

May 21, 2001

Advice 2118-E

(Pacific Gas and Electric Company ID U 39 E

Public Utilities Commission of the State of California

Subject

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

Purpose

The purpose of this filing is to submit revised rate Schedule E-NET—*Net Energy Metering Service*. This filing is made in compliance with the May 3, 2001 Administrative Law Judge's Ruling on Implementation of Assembly Bill (AB) 1x 29, Rulemaking (R.) 99-10-025, filed October 21, 1999). Effective April 11, 2001, revised Schedule E-NET will be the rate schedule applicable to net-metered customer-generators ("Customer-Generators"). In addition, this filing seeks Commission approval for two modifications to PG&E's Electric Tariff Rule 21-Generating Facilities Interconnection, to maintain the current status quo on interconnection study fees and meter requirements for Solar and Wind generating facilities greater than 10 kilowatt (kW).

Background

AB x1 29, signed into law by Governor Davis on April 11, 2001, amended section 2827 of the California Public Utilities Code to expand the applicable rate classes from residential and small commercial customers to now include all metered commercial, industrial and agricultural customers. Additionally, it increased allowable total wind and/or solar facility size on the customer-generator's premises from 10 kW to 1000 kW. AB x1 29 also lays out the different billing requirements for customer generator facilities rated more than 10 kW up to and including 1000 kilowatt. All of the changes implemented under AB x1 29 are to remain in place until January 1, 2003 whereupon the applicability for new customer-generators will revert to the previous applicability conditions (i.e., up to 10 kilowatt generating facility size and limited to residential and small commercial customer-generators)

AB x1 29 provides that PG&E is not obligated to offer net metering to customers

participating in direct transactions with a service provider that does not provide distribution service.

AB x1 29 says that all commercial, industrial and agricultural customers must pay their net balance of moneys owed in accordance with their normal billing cycle. However, it carves out an exception and permits residential and small commercial customers to continue to pay energy charges annually.

In addition, the revised E-NET tariff lists specific non-energy billing components which are dependent on the ratio of load demand to usage. The new language clarifies that demand will be measured on the net or highest value of the metered demand going into or coming out of the customer's meter, when applicable, in order to accurately bill the customer-generator. Similarly, the power factor is defined in terms of net measurements of the reactive component to the net kilowatt-hours consumed. The tariff specifies which of those components are involved.

To reflect the expansion in AB x1 29 to generating systems greater than 10 kW, a new interconnection agreement has been created. This agreement is called the *"Interconnection Agreement for Net Energy Metering of Solar or Wind Electric Generating Facilities of 1000 kW or Less, Other Than Residential or Small Commercial Facilities of 10 kW or Less"* (Form 79-978). This new interconnection agreement was derived from PG&E's existing PG&E Generating Facility Interconnection Agreement (Form 79-973) and from the current E-NET interconnection agreement, *"Interconnection Agreement for Net Energy Metering for Residential and Small Commercial Solar or Wind Electric Generation Facilities of 10 Kilowatts or Less"* (Form 79-854).

Implementing the new requirements of AB x1 29 will have no impact on pre-existing E-NET customer-generators, except that the description of baseline billing was modified slightly to accommodate any changes approved by the Commission in the tier structure for baseline rates.

In addition, this filing also seeks Commission approval for two modifications to PG&E's Electric Tariff Rule 21 to maintain the current exemptions for residential and small commercial customers with solar and/or wind generators 10 kW or less from paying review fees and from metering requirements without expanding these exceptions to include larger generators.

The applicable sections of Rule 21 were created when California Public Utilities Code section 2827 only applied to solar and/or wind electrical generating systems of 10 kW or less. When these exemptions to Rule 21 requirements were drafted, it was not anticipated that the capacity of systems

eligible under California Public Utility Code section 2827 would be expanded from 10 kilowatts to 1000 kilowatts.

