



September 19, 2014

**Advice 4498-E**

(Pacific Gas and Electric Company ID U39 E)

Public Utilities Commission of the State of California

**Subject: Information-Only Filing Regarding Net Energy Metering Costs**

Pacific Gas and Electric Company (PG&E) hereby submits for filing a report on interconnection costs for all NEM customers.

**Purpose**

The purpose of this filing is to report PG&E's costs of interconnection for all NEM customers, for the period of November 1, 2013 through August 31, 2014

**Background**

In accordance with Resolution E-4610 and Decision (D.) 14-05-033, PG&E shall report costs of interconnection for all NEM customers, first on September 19, 2014, with a follow up report no later than June 30, 2015.

In accordance with D.14-05-033, the investor-owned utilities jointly filed a Tier 2 Advice Letter detailing the cost categories being tracked pursuant to E-4610 on June 23, 2014. Southern California Edison (SCE) filed Advice Letter 4446-E on behalf of PG&E, and was approved as of June 23, 2014 via disposition letter on August 1, 2014.

**Net Energy Metering Interconnection Costs**

The report of interconnection costs for all NEM customers is attached to this Advice Letter, Attachment A.

**Protests**

This is an information-only advice letter filing. Pursuant to General Order 96-B Section 6.2, PG&E is not seeking relief through this advice letter and is not subject to protest. Instead, PG&E is simply reporting the interconnection costs for all NEM customers pursuant to Resolution E-4610 and D.14-05-033.

**Effective Date**

PG&E requests that this information-only advice filing become effective September 19, 2014, 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.12-11-005. Address changes to the General Order 96-B service list should be directed to e-mail 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>.



Senior Director – Regulatory Relations

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) #: **4498-E**

Tier: N/A

Subject of AL: **Information-Only Filing Regarding Net Energy Metering Costs**

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 #: Resolution E-4610

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: **September 19, 2014**

No. of tariff sheets: N/A

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: N/A

Service affected and changes proposed: N/A

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

This is an information-only advice letter filing. Pursuant to General Order 96-B Section 6.2, PG&E is not seeking relief through this advice letter and is not subject to protest.

**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: Meredith Allen**

**Senior Director, Regulatory Relations**

**77 Beale Street, Mail Code B10C**

**P.O. Box 770000**

**San Francisco, CA 94177**

**E-mail: PGETariffs@pge.com**

**Attachment A**  
**NEM Interconnection Costs**

In response to the California Public Utilities Commission (CPUC) order stated in Resolution E-4610, PG&E has tracked the following interconnection costs (Tables 1-5) related to its Net Energy Metering tariffs for the period November 1, 2013 through August 31, 2014. PG&E's current available NEM tariffs include: Schedules NEM (including NEMA and NEMMT), NEMFC, NEMV, and NEMVMASH.

<b>Total NEM Applications</b>	35,652
<b>Total NEM Interconnections</b>	33,774

<b>Table 1</b> <b>Processing/Administration Costs</b>	
<b>Total</b>	\$4,592,174
Notes:	
<ul style="list-style-type: none"> <li>•Includes Application Processing (e.g., validating and approving single line diagram, interconnection agreement, electrical inspection clearance from governmental agency having jurisdiction, and other required documents), and back office tasks (e.g., initial billing setup).</li> <li>•Billing setup costs available for NEMS only. Billing setup for NEMEXP, NEMA, NEMMT, NEMFC, NEMV, and NEMVMASH will be included in June 30, 2015 report.</li> </ul>	

<b>Table 2</b> <b>Distribution Engineering Costs (1)</b>	
<b>Total</b>	\$1,024,181
Note: Includes technical analysis, studies, and screens consistent with Rule 21 (e.g., voltage rise, 15% Penetration, transformer loading)	

<b>Table 3</b> <b>Metering Installation/Inspection and Commissioning</b>	
<b>Total</b>	\$268,053
Note: Includes residential and non-residential meter changes and remote meter programming, material, supplies, procurement costs, labor for installation, testing, engineering, and quality assurance necessary for interconnection	

<b>Table 5</b> <b>Facility Upgrade Costs</b>	
<b>Type</b>	<b>Total</b>
Interconnection Facilities	\$1,010,725
Distribution Upgrades	\$1,184,001
<b>Total</b>	\$2,194,726

In response to the CPUC order stated in Decision (D) 14-05-033, PG&E has tracked the following waived fees and costs (Table 6) related to interconnection of NEM-Paired Storage for the period of May 23, 2014 through August 31, 2014.

<b>Table 6</b> <b>NEM-Paired Storage Waived Fees and Costs</b>		
<b>Category</b>	<b>Number of Projects</b>	<b>Total Cost</b>
Application Fee	32	\$25,600
Supplemental Review Fee	0	\$0
Distribution Upgrades	1	\$27,377
Standby Charges	17	\$1,298
NGOM Metering	3	\$1,800
Note: Standby Charges calculated according to Schedule S for customers interconnected at distribution level. PG&E understands that there can be reactive demand impacts from inverter based customer-storage units without reactive power compensation; however since most of these customers do not have a meter capable of measuring VARs, the reactive demand charges will be tracked as \$0.00.		

In addition to reporting NEM interconnection costs and waived fees, PG&E proposed in Advice Letter 4446-E to track and report the interconnection costs refunded to customers who paid to interconnect qualifying NEM-Paired Storage systems prior to the issuance of D.14-05-033. The refunded costs in Table 7 were collected between January 1, 2012 and May 23, 2014.

<b>Table 7</b> <b>Refunded NEM-Paired Storage Interconnection Costs</b>		
<b>Category</b>	<b>Number of Projects</b>	<b>Total Cost</b>
Refunded IC fees and Metering costs	65	\$51,300
Note: Includes 65 application fees and 1 Supplemental Review fee.		

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

AT&T	Douglass & Liddell	Occidental Energy Marketing, Inc.
Alcantar & Kahl LLP	Downey & Brand	OnGrid Solar
Anderson & Poole	Ellison Schneider & Harris LLP	Pacific Gas and Electric Company
BART	G. A. Krause & Assoc.	Praxair
Barkovich & Yap, Inc.	GenOn Energy Inc.	Regulatory & Cogeneration Service, Inc.
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CENERGY POWER	Green Power Institute	SDG&E and SoCalGas
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Casner, Steve	Kelly Group	Southern California Edison Company
Center for Biological Diversity	Linde	Spark Energy
City of Palo Alto	Los Angeles County Integrated Waste Management Task Force	Sun Light & Power
City of San Jose	Los Angeles Dept of Water & Power	Sunshine Design
Clean Power	MRW & Associates	Tecogen, Inc.
Coast Economic Consulting	Manatt Phelps Phillips	Tiger Natural Gas, Inc.
Commercial Energy	Marin Energy Authority	TransCanada
Cool Earth Solar, Inc.	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
Day Carter Murphy	NLine Energy, Inc.	Water and Energy Consulting
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