proposed distribution trench occupants: (please check all that apply)

Electric  Gas  Phone  CATV  Other \_\_\_\_\_

*Water, sanitary sewer, storm drain, LPG, oil or other fluid carrying piping or facilities are not permitted in a joint trench.*

Who will install the distribution conductor, transformers and switches?  Applicant  PG&E

Transformers  Pad mount (PG&E Standard)  Subsurface (Special Facilities – may be additional cost)

Who will install the gas main?  Applicant  PG&E

### Service Construction Options

Who will trench, backfill, and provide and install service conduit & substructures?  Applicant  PG&E

Proposed service trench occupants: (please check all that apply)

Electric  Gas  Phone  CATV  Other \_\_\_\_\_

*Water, sanitary sewer, storm drain, LPG, oil or other fluid carrying piping or facilities are not permitted in a joint trench.*

Who will install the service conductor?  Applicant  PG&E

### Service Construction Options (Continued)

Who will install the gas service?  Applicant  PG&E



## Attachments

Please provide two (2) copies of the following:

- A. Assessors parcel map showing all easements and rights of way.
- B. Detailed site plan showing roads, sidewalks, driveways, location of fire hydrants and other structures, proposed location of gas and electric meters, building elevations, and proposed future improvements. (Meter locations are subject to PG&E approval.)

## General Information and Signature

### Applicant Design Information

#### Design by PG&E:

Under this selection, PG&E will provide gas and / or electric design for the extension in accordance with PG&E's design standards and specifications.

#### Design by Applicant:

Under this selection, you or your contractor must design the installation of the gas and / or electric facilities, including trenching, within the PG&E specified project boundaries in accordance with PG&E's design standards and specifications. This selection also requires the design(s) to be stamped and signed by a Registered Professional Engineer (PE). Responsibilities of applicants and PG&E within this selection include:

### Applicant's Design Responsibilities

- \* Design drawings and provide support documentation
- \* Joint trench/pole intent drawings
- \* Gas layout drawings
- \* Single line drawings, key sketch
- \* Base maps
- \* Construction detail drawings
- \* Street light design - coordinate with applicable governmental agency
- \* Engineering calculations (e.g., voltage drop, flicker, pulling tension, pole sizing, guying, etc.)
- \* Substructure information
- \* Stub/full/branch service locations (pre-approved by utility)
- \* Main locations
- \* Meter locations (pre-approved by utility)
- \* Identify permits
- \* Identify rights-of-way as required by utility
- \* Trench cost allocation estimate
- \* Coordination with other utilities if joint trench or joint pole
- \* Tentative design and construction scheduling
- \* Gas handling procedures
- \* Leak test requirements
- \* Conflict checks
- \* Material list
- \* Stamped by a Registered Professional Engineer (PE)

**Note: The applicant is responsible for ensuring the designer uses the most current design standards.**

### PG&E's Design Responsibilities

- \* Design format standards
- \* Global facilities planning (e.g. size, kind of pipe/conductor, carriers, conduits, ties, pressure/voltage/phase, system isolation requirements and special material specifications)
- \* Job accounting and cost estimating
- \* Contracts/Agreements.
- \* Utility plan check at completion of applicant design

- \* Post-design changes by utility at applicant's expense
- \* Value analysis

### **Installation Option Information**

#### Installed by PG&E as a competitive bid:

Under this option, PG&E will provide and install gas and / or electric facilities for the project in accordance with the provisions of the tariffs. Prior to starting construction, you must pay to PG&E any applicable advances. You are responsible for route clearing, land rights acquisition, trenching, conduit, substructures, and inspections.

#### Construction by applicant's qualified contractor:

Under this option, your qualified contractor must provide all necessary material and installation of the gas and / or electric facilities for the project. You must select a qualified contractor to perform the work to PG&E's design and construction specifications. Prior to starting construction, you must pay to PG&E any applicable advances including its estimated costs of engineering, administration, tie-ins, and any additional facilities and labor necessary to complete the extension. More details regarding the installation options requirements are available through your local PG&E office.

### **Self Generation**

The NEM program allows customers to install their own PV solar, wind or hybrid solar/wind generation that is interconnected to and operates in parallel with PG&E's electric grid. The purpose of this generation is primarily for a customer to offset part or all of his or her own electric needs. These customers can both continue to purchase power from PG&E's electric grid as well as deliver power to the grid. An NEM customer's meter may run forward (to account for purchases from the grid) and backward (to account for deliveries to the grid).

For additional information on the NEM program, including eligibility guidelines, program application form, links to the California Public Utilities Commission, Energy Commission and the US Department of Energy, visit

[http://www.pge.com/gen/retail\\_gen\\_metering.shtml](http://www.pge.com/gen/retail_gen_metering.shtml) or contact PG&E's Interconnection Services at (415) 972-5676.

### **Rate Information**

By signing this application, the applicant understands that PG&E is choosing an applicable rate schedule based on the fact that no gas and/or electric usage patterns have been established for this new account. The applicant understands that after approximately nine months of usage, a rate analysis may be requested from PG&E based on actual usage to see if any other rate options may be more beneficial.

### **Tariff Information**

Service shall be subject to all of PG&E's applicable tariff schedules on file with and authorized by the California Public Utilities Commission and shall at all times be subject to such changes or modifications as the Commission may direct from time to time in the exercise of its jurisdiction. These may include, but are not limited to changes or modifications to Monthly Cost-of-Ownership Charges (higher or lower percentage rates), extension rules, rate schedules, allowances and refund amounts.

Service will be designed and installed based upon the information provided on this application. Required information not supplied shall not constitute a waiver by PG&E of that information. NOTE: Installation of these facilities may require work by applicant on private property. Local authorities need to be contacted for any necessary permits and inspections.

### **Payment Information**

In conjunction with submitting your application for new gas, and or electric service, PG&E may require an engineering advance to cover some of its costs for project review, design work and cost development. This advance is based upon current costs and the amount of work anticipated based upon the information submitted in this application for service. This advance may be credited to the amount you owe or refunded to you without interest when PG&E has completed its engineering work. Before PG&E completes the engineering work, you may request PG&E to stop that work, and PG&E will deduct from the advance the costs which it has incurred, or refund the balance to you without interest.

I understand that service will be engineered and installed based upon the information provided here. I agree to pay PG&E, on demand, for all work PG&E performs and all costs PG&E incurs for this application for service. If I postpone or cancel this application, I will pay PG&E for all such work and costs incurred until I notify it of the postponement or cancellation. PG&E's costs may include, for example, labor, material and supplies, (including long lead time materials), transportation, and other direct costs which PG&E allocates to such work. Incomplete information or any changes made at my request during the engineering, or after it is completed, will subject me to additional charges and may delay the establishment of service. I further agree to pay for any damage to new or existing PG&E facilities caused by my contractors or me.

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**IMPORTANT NOTE: Do NOT install your electric main switch or gas house line until the location is approved by PG&E.**

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**As the applicant, I have read the above information and understand the provisions and my responsibilities.**

Applicant's Signature \_\_\_\_\_

Date \_\_\_\_\_



Pacific Gas and Electric Company  
San Francisco, California

Revised  
Revised  
Cancelling

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

22690-E  
19024-E

PACIFIC GAS AND ELECTRIC COMPANY  
APPLICATION FOR SERVICE—RESIDENTIAL SUBDIVISION/DEVELOPMENT  
FORM NO. 62-0684 (REV. 01/05)  
(ATTACHED)

(T)

Advice Letter No. 2614-E  
Decision No.

53733

Issued by  
**Karen A. Tomcala**  
Vice President  
Regulatory Relations

Date Filed January 14, 2005  
Effective February 23, 2005  
Resolution No. \_\_\_\_\_



# Application for Service Residential Subdivision / Development

Please fill out this application (6 pages) and submit the completed form to your local PG&E office.  
This application can be filled out and submitted online at PGE.com  
\*Represents optional fields

## Project Type

- Build Out (Production Subdivision)   
  Apartments   
  Zero Lot Line  
 Condominiums   
  Lot Sale

Number of lots / units \_\_\_\_\_

## Project Information

Commodity for which PG&E service is requested   
  Gas Service   
  Electric Service ( Overhead or  Underground)  
 Project Name \_\_\_\_\_ Tract Number \_\_\_\_\_  
 Project Address/Location \_\_\_\_\_ City \_\_\_\_\_ Zip \_\_\_\_\_  
 Nearest Cross Street \_\_\_\_\_ Applicant / Company Name \_\_\_\_\_  
 Legal name to appear on contract \_\_\_\_\_  
 Name of person authorized to sign contracts \_\_\_\_\_ Title \_\_\_\_\_  
 \* Date construction bid needed \_\_\_\_\_ Date you will begin construction (grading) \_\_\_\_\_  
 Trench start date \_\_\_\_\_ Trench completion date \_\_\_\_\_  
 Date PG&E facilities needed on site \_\_\_\_\_ Date Gas and/or Electric meter needed \_\_\_\_\_

*PG&E may supply service in accordance with Gas and/or Electric Rules 2, 13, 15 16 20, 21 and LS schedules as applicable. There may be circumstances where application of PG&E's Rules 15 and 16 would place an undue financial burden on PG&E. In these cases, PG&E may apply the exceptional case provisions of its Rules 15 and 16.*

## Contact Information

Name of Contact \_\_\_\_\_  
 Day Phone ( \_\_\_\_\_ ) \_\_\_\_\_ Fax ( \_\_\_\_\_ ) \_\_\_\_\_ Email address \_\_\_\_\_  
 Mailing Address \_\_\_\_\_ City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_  
 Contractor's name \_\_\_\_\_ Contractor's phone ( \_\_\_\_\_ ) \_\_\_\_\_



### General Construction Information

Will temporary electric service be required?

No       Yes      Date needed \_\_\_\_\_

Will existing PG&E electric overhead facilities require undergrounding?

No       Yes       Not sure      |      Date needed \_\_\_\_\_

Will any existing PG&E gas or electric facilities require relocation or removal?

No       Yes       Not sure      |      Date needed \_\_\_\_\_

### Load Information (typical of each house, unit or building)

Average square footage \_\_\_\_\_      Largest square footage \_\_\_\_\_

### Electric Load Information

Main Switch Size (Service Termination Can) \_\_\_\_\_ amps

Voltage: (select one)       120/240, 3 wire, 1Ø       120/208, 3 wire, 1Ø  
 240/120, 4 wire, 3Ø       208/120, 4 wire, 3Ø       480/277, 4-wire, 3Ø

Check all that apply:

- Standard residential loads (Lighting, Electric Oven, Electric Range, Refrigerator, Freezer, Dish Washer, Laundry Dryer, Electric Water Heater)
- Air Conditioner ( \_\_\_\_\_ tons)       Domestic Water Pump ( \_\_\_\_\_ hp)       Heat Pump
- Other electric heat ( \_\_\_\_\_ kW)       Electric Vehicle       NGV Compressor       Pool / Spa
- Other electric load (specify) \_\_\_\_\_

### Common Usage Area Electric Load Information

- Lift Station       Club House       Park Site       Sprinkler / Irrigation Controls (must be metered)
- Street Lighting       Area Lighting       Other (Specify) \_\_\_\_\_

### Natural Gas Load Information

Natural gas standard service delivery pressure is provided at 1/4 psig (7" water column). Requests for elevated service delivery pressure require PG&E's review and approval. If granted, elevated service delivery pressure may be reduced at any time due to PG&E operational needs. Special facilities and cost-of-ownership charges may apply for elevated service delivery pressure. For further information, contact your local PG&E office and refer to Gas Rule 2.

Gas Pressure Requested       1/4 psig       Other ( \_\_\_\_\_ psig)

Check all that apply:

- Gas Range ( \_\_\_\_\_ Btu/h)       Gas Oven ( \_\_\_\_\_ Btu/h)       Furnace ( \_\_\_\_\_ Btu/h)
- Laundry Dryer ( \_\_\_\_\_ Btu/h)       Water Heater ( \_\_\_\_\_ gallons)       Pool / Spa ( \_\_\_\_\_ Btu/h)
- Other gas load (specify) \_\_\_\_\_

## Energy Supply Option

Are you planning to install any self-generation equipment, photovoltaic, or wind generation?  Yes  No

## Attachments

Please provide two (2) copies of the following:

- A. Complete set of subdivision improvement plans, including grading plans. Plans should include location of water, sewer, and storm drains. (Include 3 1/2" high-density disk with autocadd14.dwg file of the site plan.)
- B. Tract map showing all easements and rights of way
- C. Detailed site plan showing roads, sidewalks, driveways, location of fire hydrants and other structures, and proposed future improvements
- D. Landscaping plans including sprinkler controller meter location
- E. Streetlight and traffic signal plans

## General Information and Signature

### Applicant Design Information

#### Design by PG&E:

Under this selection, PG&E will provide gas and / or electric design for the extension in accordance with PG&E's design standards and specifications.

#### Design by Applicant:

Under this selection, you or your contractor must design the installation of the gas and / or electric facilities, including trenching, within the PG&E specified project boundaries in accordance with PG&E's design standards and specifications. This selection also requires the design(s) to be stamped and signed by a Registered Professional Engineer (PE). Responsibilities of applicants and PG&E within this selection include:

### Applicant's Design Responsibilities

- \* Design drawings and provide support documentation
- \* Joint trench/pole intent drawings
- \* Gas layout drawings
- \* Single line drawings, key sketch
- \* Base maps
- \* Construction detail drawings
- \* Street light design - coordinate with applicable governmental agency
- \* Engineering calculations (e.g., voltage drop, flicker, pulling tension, pole sizing, guying, etc.)
- \* Substructure information
- \* Stub/full/branch service locations (pre-approved by utility)
- \* Main locations
- \* Meter locations (pre-approved by utility)
- \* Identify permits
- \* Identify rights-of-way as required by utility
- \* Trench cost allocation estimate
- \* Coordination with other utilities if joint trench or joint pole
- \* Tentative design and construction scheduling
- \* Gas handling procedures
- \* Leak test requirements
- \* Conflict checks
- \* Material list
- \* Stamped by a Registered Professional Engineer (PE)

**Note: THE APPLICANT IS RESPONSIBLE FOR ENSURING THE DESIGNER USES THE MOST CURRENT DESIGN STANDARDS.**

## PG&E's Design Responsibilities

- \* Design format standards
- \* Global facilities planning (e.g. size, kind of pipe/conductor, carriers, conduits, ties, pressure/voltage/phase, system isolation requirements and special material specifications)
- \* Job accounting and cost estimating
- \* Contracts/Agreements.
- \* Utility plan check at completion of applicant design
- \* Post-design changes by utility at applicant's expense
- \* Value analysis

## Installation Option Information

### Installed by PG&E as a competitive bid:

Under this option, PG&E will provide and install gas and / or electric facilities for the project in accordance with the provisions of the tariffs. Prior to starting construction, you must pay to PG&E any applicable advances. You are responsible for route clearing, land rights acquisition, trenching, conduit, substructures, and inspections.