Rule 21 addresses safety and reliability requirements of all generators that interconnect with the distribution system. These requirements are no more, or less, stringent for customers who interconnect other technologies not covered under California PU Code section 2827. By adding the language limiting the exemptions under Rule 21 for systems "10 kilowatts or less", Rule 21 will maintain the status quo for small generators with solar and/or wind systems while keeping in place current requirements for larger generators. .

Protests

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

IMC Branch Chief
Energy Division
California Public Utilities Commission
505 Van Ness Avenue, Room 4002
San Francisco, CA 94102
Facsimile: (415) 703-2200

Copies should also be mailed to the attention of the Director, Energy Division, Room 4005 and Jerry Royer, Energy Division, at the address shown above. It is also requested that a copy of the protest be sent via postal mail and facsimile to Pacific Gas and Electric Company on the same date it is mailed or delivered to the Commission at the address shown below.

Pacific Gas and Electric Company
Attention: Les Guliasi
Director, Regulatory Relations
77 Beale Street, Mailcode B10C
P.O. Box 770000
San Francisco, CA 94177
Facsimile: (415) 973-7226

Effective Date

In accordance with the terms of AB 1x 29, PG&E requests that this advice filing become effective **April 11, 2001**.

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 and to the service list for Rulemaking (R.) 99-10-025. Address change requests should be directed to Nelia Avendano at (415) 973-3529.

PG&E reserves all legal rights to challenge the decisions or statutes under which it has been required to make this advice filing, and nothing in this advice filing constitutes a waiver of such rights. Also, PG&E reserves any additional legal rights to challenge the requirement to make this advice filing by reason of its status as a debtor under Chapter 11 of the Bankruptcy Code, and nothing in this advice filing constitutes a waiver of such rights.

Vice President - Regulatory Relations

cc: Service List – R. 99-10-025

Attachments



SCHEDULE E-NET—NET ENERGY METERING SERVICE

APPLICABILITY: This net-metering schedule is applicable to a residential, small commercial customer (as defined in subdivision (h) of Section 331 of the California Public Utilities Code), commercial, industrial, or agricultural customer who uses a solar or wind turbine electrical generating facility, or a hybrid system of both, with a capacity of not more than 1,000 kilowatts that is located on the customer's owned, leased, or rented premises, is interconnected and operates in parallel with PG&E's transmission and distribution facilities, and is intended primarily to offset part or all of the customer's own electrical requirements (hereinafter "eligible customer-generator" or "customer"). Certain incremental billing and metering costs set forth in this schedule that are related to net energy metering are applicable to Energy Service Providers (ESPs) serving eligible customer-generators. (T)

This service is not applicable to a Direct Access (DA) customer where the customer's ESP does not offer a net energy metering tariff. In addition, if a customer-generator participates in direct transactions with an electric provider that does not provide distribution service for the direct transactions, PG&E is not obligated to provide net energy metering to the customer. (T)
(N)

After December 31, 2002, this rate schedule will be closed to new customers except for new residential and small commercial customer-generator with a system capacity of 10 kilowatts or less. (N)

TERRITORY: The entire territory served.

RATES: All rates charged under this schedule will be in accordance with the eligible customer-generator's otherwise-applicable metered rate schedule. An eligible customer-generator served under this schedule is responsible for all charges from its otherwise-applicable rate schedule including monthly minimum charges, customer charges, meter charges, facilities charges, demand charges and surcharges. The power factor for all otherwise-applicable rate schedules where it applies, the "Peak Period Rate Limiters" and "Average Rate Limiter" for general service otherwise applicable rates and the "Demand Charge Limiter" for agricultural otherwise applicable rate schedule will be based on the usage demand (not generation created demand) and will require customers to have dual metering or metering capable of measuring distinguishing demand for usage from demand for generation. Charges for electricity supplied by PG&E will be based on the net metered usage in accordance with Net Energy Metering and Billing (Special Condition 2, below). (T)
(N)

Customer-generators eligible for service under this schedule are exempt from the requirements of Schedule S—Standby Service.

