

PUBLIC UTILITIES COMMISSION

505 VAN NESS AVENUE

SAN FRANCISCO, CA 94102-3298



December 28, 2010

**Advice Letter 3772-E**

Jane K. Yura  
Vice President, Regulation and Rates  
Pacific Gas and Electric Company  
77 Beale Street, Mail Code B10B  
P.O. Box 770000  
San Francisco, CA 94177

**Subject: Revisions to Residential Time-of-Use Rate Schedules E-7 and  
EL-7 in Compliance with D.08-06-011**

Dear Ms. Yura:

Advice Letter 3772-E is effective January 1, 2011.

Sincerely,

A handwritten signature in blue ink, appearing to read "Julie A. Fitch".

Julie A. Fitch, Director  
Energy Division



December 2, 2010

**Advice 3772-E**

(Pacific Gas and Electric Company ID U 39 E)

Public Utilities Commission of the State of California

**Subject: Revisions to Residential Time-of-Use Rate Schedules E-7 and  
EL-7 in Compliance with Decision 08-06-011**

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

**Purpose**

In compliance with Ordering Paragraph (OP) 3 of California Public Utilities Commission's (Commission) Decision (D.) 08-06-011, PG&E is seeking to close Schedules E-7 and EL-7 to new customers, and beginning in 2011, to recover the revenue shortfall related the lower revenue on Schedules E-7/EL-7 compared to Schedules E-6/EL-6 for the additional new solar customers enrolled during the extended closing of E-7/EL-7 beyond a cap of 5000 new customers.

**Background**

In D.06-12-025, the Commission granted a limited reopening of Schedules E-7 and EL-7 until the earlier of either: 1) an enrollment of 5,000 new solar customers on Schedules E-7 and EL-7 or 2) implementation of Schedule E-6 and EL-6 pursuant to Phase 2 of PG&E's 2007 GRC. PG&E subsequently filed a petition for modification of D.06-12-025 to permit interconnection of additional new solar customers under Schedules E-7 and EL-7 under certain conditions. The Commission approved this request in D.08-06-011, but stated that the revenue shortfall created by the additional enrollments on Schedules E-7 and EL-7 should be charged to PG&E as opposed to ratepayers through 2010. At that time, PG&E should be permitted to seek recovery of the additional annual revenue shortfalls incurred pursuant to the limited further reopening of Schedule E-7 beginning January 1, 2011:

- Ordering Paragraph (OP) 3 of D.08-06-011 states, in part, *"PG&E may seek recovery of the additional revenue shortfall incurred by this modification of D.06-12-025 beginning with the additional revenue shortfall incurred on January 1, 2011 and thereafter. Recovery shall not be permitted of the annual additional revenue shortfalls for 2008, 2009 or 2010."*

- Between July 2008 and October 10, 2010, 397 additional solar customers took service on Electric Schedules E-7 and EL-7, which has resulted in a \$147,057.10 credit. To prevent recovery in rates and ensure the shortfall was charged to PG&E, this amount has been recorded as a credit in the Distribution Revenue Adjustment Mechanism (DRAM) of Electric Preliminary Statement Part CZ. PG&E will continue to credit shortfall amounts to DRAM through the end of this year. In this advice letter, PG&E proposes to eliminate this credit to DRAM as allowed by D.08-06-011, effective January 1, 2011.

In this advice letter, PG&E is requesting approval of three specific changes:

- Delete the credit provision in DRAM of section t.
- Revise the *Applicability* section of Electric Schedules E-7 and EL-7 by removing the text related to the limited reopening and adding language that closes these rate schedules to new customers.
- Remove applicability text from the net energy metering (for solar customers) application and interconnection form, Sample Form 79-1101, that are related to the limited reopening of Schedules E-7 and EL-7.

### **Tariff Revisions**

- In the Electric Schedules E-7 and EL-7, the settlement language in OP 3 of D.08-06-011 regarding the closure of these schedules is removed:

*This voluntary schedule is applicable to customers for whom Schedule E-7 [EL-7] applies where the applicant qualifies for California Alternate Rates for Energy (CARE) under the eligibility and certification criteria set forth in Rules 19.1, 19.2 or 19.3.\* On May 1, 2006, in 2003 GRC Phase 2 Decision 05-11-005, this schedule was closed to all new customers, but was subsequently temporarily reopened on January 1, 2007 only to new solar customers satisfying the conditions in Decision 06-12-025 and Decision 08-06-011. This schedule is closed to new solar customers as of January 1, 2008, except that solar customers requesting service under this rate schedule prior to January 1, 2008, may begin taking this service between January 1, 2008, and June 30, 2009, if they satisfy both of the following conditions:*

- 1) *They submit or have submitted to PG&E one of the following three items for their solar installation:*

*(a) A California Solar Initiative Application on or before December 31, 2007, or*

(b) *An Interconnection Application (either Form Number 79-994, 79-974 or 79-1101) between January 1, 2007 and December 31, 2007, or*

(c) *A signed PG&E CUSTOMER DECLARATION REGARDING RATE E-7/EL-7 ELIGIBILITY AS A CALIFORNIA ENERGY COMMISSION'S NEW SOLAR HOMES PARTNERSHIP (NSHP) REBATE RECIPIENT FOR A SINGLE FAMILY CUSTOM HOME (PG&E Form 79-1106) declaring they relied on the availability of rate Schedule EL-7 when they applied for a single family custom home rebate for their own residence through the California Energy Commission's (CEC) New Solar Home Partnership program between January 1, 2007 and December 31, 2007.*

2) *They submit to PG&E either of the following for their solar installation:*

(a) *Final approved building permit from their local authority on or before December 31, 2008; or*

(b) *Reasonable evidence, acceptable to PG&E, of continued efforts to secure an approved building permit and finalize construction on or before December 31, 2008. Plus, PG&E must receive the final approved building permit by no later than June 30, 2009.*

*Eligible solar customers meeting condition (1) above that were interconnected to PG&E under rate schedules EL-1, EL-6, or EL-8 since January 1, 2008, may make a one time election of EL-7 as long as they do so by December 31, 2008.*

○ *Replaced in E-7 with:*

*This voluntary schedule is applicable to customers for whom Schedule E-1 applies but is closed to all new customers, pursuant to CPUC Decision 06-12-025 and Decision 08-06-011.*

○ *Replaced in EL-7 with:*

*This voluntary schedule is applicable to customers for whom Schedule E-7 applies but is closed to all new customers, pursuant to Decision 06-12-025 and Decision 08-06-011.*

- *Section t of Preliminary Statement CZ is removed:*

*A credit entry equal to \$15 per customer per month for each new solar customer that takes service on Schedule E-7 or EL-7 beyond the 5000 customer limit as established by D.06-12-025. This credit entry will*

*continue through December 31, 2010, in accordance with D.08-06-011, Ordering Paragraph 3.*

- Form 79-1101, *Application and Interconnection Agreement for Customers with Solar and/or Wind Electric Generating Facilities of 30 kilowatts or less*, has the following proposed revision:

- Removed the following language in footnote 2 on page 5:

*Pursuant to the 2003 GRC Phase 2 Decision 05-11-005, this voluntary schedule is applicable to customers for whom Schedule E-1 applies. On May 1, 2006, in 2003 GRC Phase 2 Decision 05-11-005, this schedule was closed to all new customers, but was subsequently temporarily reopened on January 1, 2007 only to new solar customers satisfying the conditions in Decision 06-12-025 and Decision 08-06-011. This schedule is closed to new solar customers as of January 1, 2008, except that solar customers requesting service under this rate schedule prior to January 1, 2008, may begin taking this service between January 1, 2008 and June 30, 2009, if they satisfy both of the following conditions:*

- 1) *They submit or have submitted to PG&E one of the following three items for their solar installation:*
  - (a) *A California Solar Initiative Application on or before December 31, 2007, or*
  - (b) *An Interconnection Application (either Form Number 79-994, 79-974 or 79-1101) between January 1, 2007 and December 31, 2007, or*
  - (c) *A signed PG&E CUSTOMER DECLARATION REGARDING RATE E-7/EL-7 ELIGIBILITY AS A CALIFORNIA ENERGY COMMISSION'S NEW SOLAR HOMES PARTNERSHIP (NSHP) REBATE RECIPIENT FOR A SINGLE FAMILY CUSTOM HOME (PG&E Form 79-1106) declaring they relied on the availability of rate Schedule E-7 when they applied for a single family custom home rebate for their own residence through the California Energy Commission's (CEC) New Solar Home Partnership program between January 1, 2007 and December 31, 2007.*
- 2) *They submit to PG&E either of the following for their solar installation:*
  - (a) *Final approved building permit from their local authority on or before December 31, 2008; or*
  - (b) *Reasonable evidence, acceptable to PG&E, of continued efforts to secure an approved building permit and finalize construction on or before December 31, 2008. Plus, PG&E must receive the final approved building permit by no later than June 30, 2009. Eligible solar customers meeting condition (1) above that were interconnected to PG&E under rate schedules E1, E-6, or E8 (EL-1, EL-6, or EL-8) since January 1, 2008, may make a one time*

*election of E-7 (EL-7) as long as they do so by December 31, 2008.*

- Replaced language in footnote 2 on page 5 with:  
*Schedules E-7 and EL-7 are closed to all new customers.*

### **Protests**

Anyone wishing to protest this filing may do so by letter sent via U.S. mail, by facsimile or electronically, any of which must be received no later than **December 22, 2010**, which is 20 days after the date of this filing. Protests should be mailed to:

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

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

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

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

Jane K. Yura  
Vice President, Regulation and Rates  
Pacific Gas and Electric Company  
77 Beale Street, Mail Code B10B  
P.O. Box 770000  
San Francisco, California 94177

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

### **Effective Date**

PG&E requests that this advice filing become effective on regular notice, **January 1, 2011**, which is 30 calendar days after the date of filing.

**Notice**

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

A handwritten signature in black ink that reads "Jane Yura-OB". The signature is written in a cursive, flowing style.

Vice President, Regulation and Rates

Attachments

cc: Service List for R.10-05-004

**CALIFORNIA PUBLIC UTILITIES COMMISSION**

**ADVICE LETTER FILING SUMMARY  
ENERGY UTILITY**

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

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

Utility type:

☒ ELC

☒ GAS

☐ PLC

☐ HEAT

☐ WATER

Contact Person: Olivia Brown

Phone #: 415.973.9312

E-mail: oxb4@pge.com

**EXPLANATION OF UTILITY TYPE**

ELC = Electric

GAS = Gas ☐

PLC = Pipeline

HEAT = Heat

WATER = Water

(Date Filed/ Received Stamp by CPUC)

Advice Letter (AL) #: 3772-E

**Tier: 2**

Subject of AL: Revisions to Residential Time-of-Use Rate Schedules E-7 and EL-7 in Compliance with Decision 08-06-011

Keywords (choose from CPUC listing): Compliance

AL filing type: ☐ Monthly ☐ Quarterly ☐ Annual ☒ One-Time ☐ Other \_\_\_\_\_

If AL filed in compliance with a Commission order, indicate relevant Decision/Resolution #: D.08-06-011

Does AL replace a withdrawn or rejected AL? If so, identify the prior AL: No

Summarize differences between the AL and the prior withdrawn or rejected AL: N/A

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

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

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

Resolution Required? ☐ Yes ☒ No

Requested effective date: January 1, 2011

No. of tariff sheets: 18

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

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

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

Tariff schedules affected: Electric Preliminary Statement CZ, Electric Schedules E-7 and EL-7, and Sample Form 79-1101

Service affected and changes proposed: N/A

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

**CPUC, Energy Division**

**Tariff Files, Room 4005**

**DMS Branch**

**505 Van Ness Ave., San Francisco, CA 94102**

**jn@cpuc.ca.gov and [mas@cpuc.ca.gov](mailto:mas@cpuc.ca.gov)**

**Pacific Gas and Electric Company**

**Attn: Jane K. Yura, Vice President, Regulation and Rates**

**77 Beale Street, Mail Code B10B**

**P.O. Box 770000**

**San Francisco, CA 94177**

**E-mail: [PGETariffs@pge.com](mailto:PGETariffs@pge.com)**



**ATTACHMENT 1  
Advice 3772-E**

<b>Cal P.U.C. Sheet No.</b>	<b>Title of Sheet</b>	<b>Cancelling Cal P.U.C. Sheet No.</b>
29699-E	ELECTRIC PRELIMINARY STATEMENT PART CZ DISTRIBUTION REVENUE ADJUSTMENT MECHANISM Sheet 3	28715-E
29700-E	ELECTRIC SCHEDULE E-7 RESIDENTIAL TIME-OF-USE SERVICE Sheet 1	27606-E*
29701-E	ELECTRIC SCHEDULE E-7 RESIDENTIAL TIME-OF-USE SERVICE Sheet 2	29352-E
29702-E	ELECTRIC SCHEDULE E-7 RESIDENTIAL TIME-OF-USE SERVICE Sheet 3	29353-E
29703-E	ELECTRIC SCHEDULE E-7 RESIDENTIAL TIME-OF-USE SERVICE Sheet 4	27784-E
29704-E	ELECTRIC SCHEDULE E-7 RESIDENTIAL TIME-OF-USE SERVICE Sheet 5	28743-E
29705-E	ELECTRIC SCHEDULE E-7 RESIDENTIAL TIME-OF-USE SERVICE Sheet 6	29354-E
29706-E	ELECTRIC SCHEDULE EL-7 RESIDENTIAL CARE PROGRAM TIME-OF-USE SERVICE Sheet 1	27593-E
29707-E	ELECTRIC SCHEDULE EL-7 RESIDENTIAL CARE PROGRAM TIME-OF-USE SERVICE Sheet 2	27594-E
29708-E	ELECTRIC SCHEDULE EL-7 RESIDENTIAL CARE PROGRAM TIME-OF-USE SERVICE Sheet 3	29382-E