### Construction by applicant's qualified contractor:

Under this option, your qualified contractor must provide all necessary material and installation of the gas and / or electric facilities for the project. You must select a qualified contractor to perform the work to PG&E's design and construction specifications. Prior to starting construction, you must pay to PG&E any applicable advances including its estimated costs of engineering, administration, tie-ins, and any additional facilities and labor necessary to complete the extension. More details regarding the installation options requirements are available through your local PG&E office..

## Self Generation

The NEM program allows customers to install their own PV solar, wind or hybrid solar/wind generation that is interconnected to and operates in parallel with PG&E's electric grid. The purpose of this generation is primarily for a customer to offset part or all of his or her own electric needs. These customers can both continue to purchase power from PG&E's electric grid as well as deliver power to the grid. An NEM customer's meter may run forward (to account for purchases from the grid) and backward (to account for deliveries to the grid).

For additional information on the NEM program, including eligibility guidelines, program application form, links to the California Public Utilities Commission, Energy Commission and the US Department of Energy, visit <http://www.pge.com/selfgen/> or contact PG&E's Interconnection Services at (415) 972-5676.

## Rate Information

By signing this application, the applicant understands that PG&E is choosing an applicable rate schedule based on the fact that no gas and/or electric usage patterns have been established for this new account. The applicant understands that after approximately nine months of usage, a rate analysis may be requested from PG&E based on actual usage to see if any other rate options may be more beneficial.

## Tariff Information

Service shall be subject to all of PG&E's applicable tariff schedules on file with and authorized by the California Public Utilities Commission and shall at all times be subject to such changes or modifications as the Commission may direct from time to time in the exercise of its jurisdiction. These may include, but are not limited to changes or modifications to Monthly Cost-of-Ownership Charges (higher or lower percentage rates), extension rules, rate schedules, allowances and refund amounts.

Service will be designed and installed based upon the information provided on this application. Required information not supplied shall not constitute a waiver by PG&E of that information. NOTE: Installation of these facilities may require work by applicant on private property. Local authorities need to be contacted for any necessary permits and inspections.

## Payment Information

In conjunction with submitting your application for new gas, and or electric service, PG&E may require an engineering advance to cover some of its costs for project review, design work and cost development. This advance is based upon current costs and the amount of work anticipated based upon the information submitted in this application for service. This advance may be credited to the amount you owe or refunded to you without interest when PG&E has completed its engineering work. Before PG&E completes the engineering work, you may request PG&E to stop that work, and PG&E will deduct from the advance the costs which it has incurred, or refund the balance to you without interest.

I understand that service will be designed and installed based upon the information provided here. I agree to pay PG&E, on demand, for all work PG&E performs and all costs PG&E incurs for this application for service. If I postpone or cancel this application, I will pay PG&E for all such work and costs incurred until I notify it of the postponement or cancellation. PG&E's costs may include, for example, labor, material and supplies, (including long lead time materials), transportation, and other direct costs which PG&E allocates to such work. Incomplete information or any changes made at my request during the engineering, or after it is completed, will subject me to additional charges and may delay the establishment of service. I further agree to pay for any damage to new or existing PG&E facilities caused by my contractors or me.

---

***IMPORTANT NOTE: Do NOT install your electric main switch or gas house line until the location is approved by PG&E.***

---

**As the applicant, I have read the above information and understand the provisions and my responsibilities.**

Applicant's Signature \_\_\_\_\_

Date \_\_\_\_\_



Pacific Gas and Electric Company  
San Francisco, California

Cancelling

Revised  
Revised

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

22691-E  
19025-E

PACIFIC GAS AND ELECTRIC COMPANY  
APPLICATION FOR SERVICE—COMMERCIAL/INDUSTRIAL DEVELOPMENT  
FORM NO. 62-0685 (REV. 01/05)  
(ATTACHED)

(T)

Advice Letter No. 2614-E  
Decision No.

Issued by  
**Karen A. Tomcala**  
Vice President  
Regulatory Relations

Date Filed January 14, 2005  
Effective February 23, 2005  
Resolution No. \_\_\_\_\_

53734



# Application for Service Commercial / Industrial Development

Please fill out this application (6 pages) and submit the completed form to your local PG&E office.  
This application can be filled out and submitted online at PGE.com  
\*Represents optional fields

## Project Type

- Commercial Service (new)    
  Commercial Subdivision / Development    
  Commercial / Industrial Service Upgrade (additional load or equipment)
- Industrial Service (new)    
  Mixed Use Commercial/Residential
- Number of buildings \_\_\_\_\_ Number of Services \_\_\_\_\_

## Project Information

Commodity for which PG&E service is requested    
 Gas Service    
 Electric Service ( Overhead or  Underground)

Project Name \_\_\_\_\_

Project Address/Location \_\_\_\_\_ City \_\_\_\_\_ Zip \_\_\_\_\_

Nearest Cross Street \_\_\_\_\_ \*APN (Assessor's Parcel Number) \_\_\_\_\_

Applicant / Company Name \_\_\_\_\_ \*Building Permit Number \_\_\_\_\_

Legal name to appear on contract \_\_\_\_\_

Name of person authorized to sign contracts \_\_\_\_\_ Title \_\_\_\_\_

\*Who will be responsible for the PG&E bill after the meter is set? \_\_\_\_\_

\* Date construction bid needed \_\_\_\_\_ Date you will begin construction (grading) \_\_\_\_\_

Trench start date \_\_\_\_\_ Trench Completion Date \_\_\_\_\_

Date PG&E facilities needed on site \_\_\_\_\_ Date Gas and/or Electric meter needed \_\_\_\_\_

PG&E may supply service in accordance with Gas and/or Electric Rules 2, 13, 15 16 20, 21 and LS schedules as applicable. There may be circumstances where application of PG&E's Rules 15 and 16 would place an undue financial burden on PG&E. In these cases, PG&E may apply the exceptional case provisions of its Rules 15 and 16.

## Contact Information

Name of Contact \_\_\_\_\_

Day Phone ( \_\_\_\_\_ ) \_\_\_\_\_ Fax ( \_\_\_\_\_ ) \_\_\_\_\_ \*Email address \_\_\_\_\_

Mailing Address \_\_\_\_\_ City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Contractor's name \_\_\_\_\_ Contractor's phone ( \_\_\_\_\_ ) \_\_\_\_\_

## Design Information

As a new applicant for gas or electric service, you are permitted to select either PG&E or your own contractor to design any new gas/electric distribution and / or service facilities. More details regarding the applicant design requirements can be found in the Applicant Design Manual available through your local PG&E office. You should become familiar with these requirements before you make your decision. (Please also see the following pages for specific information regarding facilities design).

### Gas Extension

Choose  Design by Applicant.  
 One  Design by PG&E.

### Electric Extension

Choose  Design by Applicant.  
 One  Design by PG&E.

\* I request PG&E to provide a design bid for:

Gas and / or  Electric

Joint trench drawing to be prepared by  Applicant  PG&E  Not Required

## Construction Information

### Distribution Construction Options

As a new applicant for gas or electric service, you are permitted to select either PG&E or your own contractor to construct all or a portion of any new gas/electric distribution and / or service facilities. (Please see the following pages under installation options for specific information).

Who will trench, backfill, and provide and install distribution conduit and substructures?  Applicant  PG&E

Proposed distribution trench occupants: (please check all that apply)

Electric  Gas  Phone  CATV  Other \_\_\_\_\_

Water, sanitary sewer, storm drain, LPG, oil or other fluid carrying piping or facilities are not permitted in a joint trench.

Who will install the distribution conductor, transformers and switches?  Applicant  PG&E

Transformers  Pad mount (PG&E Standard)  Subsurface (Special Facilities – may be additional cost)

Who will install the gas main?  Applicant  PG&E

### Service Construction Options

Who will trench, backfill, and provide and install service conduit and substructures?  Applicant  PG&E

Proposed service trench occupants: (please check all that apply)

Electric  Gas  Phone  CATV  Other \_\_\_\_\_

Water, sanitary sewer, storm drain, LPG, oil or other fluid carrying piping or facilities are not permitted in a joint trench.

Who will install the electric service conductor?  Applicant  PG&E

Who will install the gas service?  Applicant  PG&E

\* I request PG&E to provide a construction bid for:  Gas Distribution and / or  Electric Distribution  
 Gas Service  Electric Service

### General Construction Information

Will temporary electric service be required?

No       Yes      Date needed \_\_\_\_\_

Will existing PG&E electric overhead facilities require undergrounding?

No       Yes       Not sure      Date needed \_\_\_\_\_

Will any existing PG&E gas or electric facilities require relocation or removal?

No       Yes       Not sure      Date needed \_\_\_\_\_

### Load Information

Square footage of building (including all floors) \_\_\_\_\_ Number of stories \_\_\_\_\_

#### Operating Hours

Hours per day \_\_\_\_\_ Days per week \_\_\_\_\_ Months per year \_\_\_\_\_

Typical daily operating hours From \_\_\_\_\_  AM To \_\_\_\_\_  AM  
 PM  PM

Please describe other operating characteristics \_\_\_\_\_

### Electric Load Information

Main Switch Size (Service Termination Can) \_\_\_\_\_ amps      Number of Meters at each Service Location \_\_\_\_\_

Voltage: (select one)

- 120/240, 3 wire, 1Ø       120/208, 3 wire, 1Ø       240/120, 4 wire, 3Ø       208/120, 4 wire, 3Ø  
 480/277, 4-wire, 3Ø       Primary voltage (> 2,400 volts)       Other (specify) \_\_\_\_\_

Single Largest 1Ø Motor \_\_\_\_\_ hp      Single Largest 3Ø Motor \_\_\_\_\_ hp

Single Largest 1Ø Air Conditioning \_\_\_\_\_ tons      Single Largest 3Ø Air Conditioning \_\_\_\_\_ tons

Total Lighting \_\_\_\_\_ kW      Parking Lot Lighting \_\_\_\_\_ kW      Streetlights \_\_\_\_\_ kW

Receptacles \_\_\_\_\_ kW      Water Heating \_\_\_\_\_ kW      Cooking \_\_\_\_\_ kW

Additional Electric load (if additional space is needed please attach a spread sheet using same format as below)

Number of Appliances	Phase		Description of Appliance	Connected Load	Units		
	<input type="checkbox"/> 1Ø	<input type="checkbox"/> 3Ø			<input type="checkbox"/> kW	<input type="checkbox"/> hp	<input type="checkbox"/> tons
_____	<input type="checkbox"/> 1Ø	<input type="checkbox"/> 3Ø	_____	at _____	<input type="checkbox"/> kW	<input type="checkbox"/> hp	<input type="checkbox"/> tons
_____	<input type="checkbox"/> 1Ø	<input type="checkbox"/> 3Ø	_____	at _____	<input type="checkbox"/> kW	<input type="checkbox"/> hp	<input type="checkbox"/> tons
_____	<input type="checkbox"/> 1Ø	<input type="checkbox"/> 3Ø	_____	at _____	<input type="checkbox"/> kW	<input type="checkbox"/> hp	<input type="checkbox"/> tons
_____	<input type="checkbox"/> 1Ø	<input type="checkbox"/> 3Ø	_____	at _____	<input type="checkbox"/> kW	<input type="checkbox"/> hp	<input type="checkbox"/> tons
_____	<input type="checkbox"/> 1Ø	<input type="checkbox"/> 3Ø	_____	at _____	<input type="checkbox"/> kW	<input type="checkbox"/> hp	<input type="checkbox"/> tons

Please provide motor codes for motors that have reduced voltage starting or are 25 hp and greater. \_\_\_\_\_

## Natural Gas Load Information

Natural gas standard service delivery pressure is provided at 1/4 psig (7" water column). Requests for elevated service delivery pressure require PG&E's review and approval. If granted, elevated service delivery pressure may be reduced at any time due to PG&E operational needs. Special facilities and cost-of-ownership charges may apply for elevated service delivery pressure. For further information, contact your local PG&E office and refer to Gas Rule 2.

Gas Pressure Requested     1/4 psig     Other ( \_\_\_\_\_ psig)    Number of Meters at each Service Location \_\_\_\_\_

Check all that apply: (If additional space is required please attach a spreadsheet using same format as below)

- Space Heating Equipment ( \_\_\_\_\_ Btu/h)     Boilers ( \_\_\_\_\_ Btu/h)     Water Heating ( \_\_\_\_\_ Btu/h)
- Air Conditioning ( \_\_\_\_\_ Btu/h)     Cooking ( \_\_\_\_\_ Btu/h)     Dryers ( \_\_\_\_\_ Btu/h)
- Other gas load (specify) \_\_\_\_\_

## Energy Supply Option

Are you planning to install any self-generation equipment, photovoltaic, or wind generation?     Yes     No

## Attachments

Please provide two (2) copies of the following:

- A. Complete set of site improvement plans, including grading plans. (Include 3 1/2" high-density disk with autocadd14.dwg file of the site plan.)
- B. Building floor plan and exterior elevations
- C. Electric drawings and schedules with complete breakdown of equipment; include single line drawing if available
- D. Electric Switchboard drawings. (Must be approved by PG&E prior to manufacturing the main panel)
- E. Plumbing plans
- F. Assessors parcel map showing all easements and rights of way
- G. Detailed site plan showing roads, sidewalk, driveways, location of fire hydrants and other structures, proposed location of gas and electric meters, building elevations, and proposed future improvements. (Meter locations are subject to PG&E approval.)
- H. Landscaping plans including sprinkler controller meter location
- I. Streetlight and traffic signal plans
- J. Title 24 Utility Report

## General Information and Signature

### Applicant Design Information

#### Design by PG&E:

Under this selection, PG&E will provide gas and / or electric design for the extension in accordance with PG&E's design standards and specifications.