Except as allowed in their otherwise-applicable rate schedule, the eligible customer-generators are exempt from paying Competitive Transition Charges (CTC) and other non-bypassable charges for their departing load served by the electricity generated by the customer's generator. (L)

(Continued)



SCHEDULE E-NET—NET ENERGY METERING SERVICE
(Continued)

SPECIAL
CONDITIONS:

1. METERING EQUIPMENT: Net energy metering shall be accomplished using a single meter capable of registering the flow of electricity in two directions. If the eligible customer-generator's existing electrical meter is not capable of measuring the flow of electricity in two directions, the eligible customer-generator shall be responsible for all expenses involved in purchasing and installing a meter that is able to measure electricity flow in two directions. An additional meter or meters, installed in a dual meter socket ("dual metering"), to monitor the flow of electricity in each direction may be installed with the consent of the eligible customer-generator, at the expense of PG&E, and the dual metering shall be used only to provide the information necessary to accurately bill or credit the customer according to the utility's otherwise applicable tariff or to collect solar or wind, or a hybrid system of both, electric generating system performance information for research purposes. PG&E shall determine whether dual metering is required under this provision. If dual metering is installed, the net energy metering calculation (see below) shall yield a result identical to that of a single meter capable of measuring the flow of electricity in two directions. (L)

If PG&E decides that dual metering is required for the purposes set forth herein, and the eligible customer-generator refuses consent for installation of dual metering. PG&E shall have the right to refuse interconnection. (L)

2. NET ENERGY METERING AND BILLING: Net energy is defined as measuring the difference between the electricity supplied by PG&E through the electric grid to the eligible customer-generator and electricity generated by an eligible customer generator and fed back into the electric grid over a 12-month period. At the end of each 12-month period following the date the customer-generator was first eligible for Schedule E-NET, or the date of final interconnection, whichever is later, and at each anniversary date thereafter, the eligible customer-generator shall be billed for electricity used during that period. If an eligible customer-generator shall be billed for electricity used during that period. If an eligible customer-generator terminates service under this rate schedule, or experiences a change in electric service provider prior to the end of any 12-month period, PG&E shall reconcile the customer's consumption and production of electricity and bill the customer as described below, as if it were the end of the normal 12-month period. (T)

In the event the energy generated exceeds the energy consumed during the 12-month period, based on the eligible customer-generator's otherwise-applicable rate schedule as set forth below, no payment shall be made for the excess energy delivered to PG&E's grid. If PG&E is the electric service provider, this condition may be modified where the customer has signed a contract to sell electricity to PG&E. (T)

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

(Continued)



SCHEDULE E-NET—NET ENERGY METERING SERVICE
(Continued)

SPECIAL
CONDITIONS:
(Cont'd.)

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

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

(L)

a) Baseline Rates:

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

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

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

(T)
(T)

(L)

b) Time of Use

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

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

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

c) Annual and Monthly Billing

If PG&E supplies the eligible customer-generator with electricity, PG&E shall provide the eligible customer-generator with net electricity consumption information with each regular bill. That information shall include the current monetary balance owed PG&E for the net electricity consumed since the last 12-month period ended. Eligible residential and small commercial customer-generators may pay monthly or annually for the net energy consumed. For all other commercial, industrial, and agricultural customer, the net balance of all moneys owed must be paid on each monthly billing cycle; when they are a net electricity producer over a monthly billing cycle, any excess kilowatt-hours generated during the billing cycle shall be carried over to the following billing period and appear as a credit on the customer generator's account, until the end of the 12-month period.

