

March 4, 2014

**Advice 4369-E**

(Pacific Gas and Electric Company ID U 39 E)

Public Utilities Commission of the State of California

**Subject: Modification of Schedule NEM Interconnection Forms****Purpose**

Pacific Gas and Electric Company (PG&E) hereby seeks approval to make minor modifications to its Schedule NEM Forms 79-1151A, 79-1151B and 79-1153.

**Background**

In order to further streamline PG&E's schedule NEM interconnection processes for net energy metering customers installing solar and wind generating facilities of 30 kW or less, PG&E makes minor changes to three of its forms:

- Sample Form 79-1151A – *AGREEMENT AND CUSTOMER AUTHORIZATION Net Energy Metering Interconnection For Solar And/Or Wind Electric Generating Facilities Of 30 Kilowatts Or Less.*
- Sample Form 79-1151B – *APPLICATION Net Energy Metering Interconnection For Solar And/Or Wind Electric Generating Facilities Of 30 Kilowatts Or Less.*
- Sample Form 79-1153 -- *NEM Load Aggregation Appendix*

These changes update the forms created last year in AL 4263-E and earlier this year in AL 4305-E-A. The changes reflect recent changes to related programs, and further clarify the completion of the forms to facilitate their automation for online use.

**Form Changes****1. Agreement and Customer Authorization – 79-1151A**

- Added to the top that the CCSF owned generating facilities applying for NEMCCSF are not eligible for NEM.
- Added the individual vs. company check boxes to Part I, Section A.
- Added a check box to Part I, Section A, clarifying the instructions for NEMA Load Aggregation projects and referencing Form 79-1153.

- Added descriptor to “Account Holder Name” in Part I, Section A. It now reads “Account Holder Name\* (Individual or Company)”.
- Made a minor change to Part I, Section A, to match the language on the bill – the field now reads “Electric Service Agreement ID” instead of “Electric Service ID Number.”
- Part II, Section B – added instructional text on how to fill out section B.
- Part III, Section A – added rate options E-9A and E-9B to footnote 6 and also adding two new PEV rates of EV-A and EV-B. EV-A and EV-B will also have a footnote indicating that it became effective for customers applying for PEV rates as of 8/1/2013.
- Added AG-5 rate as an option to Part III, Section A.
- Streamlined signature area so there is one less line.
- Removed from footnote 6 on Page 2 the EL-7 Care rate to be consistent with not showing the other low income rates.

## **2. Application – 79-1151B**

- Added the individual vs. company check boxes to Part I, Section A.
- Added descriptor to “Account Holder Name” in Part I, Section A. It now reads “Account Holder Name\* (Individual or Company)”.
- Made a minor change to Part I, Section B, to match the language on the bill – the field now reads “Electric Service Agreement ID” instead of “Electric Service ID Number.”
- Added to Part II, Section B, reference to the gosolarcalifornia.com website on equipment information.
- Added to Part II, Section D measurement for “Distance from Meter” it now indicates that this is in feet.
- Added a note to Part II, Section D to provide details on Greenbook requirements for AC Disconnect Switch.
- Removed the link to the wind turbine equipment. The webpage is no longer available via the CEC website.

## **3. NEMA – 79-1153**

- Removed reference to NEM Form 79-1101 and replaced it with Form 79-1151A. Form 79-1101 was replaced by Forms 79-1151A and 79-1151B.

**Protests**

Anyone wishing to protest this filing may do so by letter sent via U.S. mail, by facsimile or electronically, any of which must be received no later than March 24, 2014, which is 20 days after the date of this filing. Protests should be mailed to:

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

Facsimile: (415) 703-2200  
E-mail: EDTariffUnit@cpuc.ca.gov

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

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

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

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

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

**Effective Date**

PG&E requests that this Tier 1 advice filing become effective upon date of filing, which is **March 4, 2014**.

**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 Rulemaking (R.) 12-11-005. Address changes to the General Order 96-B service list should be directed to PG&E at email address PGETariffs@pge.com. For changes to any other service list, please contact the Commission's Process Office at (415) 703-2021 or at Process\_Office@cpuc.ca.gov. Send all electronic approvals to PGETariffs@pge.com. Advice letter filings can also be accessed electronically at: <http://www.pge.com/tariffs>



Vice President, Regulatory Relations

Attachments

cc: Service List R.12-11-005

# CALIFORNIA PUBLIC UTILITIES COMMISSION

## ADVICE LETTER FILING SUMMARY ENERGY UTILITY

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

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

Utility type:

ELC       GAS  
 PLC       HEAT       WATER

Contact Person: Kingsley Cheng

Phone #: (415) 973-5265

E-mail: k2c0@pge.com and PGETariffs@pge.com

EXPLANATION OF UTILITY TYPE

ELC = Electric      GAS = Gas  
 PLC = Pipeline      HEAT = Heat      WATER = Water