**ATTACHMENT 1  
Advice 3772-E**

<b>Cal P.U.C. Sheet No.</b>	<b>Title of Sheet</b>	<b>Cancelling Cal P.U.C. Sheet No.</b>
29709-E	ELECTRIC SCHEDULE EL-7 RESIDENTIAL CARE PROGRAM TIME-OF-USE SERVICE Sheet 4	27790-E
29710-E	ELECTRIC SCHEDULE EL-7 RESIDENTIAL CARE PROGRAM TIME-OF-USE SERVICE Sheet 5	29383-E
29711-E	ELECTRIC SCHEDULE EL-7 RESIDENTIAL CARE PROGRAM TIME-OF-USE SERVICE Sheet 6	28791-E
29712-E	Electric Sample Form 79-1101 Application and Interconnection Agreement for Customers with Solar and/or Wind Electric Generating Facilities of 30 kilowatts or Sheet 1	
29713-E	ELECTRIC TABLE OF CONTENTS Sheet 1	29672-E
29714-E	ELECTRIC TABLE OF CONTENTS RATE SCHEDULES Sheet 2	29459-E
29715-E	ELECTRIC TABLE OF CONTENTS PRELIMINARY STATEMENT Sheet 7	28907-E
29716-E	ELECTRIC TABLE OF CONTENTS SAMPLE FORMS Sheet 14	29325-E



## ELECTRIC PRELIMINARY STATEMENT PART CZ DISTRIBUTION REVENUE ADJUSTMENT MECHANISM

Sheet 3

### CZ. DISTRIBUTION REVENUE ADJUSTMENT MECHANISM (DRAM) (Cont'd.)

#### 5. ACCOUNTING PROCEDURES: (Cont'd.)

- q. A debit or credit entry, as appropriate, to record the gain or loss on the sale of an electric distribution non-depreciable asset, as approved by the Commission.
- r. A debit entry equal to the electric portion of incremental administrative costs and amounts written off as uncollectible associated with the payment deferral plan for qualifying citrus and other agricultural growers pursuant to Resolution E-4065, plus an allowance for franchise fees and uncollectibles (FF&U) accounts expense at the rates authorized in PG&E's most recent GRC for the incremental administrative costs.
- s. A debit entry equal to the Schedule E-BIP incentives paid to third party demand response aggregators, net of any penalties paid to PG&E, plus an allowance for Franchise Fees and Uncollectible Accounts expense.
- t. An entry equal to interest on the average balance in the account at the beginning of the month and the balance after the above entries, at a rate equal to one-twelfth of the interest rate on three-month Commercial Paper for the previous month, as reported in the Federal Reserve Statistical Release, H.15 or its successor.

(D)  
(T)

- 6. SHAREHOLDER PARTICIPATION: PG&E's shareholders bear some responsibility for economic risks and rewards associated with, but not limited to, Commission-approved economic discounts and credits to certain PG&E customers. This section ensures that ratepayers will not assume shareholders' obligations.

Shareholder Participation will be calculated monthly as follows:

The amount of the Shareholder Participation Mechanism for Schedule ED, in accordance with Resolution E-3654.

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Note: All debits and credits described above, except for that described in Section 5.t, shall include an allowance for franchise fees and uncollectible accounts expense.



**ELECTRIC SCHEDULE E-7**  
**RESIDENTIAL TIME-OF-USE SERVICE**

Sheet 1

**APPLICABILITY:** This voluntary schedule is applicable to customers for whom Schedule E-1 applies but is closed to all new customers, pursuant to CPUC Decision 06-12-025 and Decision 08-06-011. The provisions of Schedule S—Standby Service Special Conditions 1 through 6 shall also apply to customers whose premises are regularly supplied in part (but not in whole) by electric energy from a nonutility source of supply. These customers will pay monthly reservation charges as specified under Section 1 of Schedule S, in addition to all applicable Schedule E-7 charges. See Special Conditions 10 and 11 of this rate schedule for exemptions to standby charges. (T)  
(T)  
(T) (L) (D)

Customers will be served under one of these rates under Schedule E-7.

Rate W: Applies to customers who were on Rate W as of May 1, 2006.

E-7: Applies to all other customers who are served under Schedule E-7 including all new solar NEM customers who take service on this schedule on or after January 1, 2007.

The meters required for this schedule may become obsolete as a result of electric industry restructuring or any other action by the California Public Utilities Commission. Additionally, time-of-use bill savings may be significantly reduced by the adoption of PG&E's proposals in future rate cases. Therefore, any and all risks of paying the required charges and not receiving commensurate benefits are entirely that of the customer.

Ongoing daily Time-of-Use (TOU) meter charges applicable to customers taking voluntary TOU service under this rate schedule will no longer be applied if the customer has a SmartMeter™ installed.

**TERRITORY:** This rate schedule applies everywhere PG&E provides electric service. (L)

(Continued)



## ELECTRIC SCHEDULE E-7 RESIDENTIAL TIME-OF-USE SERVICE

Sheet 2

**RATES:** Total bundled service charges are calculated using the total rates below. On-peak and off-peak usage is assigned to tiers on a pro-rated basis. For example, if twenty percent of a customer's usage is in the on-peak period, then twenty percent of the total usage in each tier will be treated as on-peak usage and eighty percent of the total usage in each tier will be treated as off-peak usage. Bundled service customers are billed the greater of the total minimum charge or the otherwise applicable total charge derived from total energy rates. (L)

Customers receiving a medical baseline allowance shall pay for all usage in excess of 130 percent of baseline at rates applicable to usage from 131 percent through 200 percent of baseline. No portion of the rates paid by customers that receive a Medical Baseline allowance shall be used to pay the DWR Bond charge. For these customers, generation is calculated residually based on the total rate less the sum of: Transmission, Transmission Rate Adjustments, Reliability Services, Distribution, Public Purpose Programs, Nuclear Decommissioning, Competition Transition Charges (CTC), and Energy Cost Recovery Amount.

Direct Access (DA) and Community Choice Aggregation (CCA) charges shall be calculated in accordance with the paragraph in this rate schedule titled Billing.

### TOTAL RATES

Total Energy Rates (\$ per kWh)	PEAK	OFF-PEAK	
Summer			
Baseline Usage	\$0.30631	\$0.09003	
101% - 130% of Baseline	\$0.30631	\$0.09003	
131% - 200% of Baseline	\$0.46218	\$0.24590	
201% - 300% of Baseline	\$0.57158	\$0.35530	
Over 300% of Baseline	\$0.57158	\$0.35530	
Winter			
Baseline Usage	\$0.11936	\$0.09318	
101% - 130% of Baseline	\$0.11936	\$0.09318	
131% - 200% of Baseline	\$0.27523	\$0.24905	
201% - 300% of Baseline	\$0.38463	\$0.35845	
Over 300% of Baseline	\$0.38463	\$0.35845	
Total Baseline Credit (\$ per kWh of baseline use)	\$0.01679	\$0.01679	
Total Meter Charge Rate (\$ per meter per day)			
E-7	\$0.11532		
Rate W	\$0.03843		
Total Minimum Charge Rate (\$ per meter per day)	\$0.14784		

