

## PUBLIC UTILITIES COMMISSION

505 VAN NESS AVENUE  
SAN FRANCISCO, CA 94102-3298

Tel. No. (415) 703-1691



November 8, 2006

Advice Letter 2669-E

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

Subject: Revisions to Net Energy Metering Electric Schedules NEMFC, NEMBIO and  
NEM

Dear Ms. De La Torre:

Advice Letter 2669-E is effective July 2, 2005. A copy of the advice letter is returned herewith  
for your records.

Sincerely,

A handwritten signature in black ink, appearing to read "Sean H. Gallagher".

Sean H. Gallagher, Director  
Energy Division

<b>REGULATORY RELATIONS</b>	
Tariffs Section	
M Brown	D Poster
R DeLa Torre	S Ramaiya
B Lam	
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Records _____	
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cc to _____	



**Pacific Gas and  
Electric Company®**

**June 2, 2005**

**Advice 2669-E**

(Pacific Gas and Electric Company ID U39E)

**Brian K. Cherry**  
Director  
Regulatory Relations

77 Beale Street, Room 1087  
San Francisco, CA 94105

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**Subject: Revisions to Net Energy Metering Electric Schedules NEMFC,  
NEMBIO and NEM**

Public Utilities Commission of the State of California

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

**Purpose**

The purpose of this filing is to simplify billing procedures and clarify the annual true-up credit calculation process pertaining to PG&E's Fuel Cell, Biogas Digester and large wind net energy metering rate schedules. The proposed tariff changes in this filing only affect customer-generators taking service under Schedules NEMBIO, NEMFC, and the wind energy co-metering provision (herein referred to as "NEM(W)") covered under Special Condition 5 of Schedule NEM. This filing will not affect solar and *small* wind net energy metering customers covered under different provisions of Schedule NEM.

**Credit Calculation**

For accounts under Schedules NEMBIO, NEMFC and NEM(W), a net producer is a customer who, over a one-year reconciliation period, exports to PG&E more energy than they import, based on separate "in and out" metering. PG&E calculates a credit for customer-generators with monthly exports on a dollar basis (instead of a kwh basis) carried forward until the end of the reconciliation period. (A "reconciliation period" begins on the date PG&E authorizes the interconnection, and continues for one year, at which point a new reconciliation period begins.) The statutes for all three tariffs (Public Utilities Code 2827, 2827.9 and 2827.10) state that at the end of the year no credit will be given on net excess energy (kWh) exports. To determine the amount of the credit minus "excess energy" for net producers under Schedules NEMBIO, NEMFC and NEM(W), an averaging formula is used. PG&E is concerned that under certain conditions, customers may be confused by this distinction between net dollars and net kwh. For example, if the averaging formula is employed a net producer generating around the clock may receive a lower credit than they would if they were a net consumer. The tariff changes in this filing address this problem. Instead of using the averaging

formula, the maximum credit for a net producer will be set in the same manner as for a net consumer, making sure all customers receive the full benefit to which they are entitled. In addition, these changes have the added benefit of simplifying the billing process so that it is easier for customers to follow and understand.

### **Tariff Revisions**

PG&E proposes the following text changes to Schedules NEMFC, NEMBIO and NEM:

- 1) Schedule NEMFC, Special Conditions, 5. Definitions, under (g) ELIGIBLE GENERATION CREDIT, the following paragraph, except for the last sentence, is removed:

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

The last sentence of this paragraph has been moved to the first paragraph of Definition 5(g), as shown below.