(Date Filed/ Received Stamp by CPUC)

Advice Letter (AL) #: **4369-E**

**Tier: 1**

Subject of AL: **Modification of Schedule NEM Interconnection Forms**

Keywords (choose from CPUC listing): Agreements, Forms, Text Changes

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

If AL filed in compliance with a Commission order, indicate relevant Decision/Resolution #: N/A

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

Summarize differences between the AL and the prior withdrawn or rejected AL: \_\_\_\_\_

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

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

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

Resolution Required?  Yes  No

Requested effective date: **March 4, 2014**

No. of tariff sheets: **5**

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

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

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

Tariff schedules affected: Electric Sample Forms 79-1151A, 79-1151B and 79-1153

Service affected and changes proposed: N/A

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

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

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

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

**ATTACHMENT 1  
Advice 4369-E**

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

**Title of Sheet**

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

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33650-E	ELECTRIC SAMPLE FORM 79-1151A AGREEMENT AND CUSTOMER AUTHORIZATION Net Energy Metering Interconnection For Solar And/Or Wind Electric Generating Facilities Of 30 Kilowatts Or Less Sheet 1	32770-E
33651-E	ELECTRIC SAMPLE FORM 79-1151B APPLICATION Net Energy Metering Interconnection For Solar And/Or Wind Electric Generating Facilities Of 30 Kilowatts Or Less Sheet 1	32771-E
33652-E	ELECTRIC SAMPLE FORM 79-1153 NEM LOAD AGGREGATION APPENDIX Sheet 1	33482-E
33653-E	ELECTRIC TABLE OF CONTENTS Sheet 1	33641-E
33654-E	ELECTRIC TABLE OF CONTENTS SAMPLE FORMS Sheet 28	33485-E



Sheet 1

**ELECTRIC SAMPLE FORM 79-1151A**  
**AGREEMENT AND CUSTOMER AUTHORIZATION**  
 Net Energy Metering Interconnection For Solar And/Or Wind Electric Generating  
 Facilities Of 30 Kilowatts Or Less

Please Refer to Attached  
 Sample Form

Advice Letter No: 4369-E  
 Decision No.

Issued by  
**Brian K. Cherry**  
 Vice President  
 Regulatory Relations

Date Filed March 4, 2014  
 Effective \_\_\_\_\_  
 Resolution No. \_\_\_\_\_



# AGREEMENT AND CUSTOMER AUTHORIZATION

## Net Energy Metering Interconnection For Solar And/Or Wind Electric Generating Facilities Of 30 Kilowatts Or Less

Customers may not operate their Generating Facility while interconnected to the PG&E system until they receive written permission from PG&E.

City and County of San Francisco ("CCSF") owned generating facilities seeking Schedule NEMCCSF and participants in the Demand Response Programs below are not eligible to participate in NEM

- o Peak Day Pricing (PDP)
- o Scheduled Load Reduction Program (SLRP)
- o SmartRate

**Part I – Generating Facility Information and Responsible Parties**

**A. Customer and Generating Facility Information** (\*as it appears on the PG&E bill):

Please check this box if you intend to participate in NEM aggregation and agree to fill out Parts I, III separate NEM Load Aggregation Appendix ( Form 79 - 1153 )

Please check the applicable box:  Individual  Company

Account Holder Name* (Individual or Company)	Electric Service Agreement ID *	Meter Number*
Generating Facility Street Address*	City*	State      Zip*
Customer Phone Number	Email (if blank, Permission to Operate (PTO) letter will be mailed to mailing address on record)	

**B. Meter Access Issues** (if applicable, check all that apply and provide contact information to request access):

Meter in building or behind locked gate       Unrestrained animal at meter or AC Disconnect Switch       Other: \_\_\_\_\_

Contact Name to Request Access (if access issues exist)	Contact Phone
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**C. Energy Service Provider (ESP)** Customers, who have an ESP other than PG&E, must contact their ESP directly regarding the ESP's NEM program. (If applicable, check one):

Interconnection under Direct Access (DA)       Interconnection under Community Choice Aggregation (CCA)

**D. Application Contact Information** (required if Customer is authorizing a third party to act on Customer's behalf):

Company Name	Contact Person
Contact Phone Number	Email

**By checking this box and signing this Agreement, I (Customer) authorize PG&E to release my PG&E Electric Account information to the Company above limited to kilowatt hour (kWh) usage, operational characteristics, and other information related to my Generating Facility application. Company is also authorized to submit Application Form 79-1151B and act on my behalf with regard to the interconnection and receive copies of this executed Interconnection Agreement and the Permission to Operate Letter when issued.**

**By checking this box, I (Customer) voluntarily agree to provide PG&E the System Cost Paid by Customer (optional, not required.) I understand this information may also be provided to the CPUC and other third parties. \$ \_\_\_\_\_**

**Part II – NEM Generator System Size**

**A. Interconnection Study and Requirements**

This Agreement covers the installed Generating Facility nameplate listed in the accompanying Application Form 79-1151B.