#### Design by Applicant:

Under this selection, you or your contractor must design the installation of the gas and / or electric facilities, including trenching, within the PG&E specified project boundaries in accordance with PG&E's design standards and specifications. This selection also requires the design(s) to be stamped and signed by a Registered Professional Engineer (PE). Responsibilities of applicants and PG&E within this selection include:

## Applicant's Design Responsibilities

- \* Design drawings and provide support documentation
- \* Joint trench/pole intent drawings
- \* Gas layout drawings
- \* Single line drawings, key sketch
- \* Base maps
- \* Construction detail drawings
- \* Street light design - coordinate with applicable governmental agency
- \* Engineering calculations (e.g., voltage drop, flicker, pulling tension, pole sizing, guying, etc.)
- \* Substructure information
- \* Stub/full/branch service locations (pre-approved by utility)
- \* Main locations
- \* Meter locations (pre-approved by utility)
- \* Identify permits
- \* Identify rights-of-way as required by utility
- \* Trench cost allocation estimate
- \* Coordination with other utilities if joint trench or joint pole
- \* Tentative design and construction scheduling
- \* Gas handling procedures
- \* Leak test requirements
- \* Conflict checks
- \* Material list
- \* Stamped by a Registered Professional Engineer (PE)

**Note: THE APPLICANT IS RESPONSIBLE FOR ENSURING THE DESIGNER USES THE MOST CURRENT DESIGN STANDARDS.**

## PG&E's Design Responsibilities

- \* Design format standards
- \* Global facilities planning (e.g. size, kind of pipe/conductor, carriers, conduits, ties, pressure/voltage/phase, system isolation requirements and special material specifications)
- \* Job accounting and cost estimating
- \* Contracts/Agreements.
- \* Utility plan check at completion of applicant design
- \* Post-design changes by utility at applicant's expense
- \* Value analysis

## Installation Option Information

### Installed by PG&E as a competitive bid:

Under this option, PG&E will provide and install gas and / or electric facilities for the project in accordance with the provisions of the tariffs. Prior to starting construction, you must pay to PG&E any applicable advances. You are responsible for route clearing, land rights acquisition, trenching, conduit, substructures, and inspections.

### Construction by applicant's qualified contractor:

Under this option, your qualified contractor must provide all necessary material and installation of the gas and / or electric facilities for the project. You must select a qualified contractor to perform the work to PG&E's design and construction specifications. Prior to starting construction, you must pay to PG&E any applicable advances including its estimated costs of engineering, administration, tie-ins, and any additional facilities and labor necessary to complete the extension. More details regarding the installation options requirements are available through your local PG&E office..

**Self Generation**

The NEM program allows customers to install their own PV solar, wind or hybrid solar/wind generation that is interconnected to and operates in parallel with PG&E's electric grid. The purpose of this generation is primarily for a customer to offset part or all of his or her own electric needs. These customers can both continue to purchase power from PG&E's electric grid as well as deliver power to the grid. An NEM customer's meter may run forward (to account for purchases from the grid) and backward (to account for deliveries to the grid).

For additional information on the NEM program, including eligibility guidelines, program application form, links to the California Public Utilities Commission, Energy Commission and the US Department of Energy, visit <http://www.pge.com/selfgen/> or contact PG&E's Interconnection Services at (415) 972-5676.

**Rate Information**

By signing this application, the applicant understands that PG&E is choosing an applicable rate schedule based on the fact that no gas and/or electric usage patterns have been established for this new account. The applicant understands that after approximately nine months of usage, a rate analysis may be requested from PG&E based on actual usage to see if any other rate options may be more beneficial.

**Tariff Information**

Service shall be subject to all of PG&E's applicable tariff schedules on file with and authorized by the California Public Utilities Commission and shall at all times be subject to such changes or modifications as the Commission may direct from time to time in the exercise of its jurisdiction. These may include, but are not limited to changes or modifications to Monthly Cost-of-Ownership Charges (higher or lower percentage rates), extension rules, rate schedules, allowances and refund amounts.

Service will be designed and installed based upon the information provided on this application. Required information not supplied shall not constitute a waiver by PG&E of that information. NOTE: Installation of these facilities may require work by applicant on private property. Local authorities need to be contacted for any necessary permits and inspections.

**Payment Information**

In conjunction with submitting your application for new gas, and or electric service, PG&E may require an engineering advance to cover some of its costs for project review, design work and cost development. This advance is based upon current costs and the amount of work anticipated based upon the information submitted in this application for service. This advance may be credited to the amount you owe or refunded to you without interest when PG&E has completed its engineering work. Before PG&E completes the engineering work, you may request PG&E to stop that work, and PG&E will deduct from the advance the costs which it has incurred, or refund the balance to you without interest.

I understand that service will be designed and installed based upon the information provided here. I agree to pay PG&E, on demand, for all work PG&E performs and all costs PG&E incurs for this application for service. If I postpone or cancel this application, I will pay PG&E for all such work and costs incurred until I notify it of the postponement or cancellation. PG&E's costs may include, for example, labor, material and supplies, (including long lead time materials), transportation, and other direct costs which PG&E allocates to such work. Incomplete information or any changes made at my request during the engineering, or after it is completed, will subject me to additional charges and may delay the establishment of service. I further agree to pay for any damage to new or existing PG&E facilities caused by my contractors or me.

---

**IMPORTANT NOTE: Do NOT install your electric main switch or gas house line until the location is approved by PG&E.**

---

As the applicant, I have read the above information and understand the provisions and my responsibilities.

Applicant's Signature \_\_\_\_\_

Date \_\_\_\_\_



Pacific Gas and Electric Company  
San Francisco, California

Cancelling  
Revised

Revised  
Revised

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

22692-E  
19026-E

PACIFIC GAS AND ELECTRIC COMPANY  
APPLICATION FOR SERVICE—AGRICULTURAL SERVICE  
FORM NO. 62-0686 (REV. 01/05)  
(ATTACHED)

(T)

Advice Letter No. 2614-E  
Decision No.

Issued by  
**Karen A. Tomcala**  
Vice President  
Regulatory Relations

Date Filed January 14, 2005  
Effective February 23, 2005  
Resolution No. \_\_\_\_\_



**Pacific Gas and  
Electric Company**

# Application for Service Agricultural Service

Please fill out this application (6 pages) and submit the completed form to your local PG&E office.  
This application can be filled out and submitted online at PGE.com  
\*Represents optional fields

## Project Type

New Agricultural Service       Additional Load or Equipment to Existing Agricultural Service

Number of Buildings \_\_\_\_\_ Number of Services \_\_\_\_\_

## Project Information

Commodity for which PG&E service is requested       Gas Service       Electric Service ( Overhead or  Underground)

Project Name \_\_\_\_\_

Project Address/Location \_\_\_\_\_ City \_\_\_\_\_ Zip \_\_\_\_\_

Nearest Cross Street \_\_\_\_\_ \*APN (Assessor's Parcel Number) \_\_\_\_\_

Applicant / Company Name \_\_\_\_\_

Legal name to appear on contract \_\_\_\_\_

Name of person authorized to sign contracts \_\_\_\_\_ Title \_\_\_\_\_

\*Who will be responsible for the PG&E bill after the meter is set? \_\_\_\_\_

\* Date construction bid needed \_\_\_\_\_ Date PG&E facilities needed on site \_\_\_\_\_

Date Gas and/or Electric meter needed \_\_\_\_\_

*PG&E may supply service in accordance with Gas and/or Electric Rules 2, 13, 15 16 20, 21 and LS schedules as applicable. There may be circumstances where application of PG&E's Rules 15 and 16 would place an undue financial burden on PG&E. In these cases, PG&E may apply the exceptional case provisions of its Rules 15 and 16.*

## Contact Information

Name of Contact \_\_\_\_\_

Day Phone (\_\_\_\_) \_\_\_\_\_ Fax (\_\_\_\_) \_\_\_\_\_ \*Email address \_\_\_\_\_

Mailing Address \_\_\_\_\_ City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

\*Contractor's name: \_\_\_\_\_ \*Contractor's phone (\_\_\_\_) \_\_\_\_\_

## Design Information

As a new applicant for gas or electric service, you are permitted to select either PG&E or your own contractor to design any new gas/electric distribution and / or service facilities. More details regarding the applicant design requirements can be found in the Applicant Design Manual available through your local PG&E office. You should become familiar with these requirements before you make your decision. (Please also see the following pages for specific information regarding facilities design.)

### Gas Extension

- Choose One
- Design by Applicant.
- Design by PG&E.

### Electric Extension

- Choose One
- Design by Applicant.
- Design by PG&E.

\* I request PG&E to provide a design bid for:  Gas and / or  Electric

Joint trench drawing to be prepared by  Applicant  PG&E  Not Required

## Construction Information

### Distribution Construction Options

As a new applicant for gas or electric service, you are permitted to select either PG&E or your own contractor to construct all or a portion of any new gas/electric distribution and / or service facilities. More details regarding the installation option requirements are available through your local PG&E office. You should become familiar with the requirements before you make your selection. (Please also see the following pages under installation options for specific information.)

Who will trench, backfill, and provide and install distribution conduit and substructures?  Applicant  PG&E

Proposed distribution trench occupants: (please check all that apply)

- Electric  Gas  Phone  CATV  Other \_\_\_\_\_

Water, sanitary sewer, storm drain, LPG, oil or other fluid carrying piping or facilities are not permitted in a joint trench.

Who will install the distribution conductor, transformers and switches?  Applicant  PG&E

Transformers  Pad mount (PG&E Standard)  Subsurface (Special Facilities – may be additional cost)

Who will install the gas main?  Applicant  PG&E

### Service Construction Options

Who will trench, backfill, and provide and install service conduit and substructures?  Applicant  PG&E

Proposed distribution trench occupants: (please check all that apply)

- Electric  Gas  Phone  CATV  Other \_\_\_\_\_

Water, sanitary sewer, storm drain, LPG, oil or other fluid carrying piping or facilities are not permitted in a joint trench.

Who will install the electric service conductor?  Applicant  PG&E

Who will install the gas services?  Applicant  PG&E

\* I request PG&E to provide a construction bid for:  Gas Distribution and / or  Electric Distribution  
 Gas Service  Electric Service

### General Construction Information

Will temporary electric service be required?

No       Yes      Date needed \_\_\_\_\_

Will existing PG&E electric overhead facilities require undergrounding?

No       Yes       Not sure      Date needed \_\_\_\_\_

Will any existing PG&E gas or electric facilities require relocation or removal?

No       Yes       Not sure      Date needed \_\_\_\_\_

### Load Information

#### Operating Hours

Hours per day \_\_\_\_\_ Days per week \_\_\_\_\_ Months per year \_\_\_\_\_

Typical daily operating hours From \_\_\_\_\_  AM To \_\_\_\_\_  PM

What months will this facility operate?

January       February       March       April

May       June       July       August

September       October       November       December

Please describe other operating characteristics \_\_\_\_\_

Type of crop \_\_\_\_\_

#### Electric Load Information

If this is an existing service, what is the: PG&E account no. \_\_\_\_\_ PG&E meter no. \_\_\_\_\_

Main Switch Size (Service Termination Can) \_\_\_\_\_ amps      Number of Meters at each Service Location \_\_\_\_\_

Voltage: (select one)

120/240, 3 wire, 1Ø       120/208, 3 wire, 1Ø       240/120, 4 wire, 3Ø       208/120, 4 wire, 3Ø

480/277, 4-wire, 3Ø       Primary voltage (> 2,400 volts)       Other (specify) \_\_\_\_\_

Single Largest 1Ø Motor \_\_\_\_\_ hp      Single Largest 3Ø Motor \_\_\_\_\_ hp

#### Electric Connected load

1Ø Motor: \_\_\_\_\_ motors at \_\_\_\_\_ hp each

3Ø Motor: \_\_\_\_\_ motors at \_\_\_\_\_ hp each

Additional Electric load (if additional space is needed please attach a spread sheet using same format as below)

Number of Appliances	Phase	Description of Appliance	Connected Load	Units
_____	<input type="checkbox"/> 1Ø <input type="checkbox"/> 3Ø	_____	at _____	<input type="checkbox"/> kW <input type="checkbox"/> hp <input type="checkbox"/> tons
_____	<input type="checkbox"/> 1Ø <input type="checkbox"/> 3Ø	_____	at _____	<input type="checkbox"/> kW <input type="checkbox"/> hp <input type="checkbox"/> tons
_____	<input type="checkbox"/> 1Ø <input type="checkbox"/> 3Ø	_____	at _____	<input type="checkbox"/> kW <input type="checkbox"/> hp <input type="checkbox"/> tons
_____	<input type="checkbox"/> 1Ø <input type="checkbox"/> 3Ø	_____	at _____	<input type="checkbox"/> kW <input type="checkbox"/> hp <input type="checkbox"/> tons
_____	<input type="checkbox"/> 1Ø <input type="checkbox"/> 3Ø	_____	at _____	<input type="checkbox"/> kW <input type="checkbox"/> hp <input type="checkbox"/> tons

### Electric Load Information (Continued)

Please provide motor codes for motors that have reduced voltage starting or are 25 hp and greater \_\_\_\_\_

Will submersible pump(s) be installed?  No  Yes

### Natural Gas Load Information

If this is an existing service, what is the: PG&E account no. \_\_\_\_\_ PG&E meter no. \_\_\_\_\_

Natural gas standard service delivery pressure is provided at 1/4 psig (7" water column). Requests for elevated service delivery pressure require PG&E's review and approval. If granted, elevated service delivery pressure may be reduced at any time due to PG&E operational needs. Special facilities and cost-of-ownership charges may apply for elevated service delivery pressure. For further information, contact your local PG&E office and refer to Gas Rule 2.

Gas Pressure Requested  1/4 psig  Other ( \_\_\_\_\_ psig) Number of Meters at each Service Location \_\_\_\_\_

Check all that apply: (If additional space is required please attach a spreadsheet using the same format as below)

- Space Heating Equipment ( \_\_\_\_\_ Btu/h)  Boilers ( \_\_\_\_\_ Btu/h)  Water Heating ( \_\_\_\_\_ Btu/h)  
 Air Conditioning ( \_\_\_\_\_ Btu/h)  Cooking ( \_\_\_\_\_ Btu/h)  Dryers ( \_\_\_\_\_ Btu/h)  
 Other gas load (specify) \_\_\_\_\_

### Energy Supply Option

Are you planning to install any self-generation equipment, photovoltaic, or wind generation?  Yes  No

### Attachments

Please provide two (2) copies of the following:

- A. Detailed site plan showing roads, driveways, building and structures

### General Information and Signature

#### Applicant Design Information

##### Design by PG&E:

Under this selection, PG&E will provide gas and / or electric design for the extension in accordance with PG&E's design standards and specifications.

##### Design by Applicant:

Under this selection, you or your contractor must design the installation of the gas and / or electric facilities, including trenching, within the PG&E specified project boundaries in accordance with PG&E's design standards and specifications. This selection also requires the design(s) to be stamped and signed by a Registered Professional Engineer (PE). Responsibilities of applicants and PG&E within this selection include:

#### Applicant's Design Responsibilities

- \* Design drawings and provide support documentation
- \* Joint trench/pole intent drawings
- \* Gas layout drawings
- \* Single line drawings, key sketch

### Applicant's Design Responsibilities (Continued)

- \* Base maps
- \* Construction detail drawings
- \* Street light design - coordinate with applicable governmental agency
- \* Engineering calculations (e.g., voltage drop, flicker, pulling tension, pole sizing, guying, etc.)
- \* Substructure information
- \* Stub/full/branch service locations (pre-approved by utility)
- \* Main locations
- \* Meter locations (pre-approved by utility)
- \* Identify permits
- \* Identify rights-of-way as required by utility
- \* Trench cost allocation estimate
- \* Coordination with other utilities if joint trench or joint pole
- \* Tentative design and construction scheduling
- \* Gas handling procedures
- \* Leak test requirements
- \* Conflict checks
- \* Material list
- \* Stamped by a Registered Professional Engineer (PE)

**Note:** THE APPLICANT IS RESPONSIBLE FOR ENSURING THE DESIGNER USES THE MOST CURRENT DESIGN STANDARDS.

### PG&E's Design Responsibilities

- \* Design format standards
- \* Global facilities planning (e.g. size, kind of pipe/conductor, carriers, conduits, ties, pressure/voltage/phase, system isolation requirements and special material specifications)
- \* Job accounting and cost estimating
- \* Contracts/Agreements.
- \* Utility plan check at completion of applicant design
- \* Post-design changes by utility at applicant's expense
- \* Value analysis

### Installation Option Information

#### Installed by PG&E as a competitive bid:

Under this option, PG&E will provide and install gas and / or electric facilities for the project in accordance with the provisions of the tariffs. Prior to starting construction, you must pay to PG&E any applicable advances. You are responsible for route clearing, land rights acquisition, trenching, conduit, substructures, and inspections.