In the first paragraph under 5(g) the phrase "or Fuel Cell Net Producers" is added so the paragraph now reads:

The Eligible Generation Credit for Fuel Cell Net Consumers **or Fuel Cell Net Producers** equals the lesser of: (1) all net generation charges for the Relevant Period; or (2) the absolute value of all net generation credits for the Relevant Period. **Any credit for excess energy (kWh) will be retained by PG&E and a Net Producer will not be owed any compensation for this excess energy.**

- 2) Schedule NEMBIO, Special Condition 6--Definitions, under (g) ELIGIBLE GENERATION CREDIT, the following paragraph, except for the last sentence, is removed:

For Biogas Net Producers, generation credits for kWh in excess of total kWh consumed, are not Eligible Generation Credits. To calculate the Eligible Generation Credit for a Biogas Net Producer, PG&E will, as part of the Annual Reconciliation, 1) determine the average credit for energy (per kWh) produced by taking the total credit calculated for generation delivered to PG&E's Distribution System by the Biogas Net Producer and dividing by the total kWh delivered to the Distribution System during the Relevant Period; and 2) multiply

this amount by the total energy (kWh) consumed by the Biogas Net Producer over the corresponding period. This Eligible Generation Credit shall be no greater than the total of all net generation charges for the Relevant Period, including in the case of a dairy operation, the generation charges associated with the accounts eligible for Special Condition 2.

The last sentence of this paragraph is moved to the first paragraph of Section 6—Definitions—ELIGIBLE GENERATION CREDIT.

In the first paragraph under (g) the phrase “or Biogas Net Producers” is added so the paragraph now reads:

The Eligible Generation Credit for Biogas Net Consumers **or Biogas Net Producers** equals the lesser of: 1) all net generation charges for the Relevant Period, including in the case of a dairy operation the Generation Charges associated with accounts eligible for Special Condition 2; or 2) the absolute value of all net generation credits for the Relevant Period. Any credit for excess energy (kWh) will be retained by PG&E and a Net Producer will not be owed any compensation

3) Schedule **NEM**, Special Condition 5 -- Wind Energy Co-Metering, the following paragraph and formula is removed:

To calculate the maximum generation credit for a Wind Energy Co-Metering producer, PG&E will, at the end of each 12 month period, determine the average credit for energy based on the following equation:

Average Credit (\$/kWh) =

$$\frac{\text{Total Credit (\$) calculated for the 12-month period}}{\text{Total energy fed back to PG\&E (kWh) during the 12-month period}}$$

Then the Maximum Credit (\$) =

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

The sentence shown in bold is added to Definition 5:

At the end of each 12-month period (as described in Special Condition 2), if the electricity fed back to the electric grid by the eligible customer-generator exceeds the electricity supplied to the eligible customer-generator by PG&E, the eligible customer-generator is a Wind Energy Co-Metering producer; (otherwise the eligible customer-generator is a Wind Energy Co-Metering consumer). **The Eligible Generation Credit for a Wind Energy Co-Metering consumer or Wind Energy Co-metering producer equals the lesser of: (1) all net generation charges for the 12 month period; or (2) the absolute value of all net generation credits for the 12 month period.**

In addition to the changes above, because AL 2560-E and AL 2614-E, which revised language in Schedule NEM, were filed around the same time period, the language changes from both filings were not incorporated in the most recently version of Schedule NEM authorized by the Commission. This filing includes the wording changes from both filings. Thus, the two paragraphs at the end of the Rates section removed in AL 2560-E will be deleted in this filing. The deleted paragraphs are:

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

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

### **Protests**

Anyone wishing to protest this filing may do so by letter sent via U.S. mail, by facsimile or electronically, any of which must be received no later than 20 days after the date of this filing, which is **June 22, 2005**. Protests should be mailed to:

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

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

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

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

**Effective Date**

PG&E requests that this advice filing become effective **July 2, 2005**, which is 30 days from the date of this filing.