(N)

(N)

(L)



RULE 21—GENERATING FACILITY INTERCONNECTIONS
(Continued)

C. GENERATING FACILITY APPLICATION AND INTERCONNECTION PROCESS

1. GENERATING FACILITY APPLICATION PROCESS

- a. Applicant Initiates Contact with PG&E. Upon request, PG&E will provide information and documents (such as the Agreement and the Application), technical requirements, specifications, listing of Certified Equipment, application fee information, applicable rate schedules and metering requirements) in response to a potential Applicant's inquiry. Unless otherwise agreed upon, all such information shall normally be sent to an Applicant within three (3) business days following the initial request from the Applicant. PG&E will establish an individual representative as the single point of contact for the Applicant, but may allocate responsibilities among its staff to best coordinate the Interconnection of an Applicant's Generating Facility.
- b. Applicant Completes an Application. All Applicants shall be required to complete and file an Application and supply any additional information requested by PG&E. The filing must include the completed Application, which may be in paper format or filed electronically, a fee for processing the Application and performing the Initial Review to be completed by PG&E pursuant to Section C.1.c. The Application and Initial Review fee shall vary with the nature of the proposed Generating Facility as follows:

<u>Type of Generating Facility</u>	<u>Initial Review Fee</u>	<u>Supplemental Review Fee</u>	
Net Energy Metering less than 10 kWh (per Public Utilities Code Section 2827)	None	None	(T) (T)
All Others	\$800	\$600	

Note: Fifty percent of the fees associated with the Initial Review will be returned to the Applicant if the Application is rejected by PG&E or the Applicant retracts the Application. The Applicant may propose, and PG&E may negotiate specific costs for processing non-standard installations such as multi-units, multi-sites, or otherwise as conditions warrant. The costs for the Initial Review and the Supplemental Review contained in this Section, as well as the language provided in Sections C.1.c and C.1.d do not apply under such circumstances. Within ten (10) business days of receiving the Application, PG&E shall normally acknowledge its receipt and state whether the Application has been completed adequately. If defects are noted, PG&E and Applicant shall cooperate in a timely manner to establish a satisfactory Application.

(Continued)



RULE 21—GENERATING FACILITY INTERCONNECTIONS
(Continued)

F. METERING, MONITORING AND TELEMETRY

1. General Requirements. All Generating Facilities shall be metered in accordance with this Section F and shall meet all applicable standards of PG&E contained in PG&E's applicable Tariff Schedules and published PG&E manuals dealing with metering specifications. The requirements in this Section F do not apply to metering of Generating Facilities less than 10 kW operating under PG&E's Net Energy Metering tariff pursuant to California Public Utilities Code Section 2827. (T)

2. Metering by non-PG&E Parties. The ownership, installation, operation, reading, and testing of Metering for Generating Facilities shall be by PG&E except to the extent that the Commission has determined that all these functions, or any of them, may be performed by others as authorized by the Commission. (T)

3. Net Generation Metering. For purposes of monitoring Generating Facility operation for determination of standby charges and applicable non-bypassable charges as defined in PG&E's Tariff Schedules, and for Distribution System planning and operations, consistent with Section B.4 of this Rule, PG&E shall have the right to specify the type, and require the installation of, Net Generation Metering. PG&E shall require the provision of Generating Facility output data to the extent reasonably necessary to provide information for PG&E to administer its Tariff Schedules or to operate and plan its system. PG&E shall only require Net Generation Metering to the extent that less intrusive and/or more cost effective options for providing the necessary Generating Facility output data are not available. In exercising its discretion to require Net Generation Metering, PG&E shall consider all relevant factors, including but not limited to:
 - a. Data requirements in proportion to need for information;
 - b. Producer election to install equipment that adequately addresses PG&E's operational requirements;
 - c. Accuracy and type of required metering consistent with purposes of collecting data;
 - d. Cost of metering relative to the need for and accuracy of the data;
 - e. The Generating Facility's size relative to the cost of the metering/monitoring;
 - f. Other means of obtaining the data (e.g. Generating Facility logs, proxy data etc.);
 - g. Requirements under any Generating Facility Interconnection Agreement with the Producer.