Total bundled service charges shown on customer's bills are unbundled according to the component rates shown below. Where the minimum charge applies with no usage, generation is calculated residually based on the total minimum charge less the sum of: Distribution, Transmission, Reliability Services, Public Purpose Programs, and Nuclear Decommissioning. Where the minimum charge applies with usage, the generation charge is calculated residually based on the total charge less the sum of: Transmission, Transmission Rate Adjustments, Reliability Services, Distribution, Public Purpose Programs, Nuclear Decommissioning, CTC, Energy Cost Recovery Amount, and DWR Bond. (L)

(Continued)



## ELECTRIC SCHEDULE E-7 RESIDENTIAL TIME-OF-USE SERVICE

Sheet 3

### UNBUNDLING OF TOTAL RATES

Meter Charge Rates: Meter charge rates provided in the Total Rate section above are assigned entirely to the unbundled distribution component. (L)

Energy Rates by Component (\$ per kWh)	PEAK	OFF-PEAK	
<b>Generation:</b>			
Summer			
Baseline Usage	\$0.18037	\$0.03587	
101% - 130% of Baseline	\$0.18037	\$0.03587	
131% - 200% of Baseline	\$0.28451	\$0.14001	
201% - 300% of Baseline	\$0.35760	\$0.21310	
Over 300% of Baseline	\$0.35760	\$0.21310	
Winter			
Baseline Usage	\$0.05546	\$0.03797	
101% - 130% of Baseline	\$0.05546	\$0.03797	
131% - 200% of Baseline	\$0.15960	\$0.14211	
201% - 300% of Baseline	\$0.23270	\$0.21520	
Over 300% of Baseline	\$0.23270	\$0.21520	
<b>Distribution:</b>			
Summer			
Baseline Usage	\$0.08959	\$0.01781	
101% - 130% of Baseline	\$0.08959	\$0.01781	
131% - 200% of Baseline	\$0.14132	\$0.06954	
201% - 300% of Baseline	\$0.17763	\$0.10585	
Over 300% of Baseline	\$0.17763	\$0.10585	
Winter			
Baseline Usage	\$0.02755	\$0.01886	
101% - 130% of Baseline	\$0.02755	\$0.01886	
131% - 200% of Baseline	\$0.07928	\$0.07059	
201% - 300% of Baseline	\$0.11558	\$0.10690	
Over 300% of Baseline	\$0.11558	\$0.10690	
Baseline Credit (\$ per kWh of baseline use)	\$0.01679	\$0.01679	
<b>Transmission* (all usage)</b>	\$0.01158	\$0.01158	
<b>Transmission Rate Adjustments* (all usage)</b>	(\$0.00140)	(\$0.00140)	
<b>Reliability Services* (all usage)</b>	\$0.00069	\$0.00069	
<b>Public Purpose Programs (all usage)</b>	\$0.01224	\$0.01224	
<b>Nuclear Decommissioning (all usage)</b>	\$0.00029	\$0.00029	
<b>Competition Transition Charges (all usage)</b>	\$0.00554	\$0.00554	
<b>Energy Cost Recovery Amount (all usage)</b>	\$0.00226	\$0.00226	
<b>DWR Bond (all usage)</b>	\$0.00515	\$0.00515	
	<b>\$ per meter</b>		
	<b>per day</b>	<b>\$ per kWh</b>	
<b>Minimum Charge Rate by Component</b>	\$0.13398	—	
<b>Distribution</b>	—	\$0.01018	
<b>Transmission*</b>	\$0.00000	—	
<b>Reliability Services*</b>	\$0.00455	—	
<b>Public Purpose Programs</b>	\$0.00011	—	
<b>Nuclear Decommissioning</b>	—	\$0.00554	
<b>Competition Transition Charges</b>	—	\$0.00226	
<b>Energy Cost Recovery Amount</b>	—	\$0.00515	
<b>DWR Bond</b>	—		
<b>Generation**</b>	Determined Residually		

\* Transmission, Transmission Rate Adjustments and Reliability Service charges are combined for presentation on customer bills.

\*\* Total rate less the sum of the individual non-generation components.

(L)

(Continued)

Advice Letter No: 3772-E  
 Decision No. D.08-06-011

Issued by  
**Jane K. Yura**  
 Vice President  
 Regulation and Rates

Date Filed December 2, 2010  
 Effective January 1, 2011  
 Resolution No. \_\_\_\_\_



## ELECTRIC SCHEDULE E-7 RESIDENTIAL TIME-OF-USE SERVICE

Sheet 4

SPECIAL CONDITIONS: 1. BASELINE RATES: PG&E may require the customer to file with it a Declaration of Eligibility for Baseline Quantities for Residential Rates. (L)

2. BASELINE (TIER 1) QUANTITIES: The following quantities of electricity are to be billed at the rates for baseline use (also see Rule 19 for additional allowances for medical needs):

Baseline Territory*	BASELINE QUANTITIES (kWh PER DAY)			
	Code B - Basic Quantities		Code H - All-Electric Quantities	
	Summer	Winter	Summer	Winter
	Tier I	Tier I	Tier I	Tier I
P	16.5	12.9	20.1	35.5
Q	8.3	12.6	11.1	22.9
R	18.1	12.3	23.2	32.6
S	16.5	12.7	20.1	32.0
T	8.3	9.8	11.1	20.2
V	9.6	11.1	16.5	27.5
W	19.4	11.4	27.3	29.2
X	12.1	12.6	12.2	22.9
Y	12.2	13.3	15.0	30.9
Z	8.8	11.6	12.8	31.5

3. TIME PERIODS: PEAK: 12:00 noon to 6:00 p.m. Monday through Friday  
 OFF-PEAK: All other hours

DAYLIGHT SAVING TIME ADJUSTMENT: The time periods shown above will begin and end one hour later for the period between the second Sunday in March and the first Sunday in April, and for the period between the last Sunday in October and the first Sunday in November.

4. ALL-ELECTRIC QUANTITIES (Code H): All-electric quantities are applicable to service to customers with permanently-installed electric heating as the primary heat source. All-electric quantities are also applicable to service to customers of record as of November 15, 1984, to whom the former Code W (Basic plus Water Heating) lifeline allowance was applicable on May 15, 1984, and who thereafter maintain continuous service at the same location under this schedule.

If more than one electric meter services a residential dwelling unit, the all-electric quantities, if applicable, will be allocated only to the primary meter.

(L)

\* The applicable baseline territory is described in Part A of the Preliminary Statement.

(Continued)



## ELECTRIC SCHEDULE E-7 RESIDENTIAL TIME-OF-USE SERVICE

Sheet 5

SPECIAL  
 CONDITIONS:  
 (Cont'd.)

5. SEASONAL CHANGES: The summer season is May 1 through October 31 and the winter season is November 1 through April 30. Bills that include May 1 and November 1 seasonal changeover dates will be calculated by multiplying the applicable daily baseline quantity and rates for each season by the number of days in each season for the billing period. (L)
  
6. ADDITIONAL METERS: If a residential dwelling unit is served by more than one electric meter, the customer must designate which meter is the primary meter and which is (are) the additional meter(s). Only the basic baseline quantities or basic plus medical allowances, if applicable, will be available for the additional meter(s).
  