The interconnection study will use the nameplate to determine if Interconnection Facilities or Distribution or Network Upgrades are required and the responsible party for the associated costs. If upgrades are required, this will increase the time it will take for PG&E to approve your interconnection. PG&E will confirm the nameplate covered by this Agreement in the Permission to Operate Letter.

In order for PG&E to approve your system, you will need to provide (1) this signed Agreement, (2) Application Form 79-1151B, and (3) a copy of the final signed jurisdiction approval (building permit) for your project.





# AGREEMENT AND CUSTOMER AUTHORIZATION

## Net Energy Metering Interconnection

### For Solar And/Or Wind Electric Generating Facilities Of 30 Kilowatts Or Less

**Part II – NEM Generator System Size – Continued**

NEM systems should be sized with an estimated annual production no larger than 110% of the Customer's total previous 12 months of usage (annual usage) and projected future increase. Customers can obtain their usage data from [www.pge.com/greenbutton](http://www.pge.com/greenbutton). System sizing eligibility will be reviewed using the criteria below.

**B. Solar Generator System Sizing:** The CEC-AC kW on the Application cannot exceed the CEC-AC kW listed below.

- Solar Systems  $\leq$  5 kW (CEC-AC<sup>1</sup> kW) do not require review. Please only list your CEC-AC rating below in (1) and skip the rest of Section B.
- Solar Systems > 5 kW (CEC-AC kW), size is determined as below. Please fill out all of Section B.

**Estimated Annual Production:** (1) CEC-AC rating \_\_\_\_\_ (kW) X 1,664<sup>2</sup> = \_\_\_\_\_

**Estimated Annual Energy Usage:** (2) Recent annual usage \_\_\_\_\_ (kWh) X 1.1 = \_\_\_\_\_

OR (If 12 months usage not available) (3) Building size \_\_\_\_\_ (sq ft) X 3.32<sup>3</sup> = \_\_\_\_\_

AND (4) I plan to increase my annual usage (kWh) by \_\_\_\_\_

(5) Total Energy Usage (2 or 3) + (4) = \_\_\_\_\_

**Net Generation (Production – Usage):** (1) – (5) = \_\_\_\_\_ \*

\*Positive number indicates that the system is estimated to generate more than the estimated usage

**C. Wind Generator System Sizing:** The nameplate on the Application cannot exceed the nameplate listed below.

- All Wind Turbines, size is determined as below.

**Estimated Annual Production:** (1) Nameplate rating \_\_\_\_\_ (kW) X 2,190<sup>4</sup> = \_\_\_\_\_

**Estimated Annual Energy Usage:** (2) Recent annual usage \_\_\_\_\_ (kWh) X 1.1 = \_\_\_\_\_

OR (If 12 months usage not available) (3) Building size \_\_\_\_\_ (sq ft) X 3.32<sup>5</sup> = \_\_\_\_\_

AND (4) I plan to increase my annual usage (kWh) by \_\_\_\_\_

(5) Total Energy Usage (2 or 3) + (4) = \_\_\_\_\_

**Net Generation (Production – Usage):** (1) – (5) = \_\_\_\_\_ \*

\*Positive number indicates that the system is estimated to generate more than the estimated usage

**Part III – Rate Selection**

**A. Otherwise Applicable Rate Schedule (OAS) for NEM Account:** Select one rate from the category applicable to you. Visit [www.pge.com/rateoptions](http://www.pge.com/rateoptions) or call (800)-PGE-5000 for rate information.

**Residential Service Rate (Select one):**

- E-1 – Non-Time-of-Use
- E-6 – Time-of-Use
- E-7<sup>6</sup> – Time-of-Use
- E-8<sup>6</sup> – Non-Time-of-Use
- E-9A<sup>6</sup> – Time-of-Use for Customers with a single meter for Electric Vehicle (EV) recharging station and home
- E-9B<sup>6</sup> – Time-of-Use for Customers with a separately metered EV recharging station
- EV-A<sup>7</sup> – Time-of-Use for Customers with a single meter for Electric Vehicle (EV) recharging station and home
- EV-B<sup>7</sup> – Time-of-Use for Customers with a separately metered EV recharging station
- Other (\_\_\_\_\_)

<sup>1</sup> CEC-AC (kW) = California Energy Commission Alternating Current, refers to inverter efficiency rating (Quantity of PV Modules x PTC Rating of PV Modules x CEC Inverter Efficiency Rating)/1000