**Notice**

In accordance with General Order 96-A, Section III, Paragraph G, a copy of this Advice Letter is being sent electronically and via U.S. mail to parties shown on the attached list. Address changes should be directed to Rose De La Torre at (415) 973-4716. Advice Letters can also be accessed electronically at:

**<http://www.pge.com/tariffs>**

*Brian H. Cherry /s/*

Director - Regulatory Relations

Attachments

cc: Service List - R. 04-03-017

# CALIFORNIA PUBLIC UTILITIES COMMISSION

## ADVICE LETTER FILING SUMMARY ENERGY UTILITY

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

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

Utility type:

ELC     GAS  
 PLC     HEAT     WATER

Contact Person: Susan Shaw

Phone #: (415) 973-7375

E-mail: sxs9@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) #: **2669-E**

Subject of AL: Revises Electric Net Metering Schedules NEMFC, NEMBIO and NEM

Keywords (choose from CPUC listing): **NET METERING**

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

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

Does AL replace a withdrawn or rejected AL? If so, identify the prior AL: Not applicable

Summarize differences between the AL and the prior withdrawn or rejected AL<sup>1</sup>: \_\_\_\_\_

Resolution Required?  Yes  No

Requested effective date: \_\_\_\_\_

No. of tariff sheets: **6**

Estimated system annual revenue effect (%): \_\_\_\_\_

Estimated system average rate effect (%): \_\_\_\_\_

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 Schedules NEM, NEMFC and NEMBIO

Service affected and changes proposed<sup>1</sup>: Same as above

Pending advice letters that revise the same tariff sheets: 2614-E

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

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

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

<sup>1</sup> Discuss in AL if more space is needed.

**ATTACHMENT 1  
Advice 2669-E**

<b>Cal P.U.C. Sheet No.</b>	<b>Title of Sheet</b>	<b>Cancelling Cal P.U.C. Sheet No.</b>
23612-E	Schedule NEM--Net Energy Metering Service	22681-E
23613-E	Schedule NEM (Cont.)	22686-E
23614-E	Schedule NEMFC--Net Energy Metering Service For Fuel Cell Customer-Generators	21483-E
23615-E	Schedule NEMBIO--Net Energy Metering Service for Biogas Customer-Generators	22679-E
23616-E	Table of Contents--Rate Schedules (Cont'd.)	23595-E
23617-E	Table of Contents--Rate Schedules	23596-E



**SCHEDULE NEM—NET ENERGY METERING SERVICE**  
(Continued)

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

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

(Continued)



SCHEDULE NEM—NET ENERGY METERING SERVICE  
(Continued)

SPECIAL  
CONDITIONS:  
(Cont'd.)

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

At the end of each 12-month period (as described in Special Condition 2), if the electricity fed back to the electric grid by the eligible customer-generator exceeds the electricity supplied to the eligible customer-generator by PG&E, the eligible customer-generator is a Wind Energy Co-Metering producer; (otherwise the eligible customer-generator is a Wind Energy Co-Metering consumer). The Eligible Generation Credit for a Wind Energy Co-Metering consumer or Wind Energy Co-metering producer equals the lesser of: (1) all net generation charges for the 12-month period; or (2) the absolute value of all net generation credits for the 12-month period.

(N)  
—  
(N)  
—  
(D)  
—  
(D)

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

(Continued)



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

SPECIAL  
CONDITIONS:  
(Cont'd.)

5. DEFINITIONS: (Cont'd)

g. ELIGIBLE GENERATION CREDIT: The Eligible Generation Credit for Fuel Cell Net Consumers or Fuel Cell Net Producers equals the lesser of: (1) all net generation charges for the Relevant Period; or (2) the absolute value of all net generation credits for the Relevant Period. Any credit for excess energy (kWh) will be retained by PG&E and a Net Producer will not be owed any compensation for this excess energy.

(T)

(T)

(T)

(D)

(D)

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

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



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

SPECIAL  
CONDITIONS:  
(Cont'd.)

6. DEFINITIONS: (Cont'd.)

g. ELIGIBLE GENERATION CREDIT: The Eligible Generation Credit for Biogas Net Consumers or Biogas Net Producers equals the lesser of: (1) all net generation charges for the Relevant Period, including in the case of a dairy operation the Generation Charges associated with accounts eligible for Special Condition 2; or 2) the absolute value of all net generation credits for the Relevant Period. Any credit for excess energy (kWh) will be retained by PG&E and a Net Producer will not be owed any compensation for this excess energy.