7. COMMON-AREA ACCOUNTS: Common-area accounts that are separately metered by PG&E have a one-time option of switching to an applicable general service rate schedule by notifying PG&E in writing. Common-area accounts are those accounts that provide electric service to Common Use Areas as defined in Rule 1.  
  
 Accounts that switch to a general service tariff will have one, and possibly two, opportunities to return to a residential rate schedule. Please see Common-Area Accounts Section of General Service Schedules A-1, A-6, A-10, and E-19 for more details.
  
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 Rules 22.1 and 23, 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 Rules 22.1 and 23. These customers shall pay charges for transmission, transmission rate adjustments, reliability services, distribution, nuclear decommissioning, public purpose programs, the applicable Cost Responsibility Surcharge (CRS) pursuant to Schedule DA CRS or Schedule CCA CRS, and short-term commodity prices as set forth in Schedule TBCC.  
  
**Direct Access (DA) and Community Choice Aggregation Service (CCA Service) Customers** purchase energy from their non-utility provider and continue receiving delivery services from PG&E. Bills are equal to the sum of charges for transmission, transmission rate adjustments, reliability services, distribution, public purpose programs, nuclear decommissioning, the franchise fee surcharge, and the applicable CRS. The CRS is equal to the sum of the individual charges set forth below. Exemptions to the CRS, including exemptions for Medical Baseline and continuous DA service, are set forth in Schedules DA CRS and CCA CRS.

(L)

(Continued)





# **ELECTRIC SCHEDULE E-7** **RESIDENTIAL TIME-OF-USE SERVICE**

Sheet 6

SPECIAL  
 CONDITIONS:  
 (Cont'd.)

## 8. BILLING (Cont'd):

(L)

### DA / CCA CRS

Energy Cost Recovery Amount Charge (per kWh)	\$0.00226	R
DWR Bond Charge (per kWh)	\$0.00515	
CTC Charge (per kWh)	\$0.00554	
Power Charge Indifference Adjustment (per kWh)		
Pre-2009 Vintage	(\$0.00550)	
2009 Vintage	\$0.01576	
2010 Vintage	\$0.01576	

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.

10. 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.

11. 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.

(L)



**ELECTRIC SCHEDULE EL-7**  
**RESIDENTIAL CARE PROGRAM TIME-OF-USE SERVICE**

Sheet 1

APPLICABILITY: This voluntary schedule is applicable to customers for whom Schedule E-7 applies but is closed to all new customers, pursuant to CPUC Decision 06-12-025 and Decision 08-06-011. The provisions of Schedule S—Standby Service Special Conditions 1 through 6 shall also apply to customers whose premises are regularly supplied in part (but not in whole) by electric energy from a nonutility source of supply. These customers will pay monthly reservation charges as specified under Section 1 of Schedule S, in addition to all applicable Schedule EL-7 charges. See Special Conditions 10 and 11 of this rate schedule for exemptions to standby charges. (T)  
(T)(L)(D)

Customers will be served under one of these rates under Schedule EL-7.

Rate W: Applies to customers who were on Rate W as of May 1, 2006.

EL-7: Applies to all other customers who are served under Schedule EL-7 including all new solar NEM customers who take service on this schedule on or after January 1, 2007.

The meters required for this schedule may become obsolete as a result of electric industry restructuring or any other action by the California Public Utilities Commission. Additionally, time-of-use bill savings may be significantly reduced by the adoption of PG&E's proposals in future rate cases. Therefore, any and all risks of paying the required charges and not receiving commensurate benefits are entirely that of the customer.

TERRITORY: This rate schedule applies everywhere PG&E provides electric service. (L)

(Continued)



**ELECTRIC SCHEDULE EL-7**  
**RESIDENTIAL CARE PROGRAM TIME-OF-USE SERVICE**

Sheet 2

**RATES:** Total bundled service charges are calculated using the total rates below. On-peak and off-peak usage is assigned to tiers on a pro-rated basis. For example, if twenty percent of a customer's usage is in the on-peak period, then twenty percent of the total usage in each tier will be treated as on-peak usage and eighty percent of the total usage in each tier will be treated as off-peak usage. Bundled service customers are billed the greater of the total minimum charge or the otherwise applicable total charge derived from total energy rates. (L)

Direct Access (DA) and Community Choice Aggregation (CCA) charges shall be calculated in accordance with the paragraph in this rate schedule titled Billing.

**TOTAL RATES**

Total Energy Rates (\$ per kWh)	PEAK	OFF-PEAK	(L)
Summer	\$0.28372	\$0.07664	
Winter	\$0.10472	\$0.07966	
Baseline Credit (\$ per kWh of baseline use)	\$0.01559	\$0.01559	
Total Minimum Charge Rate (\$ per meter per day)	\$0.14784		(L)

(Continued)

Advice Letter No: 3772-E  
Decision No. D.08-06-011

Issued by  
**Jane K. Yura**  
Vice President  
Regulation and Rates

Date Filed	December 2, 2010
Effective	January 1, 2011
Resolution No.	



## ELECTRIC SCHEDULE EL-7 RESIDENTIAL CARE PROGRAM TIME-OF-USE SERVICE

Sheet 3

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

Total bundled service charges shown on customer's bills are unbundled according to the component rates shown below. Where the minimum charge applies with no usage, generation is calculated residually based on the total minimum charge less the sum of: Distribution, Transmission, Reliability Services, Public Purpose Programs, and Nuclear Decommissioning. Where the minimum charge applies with usage, the generation charge is calculated residually based on the total charge less the sum of: Transmission, Transmission Rate Adjustments, Reliability Services, Distribution, Public Purpose Programs, Nuclear Decommissioning, Competition Transition Charges (CTC), and Energy Cost Recovery Amount.

### UNBUNDLING OF TOTAL RATES

Energy Rates by Component (\$ per kWh)	PEAK	OFF-PEAK	
<b>Generation:</b>			
Summer	\$0.26128	\$0.05420	
Winter	\$0.08228	\$0.05722	
<b>Distribution:</b>			
Summer	(\$0.00876)	(\$0.00876)	
Winter	(\$0.00876)	(\$0.00876)	
Baseline Credit (\$ per kWh of baseline use)	\$0.01559	\$0.01559	
<b>Transmission*</b> (all usage)	\$0.01158	\$0.01158	
<b>Transmission Rate Adjustments*</b> (all usage)	(\$0.00140)	(\$0.00140)	R
<b>Reliability Services*</b> (all usage)	\$0.00069	\$0.00069	
<b>Public Purpose Programs</b> (all usage)	\$0.01224	\$0.01224	
<b>Nuclear Decommissioning</b> (all usage)	\$0.00029	\$0.00029	
<b>Competition Transition Charges</b> (all usage)	\$0.00554	\$0.00554	
<b>Energy Cost Recovery Amount</b> (all usage)	\$0.00226	\$0.00226	
	<b>\$ per meter per day</b>	<b>\$ per kWh</b>	
<b>Minimum Charge Rate by Component</b>			
<b>Distribution</b>	\$0.13398	—	
<b>Transmission*</b>	—	\$0.01018	
<b>Reliability Services*</b>	\$0.00000	—	
<b>Public Purpose Programs</b>	\$0.00455	—	
<b>Nuclear Decommissioning</b>	\$0.00011	—	
<b>Competition Transition Charges</b>	—	\$0.00554	
<b>Energy Cost Recovery Amount</b>	—	\$0.00226	
<b>Generation**</b>	Determined Residually		(L)