<sup>2</sup> 8,760 hrs/yr X 0.19 solar capacity factor = 1,664

<sup>3</sup> 2 watts/sq ft X 1/1,000 watts X 8,760 hrs/yr X 0.19 solar capacity factor = 3.32

<sup>4</sup> 8,760 hrs/yr X 0.25 wind capacity factor = 2,190

<sup>5</sup> 1.52 watts/sq ft X 1/1,000 watts X 8,760 hrs/yr X 0.25 wind capacity factor = 3.32

<sup>6</sup> E-7, E-8, E-9A, E-9B, AG-R, and AG-V are closed to all new customers and are only available to Customers that are currently on the rate.

<sup>7</sup> Rates effective August 1, 2013 for Customers with Electric Vehicle recharging stations. [www.pge.com/electricvehicles/rates](http://www.pge.com/electricvehicles/rates)



# AGREEMENT AND CUSTOMER AUTHORIZATION

## Net Energy Metering Interconnection

### For Solar And/OR Wind Electric Generating Facilities

### Of 30 Kilowatts Or Less

#### Part III – Rate Selection - Continued

**Small and Medium Commercial Service Rate** (Select one rate and primary or secondary service voltage):

	<u>Primary</u>	<u>Secondary</u>
<input type="checkbox"/> A-1 – Small General Service	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> A-6 – Small General Time-of-Use Service	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> A-10 – Medium General Demand-Metered Service	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> A-10 – Medium General Time-of-use Service	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Other (_____)	<input type="checkbox"/>	<input type="checkbox"/>

**Agricultural Power Service Rate:** (Select one rate and rate option):

	<u>A</u>	<u>B</u>	<u>C</u>	<u>D</u>	<u>E</u>	<u>F</u>
<input type="checkbox"/> AG-1	<input type="checkbox"/>	<input type="checkbox"/>				
<input type="checkbox"/> AG-R <sup>6</sup> – Split-Week Time-of-Use	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/> AG-V <sup>6</sup> – Short-Peak Time-of-Use	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/> AG - 4 – Time of Use	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> AG-5 – Time of Use	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Other (_____)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

#### Part IV – Interconnection Agreement Provisions

**A. Purpose**

The purpose of this Net Energy Metering (NEM) Application and Interconnection Agreement for Solar and/or Wind Electric Generating Facilities of 30 Kilowatts or Less (Agreement) is to allow Customer to interconnect with Pacific Gas and Electric Company's (PG&E) Distribution System, subject to the provisions of this Agreement and PG&E's Electric Schedule Net Energy Metering (NEM). Customer has elected to interconnect and operate its solar and/or wind electric Generating Facility in parallel with PG&E's Distribution System 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 requirements of the California Public Utilities Commission (CPUC).

**B. Applicability**

This Agreement applies to Electric Schedule NEM 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 or less that is located on Customer's premises and that operates in parallel with PG&E's Distribution System.

**C. Permission to Operate**

Customer may not operate their generator while interconnected to the PG&E system until receiving written permission 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. Safety**

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, PG&E's Electric Rule 21, and other rules approved by the CPUC 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.

**E. Safe Operation of your Generating Facility**

Notwithstanding any other provision of this Agreement, if at any time PG&E determines that the Customer's Facility, or its operation, may endanger (a) the public, (b) PG&E personnel, or (c) 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.



# AGREEMENT AND CUSTOMER AUTHORIZATION

## Net Energy Metering Interconnection

### For Solar And/Or Wind Electric Generating Facilities

### Of 30 Kilowatts Or Less

#### Part IV – Interconnection Agreement Provisions – Continued

##### **F. AC Disconnect Switch**

PG&E recommends that a customer 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.). If an AC Disconnect Switch is not installed, the revenue meter may be temporarily removed by PG&E due to an emergency or maintenance on PG&E's system to isolate the Customer's generator from the electric distribution system. Removal of the revenue meter will result in loss of electrical service to the Customer's facility or residence. AC Disconnect Switch requirements are available in PG&E's Greenbook [www.pge.com/greenbook](http://www.pge.com/greenbook).

##### **G. Rate**

Customer has confirmed their otherwise applicable rate schedule (OAS), establishing how Customer's monthly usage or net generation will be charged/credited when submitting this Agreement. Further Customer-initiated rate changes are governed in accordance with PG&E's Electric Rule 12.

##### **H. NEM Billing**

PG&E installs a "net meter" on a customer's property that measures the net energy, defined as the difference between the amount of electricity supplied by PG&E and the amount of electricity exported to the grid over the course of a month. The Customer's account is enrolled in the NEM program and put on an annual (12- billing months) true-up cycle.