(Continued)



Pacific Gas and Electric Company
San Francisco, California

Cancelling

Revised
Revised

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

18172-E
13870-E

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

(T)
(T)
(T)

Advice Letter No. 2118-E
Decision No. R.99-10-025

Issued by
DeAnn Hapner
Vice President
Regulatory Relations

Date Filed May 21, 2001
Effective April 11, 2001
Resolution No. _____



Pacific Gas and Electric Company
San Francisco, California

Original
Cancelling

Original

Cal. P.U.C. Sheet No.

18173-E

Cal. P.U.C. Sheet No.

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

(N)

(N)

Advice Letter No. 2118-E
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Issued by
DeAnn Hapner
Vice President
Regulatory Relations

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Sample Forms	18174,17251,16094,16546,18061, 17337,16759-E	(T)

RATE SCHEDULES

<u>SCHEDULE</u>	<u>TITLE OF SHEET</u>	<u>CAL P.U.C. SHEET NO.</u>
RESIDENTIAL RATES		
E-1	Residential Service	17754,15237,17051-E
EE	Service to Company Employees	15239-E
EM	Master-Metered Multifamily Service	17755,15241,15242,17053-E
ES	Multifamily Service	17756,15245,15246,17055-E
ESR	Residential RV Park and Residential Marina Service.....	17757,15249,15250,17057-E
ET	Mobilehome Park Service	17758,15253,15254,17059-E
E-7	Residential Time-of-Use Service	17060,17759,15257,17061-E
E-A7	Experimental Residential Alternate Peak Time-of-Use Service	17062, 17760,15260, 17063
E-8	Residential Seasonal Service Option	17761, 17065-E
E-9	Experimental Residential Time-of-Use Service for Low Emission Vehicle Customers	17066, 17762,17763,15267,15268,17067-E
EL-1	Residential CARE Program Service	17764,15274,17069-E
EML	Master-Metered Multifamily CARE Program Service	17765,15277,17071-E
ESL	Multifamily CARE Program Service	17766,15280,15281,17073-E
ESRL	Residential RV Park and Residential Marina CARE Program Service	17767,15284,15285,17075-E
ETL	Mobilehome Park CARE Program Service	17768,15289,15290,17077-E
EL-7	Residential CARE Program Time-of-Use Service	17078, 17769,15293,17079-E
EL-A7	Experimental Residential CARE Program Alternate Peak Time-of-Use Service.....	17080, 17770,15296,17081-E
EL-8	Residential Seasonal CARE Program Service Option.....	17771,17083-E
COMMERCIAL/INDUSTRIAL		
A-1	Small General Service	17772,17085-E
A-6	Small General Time-of-Use Service	17086, 17773,16481,17087-E
A-10	Medium General Demand-Metered Service	17774,15307,15308,16482,17089-E
A-T	Nondomestic Interruptible Service	11862-E
A-RTP	Experimental Real-Time-Pricing Service	17253,16483-E
A-15	Direct-Current General Service	17712,17090-E
E-19	Medium General Demand-Metered Time-of-Use Service	17091,17092,17093, 17775,17776,17777,15321,15322,15323,18037,18038,18039,18040,18041,15328,16414, 15330,17716,17717,17718,16416,16417,16418,16419,16420,16485,17094,17095,18042-E
E-20	Service to Customers with Maximum Demands of 1,000 Kilowatts or More	17097,17254,17719, 17720,17721,15348,15349,15350,15351,18043,18044,18045,18046,16430,15358, 17722,17723,17724,16432,16433,16434,16435,16436,16486,17099,17100,17101,1804 7-E
E-25	Restricted Variable-Peak-Period Time-of-Use Service to Water Agencies	17103, 17725,17726,17727,15376 to 15379,17104-E
E-36	Small General Service to Oil and Gas Extraction Customers	17728,17106-E
E-37	Medium General Demand-Metered Time-of-Use Service to Oil and Gas Extraction Customers	17107,17108,17729,15690,15691,15692,17109-E
ED	Experimental Economic Development Rate	16881,17110-E
E-CARE	CARE Program Service for Qualified Nonprofit Group-Living and Qualified Agricultural Employee Housing Facilities	15392-E

(Continued)