- \* Transmission, Transmission Rate Adjustments, and Reliability Service charges are combined for presentation on customer bills. (L)
- \*\* Total rate less the sum of the individual non-generation components. (L)

(Continued)



# **ELECTRIC SCHEDULE EL-7** **RESIDENTIAL CARE PROGRAM TIME-OF-USE SERVICE**

Sheet 4

**SPECIAL  
 CONDITIONS:**

1. **BASELINE RATES:** PG&E may require the customer to file with it a Declaration of Eligibility for Baseline Quantities for Residential Rates.
2. **BASELINE (TIER 1) QUANTITIES:** The following quantities of electricity are to be billed at the rates for baseline use (also see Rule 19 for additional allowances for medical needs):

Baseline Territory*	BASELINE QUANTITIES (kWh PER DAY)			
	Code B - Basic Quantities		Code H - All-Electric Quantities	
	Summer	Winter	Summer	Winter
	Tier I	Tier I	Tier I	Tier I
P	16.5	12.9	20.1	35.5
Q	8.3	12.6	11.1	22.9
R	18.1	12.3	23.2	32.6
S	16.5	12.7	20.1	32.0
T	8.3	9.8	11.1	20.2
V	9.6	11.1	16.5	27.5
W	19.4	11.4	27.3	29.2
X	12.1	12.6	12.2	22.9
Y	12.2	13.3	15.0	30.9
Z	8.8	11.6	12.8	31.5

3. **TIME PERIODS:** Peak: 12:00 noon to 6:00 p.m. Monday through Friday  
 Off-Peak: All other hours

**DAYLIGHT SAVING TIME ADJUSTMENT:** The time periods shown above will begin and end one hour later for the period between the second Sunday in March and the first Sunday in April, and for the period between the last Sunday in October and the first Sunday in November.

4. **ALL-ELECTRIC QUANTITIES (Code H):** All-electric quantities are applicable to service to customers with permanently installed electric heating as the primary heat source. All-electric quantities are also applicable to service to customers of record as of November 15, 1984, to whom the former Code W (Basic plus Water Heating) lifeline allowance was applicable on May 15, 1984, and who thereafter maintain continuous service at the same location under this schedule.

If more than one electric meter serves a residential dwelling unit, the all-electric quantities, if applicable, will be allocated only to the primary meter.

5. **SEASONAL CHANGES:** The summer season is May 1 through October 31 and the winter season is November 1 through April 30. Bills that include May 1 and November 1 seasonal changeover dates will be calculated by multiplying the applicable daily baseline quantity and rates for each season by the number of days in each season for the billing period.

\* The applicable baseline territory is described in Part A of the Preliminary Statement.

(Continued)

**ELECTRIC SCHEDULE EL-7**  
RESIDENTIAL CARE PROGRAM TIME-OF-USE SERVICE

Sheet 5

SPECIAL  
CONDITIONS:  
(Cont'd.)

6. **ADDITIONAL METERS:** If a residential dwelling unit is served by more than one electric meter, the customer must designate which meter is the primary meter and which is (are) the additional meter(s). Only the basic baseline quantities or basic plus medical allowances, if applicable, will be available for the additional meter(s).

7. **COMMON-AREA ACCOUNTS:** Common-area accounts that are separately metered by PG&E have a one-time option of switching to an applicable general service rate schedule by notifying PG&E in writing. Common-area accounts are those accounts that provide electric service to Common Use Areas as defined in Rule 1.

Accounts that switch to a general service tariff will have one, and possibly two, opportunities to return to a residential rate schedule. Please see Common-Area Accounts Section of General Service Schedules A-1, A-6, A-10, and E-19 for more details.

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 Rules 22.1 and 23, 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 Rules 22.1 and 23. These customers shall pay charges for transmission, transmission rate adjustments, reliability services, distribution, nuclear decommissioning, public purpose programs, the applicable Cost Responsibility Surcharge (CRS) pursuant to Schedule DA CRS or Schedule CCA CRS, and short-term commodity prices as set forth in Schedule TBCC.

**Direct Access (DA) and Community Choice Aggregation Service (CCA Service) Customers** purchase energy from their non-utility provider and continue receiving delivery services from PG&E. Bills are equal to the sum of charges for transmission, transmission rate adjustments, reliability services, distribution, public purpose programs, nuclear decommissioning, the franchise fee surcharge, and the applicable CRS. The CRS is equal to the sum of the individual charges set forth below. Exemptions to the CRS, including exemptions for Medical Baseline and continuous DA service, are set forth in Schedules DA CRS and CCA CRS.

## DA / CCA CRS

Energy Cost Recovery Amount Charge (per kWh)	\$0.00226
DWR Bond Charge (per kWh)	\$0.00000
CTC Charge (per kWh)	\$0.00554
Power Charge Indifference Adjustment (per kWh)	
Pre-2009 Vintage	(\$0.00550)
2009 Vintage	\$0.01576
2010 Vintage	\$0.01576

(L)

(Continued)

*Advice Letter No:* 3772-E  
*Decision No.* D.08-06-011

*Issued by*  
**Jane K. Yura**  
*Vice President*  
*Regulation and Rates*

Date Filed	December 2, 2010
Effective	January 1, 2011
Resolution No.	

**ELECTRIC SCHEDULE EL-7**  
RESIDENTIAL CARE PROGRAM TIME-OF-USE SERVICE

Sheet 6

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.
10. 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.
11. 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.

(L)

(L)



**Pacific Gas and Electric Company**  
San Francisco, California  
U 39

Revised  
Cancelling Revised

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

29712-E  
27811-E

Sheet 1

**Electric Sample Form 79-1101**  
Application and Interconnection Agreement for Customers with Solar and/or Wind  
Electric Generating Facilities of 30 kilowatts or

**Please Refer to Attached  
Sample Form**

Advice Letter No: 3772-E  
Decision No. D.08-06-011

Issued by  
**Jane K. Yura**  
Vice President  
Regulation and Rates

Date Filed December 2, 2010  
Effective January 1, 2011  
Resolution No. \_\_\_\_\_





Pacific Gas and  
Electric Company®

# Net Energy Metering

## *Application and Interconnection Agreement for Customers with Solar and/or Wind Electric Generating Facilities of 30 Kilowatts or Less<sup>1</sup>*

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

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

Project Identification Number \_\_\_\_\_ (for PG&E's use only)

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

- ☐ I am also applying for a CSI rebate, and understand that I will have to apply for CSI rebates separately.
- ☐ I am also applying for a NSHP rebate, and understand that I will have to apply for the NSHP rebates separately.

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

#### A. Applicability and Purpose:

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

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

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

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

<sup>1</sup> Automated Document, Preliminary Statement, Part A.