The meter is read monthly and an amount is calculated based on the net energy recorded in kilowatt hours (kWh). If a customer exported more electricity than they drew from PG&E in a given billing cycle, the amount is deemed a surplus. If a customer received more electricity from PG&E than they exported, the amount is deemed a charge. The rate at which the charge or surplus is calculated is based on the customer's OAS which is requested by the Customer in this Agreement.

After 12 billing cycles, the corresponding charges and surpluses are reconciled in the annual true-up bill. Any remaining charges must be paid and any excess surpluses are typically zeroed out. More information about NEM billing is available at [www.pge.com/nembilling](http://www.pge.com/nembilling).

##### **I. Net Surplus Compensation (NSC)**

NSC payments are made to NEM customers who produce more electricity than they use during the Relevant Period. The payment rate is based on a rolling 12-month average of spot market prices and may fluctuate on a monthly basis. The historical range of the NSC rate at the time of this Advice Filing is approximately \$0.03 to \$0.04. A history of NSC rates is available at [www.pge.com/nembilling](http://www.pge.com/nembilling). If a customer would like to opt out from receiving this payment, please visit [www.pge.com/nscoptout](http://www.pge.com/nscoptout) to complete Form 79-1130.

##### **J. Limitation of Liability**

PG&E's and Customer's (Individually Party or together Parties) 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.

##### **K. 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.

##### **L. Governing Authority**

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

##### **M. 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.



# AGREEMENT AND CUSTOMER AUTHORIZATION Net Energy Metering Interconnection For Solar And/Or Wind Electric Generating Facilities Of 30 Kilowatts Or Less

**Part IV – Interconnection Agreement Provisions – Continued**

**N. Meter Access**

The electric meter must be installed in a safe location easily accessible upon PG&E request.

**O. Stale Agreements**

If this agreement is still pending one year from the date it is received by PG&E and Customer has not met all of the requirements, PG&E will close this application and Customer will be required to submit a new Agreement and Application should Customer wish to take service on Schedule NEM.

**By signing below, I declare under penalty of perjury under the laws of the State of California that:**

- 1) The information provided in this Agreement is true and correct.
- 2) By completing the fields and checking the box in Part I Section D, I authorize the identified third party (Company) to receive my information and act on my behalf, which includes submitting or revising my interconnection Application.
- 3) I have completed and reviewed Part II to determine if my system is sized to meet no more than my projected energy usage.
- 4) I have read in its entirety and agree to all the terms and conditions in this Interconnection Agreement and agree to comply with PG&E's Electric Rule 21.

\_\_\_\_\_  
(Print Customer Name as it appears on the PG&E Bill)

\_\_\_\_\_  
(Signature)

\_\_\_\_\_  
(Print name and title of signee, applicable if customer is a Company)  
(e.g. John Doe, Manager)

\_\_\_\_\_  
(Date)

Note: PG&E will accept electronic signatures that are verified by qualified Third Parties such as, Adobe EchoSign, e-SignLive, and DocuSign for this Agreement.

To confirm project approval, the Customer should retain a copy of this signed agreement and a copy of the Permission to Operate (PTO) letter from PG&E authorizing the Customer to operate the Generating Facility after PG&E deems satisfactory compliance with all NEM requirements.



**ELECTRIC SAMPLE FORM 79-1151B**  
**APPLICATION**

Sheet 1

Net Energy Metering Interconnection For Solar And/Or Wind Electric Generating  
Facilities Of 30 Kilowatts Or Less

Please Refer to Attached  
Sample Form

Advice Letter No: 4369-E  
Decision No.

Issued by  
**Brian K. Cherry**  
Vice President  
Regulatory Relations

Date Filed March 4, 2014  
Effective \_\_\_\_\_  
Resolution No. \_\_\_\_\_

1D5



# APPLICATION

## Net Energy Metering Interconnection For Solar And/Or Wind Electric Generating Facilities Of 30 Kilowatts Or Less

Customers may not operate their Generating Facility while interconnected to the PG&E system until they receive written permission from PG&E.

For a non-exporting Generating Facility, RES-BCT facility, or NEM Generating technologies other than 30 kW or less solar or wind, Customers must submit the online Form 79-974 available at [www.pge.com/gen](http://www.pge.com/gen).

### Part I – Generating Facility Information and Responsible Parties

#### A. Date of signature on accompanying Interconnection Agreement and Customer Authorization Form 79-1151A

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

#### B. Customer and Generating Facility Information (\*as it appears on the PG&E bill):

Please check the applicable box:  Individual  Company

Account Holder Name* (Individual or Company)	Electric Service Agreement ID*	Meter Number*
Generating Facility Street Address*	City*	State <u>CA</u> Zip*

The project is completed and the final, signed, jurisdiction approval (building permit) is attached.