#### Construction by applicant's qualified contractor:

Under this option, your qualified contractor must provide all necessary material and installation of the gas and / or electric facilities for the project. You must select a qualified contractor to perform the work to PG&E's design and construction specifications. Prior to starting construction, you must pay to PG&E any applicable advances including its estimated costs of engineering, administration, tie-ins, and any additional facilities and labor necessary to complete the extension. More details regarding the installation options requirements are available through your local PG&E office.

**Self Generation**

The NEM program allows customers to install their own PV solar, wind or hybrid solar/wind generation that is interconnected to and operates in parallel with PG&E's electric grid. The purpose of this generation is primarily for a customer to offset part or all of his or her own electric needs. These customers can both continue to purchase power from PG&E's electric grid as well as deliver power to the grid. An NEM customer's meter may run forward (to account for purchases from the grid) and backward (to account for deliveries to the grid).

For additional information on the NEM program, including eligibility guidelines, program application form, links to the California Public Utilities Commission, Energy Commission and the US Department of Energy, visit <http://www.pge.com/selfgen/> or contact PG&E's Interconnection Services at (415) 972-5676.

**Rate Information**

By signing this application, the applicant understands that PG&E is choosing an applicable rate schedule based on the fact that no gas and/or electric usage patterns have been established for this new account. The applicant understands that after approximately nine months of usage, a rate analysis may be requested from PG&E based on actual usage to see if any other rate options may be more beneficial.

**Tariff Information**

Service shall be subject to all of PG&E's applicable tariff schedules on file with and authorized by the California Public Utilities Commission and shall at all times be subject to such changes or modifications as the Commission may direct from time to time in the exercise of its jurisdiction. These may include, but are not limited to changes or modifications to Monthly Cost-of-Ownership Charges (higher or lower percentage rates), extension rules, rate schedules, allowances and refund amounts. Service will be designed and installed based upon the information provided on this application. Required information not supplied shall not constitute a waiver by PG&E of that information. NOTE: Installation of these facilities may require work by applicant on private property. Local authorities need to be contacted for any necessary permits and inspections.

**Payment Information**

In conjunction with submitting your application for new gas, and or electric service, PG&E may require an engineering advance to cover some of its costs for project review, design work and cost development. This advance is based upon current costs and the amount of work anticipated based upon the information submitted in this application for service. This advance may be credited to the amount you owe or refunded to you without interest when PG&E has completed its engineering work. Before PG&E completes the engineering work, you may request PG&E to stop that work, and PG&E will deduct from the advance the costs which it has incurred, or refund the balance to you without interest.

I understand that service will be engineered and installed based upon the information provided here. I agree to pay PG&E, on demand, for all work PG&E performs and all costs PG&E incurs for this application for service. If I postpone or cancel this application, I will pay PG&E for all such work and costs incurred until I notify it of the postponement or cancellation. PG&E's costs may include, for example, labor, material and supplies, (including long lead time materials), transportation, and other direct costs which PG&E allocates to such work. Incomplete information or any changes made at my request during the engineering, or after it is completed, will subject me to additional charges and may delay the establishment of service. I further agree to pay for any damage to new or existing PG&E facilities caused by my contractors or me.

**IMPORTANT NOTE: Do NOT install your electric main switch or gas house line until the location is approved by PG&E.**

**As the applicant, I have read the above information and understand the provisions and my responsibilities.**

Applicant's Signature \_\_\_\_\_

Date \_\_\_\_\_



Pacific Gas and Electric Company  
San Francisco, California

Cancelling

Original  
Revised

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

22693-E  
19027-E

PACIFIC GAS AND ELECTRIC COMPANY  
APPLICATION FOR RELOCATION/REARRANGEMENT  
FORM NO. 62-0687 (REV. 01/05)  
(ATTACHED)

(T)

Advice Letter No. 2614-E  
Decision No.

Issued by  
**Karen A. Tomcala**  
Vice President  
Regulatory Relations

Date Filed January 14, 2005  
Effective February 23, 2005  
Resolution No. \_\_\_\_\_



Please fill out this application (4 pages) and submit the completed form to your local PG&E office.  
This application can be filled out and submitted online at PGE.com  
\*Represents optional fields

## Project Type

Reason for Relocation / Rearrangement Request (please check all that apply)

- Remodel / Addition     
  Repair     
  Overhead to Underground conversion  
 Other \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

## Project Information

Commodity for which PG&E Relocation / Rearrangement is requested     
 Gas Service     
 Electric Service ( Overhead or  Underground)

Project Address/Lot Number \_\_\_\_\_ City \_\_\_\_\_ Zip \_\_\_\_\_

Nearest Cross Street \_\_\_\_\_ Applicant / Company Name \_\_\_\_\_

Legal name to appear on contract \_\_\_\_\_

Name of person authorized to sign contracts \_\_\_\_\_ \*Title \_\_\_\_\_

\*Building Permit Number \_\_\_\_\_

PG&E Account No.      Gas \_\_\_\_\_      Electric \_\_\_\_\_

Date PG&E facility rearrangement / relocation needed \_\_\_\_\_

*PG&E may relocate or rearrange service in accordance with Gas and/or Electric Rules 2, 13,15, 16, 20, 21 and LS schedules as applicable. There may be circumstances where application of PG&E's distribution/service extension rules would place an undue financial burden on PG&E. In these cases, PG&E may apply the exceptional case provisions of its Rules 15 and 16.*

## Contact Information

Name of Contact \_\_\_\_\_

Day Phone ( \_\_\_\_\_ ) \_\_\_\_\_ Fax ( \_\_\_\_\_ ) \_\_\_\_\_ \*Email address \_\_\_\_\_

Mailing Address \_\_\_\_\_ City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

\*Contractor's name \_\_\_\_\_ \*Contractor's phone ( \_\_\_\_\_ ) \_\_\_\_\_

## Construction Information

### Construction Options

You are permitted to select either PG&E or your own contractor to construct all or a portion of any new gas/electric distribution and / or service facilities. However, only PG&E may work on energized or pressurized facilities. More details regarding the installation option requirements are available through your local PG&E office. You should become familiar with the requirements before you make your selection (Please see the following pages under installation options for specific information)

If trenching is required, who will trench, backfill, and provide and install conduit and substructures?  Applicant  PG&E

Proposed trench occupants: (please check all that apply)

Electric  Gas  Phone  CATV  Other \_\_\_\_\_

Water, sanitary sewer, storm drain, LPG, oil or other fluid carrying piping or facilities are not permitted in a joint trench.

### Electric Information

Main Switch Size (Service Termination Can) \_\_\_\_\_ amps Number of Meters at Service Location \_\_\_\_\_

Voltage: (select one)

120/240, 3 wire, 1Ø  120/208, 3 wire, 1Ø  240/120, 4 wire, 3Ø  208/120, 4 wire, 3Ø  
 480/277, 4-wire, 3Ø  Primary voltage (> 2,400 volts)  Other (specify) \_\_\_\_\_

If required, who will install the electric service wire?  Applicant  PG&E

### Natural Gas Information

Natural gas standard service delivery pressure is provided at 1/4 psig (7" water column). Requests for elevated service delivery pressure require PG&E's review and approval. If granted, elevated service delivery pressure may be reduced at any time due to PG&E operational needs. Special facilities and cost-of-ownership charges may apply for elevated service delivery pressure. For further information, contact your local PG&E office and refer to Gas Rule 2.

Number of Meters at Service Location \_\_\_\_\_

If required, who will install the new gas pipe?  Applicant  PG&E

\* I request PG&E to provide a construction bid for:  Gas Facilities and / or  Electric Facilities

### General Construction Information

Will temporary electric service be required?

No  Yes Date needed \_\_\_\_\_

Will any existing PG&E gas or electric facilities require removal?

No  Yes  Not sure Date needed \_\_\_\_\_

## Attachments

Please provide two (2) copies of the following:

- A. Detailed site plan showing roads, sidewalk, driveways, location of fire hydrants and other structures, proposed location of gas and electric meters, building elevations, and proposed future improvements. (Meter locations are subject to PG&E approval.)

## General Information and Signature

### Installation Option Information

#### Installed by PG&E as a competitive bid:

Under this option, PG&E will provide and install gas and / or electric facilities for the project in accordance with the provisions of the tariffs. Prior to starting construction, you must pay to PG&E any applicable advances. You are responsible for route clearing, land rights acquisition, trenching, conduit, substructures, and inspections.

#### Construction by applicant's qualified contractor:

Under this option, your qualified contractor must provide all necessary material and installation of the gas and / or electric facilities for the project. You must select a qualified contractor to perform the work to PG&E's design and construction specifications. Prior to starting construction, you must pay to PG&E any applicable advances including its estimated costs of engineering, administration, tie-ins, and any additional facilities and labor necessary to complete the extension. More details regarding the installation options requirements are available through your local PG&E office.

### Self Generation

The NEM program allows customers to install their own PV solar, wind or hybrid solar/wind generation that is interconnected to and operates in parallel with PG&E's electric grid. The purpose of this generation is primarily for a customer to offset part or all of his or her own electric needs. These customers can both continue to purchase power from PG&E's electric grid as well as deliver power to the grid. An NEM customer's meter may run forward (to account for purchases from the grid) and backward (to account for deliveries to the grid).

For additional information on the NEM program, including eligibility guidelines, program application form, links to the California Public Utilities Commission, Energy Commission and the US Department of Energy, visit <http://www.pge.com/selfgen/> or contact PG&E's Interconnection Services at (415) 972-5676.

### Tariff Information

Relocation/rearrangement shall be subject to all of PG&E's applicable tariff schedules on file with and authorized by the California Public Utilities Commission and shall at all times be subject to such changes or modifications as the Commission may direct from time to time in the exercise of its jurisdiction. These may include, but are not limited to changes or modifications to Monthly Cost-of-Ownership Charges (higher or lower percentage rates), extension rules, rate schedules, allowances and refund amounts.

Relocation/rearrangement will be designed and installed based upon the information provided on this application. Required information not supplied shall not constitute a waiver by PG&E of that information. NOTE: Installation of these facilities may require work by applicant on private property. Local authorities need to be contacted for any necessary permits and inspections.

**Payment Information**

In conjunction with submitting your application for rearrangement or relocation of gas, and or electric service, PG&E may require an engineering advance to cover some of its costs for project review, design work and cost development. This advance is based upon current costs and the amount of work anticipated based upon the information submitted in this application. This advance may be credited to the amount you owe or refunded to you without interest when PG&E has completed its engineering work. Before PG&E completes the engineering work, you may request PG&E to stop that work, and PG&E will deduct from the advance the costs which it has incurred, or refund the balance to you without interest.

I understand that this rearrangement/relocation will be engineered and installed based upon the information provided here. I agree to pay PG&E, on demand, for all work PG&E performs and all costs PG&E incurs for this application. If I postpone or cancel this application, I will pay PG&E for all such work and costs incurred until I notify it of the postponement or cancellation. PG&E's costs may include, for example, labor, material and supplies, (including long lead time materials), transportation, and other direct costs which PG&E allocates to such work. Incomplete information or any changes made at my request during the engineering, or after it is completed, will subject me to additional charges and may delay the relocation/rearrangement. I further agree to pay for any damage to new or existing PG&E facilities caused by my contractors or me.

---

**IMPORTANT NOTE: Do NOT install your electric main switch or gas house line until the location is approved by PG&E.**

---

As the applicant, I have read the above information and understand the provisions and my responsibilities.

Applicant's Signature \_\_\_\_\_

Date \_\_\_\_\_



Pacific Gas and Electric Company  
San Francisco, California

Cancelling  
Revised  
Revised

Cal. P.U.C. Sheet No.  
22694-E  
Cal. P.U.C. Sheet No.  
20851-E

22694-E  
20851-E

PACIFIC GAS AND ELECTRIC COMPANY

INTERCONNECTION AGREEMENT FOR NET ENERGY METERING FOR  
RESIDENTIAL AND SMALL COMMERCIAL SOLAR OR WIND ELECTRIC  
GENERATING FACILITIES OF 10 KILOWATTS OR LESS  
FORM NO. 79-854 (REV. 01/05)  
(ATTACHED)

(T)

Advice Letter No. 2614-E  
Decision No.

Issued by  
**Karen A. Tomcala**  
Vice President  
Regulatory Relations

Date Filed January 14, 2005  
Effective February 23, 2005  
Resolution No. \_\_\_\_\_



Pacific Gas and Electric Company

**INTERCONNECTION AGREEMENT FOR  
NET ENERGY METERING FOR  
RESIDENTIAL AND SMALL  
COMMERCIAL SOLAR OR WIND  
ELECTRIC GENERATING FACILITIES OF  
10 KILOWATTS OR LESS**

**DISTRIBUTION**

- Billing
- Customer-Generator
- Business Customer Center

**REFERENCE**

Current Acct No. \_\_\_\_\_

**DECLARATIONS**

\_\_\_\_\_ ("Customer-Generator") and Pacific Gas and Electric Company, also referred to as "Utility", referred to collectively as "Parties" and individually as "Party," consistent with, and in order to effectuate, the provisions of Sections 2827 and 2827.7 of the California Public Utilities Code and Pacific Gas and Electric Company's electric rate Schedule NEM ("NEM"), enter into this "Interconnection Agreement for Net Energy Metering For Residential and Small Commercial Solar or Wind Electric Generating Facilities of 10 Kilowatts or Less" ("Agreement")<sup>1</sup>. This Agreement applies to the Customer-Generator's generating facilities identified below with the specified characteristics and generating capacity, and does not allow interconnection or operation of facilities different than those described. Accordingly, the Parties agree as follows:

1. **DESCRIPTION OF CUSTOMER-GENERATOR'S SOLAR OR WIND ELECTRIC GENERATING FACILITY ("Facility")**

Project Identification Number: \_\_\_\_\_  
(Utility Log Number)

Interconnected Equipment:

Table 1. - List of generating equipment interconnecting with Pacific Gas and Electric Company's Distribution System with, or without, an inverter. (For those generators interconnecting without an inverter, write in "N/A" in the right three columns. If an inverter is shared by more than one generator, write "shared" on the same line as that generator under the manufacturer column and do not enter the inverter rating. Attach list of additional equipment if applicable.)