- ☐ An interconnected Generating Facility that never exports electricity to PG&E (load always exceeds generation)
- For Customers with a non-exporting Generating Facility, Form 79-974 may be more appropriate. Form 79-974 may be found at [www.pge.com/tariffs/pdf/E79-974.pdf](http://www.pge.com/tariffs/pdf/E79-974.pdf)

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

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

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

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

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

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

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

**Please complete this agreement in its entirety**

PG&E. Contact(s) are also authorized to make changes to rates and metering arrangements which may result in charges to Customer. Should customer wish to select a different authorization period, Customer may utilize the "Authorization to Received Customer Information or Act on a Customer's Behalf", which may be found at: [www.pge.com/includes/docs/pdfs/shared/newgenerator/solarwindgenerators/standardenet/customer\\_behalf\\_app.pdf](http://www.pge.com/includes/docs/pdfs/shared/newgenerator/solarwindgenerators/standardenet/customer_behalf_app.pdf)

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

## **Part II – Requirements for Interconnection**

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

### **Permission to Interconnect**

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

### **Safe Operation of your Generating Facility**

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

### **Interconnections on PG&E's Secondary Network**

Applications to interconnect systems located in San Francisco or Oakland may require additional analysis to determine whether or not their proposed installation is on PG&E's networked secondary system. Networked secondary systems are in place to provide heightened levels of reliability in densely populated areas and may affect the ability of PG&E to interconnect NEM customers. **Please contact Generation Interconnection Services at 415-972-5676 or email [gen@pge.com](mailto:gen@pge.com) if your proposed installation is in San Francisco where the zip code is 94102, 94103, 94104, 94105, 94107, 94108, 94109, 94111 or 94133 or in Oakland and where the zip code is 94607 or 94612.**

### **Meter Access**

Following your bi-directional meter installation, your meter must be installed in a safe PG&E-accessible location and remain unobstructed by locked gates or pets. Additionally, meter access must be maintained at all times for meter reading and system maintenance. Any animals owned by the customer, including pet dogs, should not have access to these areas to avoid hindering PG&E service personnel, preventing them from completing their work. If your self contained meter is being utilized as the AC disconnect switch, the meter must be accessible at all times and can not be located within a residence or garage.

### **Document and Fee Requirements**

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

### **Stale Agreements**

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

### **A. Agreement Package:**

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

## Required Documents for New Applicants:

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

- a. A description and location of the visible, lockable **AC disconnect switch** if present.

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

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

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

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

- Inverter-based interconnections having a transformer-rated meter (i.e. all meter panels or switchboards employing the use of potential and current transformers).
  - Non-inverter based generators, including rotating or machine-based generators - irrespective of whether the service meter configuration is transformer-rated or self-contained.
- b. A description of the specific **inverter(s)** used to control the interconnection between PG&E and the Generating Facility, including rating, brand name, and model number. CEC-certified inverters<sup>1</sup> will pass the requirements for Simplified Interconnection per PG&E's Electric Rule 21. Non-certified units will require further study and may involve additional costs.
  - c. A complete description of the **generating equipment Customer plans to install**. If the Generating Facility includes photovoltaic panels, the description must include the manufacturer name, model number, number of panels, and the nameplate rating. If the Generating Facility includes a wind turbine, the description must include the manufacturer name, model number, number of turbines, and the nameplate rating. Only CEC-certified inverters and certified wind-turbine generators without separate inverters will pass the requirements for Simplified Interconnection. (See the PG&E website [www.pge.com/gen](http://www.pge.com/gen) or the CEC website at: [www.consumerenergycenter.org/erprebate/equipment.html](http://www.consumerenergycenter.org/erprebate/equipment.html))
  - d. A description of how the power output from the inverter is connected to the **main service panel via a branch breaker**. The ampere rating of this branch breaker and the main service panel breaker must be compatible with the output rating of the Generating Facility. The output rating is computed based on the total nameplate rating of the inverter.
  - e. If such metering is required, a complete description of the **performance (generation output) meter and related equipment**. The description must include the meter manufacturer, model number and type (socket or panel), as well as any other relevant information (e.g., socket, panels, breakers, etc.). If instrument transformers are required, the description should include this information.

<sup>1</sup> The CEC's eligible inverter list can be found under the CSI heading at: [www.consumerenergycenter.org/erprebate/equipment.html](http://www.consumerenergycenter.org/erprebate/equipment.html)

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

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

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

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

Insuring Company's Name: \_\_\_\_\_

Insurance Policy # \_\_\_\_\_

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

4. A copy of the **final, signed, jurisdictional approval (building permit) for Customer's Generating Facility** from the local government entity with jurisdiction over the Customer's project. **Customer's agreement package will not be complete until PG&E receives this document.**

## B. Internet Agreement Forms

If this Agreement has been completed electronically, it may be submitted to PG&E via e-mail or U.S. mail. Copies or forms requiring a signature, attachments or any applicable fees described in Part II must be mailed to PG&E at the address noted in Section IV (F), Notices.

## Part III – General Facility and Rate Information

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

### RESIDENTIAL:

- ☐ E-1 – Non-Time-of-Use Residential Service  
☐ E-6 – Residential Time-of-Use Service  
☐ E-7 – Residential Time-of-Use Service<sup>2</sup>  
☐ E-9 – Experimental Residential Time-of-Use for Low Emission Vehicle Customers<sup>3</sup>  
☐ Other Residential rate schedule (\_\_\_\_\_) please enter

### SMALL COMMERCIAL:

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

### Service Voltage Options – (circle one)

Primary

Secondary

- circle A-10 option: Time-of-Use Demand Only

### AGRICULTURAL:

- ☐ AG-1 – Agricultural Power (circle rate option: A B )  
☐ AG-R – Split-Week Time-of-Use Agricultural Power (circle rate option: A B D E )  
☐ AG-V – Short-Peak Time-of-Use Agricultural Power (circle rate option: A B D E )  
☐ AG-4 – Time-of-Use Agricultural Power (circle rate option: A B C D E F )

<sup>2</sup> E-7 and EL-7 are closed to all new customers.

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

**Please complete this agreement in its entirety**

- ☐ AG-5 - Large Time-of-Use Agricultural Power (circle rate option: A B C D E F )  
☐ Other (\_\_\_\_\_)

Historical electrical rate information may be found at: [www.pge.com/notes/rates/tariffs/rateinfo.shtml](http://www.pge.com/notes/rates/tariffs/rateinfo.shtml), and current electric rate schedules may be found at: [www.pge.com/tariffs/ERS.SHTML#ERS](http://www.pge.com/tariffs/ERS.SHTML#ERS).

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

Customers will be billed and will be expected to pay monthly for the non-energy charges (i.e., non-per-kilowatt-hour charges) that are due under Customer's OAS. In addition, Customer may (at his/her option) pay any amount for energy charges monthly, with the understanding that any and all payments will be reconciled at the completion of the true-up period. At the end of every twelve (12) billing cycles, or other reconciliation period as provided in Schedule NEM, Customer's charges will be totaled including: (1) any unpaid monthly non-energy charges, (2) the charge for any net-energy consumption as defined in rate Schedule NEM. Customer's total payments for the twelve (12) billing cycles or other reconciliation period as provided in Schedule NEM will then be subtracted from the total charges. Customer will then be billed for any balance due. In addition, PG&E Electric Rules and Rates, including but not limited to Electric Rules 2, 14, 15, 16, and 21, Schedule NEM, and Customer's OAS may apply.