#### C. Interconnection Application Type (check one):

- New NEM Generating Facility interconnection at an existing PG&E service.
- Modify existing PG&E approved Generating Facility interconnection (adding/removing/replacing equipment).
  - Must provide a Custom Single-Line Drawing (SLD) showing the original system and the modified system.
- New interconnection in combination 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.
  - If this account will be established in a new subdivision, attach a list of lots/addresses and provide the following:

Developer Name

Development Name

#### D. System Owner (check one):

- PG&E Customer owned  Third Party ownership

List the third party's name if they own the renewable energy credits (RECs):

#### E. Contractor Information (List who is installing the system. Write "Self-Installed" if installed by Customer):

Company Name

California Contractors State License Number

#### F. Preparer of this Application (if not the PG&E Customer, the Preparer must be authorized to act on behalf of the Customer on the Interconnection Agreement and Customer Authorization Form 79-1151A):

Company Name

Preparer Name

Date Prepared



# APPLIC\* TION

## Net Energy Metering Interconnection For Solar And/Or Wind Electric Generating Facilities Of 30 Kilowatts Or Less

### Part II – Description of the Generating Facilities

- A. Variances from Distribution Interconnection Handbook (DIH) and Greenbook Requirements** (check one):  
 Generating Facilities must meet the DIH and Greenbook requirements, available at [www.pge.com/dih](http://www.pge.com/dih) and [www.pge.com/greenbook](http://www.pge.com/greenbook). A Variance Request must be submitted with the application for deviations, i.e. line-side tap, AC Disconnect > 10 ft from PG&E meter. (See Part III Section B for information on submitting Variance Request)
- The project meets the DIH and Greenbook Requirements and does not require a Variance Request.
- The project deviates from the DIH and Greenbook Requirements and I will include a Variance Request.

Note: Customers with **Non-certified inverters** or whose aggregate Generating Facility capacity exceeds 15% of the peak load on the distribution line section (or do not meet other Initial Review screens as described in Electric Rule 21) require a Supplemental Review which may result in further study, additional equipment, and/or other requirements. Customers will be notified if a Supplemental Review is required.

- B. Photovoltaic (PV) Generating Facility Information** (use additional sheets if installing more than 2 inverter manufacturers or model numbers).  
 To avoid application processing delays, the manufacturer and model numbers provided should be the same as they appear on the Go Solar California website: [http://www.gosolarcalifornia.ca.gov/links/equipment\\_links.php](http://www.gosolarcalifornia.ca.gov/links/equipment_links.php).

**B.1. Identify PV Mounting Method(s):**  Fixed  Tracking

**B.2. Photovoltaic Generator 1:**

Inverter Manufacturer	Model Number	Nameplate Rating kW/unit	CEC <sup>1</sup> Rating kW/unit	Output Voltage	1 or 3 Phase	Qty
PV Panel Manufacturer	Model Number	Nameplate Rating kW/unit	PTC <sup>2</sup> Rating kW/unit	Total Nameplate Capacity kW		Qty
				0		
				0		

**B.3. Photovoltaic Generator 2:**

Inverter Manufacturer	Model Number	Nameplate Rating kW/unit	CEC <sup>1</sup> Rating kW/unit	Output Voltage	1 or 3 Phase	Qty
PV Panel Manufacturer	Model Number	Nameplate Rating kW/unit	PTC <sup>2</sup> Rating kW/unit	Total Nameplate Capacity kW		Qty
				0		
				0		

- C. Wind Turbine Generating Facility Information:** If the inverter is incorporated in the wind turbine and no inverter is required, write "Incorporated" into the "Inverter Manufacturer" field and provide the Output Voltage and Phase type in to the Inverter row.

Inverter Manufacturer	Model Number	Nameplate Rating kW/unit	CEC <sup>1</sup> Rating kW/unit	Output Voltage	1 or 3 Phase	Qty
Wind Turbine Manufacturer	Model Number	Nameplate Rating kW/unit	CEC <sup>1</sup> Rating kW/unit	Total Nameplate Capacity kW		Qty
				0		

<sup>1</sup>California Energy Commission (CEC) ratings are available at [www.consumerenergycenter.org](http://www.consumerenergycenter.org)  
<sup>2</sup> PTC: PVUSA Test Conditions. PTC ratings are available at [www.consumerenergycenter.org](http://www.consumerenergycenter.org)