	Type of Generator (Solar / Wind / Hybrid)	Generator Rating (watts)	Manufacturer for Inverter used with Generator	Inverter Model Number	Inverter Rating (watts) <sup>2</sup>
1					
2					

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

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

**DECLARATIONS (Continued)**

Site Address:

\_\_\_\_\_

(Street)

\_\_\_\_\_

(City)

Facility will be ready for operation on or about: \_\_\_\_\_  
(date)

If the date of the permits allowing the Customer-Generator to commence construction of the Generating Facility is prior to January 1, 2003, please provide the date the permits were issued:

\_\_\_\_\_

Customer-Generator shall not commence Parallel Operation of the Generating Facility until written approval for Parallel Operation is provided by Pacific Gas and Electric Company. See Section 3.3 of Attachment A, PROVISIONS.

2. **CUSTOMER BILLING AND PAYMENT OPTIONS**

Customer-Generator selects Pacific Gas and Electric Company's electric rate Schedule \_\_\_\_\_ as its otherwise-applicable rate schedule, in addition to Schedule NEM. Customer-Generator understands:

Customer-Generator will be billed and will be expected to pay monthly for the non-energy charges (i.e., non-per-kilowatt-hour charges) due under Customer-Generator's otherwise-applicable rate schedule. In addition, Customer-Generator may (at its option) pay any amount for energy charges monthly, with the understanding that any and all payments will be reconciled annually as set forth herein. At the end of every twelve (12) month period, or other reconciliation period as provided in Schedule NEM, the Customer-Generator's charges will be totaled including: (1) the monthly non-energy charges, (2) the charge for any net-energy consumption as defined in rate Schedule NEM. The Customer-Generator's total payments for the twelve (12) months or other reconciliation period as provided in Schedule NEM, will then be subtracted from the total charges. The Customer-Generator will then be billed for any balance due. If the Customer-Generator has overpaid for the energy they consumed, a credit will be applied to the next month's bill.

DECLARATIONS (Continued)

3. NOTICES

All written notices shall be directed as follows:

Pacific Gas and Electric Company  
Attn: Manager, Generation Interconnection Services  
Mail Code B13M  
P.O. Box 770000  
San Francisco, California 94177

CUSTOMER-GENERATOR:

\_\_\_\_\_  
(Name)

\_\_\_\_\_  
(Street or PO Box)

\_\_\_\_\_  
(City) (State) (Zip Code)

4. DECLARATIONS, ATTACHMENTS AND AGREEMENT TO THE TERMS THEREOF

Customer-generator has read, understands, and agrees that interconnection of the facilities of the Customer-Generator shall be established and maintained in accordance with the terms in Attachment A, PROVISIONS, incorporated herein by reference, and the applicable rules on file with the California Public Utilities Commission.

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

Attachment A, PROVISIONS

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

DECLARATIONS (Continued)

5. 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.

"Customer-Generator" Name \_\_\_\_\_

By (Signature): \_\_\_\_\_ Date: \_\_\_\_\_

Type/Print Name: \_\_\_\_\_

Title: \_\_\_\_\_

Pacific Gas and Electric Company

By (Signature) \_\_\_\_\_ Date \_\_\_\_\_

Type/Print Name: \_\_\_\_\_

Title: Manager, Generation Interconnection Services \_\_\_\_\_



Pacific Gas and Electric Company

**INTERCONNECTION AGREEMENT FOR  
NET ENERGY METERING FOR  
RESIDENTIAL AND SMALL  
COMMERCIAL SOLAR OR WIND  
ELECTRIC GENERATING FACILITIES OF  
10 KILOWATTS OR LESS**

**Attachment A, PROVISIONS**

1. **PURPOSE OF INTERCONNECTION AND REPRESENTATIONS**

The purpose of this Agreement is to allow Customer-Generator to interconnect with Pacific Gas and Electric Company's distribution system, subject to the provisions of this Agreement and Pacific Gas and Electric Company's rate schedule NEM. Customer-Generator has elected to interconnect and operate its solar or wind electric generating facility in parallel with Pacific Gas and Electric Company's electric grid. The solar or wind electric generating facility is intended primarily to offset part or all of the Customer-Generator's own electrical requirements. Customer-Generator shall at all times comply with this Agreement as well as with all applicable laws and tariffs, and applicable requirements of the Public Utilities Commission of the State of California.

2. **INTERRUPTION OR REDUCTION OF DELIVERIES**

2.1 Pacific Gas and Electric Company shall not be obligated to accept or pay for, and may require Customer-Generator to interrupt or reduce deliveries of, available energy:

a. when necessary in order to construct, install, maintain, repair, replace, remove, investigate, or inspect any of its equipment or part of Pacific Gas and Electric Company's system; or

b. if Pacific Gas and Electric Company determines that curtailment, interruption, or reduction is necessary because of emergencies, forced outages, force majeure, or compliance with prudent electrical practices.

2.2 Whenever possible, the Utility shall give Customer-Generator reasonable notice of the possibility that interruption or reduction of deliveries may be required.

2.3 Notwithstanding any other provision of this Agreement, if at any time Pacific Gas and Electric Company determines that either (a) the Customer Generator's Facility, or its operation, may endanger Pacific Gas and Electric Company personnel, or (b) the continued operation of the Customer-Generator's Facility may endanger the integrity of Pacific Gas and Electric Company's electric system, Pacific Gas and Electric Company shall have the right to disconnect the Facility from Pacific Gas and Electric Company's system. Customer-Generator's Facility shall remain disconnected until such time as Pacific Gas and Electric Company is satisfied that the condition(s) referenced in (a) or (b) of this Section 2.3 have been corrected.

## ATTACHMENT A, PROVISIONS (continued)

### 3. INTERCONNECTION

3.1 Customer-Generator shall deliver the available energy to Pacific Gas and Electric Company at the utility's meter.

3.2 The metering requirements are detailed in electric rate Schedule NEM and, if applicable, Pacific Gas and Electric Company's electric Rule 21. If the Customer-Generator refuses consent to dual metering pursuant to Rate Schedule NEM, Pacific Gas and Electric Company shall have the right to refuse interconnection.

3.3 Customer-Generator shall not commence parallel operation of the Generating Facility until Pacific Gas and Electric Company has provided express written approval. Such approval shall normally be provided no later than (30) business days following PG&E's receipt of: (1) a completed Application (Form 79-994) including all supporting documents and payments as described in the Application; (2) a completed and signed Interconnection Agreement; and (3) a copy of the Customer-Generator's final inspection clearance from the governmental authority having jurisdiction over the Generating Facility. Such approval shall not be unreasonably withheld. Pacific Gas and Electric Company shall have the right to have representatives present at the initial testing of Customer-Generator's protective apparatus. Customer-Generator shall notify the utility five (5) working days prior to the initial testing.

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

### 4. DESIGN REQUIREMENTS

Customer-Generator shall 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. A Customer-Generator whose solar or wind turbine electrical generating system, or a hybrid system of both, meets those standards and rules shall not be required to install additional controls, perform or pay for additional tests, or purchase additional liability insurance.

### 5. MAINTENANCE AND PERMITS

Customer-Generator shall: (a) maintain the 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 4, and (b) obtain any governmental authorizations and permits required for the construction and operation of the Facility and interconnection facilities. Customer-Generator shall reimburse Pacific Gas and Electric Company for any and all losses, damages, claims, penalties, or liability it incurs as a result of Customer-Generator's failure to obtain or maintain any governmental authorizations and permits required for construction and operation of Customer-Generator's Facility.

## ATTACHMENT A, PROVISIONS (continued)

### 6. ACCESS TO PREMISES

Pacific Gas and Electric Company may enter Customer-Generator's premises: (a) to inspect, at reasonable hours, Customer-Generator's protective devices and read or test meters; and (b) to disconnect, without notice, the interconnection facilities if, in the utility's opinion, a hazardous condition exists and such immediate action is necessary to protect persons, or the utility's facilities, or property of others from damage or interference caused by Customer-Generator's solar or wind electric generating facilities, or lack of properly operating protective devices.

### 7. INDEMNITY AND LIABILITY

7.1 Each Party as indemnifier shall defend, save harmless and indemnify the other Party and the directors, officers, employees, and agents of such other Party against and from any and all loss, liability, damage, claim, cost, charge, demand, or expense (including any direct, or consequential loss, liability, damage, claim, cost, charge, demand, or expense, including attorneys' fees) for injury or death to persons including employees of either Party and damage to property including property of either Party arising out of or in connection with: (a) the engineering, design, construction, maintenance, repair, operation, supervision, inspection, testing, protection or ownership of, or (b) the making of replacements, additions, betterments to, or reconstruction of, the indemnifier's facilities; provided, however, Customer-Generator's duty to indemnify Pacific Gas and Electric Company hereunder shall not extend to loss, liability, damage, claim, cost, charge, demand, or expense resulting from interruptions in electrical service to the utility's customers other than Customer-Generator. This indemnity shall apply, notwithstanding the active or passive negligence of the indemnified. However, neither Party shall be indemnified hereunder for its loss, liability, damage, claim, cost, charge, demand, or expense resulting from its sole negligence or willful misconduct.

7.2 Notwithstanding the indemnity of Section 7.1, and except for a Party's willful misconduct or sole negligence, each Party shall be responsible for damage to its facilities resulting from electrical disturbances or faults.

7.3 The provisions of this Section 7 shall not be construed to relieve any insurer of its obligations to pay any insurance claims in accordance with the provisions of any valid insurance policy.

7.4 Except as otherwise provided in Section 7.1 neither Party shall be liable to the other Party for consequential damages incurred by that Party.

## ATTACHMENT A, PROVISIONS (continued)

7.5 If Customer-Generator fails to comply with the insurance provisions of this Agreement, Customer-Generator shall, at its own cost, defend, save harmless and indemnify Pacific Gas and Electric Company, its directors, officers, employees, agents, assignees, and successors in interest from and against any and all loss, liability, damage, claim, cost, charge, demand, or expense of any kind or nature (including attorney's fees and other costs of litigation) resulting from the death or injury to any person or damage to any property, including the personnel and property of the utility, to the extent that the utility would have been protected had Customer-Generator complied with all such insurance provisions. The inclusion of this Section 7.5 is not intended to create any expressed or implied right in Customer-Generator to elect not to provide any such required insurance.

### 8. INSURANCE

8.1 To the extent that Customer-Generator has currently in force Property insurance and Commercial General Liability or Personal Liability insurance, Customer-Generator agrees that it will maintain such insurance in force for the duration of this Agreement in no less amounts than those currently in effect. Pacific Gas and Electric Company shall have the right to inspect or obtain a copy of the original policy or policies of insurance prior to commencing operation.

8.2 Customer-Generator shall meet the standards and rules set forth in Section 4, have the appropriate liability insurance required in Section 8.1 and shall not be required to purchase any additional liability insurance.

8.3 Such insurance required in Section 8.1 shall, by endorsement to the policy or policies, provide for thirty (30) calendar days written notice to the utility prior to cancellation, termination, alteration, or material change of such insurance.

### 9. GOVERNING LAW

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

### 10. AMENDMENTS, MODIFICATIONS OR WAIVER

Any amendments or modifications to this Agreement shall be in writing and agreed to by both Parties. The failure of any Party at any time or times to require performance of any provision hereof shall in no manner affect the right at a later time to enforce the same. No waiver by any Party of the breach of any term or covenant contained in this Agreement, whether by conduct or otherwise, shall be deemed to be construed as a further or continuing waiver of any such breach or a waiver of the breach of any other term or covenant unless such waiver is in writing.

**ATTACHMENT A, PROVISIONS (continued)**

11. NOTICES

11.1 All written notices shall be directed as follows:

Pacific Gas and Electric Company  
Attn: Manager, Generation Interconnection Services  
Mail Code B13M  
P.O. Box 770000  
San Francisco, California 94177

11.2 Customer-Generator's notices to Pacific Gas and Electric Company pursuant to this Section 11 shall refer to the utility's project identification number set forth in the Declarations Section of this Agreement.

12. TERM OF AGREEMENT

This Agreement shall become effective as of the last date set forth in Section 5 of the Declarations and shall continue in full force and effect until terminated by either Party providing 30-days prior written notice to the other Party in accordance with Section 11. This Agreement may be terminated prior to 30 days notice by agreement of both Parties.

13. GOVERNING AUTHORITY

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



Pacific Gas and Electric Company  
San Francisco, California

Cancelling

Revised  
Original

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

22695-E  
20852-E

PACIFIC GAS AND ELECTRIC COMPANY

INTERCONNECTION AGREEMENT FOR NET ENERGY METERING OF SOLAR OR  
WIND ELECTRIC GENERATING FACILITIES OF 1,000 KILOWATTS OR LESS,  
OTHER THAN RESIDENTIAL OR SMALL COMMERCIAL FACILITIES  
OF 10 KILOWATTS OR LESS  
FORM NO. 79-978 (REV. 01/05)  
(ATTACHED)

(T)

Advice Letter No. 2614-E  
Decision No.

53738

Issued by  
**Karen A. Tomcala**  
Vice President  
Regulatory Relations

Date Filed January 14, 2005  
Effective February 23, 2005  
Resolution No. \_\_\_\_\_



This Interconnection Agreement for Net Energy Metering of Solar or Wind Electric Generating Facilities of 1,000 Kilowatts or Less, Other Than Residential or Small Commercial Facilities of 10 Kilowatts or Less ("Agreement")<sup>1</sup> is entered into by and between \_\_\_\_\_ ("Customer-Generator"), and Pacific Gas and Electric Company ("PG&E"), a California Corporation. Customer-Generator and PG&E are sometimes also referred to in this Agreement jointly as "Parties" or individually as "Party." In consideration of the mutual promises and obligations stated in this Agreement and its attachments, the Parties agree as follows:

**1. SCOPE AND PURPOSE**

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

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

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

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

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

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

Name: \_\_\_\_\_

Address: \_\_\_\_\_

City/Zip Code: \_\_\_\_\_

2.5 Interconnected Equipment:

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

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

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

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

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

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**3. DOCUMENTS INCLUDED AND DEFINED TERMS**

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

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

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

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

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

**4. CUSTOMER BILLING AND PAYMENT**

Customer-Generators Other Than Wind Energy Co-Metering Customer-Generators  
Except as otherwise provided for eligible Wind Energy Co-Metering Customer-Generators covered in Special Condition 5 of the NEM tariff, Customer-Generator initially selects PG&E's electric rate schedule referenced in Section 2.6 of this Agreement as its otherwise-applicable rate schedule. Customer-Generator understands:

Customer-Generator will be billed and is required to pay monthly for all applicable charges due under Customer-Generator's otherwise-applicable rate schedule, unless Customer-Generator is a residential or small commercial customer. If Customer-Generator is a residential or small commercial customer, the Customer-Generator may pay annually for energy charges and will only be required to pay monthly for all non-energy charges (i.e., non-per-kilowatt-hour charges).