(T)  
  
(T)  
(T)  
(D)  
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(D)

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

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

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**PG&E Gas and Electric Advice  
Filing List  
General Order 96-A, Section III(G)**

ABAG Power Pool  
Accent Energy  
Aglet Consumer Alliance  
Agnews Developmental Center  
Ahmed, Ali  
Alicantar & Elsesser  
Anderson Donovan & Poole P.C.  
Applied Power Technologies  
APS Energy Services Co Inc  
Arter & Hadden LLP  
Avista Corp  
Barkovich & Yap, Inc.  
BART  
Bartle Wells Associates  
Blue Ridge Gas  
Bohannon Development Co  
BP Energy Company  
Braun & Associates  
C & H Sugar Co.  
CA Bldg Industry Association  
CA Cotton Ginners & Growers Assoc.  
CA League of Food Processors  
CA Water Service Group  
California Energy Commission  
California Farm Bureau Federation  
California Gas Acquisition Svcs  
California ISO  
Calpine  
Calpine Corp  
Calpine Gilroy Cogen  
Cambridge Energy Research Assoc  
Cameron McKenna  
Cardinal Cogen  
Cellnet Data Systems  
Chevron USA Production Co.  
Childress, David A.  
City of Glendale  
City of Healdsburg  
City of Palo Alto  
City of Redding  
CLECA Law Office  
Constellation New Energy  
Cooperative Community Energy  
CPUC  
Creative Technology  
Cross Border Inc  
Crossborder Inc  
CSC Energy Services  
Davis, Wright Tremaine LLP  
Davis, Wright, Tremaine, LLP  
Defense Fuel Support Center  
Department of the Army  
Department of Water & Power City

DGS Natural Gas Services  
DMM Customer Services  
Douglass & Liddell  
Downey, Brand, Seymour & Rohwer  
Duke Energy  
Duke Energy North America  
Duncan, Virgil E.  
Dutcher, John  
Dynegy Inc.  
Ellison Schneider  
Energy Law Group LLP  
Energy Management Services, LLC  
Enron Energy Services  
Exelon Energy Ohio, Inc  
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Hanna & Morton  
Heeg, Peggy A.  
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Hogan Manufacturing, Inc  
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Imperial Irrigation District  
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Luce, Forward, Hamilton & Scripps  
Marcus, David  
Masonite Corporation  
Matthew V. Brady & Associates  
Maynor, Donald H.  
McKenzie & Assoc  
McKenzie & Associates  
Meek, Daniel W.  
Mirant California, LLC  
Modesto Irrigation Dist  
Morrison & Foerster  
Morse Richard Weisenmiller & Assoc.  
Navigant Consulting  
New United Motor Mfg, Inc  
Norris & Wong Associates  
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Northern California Power Agency

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PG&E National Energy Group  
Pinnacle CNG Company  
PITCO  
Plurimi, Inc.  
PPL EnergyPlus, LLC  
Praxair, Inc.  
Price, Roy  
Product Development Dept  
R. M. Hairston & Company  
R. W. Beck & Associates  
Recon Research  
Regional Cogeneration Service  
RMC Lonestar  
Sacramento Municipal Utility District  
SCD Energy Solutions  
Seattle City Light  
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Smurfit Stone Container Corp  
Southern California Edison  
SPURR  
St. Paul Assoc  
Stanford University  
Sutherland, Asbill & Brennan  
Tabors Caramanis & Associates  
Tansev and Associates  
Tecogen, Inc  
TFS Energy  
Transwestern Pipeline Co  
Turlock Irrigation District  
U S Borax, Inc  
United Cogen Inc.  
URM Groups  
Utility Cost Management LLC  
Utility Resource Network  
Wellhead Electric Company  
Western Hub Properties, LLC  
White & Case  
WMA