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

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

- ☐ Yes **If yes:** (a) who is the developer? \_\_\_\_\_  
(b) tract number? \_\_\_\_\_  
(c) name of the development? \_\_\_\_\_  
(d) please attach a list of lots/addresses included with this application
- ☐ No

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

- ☐ Yes  
**If yes,** will the vehicle recharging facility be separately metered from the residence?  
☐ Yes (PV will serve: residence or recharging facility - circle one)  
☐ No (PV will serve both residence and recharging facility)
- ☐ No

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

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

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

- ☐ Yes  
**If yes,** specify what kind of generator \_\_\_\_\_
- ☐ No

**F. Are there any possible meter access issues?**

- ☐ Yes **If yes,** check all that apply:

<input type="checkbox"/> Locked Gate	<input type="checkbox"/> Meter located inside of facility/residence
<input type="checkbox"/> Unrestrained animal at meter or AC disconnect switch location	<input type="checkbox"/> Other (Please explain) _____

- ☐ No

**G. Are you on a Demand Response program?**

- ☐ Yes  
**If yes,** what program are you on? \_\_\_\_\_
- ☐ No.  
(for more information on PG&E's demand response programs see: [www.pge.com/demandresponse](http://www.pge.com/demandresponse) )

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

**Please complete this agreement in its entirety**

**A. AC Disconnect Switch** (see Part II , Section A.2.a above for policy on disconnect switches)

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

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

**B. Inverters interconnected with PG&E**

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

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

No.	Inverter Manufacturer	Inverter Model Number	Inverter Nameplate Rating <sup>4</sup> kW (per unit)	Inverter CEC Rating kW (per unit)	Quantity of Inverters	Inverter Output Voltage	Single or Three phase?
1							
2							

**C. Photovoltaic Generator Equipment**

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

No.	PV Panel Manufacturer	PV Panel Model	PV Panel Nameplate Rating <sup>5</sup> kW (per unit)	PV Panel CEC Rating kW (per unit)	Quantity of PV Panels	Total Capacity <sup>6</sup> (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 Nameplate Rating <sup>6</sup> kW (per unit)	Wind Turbine CEC Rating (kW) per unit	Quantity of Wind Turbines	Total Capacity (kW) <sup>7</sup>	Turbine Output Voltage	Single or Three Phase	Inverter number from (B) above (1 or 2)
1									

**E. Service Panel Short Circuit Interrupting Rating**

For systems larger than 10 kW, what is the short circuit interrupting rating (SCIR) rating of the service panel connected to this generating facility? \_\_\_\_\_

<sup>4</sup> The inverter rating equals the nameplate rating, in kW. If there are more than one inverter of one type being installed, the inverter rating equals the nameplate rating of one unit of the model being installed.

<sup>6</sup> For all generation equipment ratings, please use the nameplate rating found on the equipment or in the equipment specifications.

<sup>6</sup> The total capacity is the pv panel (or wind turbine) rating times the quantity.

**Please complete this agreement in its entirety**

**F. Notices - Mailing Instructions and Assistance:**

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

<b>PG&amp;E'S P.O. BOX ADDRESS</b>	<b>PG&amp;E'S STREET ADDRESS</b>
Pacific Gas and Electric Company Attention: Generation Interconnection Services Mail Code N7L P.O. Box 770000 San Francisco, California <b>94177</b>	Pacific Gas and Electric Company Attention: Generation Interconnection Services Mail Code N7L 245 Market St. San Francisco, California <b>94105</b>

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

**G. 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.

**H. Term Of Agreement**

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

**I. Governing Authority**

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

Customer Name (Please Print): \_\_\_\_\_

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

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

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





**Pacific Gas and Electric Company**  
San Francisco, California  
U 39

Revised  
Cancelling Revised

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

29713-E  
29672-E

## ELECTRIC TABLE OF CONTENTS

Sheet 1

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Advice Letter No: 3772-E  
Decision No. D.08-06-011

Issued by  
**Jane K. Yura**  
Vice President  
Regulation and Rates

Date Filed December 2, 2010  
Effective January 1, 2011  
Resolution No. \_\_\_\_\_



## ELECTRIC TABLE OF CONTENTS RATE SCHEDULES

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 Vice President  
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**PRELIMINARY STATEMENT**

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

Alcantar & Kahl LLP	Dept of General Services	North Coast SolarResources
Ameresco	Division of Business Advisory Services	Northern California Power Association
Anderson & Poole	Douglass & Liddell	Occidental Energy Marketing, Inc.
Arizona Public Service Company	Downey & Brand	OnGrid Solar
BART	Duke Energy	Praxair
Barkovich & Yap, Inc.	Dutcher, John	R. W. Beck & Associates
Bartle Wells Associates	Economic Sciences Corporation	RCS, Inc.
Bloomberg	Ellison Schneider & Harris LLP	Recurrent Energy
Bloomberg New Energy Finance	Foster Farms	SCD Energy Solutions
Boston Properties	G. A. Krause & Assoc.	SCE
Braun Blaising McLaughlin, P.C.	GLJ Publications	SMUD
	Goodin, MacBride, Squeri, Schlotz & Ritchie	SPURR
Brookfield Renewable Power	Green Power Institute	San Francisco Public Utilities Commission
CA Bldg Industry Association	Hanna & Morton	Santa Fe Jets
CLECA Law Office	Hitachi	Seattle City Light
CSC Energy Services	In House Energy	Sempra Utilities
California Cotton Ginners & Growers Assn	International Power Technology	Sierra Pacific Power Company
California Energy Commission	Intestate Gas Services, Inc.	Silicon Valley Power
California League of Food Processors	Lawrence Berkeley National Lab	Silo Energy LLC
California Public Utilities Commission	Los Angeles Dept of Water & Power	Southern California Edison Company
Calpine	Luce, Forward, Hamilton & Scripps LLP	Spark Energy, L.P.
Cardinal Cogen	MAC Lighting Consulting	Sunshine Design
Casner, Steve	MBMC, Inc.	Sutherland, Asbill & Brennan
Chris, King	MRW & Associates	Tabors Caramanis & Associates
City of Palo Alto	Manatt Phelps Phillips	Tecogen, Inc.
City of Palo Alto Utilities	McKenzie & Associates	Tiger Natural Gas, Inc.
Clean Energy Fuels	Merced Irrigation District	TransCanada
Coast Economic Consulting	Modesto Irrigation District	Turlock Irrigation District
Commercial Energy	Morgan Stanley	United Cogen
Consumer Federation of California	Morrison & Foerster	Utility Cost Management
Crossborder Energy	NLine Energy, Inc.	Utility Specialists
Davis Wright Tremaine LLP	NRG West	Verizon
Day Carter Murphy	Navigant Consulting	Wellhead Electric Company
Defense Energy Support Center	Norris & Wong Associates	Western Manufactured Housing Communities Association (WMA)
		eMeter Corporation
Department of Water Resources	North America Power Partners	