At the end of every twelve (12) month period, or other reconciliation period as provided in Schedule NEM, the Customer-Generator's charges will be totaled, including the monthly non-energy charges and the charge for any net-energy consumption as defined in Schedule NEM. The Customer-Generator's total payments for the twelve (12) months or other reconciliation period as provided in Schedule NEM will then be subtracted from the total charges. The Customer-Generator will then be billed for any balance due. If the Customer-Generator has overpaid for the energy it consumed, a credit will be applied to the next month's bill.

Wind Energy Co-Metering Customer-Generators

The eligible Wind Energy Co-Metering Customer-Generator with wind energy Generating

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Facilities greater than 50 kilowatts (kW) but not exceeding 1,000 kW initially selects a **time-of-use** electric rate schedule referenced in Section 2.6 of this Agreement as its otherwise-applicable rate schedule. The Customer-Generator understands:

Subject to Special Condition 2 of the NEM tariff, 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 for the account, excluding generation surcharges from Schedule E-EPS and any other surcharges to cover the purchase of power by the Department of Water Resources. 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.

At the end of each twelve (12) month period (as described in Special Condition 2 of the NEM tariff), if the electricity fed back to the electric grid by the eligible Customer-Generator exceeds the electricity supplied to the eligible Customer-Generator by PG&E, the eligible Customer-Generator is a Wind Energy Co-Metering producer. The maximum generation credit for a Wind Energy Co-Metering producer will be calculated as provided in Special Condition 5 of the NEM tariff.

Any credit for excess energy (kWh) over this maximum will be retained by PG&E and the Wind Energy Co-Metering producer will not be owed any compensation for excess energy.

## 5. TERM AND TERMINATION

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

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

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

- (a) A change in applicable rules, tariffs, or regulations, as approved or directed by the Commission, or a change in any local, state or federal law, statute or regulation, either of which materially alters or otherwise affects PG&E's ability or obligation to perform PG&E's duties under this Agreement; or,
- (b) Customer-Generator fails to take all corrective actions specified in PG&E's Notice that Customer-Generator's Generating Facility is out of compliance with the terms of this Agreement within the time frame set forth in such Notice; or,

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- (c) Customer-Generator abandons the Generating Facility. PG&E shall deem the Generating Facility to be abandoned if PG&E determines, in its sole opinion, the Generating Facility is nonoperational and Customer-Generator does not provide a substantive response to PG&E Notice of its intent to terminate this Agreement as a result of Customer-Generator's apparent abandonment of the Generating Facility affirming Customer-Generator's intent and ability to continue to operate the Generating Facility; or,
- (d) Customer-Generator's Generating Facility ceases to meet all applicable safety and performance standards set out in Section 6.

5.3 Notwithstanding any other provisions of this Agreement, PG&E shall have the right to unilaterally file with the Commission, pursuant to the Commission's rules and regulations, an application to terminate this Agreement.

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

## 6. GENERATING FACILITY REQUIREMENTS

6.1 Customer-Generator's Generating Facility must meet all applicable safety and performance standards established by the National Electrical Code, the Institute of Electrical and Electronics Engineers, and accredited testing laboratories such as Underwriters Laboratories and, where applicable, rules of the Commission regarding safety and reliability including Rule 21.

6.2 Customer-Generator shall: (a) maintain the Generating Facility and Interconnection Facilities in a safe and prudent manner and in conformance with all applicable laws and regulations including, but not limited to, Section 6.1, and (b) obtain any governmental authorizations and permits required for the construction and operation of the Generating Facility and Interconnection Facilities. Customer-Generator shall reimburse PG&E for any and all losses, damages, claims, penalties, or liability it incurs as a result of Customer-Generator's failure to obtain or maintain any governmental authorizations and permits required for construction and operation of Customer-Generator's Generating Facility.

6.3 Customer-Generator shall not commence parallel operation of the Generating Facility until PG&E has provided express written approval. Such approval shall normally be provided no later than thirty (30) business days following PG&E's receipt of: (1) a completed *Generating Facility Interconnection Application* (Form 79-974), including all supporting documents and payments as described in the Application; (2) a completed *Expanded Net Energy Metering (NEM) Supplemental Application* (Form 79-998); (3) a signed and completed *Interconnection Agreement* (Form 79-978); and (4) a copy of the Customer-Generator's final inspection clearance from the governmental authority having jurisdiction over the Generating Facility. Such approval shall not be unreasonably withheld. PG&E shall have the right to have representatives present at the Commissioning Test as defined in Rule 21. Customer-Generator shall notify PG&E at least five (5) business days prior to the initial testing.

## 7. INTERCONNECTION FACILITIES

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

**8. LIMITATION OF LIABILITY**

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

**9. INSURANCE**

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

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

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

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

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

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

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

The insurance shall, by endorsement, shall:

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

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

- 9.4 All required certificates, endorsements or letters of self-insurance shall be issued and

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submitted to the following:

Pacific Gas and Electric Company  
Attn: Manager, Generation Interconnection Services  
P.O. Box 770000  
Mail Code B13M  
San Francisco, California 94177

**10. INDEMNITY FOR FAILURE TO COMPLY WITH INSURANCE PROVISIONS**

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

10.2 The provisions of this Section 10 shall not be construed to relieve any insurer of its obligations to pay any insurance claims in accordance with the provisions of any valid insurance policy.

**11. NOTICES**

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

If to PG&E: Pacific Gas and Electric Company  
Attention: Business Customer Center  
P.O. Box 770000  
Mail Code B8C  
San Francisco, California 94177  
Phone: (800) 468-4743  
FAX: (415) 972-5309

If to Customer-Generator :

Customer-Generator Name: \_\_\_\_\_

Address: \_\_\_\_\_

City: \_\_\_\_\_

Phone: (     ) \_\_\_\_\_

FAX: (     ) \_\_\_\_\_

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

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notice of the change in accordance with Section 11.1.

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

**12. REVIEW OF RECORDS AND DATA**

12.1 PG&E shall have the right to review and obtain copies of Customer-Generator's operations and maintenance records, logs, or other information such as Generating Facility availability, maintenance outages, circuit breaker operation requiring manual reset, relay targets and unusual events pertaining to Customer-Generator's Generating Facility or its interconnection to PG&E.

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

**13. ASSIGNMENT**

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

**14. NON-WAIVER**

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

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

15.1 This Agreement shall be interpreted, governed, and construed under the laws of the State of California as if executed and to be performed wholly within the State of California without giving effect to choice of law provisions that might apply to the law of a different jurisdiction.

15.2 This Agreement shall, at all times, be subject to such changes or modifications by the Commission as it may from time to time direct in the exercise of its jurisdiction.

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- 15.3 The interconnection and services provided under this Agreement shall at all times be subject to the terms and conditions set forth in the Tariff Schedules and Rules applicable to the electric service provided by PG&E, which Tariff Schedules and Rules are hereby incorporated into this Agreement by this reference.
- 15.4 Notwithstanding any other provisions of this Agreement, PG&E shall have the right to unilaterally file with the Commission, pursuant to the Commission's rules and regulations, an application for change in rates, charges, classification, service, tariff or rule or any agreement relating thereto.

**16. AMENDMENT AND MODIFICATION**

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

**17. ENTIRE AGREEMENT**

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

**18. SIGNATURES**

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

CUSTOMER-GENERATOR'S NAME

PACIFIC GAS AND ELECTRIC COMPANY

By: \_\_\_\_\_

By: \_\_\_\_\_

Name: \_\_\_\_\_

Name: \_\_\_\_\_

Title: \_\_\_\_\_

Title: Manager,  
Generation Interconnection Services

Date: \_\_\_\_\_

Date: \_\_\_\_\_

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

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**APPENDIX B**

**(If Applicable)**

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



Pacific Gas and Electric Company  
San Francisco, California

Cancelling

Original

Cal. P.U.C. Sheet No.

22696-E

Cal. P.U.C. Sheet No.

20853-E

PACIFIC GAS AND ELECTRIC COMPANY

APPLICATION FOR INTERCONNECTING RESIDENTIAL OR SMALL COMMERCIAL  
NET ENERGY METERING (E-NET) CUSTOMERS WITH SOLAR OR WIND ELECTRIC  
GENERATING FACILITIES OF 10 KILOWATTS OR LESS  
FORM NO. 79-994 (REV. 01/05)  
(ATTACHED)

(T)

Advice Letter No. 2614-E  
Decision No.

Issued by  
**Karen A. Tomcala**  
Vice President  
Regulatory Relations

Date Filed January 14, 2005  
Effective February 23, 2005  
Resolution No. \_\_\_\_\_

53739



**INTERCONNECTION APPLICATION FOR  
NET ENERGY METERING (NEM) FOR  
RESIDENTIAL OR SMALL COMMERCIAL  
CUSTOMERS WITH SOLAR OR WIND  
ELECTRIC GENERATING FACILITIES OF 10  
KILOWATTS OR LESS**

**Part I – Introduction and Overview**

**E. Applicability:**

This *INTERCONNECTION APPLICATION FOR NET ENERGY METERING (NEM) FOR RESIDENTIAL OR SMALL COMMERCIAL CUSTOMERS WITH SOLAR OR WIND ELECTRIC GENERATING FACILITIES OF 10 KW OR LESS* ("Application") applies to net energy metering electric rate Schedule NEM for residential or small commercial<sup>1</sup> Customers ("Customer") who interconnect a solar or wind turbine electrical Generating Facility, or a hybrid system of both, with an aggregate capacity of not more than 10 kilowatts (kW) that is located on the Customer's premises, and which operates in parallel with Pacific Gas and Electric Company's ("PG&E") transmission and distribution facilities, and is used primarily to offset part or all of a Customer's own electrical requirements ("Generating Facility").

This Application also needs to be filed for changes to an existing, approved interconnection when: 1) the changes involve ownership of the Generating Facility (for example, when the property is sold); 2) physical changes are made to the Generating Facility (for example, when more photovoltaic panels are added or an inverter is replaced), and/or 3) as otherwise required by PG&E.

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

**F. Application Package:**

In addition to this Application form, applicants must submit the documents described below to complete the application package. These additional documents are needed to ensure safe and reliable operation of PG&E's distribution facilities and to confirm that Customer's interconnection has been performed in accordance with PG&E's tariffs. (Additional forms are available upon request by telephoning 415-972-5676 or on PG&E's website at <http://www.pge.com/gen>).

**5. Required Documents for New Applicants:**

- e. A completed copy of this **Application**. **Please note:** the name on the Application and all other documents described below must be the same name as on the PG&E bill. PG&E may only make changes to an account or service if authorized by the Customer of record.
- f. A completed and signed copy of the *INTERCONNECTION AGREEMENT FOR NET ENERGY METERING FOR RESIDENTIAL AND SMALL COMMERCIAL SOLAR OR WIND ELECTRIC GENERATING FACILITIES OF 10 KILOWATTS OR LESS* (Form

<sup>1</sup> "Small commercial" is defined as a commercial account with a maximum demand of less than 20 kW.

79-854). In the **Interconnection Agreement** the Customer will confirm their otherwise-applicable rate schedule, as well as the date initial permits to commence construction were provided by the governmental authority having jurisdiction over the Generating Facility. The Customer's otherwise-applicable rate schedule will establish how the Customer's monthly usage or net generation will be valued. Customers cannot change this rate schedule for a period of twelve (12) months, in accordance with PG&E's Electric Rule 12.

- g. A **single-line diagram** showing the Customer's actual installation of its Generating Facility. The diagram must include the electrical rating and operating voltages of the significant electrical components such as the service panel, the disconnect switch, inverters, all wind and/or photovoltaic generators, circuit breakers, and protective functions of the Generating Facility, the general location of the Customer's loads relative to the Generating Facility, and the interconnection with PG&E's Distribution System. The diagram must include the following information:
- 1) A description of the visible, lockable **disconnect switch** to be used between the interconnected Generating Facility and PG&E's Distribution System. The description must include the switch manufacturer, model number and switch capacity ratings (current and voltage). Note that the disconnect switch must normally be installed within 10 feet of the Customer's service panel and in a readily accessible location where PG&E personnel can operate the switch at any time. Disconnect switch must be the type approved by PG&E (see the PG&E web site at <http://www.pge.com/gen>).
  - 2) A description of the specific **DC to AC inverter(s)** used to control the interconnection between PG&E and the Generating Facility, including rating, brand name, and model number. Only California Energy Commission Certified inverters will pass the requirements for the Simplified Interconnection per Rule 21. (See website at: [http://www.consumerenergycenter.org/erprebate/eligible\\_inverters.html](http://www.consumerenergycenter.org/erprebate/eligible_inverters.html)  
Non-certified units will require further study and may involve additional costs.
  - 3) A complete description of the generating **equipment Customer plans to install**. If the Generating Facility includes solar photovoltaic panels, the description must include the manufacturer name, model number, number of panels, and the rating. If the Generating Facility includes a wind-turbine, the description must include the manufacturer name, model number, number of turbines, and the rating. For all descriptions of equipment rating, use the nameplate rating found on the equipment or in the equipment specifications. Only California Energy Commission certified inverters and certified wind turbine generators without separate inverters will pass the requirements for Simplified Interconnection. (See the PG&E website <http://www.pge.com/gen> or the CEC website at: <http://www.consumerenergycenter.org/erprebate/equipment.html>)
  - 4) A description of how the power output from the inverter is connected to the **main service panel via a branch breaker**. The amperes rating of this branch breaker and also main service panel breaker must have the capabilities to carry the output rating of the Generating Facility. Output rating is computed based on total nameplate rating of the inverter.
- h. Proof of any existing (liability and/or property) **insurance coverage** for the location of the Schedule NEM Generating Facility. Customers must provide PG&E with a copy of the Declaration page of their insurance policy or other equivalent document acceptable to PG&E. This coverage level must be maintained as long as Customer's Generating Facility is interconnected to PG&E's distribution system.

- i. If Customer selects a **time-of-use rate** as their otherwise-applicable rate schedule under NEM, an installation fee is required for a special bi-directional time-of-use meter. The time-of-use meter for NEM must be bi-directional to provide net energy metering, and consequently differs from the time-of-use meter for accounts without generating facilities. For residential Customers selecting Schedule E-7, which is the basic residential time-of-use rate schedule, the installation fee is \$277. For small commercial Customers selecting Schedule A-6, which is the basic commercial time-of-use rate schedule, the installation fee is \$443. For information about meter costs associated with other rates, please contact PG&E.