# APPLIC\* TION

## Net Energy Metering Interconnection For Solar And/Or Wind Electric Generating Facilities Of 30 Kilowatts Or Less

### Part II – Description of the Generating Facilities – Continued

**D. AC Disconnect Switch** (Write "None" if not applicable. See Part III Section C for requirements):

AC Disconnect Manufacturer	Model Number	Rating (amps)	Distance from Meter (ft.)*

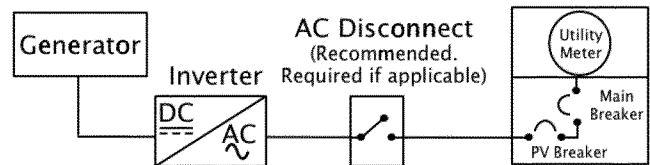
\*Note: PG&E's Electric and Gas Service Requirements, also known as the "Greenbook" requires the AC Disconnect Switch to be located 10 feet or less from PG&E's electric revenue meter at the point of common coupling or interconnection and easily seen from the panel. If the AC Disconnect Switch is greater than 10 feet, a variance request must be submitted as outlined in Part II, Section A.

**E. Basic Single-Line Diagram (SLD) for Solar Projects** (check one):

- I certify that the SLD below and the PV equipment information in Part II accurately represent the Customer's service, the Generating Facility (there are no other Generator Facility(ies) connected to the service, and the project does not require a Variance Request.

**Utility Service:** (if using the SLD to the right)

Panel Voltage	Main Breaker	PV Breaker Size



- I will submit a custom SLD for one or more of the following reasons: there is/are existing Generating Facility(ies) connected to the service, I am modifying an existing Generating Facility, the Basic SLD does not accurately reflect the project, or I am submitting a Variance Request. (See Part III Section D for Custom SLD details.)

**F. Service Panel Short Circuit Interrupting Rating (SCIR)** (for systems larger than 11 kW):

SCIR of the service panel connected to this Generating Facility: \_\_\_\_\_

### Part III – Interconnection Guidelines and Document Information

Note: 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 Electric Generation Interconnection department at 415-972-5676 or email [gen@pge.com](mailto:gen@pge.com) if the proposed installation is in San Francisco where the zip code is 94102, 94103, 94104, 94105, 94107, 94108, 94109, 94111 or 94133 or in Oakland where the zip code is 94607 or 94612.

**A. Documents**

In addition to this NEM Interconnection Application, the documents listed below 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 on PG&E's website at [www.pge.com/standardnem](http://www.pge.com/standardnem).

**Required Documents**

- Net Energy Metering (NEM) Interconnection Agreement for Solar and/or Wind Electric Generating Facilities of 30 Kilowatts or Less and Customer Authorization Form 79-1151A.
- Copy of the final, signed, jurisdiction approval (building permit) for Customer's Generating Facility.

**Additional Documents** (if applicable)

- Variance Request (if project deviates from requirements in Part III Section B).
- Custom Single-Line Diagram (SLD) (if project does not meet Part II Section E basic SLD requirements).

Documents and requirements other than those listed above and/or fees *may* be required depending on the specifics of the planned Generating Facility.





# APPLIC\* TION

## Net Energy Metering Interconnection For Solar And/Or Wind Electric Generating Facilities Of 30 Kilowatts Or Less

### Part III – Interconnection Guidelines and Document Information – Continued

#### B. Variance Request (if applicable)

The Customer or the Customer's Contractor can request a Variance Request review from PG&E if the project is unable to meet the requirements described in the Distribution Interconnection Handbook and Greenbook, available at [www.pge.com/dih](http://www.pge.com/dih) and [www.pge.com/greenbook](http://www.pge.com/greenbook). The Variance Request must be submitted with the Interconnection Application and include the following.

1. Description of the proposal for which the Customer is requesting approval.
2. Customer name and project address.
3. Copy of the Custom Single Line Diagram or electrical drawings (Include the equipment, location, and/or distances for the proposed work).
4. Color photos of the Customer's area or section for the proposed work.
5. Manufacturer specification drawings for unapproved equipment that the Customer is requesting an approval.

#### C. AC Disconnect Switch Guidelines

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.

Customers **are not required** to include an AC Disconnect Switch when the facility has a single-phase self-contained electric revenue meter (i.e. 0-320 amp panel). However, if the Customer does not install an AC Disconnect Switch, the revenue meter may be temporarily removed by PG&E due to an emergency or maintenance on PG&E's system to isolate the Customer's generator from the electric distribution system. Removal of the revenue meter will result in loss of electrical service to the Customer's facility or residence.

An AC Disconnect Switch **is required** for a Customer with:

- Inverter-based interconnections having a three-phase self-contained meter or 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.
- Inverter and non-inverter based generators that do not have overcurrent protection at the point of interconnection.

#### D. Custom Single-line Diagram (SLD) (if applicable)

The Custom SLD must include the information below for identified equipment.