**Please note:** Installation of the time-of-use meter will not be scheduled by PG&E until the time-of-use meter installation fee and all completed Application materials are received by PG&E.

A copy of the final, signed, jurisdictional approval for Customer's Generating Facility from the local government entity with jurisdiction over the Customer's project (Generally, a local city or county building and/or planning commission/ department). **While Customer's application package will not be complete until PG&E receives this document, Customers should not delay sending all other Application materials to PG&E.**

Once PG&E receives documentation described in Section B.1. (a) through (e) above, PG&E will begin to process the application. As soon as PG&E receives the jurisdictional approval form, PG&E will contact the Customer to schedule an on-site inspection and, if required, bi-directional meter installation.

0. **Other Documents and/or Fees that may be required:**

- A completed form **Authorization to Receive Customer Information or Act on a Customer's Behalf**. This form is required if a contractor or other person will be acting as an agent for the Customer and working with PG&E on this application. PG&E may only discuss Customer-related information with the Customer of record (the person whose name is shown on their bill) unless that Customer has completed this form. This Authorization form may be found at <http://www.pge.com/gen>.
- If Customer selects **Schedule E-9, the Experimental Rate for Low Emission Vehicles** as the otherwise-applicable rate, a **Schedule E-9 Application** form will need to be completed and signed.
- An **Application for Service** must be completed if this is a **new service** (for example, if this is for a new house to be constructed.) **Please note:** additional fees may be required if there is new service at the location and a service or line extension is required (in accordance with Electric Rules 15 and 16).
- **Applications with non-standard DC to AC inverters** which do not meet the UL and IEEE requirements specified in Electric Rule 21, or Customers whose aggregate Generating Facility capacity exceeds 15% of the peak load on the distribution line section as described in Electric Rule 21 (Section I.6.) require a **Supplemental Review** which may entail a study, additional equipment, and/or other requirements.
- Customers applying for NEM who are served under **Direct Access** by an Energy Service Provider (ESP) must contact their ESP directly for information regarding the ESP's net energy metering program.

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

**Please note** that this application does not constitute an application to any **rebate** and **incentive programs**. For more information on these programs and the required applications, please contact PG&E about the Self-Generation program (on the web at [www.pge.com/selfgen](http://www.pge.com/selfgen), telephone (415) 973-6436, or e-mail: [selfgen@pge.com](mailto:selfgen@pge.com)) or contact the agencies administering those programs directly.

**Steps for Parallel Operation:**

- Step 1:** Complete this Application and the other items described in Section B.1.b) through B.1.e), above. Mail these documents, along with any required fees, to PG&E at the address below. PG&E will review the application package to verify it meets all applicable tariffs and will advise the Customer of its status.
- Step 2:** Mail a copy of the final, signed, approval for the Generating Facility from the local government entity with jurisdiction over project, described in Section B.1.f) above, to PG&E. Once received, PG&E will contact the Customer to schedule an on-site inspection and bi-directional meter installation. If this inspection proves satisfactory, PG&E will provide the Customer with written authorization for Parallel Operation.
- Step 3:** Generating Facility's Parallel Operation may commence only after receipt of written authorization from PG&E.

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

**D. Internet Application Forms**

If this Application has been completed on PG&E's website, it may be automatically submitted via that system. Copies of the required signed forms, attachments and any applicable fees described in Section B.1. b) through B.1.f) above must be mailed to the address below.

**D. Mailing Instructions and Assistance:**

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

Pacific Gas and Electric Company  
Attention: Generation Interconnection Services  
Mail Code B13M  
P.O. Box 770000  
San Francisco, California 94177

For answers to questions or for assistance completing this application, please call (415) 972-5676 or e-mail [gen@pge.com](mailto:gen@pge.com).

**Part II - Identifying the Generating Facility's Location and Responsible Parties**

**A. Customer's Generating Facility Information** (Where will the Generating Facility be installed?)

Name shown on PG&E service account		Electric Account Number	
Street Address			
City	State	Zip	
Mailing Address			
City	State	Zip	
Business Phone	Home Phone	Fax	Email

**Part II - Identifying the Generating Facility's Location and Responsible Parties, continued**

**B. Contractor Information<sup>2</sup>** (Please provide even if Contractor is not used as a PG&E contact).

Contractor		Company Name	
Mailing Address			
City	State	Zip	
Business Phone	Fax	Email	

<sup>2</sup> If you want PG&E to be able to talk to your contractor or another person about your Generating Facility and/or other confidential customer information you will need to complete the *Authorization to Receive Customer Information or Act on the Customer's Behalf* form described above in Section B. 2.(a).

- Contractor to be used as PG&E contact and authorized by Customer to receive confidential Customer information. *Authorization to Received Customer Information or Act on Customer's Behalf* form completed by Customer and attached.

C. **Other Contact Information<sup>2</sup>** (Do not complete if the Contractor above is to be used as PG&E contact.)

Contact Person	Company Name (if applicable)	
Mailing Address		
City	State	Zip
Business Phone	Fax	Email

- Other Contact Person to be used as PG&E contact and authorized by Customer to receive confidential Customer information. *Authorization to Received Customer Information or Act on Customer's Behalf* form completed by Customer and attached.

**Part III – Description of the Generating Facilities** *Use additional sheets, if necessary.*

A. **Disconnect Switch**  
List the disconnect switch that will be used at this Generating Facility.

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

B. **Inverters interconnected with PG&E**  
List all the inverters that will be interconnected to PG&E.

Inverter Number	Inverter Manufacturer	Inverter Model Number	Inverter Rating (kW) <sup>3</sup>	Inverter Output Voltage	Single or Three phase?

<sup>3</sup> The inverter rating equals: (the CEC efficiency for each installed inverter) TIMES (the nameplate rating, in kW, of each inverter). The CEC efficiency is obtained the CEC website at [http://www.consumerenergycenter.org/erprebate/eligible\\_inverters.html](http://www.consumerenergycenter.org/erprebate/eligible_inverters.html) as listed on the date the application is reviewed. Enter the total of all inverter ratings for multiple inverter installations in the Table above.

1					
2					

**C. Photovoltaic Generator Equipment**

List the photovoltaic (PV) panel information requested below. If the panels are not all identical modules, list the total capacity connected to each inverter you listed above.

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

**D. Wind Turbine Equipment**

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

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

**Part IV - General Information**

1. What applicable Rate Schedule have you selected for your NEM account (known as your "otherwise applicable rate schedule")?

RESIDENTIAL:

- E-1 – Residential Service
- E-7 – Residential Time-of-Use Service
- E-9 – Experimental Residential Time-of-Use for Low Emission Vehicle Customers

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

Other (Which? \_\_\_\_\_)

SMALL COMMERCIAL

- A-1 – Small General Service
- A-6 – Small General Time-of-Use Service
- Other (Which? \_\_\_\_\_)

2. This application is for:

- A new (or proposed) NEM Generation Facility that has not previously been approved for Parallel Operation with PG&E.
- An existing Generating Facility to which generator modifications are being made.
- An existing NEM Generating Facility which has previously been approved for Parallel Operation by PG&E and for which the account has been **closed** or had a **change in the name** on the bill.

3. The Generating Facility in this Application is for:

- An existing PG&E account
- A new PG&E account

4. Will the account associated with this Generating Facility receive energy from an **Energy Service Provider other than PG&E?**

- Yes    If yes, who is the Energy Service Provider? \_\_\_\_\_
- No

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

- Yes    If yes, who is the developer? \_\_\_\_\_
- No

6. Will a **low emission vehicle** recharging facility be included as part of the load at this location?

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

7. Expected **date** of Final, Signed-Off Building Permit for Generating Facility?

Date: \_\_\_\_\_

8. If the Applicant has received permits to commence construction of the Generating Facility before January 1, 2003, on what date did applicant have all local and state permits to commence construction and will construction of the Generating Facility be completed on or before September 30, 2003?

Date: applicant had permits to commence construction \_\_\_\_\_

Was construction completed on or before September 30, 2003? Yes No

9. If the applicant has a wind Generating Facility, is it greater than 50kW but not exceeding 1MW so that it will take service under Special Condition 5 of the NEM tariff for Wind Energy Co-metering?

Wind Generator is greater than 50 kW and less the 1MW in size? Yes No



*Pacific Gas and Electric Company  
San Francisco, California*

*Cancelling*

*Original*

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

*22697-E  
20471-E*

**PACIFIC GAS AND ELECTRIC COMPANY  
INTERCONNECTION AGREEMENT FOR NET ENERGY METERING  
OF QUALIFYING BIOGAS DIGESTER GENERATING FACILITIES  
FORM NO. 79-997 (REV. 01/05)  
(ATTACHED)**

**(T)**

*Advice Letter No. 2614-E  
Decision No.*

*Issued by  
Karen A. Tomcala  
Vice President  
Regulatory Relations*

*Date Filed January 14, 2005  
Effective February 23, 2005  
Resolution No. \_\_\_\_\_*

53740



**WE DELIVER ENERGY<sup>SM</sup>**

This "Interconnection Agreement for Net Energy Metering of Qualifying Biogas Digester Generating Facilities" ("Agreement") is entered into by and between \_\_\_\_\_ ("Biogas Customer-Generator"), and Pacific Gas and Electric Company ("PG&E"), a California Corporation. Biogas Customer-Generator and PG&E are sometimes also referred to in this Agreement jointly as "Parties" or individually as "Party." In consideration of the mutual promises and obligations stated in this Agreement and its attachments, the Parties agree as follows:

**1. SCOPE AND PURPOSE**

This Agreement provides for Biogas Customer-Generator to interconnect and operate an Eligible Biogas Digester Electrical Generating Facility in parallel with PG&E's Distribution System to serve the electrical loads connected to the electric service account that PG&E uses to interconnect Biogas Customer-Generator's Generating Facility. Biogas Customer-Generator's Generating Facility is intended primarily to offset part or all of the Biogas Customer-Generator's own electrical requirements. Consistent with, and in order to effectuate, the provisions of Section 2827.9 of the California Public Utilities Code and Pacific Gas and Electric Company's electric rate Schedule NEMBIO ("NEMBIO"), Parties enter into this Agreement. This Agreement applies to the Biogas Customer-Generator's Generating Facilities identified below with the specified characteristics and generating capacity, and does not allow interconnection or operation of facilities different than those described.

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

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

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

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

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

Name: \_\_\_\_\_

Address: \_\_\_\_\_

City/Zip Code: \_\_\_\_\_

- 2.5 The Gross Nameplate Rating of the Generating Facility is: \_\_\_\_\_ kW.
- 2.6 The Net Nameplate Rating of the Generating Facility is \_\_\_\_\_ kW.
- 2.7 The expected annual energy production of the Generating Facility is \_\_\_\_\_ kWh.
- 2.8 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.
- 2.9 Biogas Customer-Generator's otherwise-applicable-rate schedule as of the execution of this Agreement is \_\_\_\_\_.

### 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.

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

Appendix B 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 C List of qualifying accounts eligible for aggregation under Special Condition 2 of Schedule NEMBIO (if applicable).

In addition PG&E Electric Tariff Rules and Rates, including but not limited to Electric Rules 2, 14, 15, 16, and 21, Schedule NEMBIO, and Biogas Customer-Generator's otherwise applicable rate schedule, available at PG&E's web-site at [www.pge.com](http://www.pge.com), or by request, are specifically incorporated herein and made part of this Agreement.

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

### 4. CUSTOMER BILLING AND PAYMENT OPTIONS

Biogas Customer-Generator initially selects Pacific Gas and Electric Company's electric rate schedule referenced in Section 2.9 of this Agreement as its otherwise-applicable rate schedule. Biogas Customer-Generator understands that they will be billed according to Schedule NEMBIO.

As provided under Special Condition 2 of Schedule NEMBIO, dairy operations may aggregate the electric load of other qualifying accounts. Exhibit C of this Agreement lists all accounts that qualify for this provision. Exhibit C may be modified from time to time by mutual consent of the Parties. Biogas Customer-Generator must provide PG&E with at least 60 days Notice pursuant to Section 11 of this Agreement, of proposed changes to Exhibit C.

### 5. TERM AND TERMINATION

**INTERCONNECTION AGREEMENT FOR NET ENERGY METERING OF BIOGAS DIGESTER GENERATING  
FACILITIES**

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- 5.1 This Agreement shall become effective as of the last date entered in Section 18, below, which shall be no later than 12/31/06. The Agreement shall continue in full force and effect until the earliest date that one of the following events occurs:
- (a) The Parties agree in writing to terminate the Agreement.
  - (b) Unless otherwise agreed in writing by the Parties, at 12:01 A.M. on the day following the date the electric service account through which Biogas Customer-Generator's Generating Facility is interconnected to PG&E's Distribution System is closed or terminated.
  - (c) At 12:01 A.M. on the 61<sup>st</sup> day after Biogas Customer-Generator or PG&E provides written Notice pursuant to Section 11 below to the other Party of Biogas Customer-Generator's or PG&E's intent to terminate this Agreement.
- 5.2 Biogas Customer-Generator may elect to terminate this Agreement pursuant to the terms of Section 5.1(c) for any reason. PG&E may elect to terminate this Agreement pursuant to the terms of Section 5.1(c) for one or more of the following reasons:
- (a) A change in applicable rules, tariffs, and regulations, as approved or directed by the Commission, or a change in any local, state or federal law, statute or regulation, either of which materially alters or otherwise affects PG&E's ability or obligation to perform PG&E's duties under this Agreement; or,
  - (b) Biogas Customer-Generator fails to take all corrective actions specified in PG&E's Notice that Biogas Customer-Generator's Generating Facility is out of compliance with the terms of this Agreement within the time frame set forth in such Notice; or,
  - (c) Biogas Customer-Generator fails to interconnect and operate the Generating Facility per the terms of this Agreement prior to January 1, 2007; or,
  - (d) Biogas Customer-Generator abandons the Generating Facility. PG&E shall deem the Generating Facility to be abandoned if PG&E determines, in its sole opinion, the Generating Facility is non-operational and Biogas Customer-Generator does not provide a substantive response to PG&E Notice of its intent to terminate this Agreement as a result of Biogas Customer-Generator's apparent abandonment of the Generating Facility affirming Biogas Customer-Generator's intent and ability to continue to operate the Generating Facility; or,
  - (e) Biogas Customer-Generators facility ceases to meet all applicable safety and performance standards set out in Section 6.
- 5.3 Notwithstanding any other provisions of this Agreement, PG&E shall have the right to unilaterally file with the Commission, pursuant to the Commission's rules and regulations, an application to terminate this Agreement.
- 5.4 Any agreements attached to and incorporated into this Agreement shall terminate concurrently with this Agreement unless the Parties have agreed otherwise in writing.