1. Manufacturer, model number, nameplate rating, quantity:
  - a) Inverter(s), PV or wind turbine generators, AC Disconnect Switch, generation output meter and instrument transformers.
2. Electrical rating and operating voltages:
  - a) Service panel, circuit breaker, and other Generating Facility protective devices
3. Location of:
  - a) Customer's loads relative to the Generating Facility, and the interconnection with PG&E's Distribution System.
  - b) AC Disconnect Switch.
4. 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 based on the total nameplate rating of the inverter.

Please submit the Application and Agreement via e-mail to [gen@pge.com](mailto:gen@pge.com) for faster delivery. E-mails successfully sent to [gen@pge.com](mailto:gen@pge.com) will receive an automatic reply confirming receipt. If the Customer does not receive an automatic reply, please resubmit the application. If necessary, the Application and Agreement package can be mailed to PG&E, Attn: Electric Generation Interconnection, 245 Market St, MC N7L, San Francisco, CA 94105.



**ELECTRIC SAMPLE FORM 79-1153**  
**NEM LOAD AGGREGATION APPENDIX**

Sheet 1

Please Refer to Attached  
Sample Form

Advice Letter No: 4369-E  
Decision No.

Issued by  
**Brian K. Cherry**  
Vice President  
Regulatory Relations

Date Filed March 4, 2014  
Effective \_\_\_\_\_  
Resolution No. \_\_\_\_\_

1D5

**NEM LOAD AGGREGATION APPENDIX****(If Applicable)**

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

This is an appendix to Form 79-1151A, 79-978, 79-1137 or 79-1069 as applicable. As governed by Schedule NEM Special Condition 8, PG&E will aggregate the load of the Customer-Generator's accounts listed below where the Customer-Generator is the customer of record and the accounts continue to meet the requirements of Special Condition 8 of PG&E's NEM tariff as outlined in the Customer Declaration below.

In accordance with this appendix:

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

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

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

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

## NEM LOAD AGGREGATION APPENDIX

Requesting Second Service for Generator:  Yes  No

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

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

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

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

(Customer-Generator) \_\_\_\_\_ Date: \_\_\_\_\_ Page: \_\_ of \_\_

<sup>6</sup> If this is a new account, enter *NEW*.

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

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

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

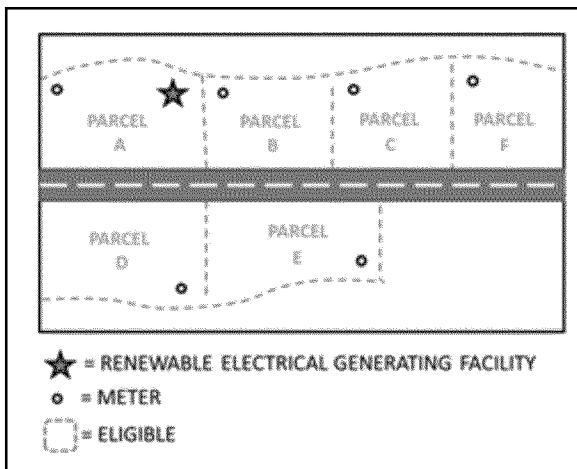
<sup>10</sup> Estimated Wind Production = 8,760 hrs/yr X 0.25 wind capacity factor = 2,190

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

## Customer-Generator Declaration

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

- 1) The total annual output in kWh of the generator is less than or equal to 110% (for solar and/or wind systems equal to or less than 30 kW) or 100% (for all other technologies and solar and/or wind systems greater than 30 kW) of the annual aggregated electrical load in kWh of the meters associated with the generator account, including the load on the generating account itself (before being offset by the generator); and
- 2) Each of the aggregated account meters associated with this NEM generator account are located either
  - (i) on the property where the renewable electrical generation facility is located, or
  - (ii) are located within an unbroken chain of contiguous parcels that are all solely owned, leased or rented by the customer-generator. For purposes of Load Aggregation, parcels that are divided by a street, highway, or public thoroughfare are considered contiguous, provided they are within an unbroken chain of otherwise contiguous parcels that are all solely owned leased or rented by the customer-generator.



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

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

\_\_\_\_\_  
Customer Generator's Name

\_\_\_\_\_  
Date

\_\_\_\_\_  
Signature

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

\_\_\_\_\_  
Title



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Sheet 1

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Advice Letter No: 4369-E  
 Decision No.

Issued by  
**Brian K. Cherry**  
 Vice President  
 Regulatory Relations

Date Filed March 4, 2014  
 Effective \_\_\_\_\_  
 Resolution No. \_\_\_\_\_



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79-978	Interconnection Agreement for Net Energy Metering of Solar or Wind Electric Generating Facilities 1,000 Kilowatts or less, other than Residential or Small Commercial Facilities of 10 kW or Less.....	32039-E*
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Advice Letter No: 4369-E  
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**Brian K. Cherry**  
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 Regulatory Relations

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

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