**6 GENERATING FACILITY REQUIREMENTS:**

**INTERCONNECTION AGREEMENT FOR NET ENERGY METERING OF BIOGAS DIGESTER GENERATING  
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- 6.1 Biogas Customer-Generator's 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 Public Utilities Commission regarding safety and reliability.
- 6.2 Biogas Customer-Generator shall: (a) maintain the Facility and Interconnection Facilities in a safe and prudent manner and in conformance with all applicable laws and regulations including, but not limited to, Section 6.1, and (b) obtain any governmental authorizations and permits required for the construction and operation of the Facility and interconnection facilities. Biogas Customer-Generator shall reimburse Pacific Gas and Electric Company for any and all losses, damages, claims, penalties, or liability it incurs as a result of Biogas Customer-Generator's failure to obtain or maintain any governmental authorizations and permits required for construction and operation of Biogas Customer-Generator's Facility.
- 6.3 Biogas Customer-Generator shall not commence parallel operation of the Facility until Pacific Gas and Electric Company has provided written approval to the Biogas Customer-Generator to do so. No such approval shall be provided until at least ten (10) working days following the utility's receipt of the inspection clearance of the governmental authority having jurisdiction. Such approval shall not be unreasonably withheld. Pacific Gas and Electric Company shall have the right to have representatives present at the initial testing of Biogas Customer-Generator's protective apparatus. Biogas Customer-Generator shall notify the utility five (5) working days prior to the initial testing.
- 7.2 The Biogas Customer-Generator warrants that they are the recipient of local, state, or federal funds; or they self-finance pilot projects designed to encourage the development of eligible biogas digester electrical generating facilities.

**7. INTERCONNECTION FACILITIES**

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

**8. LIMITATION OF LIABILITY**

**INTERCONNECTION AGREEMENT FOR NET ENERGY METERING OF BIOGAS DIGESTER GENERATING  
FACILITIES**

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

**9. INSURANCE**

9.1 In connection with Customer-Generator's performance of its duties and obligations under this Agreement, Customer-Generator 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 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."

9.2 The general liability insurance required in this Section 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) calendar days' written notice to PG&E prior to cancellation, termination, alteration, or material change of such insurance.

9.3 If Biogas Customer-Generator's Generating Facility is connected to an account receiving residential service from PG&E and the requirement of Section 9.2(a) prevents Biogas Customer-Generator from obtaining the insurance required in this Section, then upon Biogas Customer-Generator's written Notice to PG&E in accordance with Section 11.1, the requirements of Section 9.2(a) shall be waived.

9.4 Evidence of the insurance required in Section 9.2 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.

**INTERCONNECTION AGREEMENT FOR NET ENERGY METERING OF BIOGAS DIGESTER GENERATING  
FACILITIES**

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- 9.5 Biogas Customer-Generator 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.
- 9.6 If Biogas Customer-Generator is self-insured with an established record of self-insurance, Biogas Customer-Generator may comply with the following in lieu of Section 9.2:
- (a) Biogas Customer-Generator 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 9.1.
  - (b) If Biogas Customer-Generator ceases to self-insure to the level required hereunder, or if Biogas Customer-Generator is unable to provide continuing evidence of Biogas Customer-Generator's ability to self-insure, Biogas Customer-Generator agrees to immediately obtain the coverage required under Section 9.1.
- 9.7 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  
Attn: Manager, Generation Interconnection Services.  
PO Box 770000  
Mail Code B13J  
San Francisco, California 94177

**10 INDEMNITY FOR FAILURE TO COMPLY WITH INSURANCE PROVISIONS**

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

**11 NOTICES**

- 11.1 Any written notice, demand, or request required or authorized in connection with this Agreement ("Notice") shall be deemed properly given if delivered in person or sent by

**INTERCONNECTION AGREEMENT FOR NET ENERGY METERING OF BIOGAS DIGESTER GENERATING  
FACILITIES**

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first class mail, postage prepaid, to the person specified below:

If to PG&E: Pacific Gas and Electric Company  
Attention: Business Customer Services  
P.O. Box 770000  
Mail Code B8C  
San Francisco, California 94177  
Phone: (800) 468-4743  
**FAX:** (415) 972-5309

If to Biogas Customer-Generator:

Biogas Customer-Generator Name: \_\_\_\_\_

Address: \_\_\_\_\_

City: \_\_\_\_\_

Phone: (     ) \_\_\_\_\_

FAX: (     ) \_\_\_\_\_

- 11.2 A Party may change its address for Notices at any time by providing the other Party notice of the change in accordance with Section 11.1.
- 11.3 The Parties may also designate operating representatives to conduct the daily communications, which may be necessary or convenient for the administration of this Agreement. Such designations, including names, addresses, and phone numbers may be communicated or revised by one Party's Notice to the other.

**12. REVIEW OF RECORDS AND DATA**

- 12.1 PG&E shall have the right to review and obtain copies of Biogas Customer-Generator's operations and maintenance records, logs, or other information such as, Generation Unit availability, maintenance outages, circuit breaker operation requiring manual reset, relay targets and unusual events pertaining to Biogas Customer-Generator's Generating Facility or its interconnection with PG&E's Distribution System.
- 12.2 Biogas Customer-Generator authorizes to release to the California Energy Commission (CEC) information regarding Biogas Customer-Generator'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.

**13. ASSIGNMENT**

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

**14. NON-WAIVER**

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

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

- 15.1 This Agreement shall be interpreted, governed, and construed under the laws of the State of California as if executed and to be performed wholly within the State of California without giving effect to choice of law provisions that might apply to the law of a different jurisdiction.
- 15.2 This Agreement shall, at all times, be subject to such changes or modifications by the Commission as it may from time to time direct in the exercise of its jurisdiction.
- 15.3 The interconnection and services provided under this Agreement shall at all times be subject to the terms and conditions set forth in the Tariff Schedules and Rules applicable to the electric service provided by, PG&E, which Tariff Schedules and Rules are hereby incorporated into this Agreement by this reference.
- 15.4 Notwithstanding any other provisions of this Agreement, PG&E shall have the right to unilaterally file with the Commission, pursuant to the Commission's rules and regulations, an application for change in rates, charges, classification, service, tariff or rule or any agreement relating thereto.

**16. AMENDMENT AND MODIFICATION**

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

**17. ENTIRE AGREEMENT**

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

**18. SIGNATURES**

**INTERCONNECTION AGREEMENT FOR NET ENERGY METERING OF BIOGAS DIGESTER GENERATING  
FACILITIES**

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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.

BIOGAS CUSTOMER-GENERATOR'S  
NAME

PACIFIC GAS AND ELECTRIC COMPANY

By: \_\_\_\_\_

By: \_\_\_\_\_

Name \_\_\_\_\_

Name: \_\_\_\_\_

Title: \_\_\_\_\_

Title: Manager,  
Generation Interconnection Svcs

Date: \_\_\_\_\_

Date: \_\_\_\_\_

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

INTERCONNECTION AGREEMENT FOR NET ENERGY METERING OF BIOGAS DIGESTER GENERATING  
FACILITIES

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

INTERCONNECTION AGREEMENT FOR NET ENERGY METERING OF BIOGAS DIGESTER GENERATING  
FACILITIES

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APPENDIX C  
(If Applicable)

LIST OF QUALIFYING ACCOUNTS ELIGIBLE  
FOR AGGREGATION UNDER SPECIAL  
CONDITION 2 OF SCHEDULE NEMBIO

INTERCONNECTION AGREEMENT FOR NET ENERGY METERING OF BIOGAS DIGESTER GENERATING  
FACILITIES

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Customer Account No.

Address (Street, City, Zip Code)

_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

Signature: (PG&E): \_\_\_\_\_ Date: \_\_\_\_\_

(Customer) \_\_\_\_\_ Date: \_\_\_\_\_

Date Completed:

Page \_\_\_ of \_\_\_



Pacific Gas and Electric Company  
San Francisco, California

Cancelling

Original

Cal. P.U.C. Sheet No.

22698-E

Cal. P.U.C. Sheet No.

20854-E

PACIFIC GAS AND ELECTRIC COMPANY

EXPANDED NET ENERGY METERING (NEM) SUPPLEMENTAL APPLICATION  
FORM NO. 79-998 (REV. 01/05)  
(ATTACHED)

(T)

(T)

Advice Letter No. 2614-E  
Decision No.

Issued by  
Karen A. Tomcala  
Vice President  
Regulatory Relations

Date Filed January 14, 2005  
Effective February 23, 2005  
Resolution No. \_\_\_\_\_

53741



All NEM Applicants completing a **GENERATING FACILITY INTERCONNECTION APPLICATION (Form 79-974)** must also complete this form. Please answer the questions below. Use additional sheets, if necessary.

<p>A</p>	<p>What are the specifications for the single disconnect switch that will be used at this Generating Facility?</p> <p>Note: The disconnect switch must be installed in a readily accessible location normally within ten (10) feet of the service panel and in a location where PG&amp;E can operate the switch.</p>	<p>Disconnect Switch Manufacturer _____</p> <p>Disconnect Switch Model Number _____</p> <p>Disconnect Switch Rating _____ Amps</p>
	<p>Can PG&amp;E readily access the disconnect switch for this Generating Facility year-round?</p>	<p>Yes _____</p> <p>No _____</p> <p>_____ (Please explain why)</p>
<p>B</p>	<p>What is the otherwise-applicable rate schedule that you are requesting under PG&amp;E's Net Energy Metering tariff?</p>	<p>PG&amp;E Otherwise-Applicable Rate Schedule _____</p>
<p>C</p>	<p>What is the power source of the Generating Facility (i.e., solar or wind)?</p>	<p>Check all that apply:</p> <p>Solar _____</p> <p>Wind _____</p>



D	Does the Generating Facility include a wind energy generator that is greater than 50 kW but not exceeding 1 MW, so that it will take service under Special Condition 5 of the NEM Tariff for Wind Energy Co-Metering?	<p>Has a wind energy generator with a nameplate rating greater than 50 kW but not exceeding 1 MW?</p> <p>Yes _____</p> <p>No _____</p>
E	When did/will you have all permits required to commence construction of the Generating Facility, and when will construction be completed?	<p>Date permitted to commence construction _____</p> <p>Date construction completed _____</p>
F	Can PG&E readily access the Customer's <u>service panel</u> to read the PG&E meter year-round?	<p>Yes _____</p> <p>No _____</p> <p>_____ (Please explain why)</p>
G	How many Customer-owned locked gates will PG&E need to pass through to access the PG&E meter and disconnect switch?	<p>Number of locked gates _____</p>
H	Will PG&E need access to any planks or platforms, or need to cross over/under any hot-wire fences to access the disconnect switch or access the meter?	<p>Yes _____</p> <p>_____ (Please explain why)</p> <p>No _____</p>
I	Does Customer receives 3 phase service from PG&E:	<p>Yes _____ (Please answer a and b below)</p> <p>No _____ (Please do <b>not</b> answer a and b below)</p>



<p>a) What Voltage is this service?</p> <p>b) Is the service 3 wires (ungrounded) or 4 wires?</p>	<p>240 V _____ 480 V _____ Other Voltage _____</p> <p>3 wires _____ 4 wires _____</p>
<p>J If the Generating Facility will be associated with an Agricultural rate schedule per Question B, what is the total horsepower of the agricultural pump(s)?</p>	<p>If applicable, Horsepower (hp) _____</p>



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**PG&E Gas and Electric Advice  
Filing List  
General Order 96-A, Section III(G)**

ABAG Power Pool	Dept of the Air Force	Office of Energy Assessments
Accent Energy	DGS Natural Gas Services	Palo Alto Muni Utilities
Aglet Consumer Alliance	DMM Customer Services	PG&E National Energy Group
Agnews Developmental Center	Douglass & Liddell	Pinnacle CNG Company
Ahmed, Ali	Downey, Brand, Seymour & Rohwer	PITCO
Alicantar & Elsesser	Duke Energy	Plurimi, Inc.
Anderson Donovan & Poole P.C.	Duke Energy North America	PPL EnergyPlus, LLC
Applied Power Technologies	Duncan, Virgil E.	Praxair, Inc.
APS Energy Services Co Inc	Dutcher, John	Price, Roy
Arter & Hadden LLP	Dynegy Inc.	Product Development Dept
Avista Corp	Ellison Schneider	R. M. Hairston & Company
Barkovich & Yap, Inc.	Energy Law Group LLP	R. W. Beck & Associates
BART	Energy Management Services, LLC	Recon Research
Bartle Wells Associates	Enron Energy Services	Regional Cogeneration Service
Blue Ridge Gas	Exelon Energy Ohio, Inc	RMC Lonestar
Bohannon Development Co	Exeter Associates	Sacramento Municipal Utility District
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Braun & Associates	Foster, Wheeler, Martinez	Seattle City Light
C & H Sugar Co.	Franciscan Mobilehome	Sempra
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CA Cotton Ginners & Growers Assoc.	G. A. Krause & Assoc	Sequoia Union HS Dist
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CA Water Service Group	GLJ Energy Publications	Sierra Pacific Power Company
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California Farm Bureau Federation	Hanna & Morton	Simpson Paper Company
California Gas Acquisition Svcs	Heeg, Peggy A.	Smurfit Stone Container Corp
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Calpine	House, Lon	SPURR
Calpine Corp	Imperial Irrigation District	St. Paul Assoc
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Cambridge Energy Research Assoc	International Power Technology	Sutherland, Asbill & Brennan
Cameron McKenna	Interstate Gas Services, Inc.	Tabors Caramanis & Associates
Cardinal Cogen	J. R. Wood, Inc	Tansev and Associates
Cellnet Data Systems	JTM, Inc	Tecogen, Inc
Chevron USA Production Co.	Kaiser Cement Corp	TFS Energy
Childress, David A.	Korea Elec Power Corp	TJ Cross Engineers
City of Glendale	Luce, Forward, Hamilton & Scripps	Transwestern Pipeline Co
City of Healdsburg	Marcus, David	Turlock Irrigation District
City of Palo Alto	Masonite Corporation	U S Borax, Inc
City of Redding	Matthew V. Brady & Associates	United Cogen Inc.
CLECA Law Office	Maynor, Donald H.	URM Groups
Constellation New Energy	McKenzie & Assoc	Utility Cost Management LLC
Cooperative Community Energy	McKenzie & Associates	Utility Resource Network
CPUC	Meek, Daniel W.	Wellhead Electric Company
Creative Technology	Mirant California, LLC	Western Hub Properties, LLC
Cross Border Inc	Modesto Irrigation Dist	White & Case
Crossborder Inc	Morrison & Foerster	WMA
CSC Energy Services	Morse Richard Weisenmiller & Assoc.	
Davis, Wright Tremaine LLP	Navigant Consulting	
Davis, Wright, Tremaine, LLP	New United Motor Mfg, Inc	
Defense Fuel Support Center	Norris & Wong Associates	
Department of the Army	North Coast Solar Resources	
Department of Water & Power City	Northern California Power Agency	