



SCHEDULE E-NET—NET ENERGY METERING SERVICE

(N)

**APPLICABILITY:** This net-metering schedule is applicable to a "small customer" (as defined in Rule 1) who uses a solar or wind turbine electrical generating facility, or a hybrid system of both, with a capacity of not more than 10 kilowatts that is located on the customer's premises, 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.

Availability of this schedule to eligible customer-generators will be on a first-come first-served basis and will be until such time as either: (1) the total rated generating capacity used by eligible customer-generators equals one-tenth of 1 percent of PG&E's aggregate eligible customer-generators' peak demand, or (2) when the combined total peak demand of all eligible customer generators served by all electric service providers, in PG&E's service territory, and by PG&E, furnishing net energy metering to eligible customer-generators in PG&E's territory equals one-tenth of 1 percent of the aggregate peak demand of those electric service providers, as required by Section 2827 of the California Public Utilities Code.

This service is not applicable to a Direct Access (DA) customer where the customer's ESP does not offer a net energy metering tariff.

**TERRITORY:** The entire territory served.

**RATES:** All rates charged under this schedule will be in accordance with the eligible customer-generator's otherwise-applicable residential or commercial rate schedule. An eligible customer-generator served under this schedule is responsible for all charges from its otherwise-applicable rate schedule including monthly customer and demand charges. 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).

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.

**SPECIAL CONDITIONS:**

- 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.

(N)

(Continued)



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

(N)

SPECIAL  
CONDITIONS  
(Cont'd.):

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.

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 later of the effective date of this tariff, or the date of final interconnection, and at each anniversary date thereafter, the 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.

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.

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.

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

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 (Tier 1) quantity, with any excess kWh generated, valued at the rate for kWh over the baseline quantity.

(N)

(Continued)



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

(N)

SPECIAL  
CONDITIONS  
(Cont'd.):

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

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 customer-generators may pay monthly or annually for the net energy consumed.

d) ESP Charges

If PG&E provides direct access metering, UDC consolidated billing, or ESP dual or consolidated billing support services for DA customer generators served under this rate or their ESPs, PG&E may recover the incremental costs related to net energy metering from the customer's ESP as follows:

Metering services: \$104 Metering Service Base charge, plus \$73/hour for on-site work, plus materials.

Billing: \$85/hour plus materials.

3. INTERCONNECTION: Prior to interconnection, the customer-generator must execute and comply with the requirements of PG&E's Interconnection Agreement for Net Energy Metering for Residential or Small Commercial Solar or Wind Electric Generating Facilities of 10 kW or Less, (Form 79-854). The eligible customer-generator must meet all applicable safety and performance standards established by the National Electrical Code, the Institute of Electrical and Electronics Engineers, and accredited testing laboratories such as Underwriters Laboratories and, where applicable rules of the California Public Utilities Commission regarding safety and reliability.

(N)



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

Canceling

Revised  
Original

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

17360-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 (1/01)  
(ATTACHED)

(T)

Advice Letter No. 2053-G  
Decision No.

Issued by  
**DeAnn Hapner**  
Vice President  
Regulatory Relations

Date Filed November 7, 2000  
Effective January 1, 2001  
Resolution No. \_\_\_\_\_

43104



TABLE OF CONTENTS—SAMPLE FORMS (Continued)			
FORM NO.	DATE SHOWN ON FORM	AGREEMENT/CONTRACT TITLE	CPUC SHEET NO.
<u>RULE 19 MEDICAL BASELINE QUANTITIES</u>			
62-3481	REV 2/97	Declaration of Eligibility for a Standard Medical Baseline Quantity.....	14347-E
79-708	1/86	Application for Additional Medical Baseline Quantities .....	9469-E
<u>RULES 19.1, 19.2 AND 19.3 CALIFORNIA ALTERNATE RATES FOR ENERGY</u>			
01-9077	REV 3/95	California Alternate Rates for Energy Single Family Program Application .....	13731-E
01-9285	REV 3/95	California Alternate Rates for Energy Submetered Program Application .....	13732-E
62-0156	REV 3/95	Application for PG&E's CARE Program for Qualified Nonprofit Group-Living Facilities .....	13733-E
62-1198	12/95	Application for California Alternate Rates for Energy (CARE) Program Qualified Agricultural Employee Housing Facilities .....	13903-E
<u>RULE 21 NONUTILITY-OWNED PARALLEL GENERATION</u>			
79-269	REV 6/90	Agreement for Parallel Operation – Nonutility-Owned Generation .....	11580-E
79-280	REV 7/90	Agreement for Installation or Allocation of Special Facilities for Parallel Operation of Nonutility-Owned Generation and/or Electrical Standby Service.....	11581-E
79-702	REV 7/90	Appendix to Form 79-280 – Detail of Special Facilities Charges .....	11582-E
79-703	REV 7/90	Appendix A – Insurance Agreement for Parallel Operation Nonutility-Owned Generation (Appendix to Form 79-269) .....	11583-E
<u>RULE 22 DIRECT ACCESS SERVICES</u>			
79-948	12/97	Energy Service Provider (ESP) Service Agreement	14948-E
<u>RESIDENTIAL</u>			
62-3309	5/84	Declaration of Eligibility for Baseline Quantities for Residential Rates .....	8606-E
79-744	10/88	Declaration of Eligibility for Baseline Quantities for Residential RV Parks .....	10629-E
79-763		Experimental Residential Dispatchable Peak Time-of-Use Service Letter of Understanding .....	11647-E
<u>NET ENERGY METERING</u>			
79-854	REV 1/01	Interconnection Agreement for Net Energy Metering for Residential and Small Commercial Solar or Wind Electric Generating Facilities of 10 kW or Less.....	17360-E

(Continued)

Advice Letter No. 2053-E  
Decision No.

Issued by  
**DeAnn Hapner**  
Vice President  
Regulatory Relations

Date Filed November 7, 2000  
Effective January 1, 2001  
Resolution No. \_\_\_\_\_



TABLE OF CONTENTS  
(Continued)

RATE SCHEDULES

SCHEDULE	TITLE OF SHEET	CAL P.U.C. SHEET NO.
<b>LIGHTING RATES</b>		
LS-1	PG&E-Owned Street and Highway Lighting .....	15393,17307,15395,15396,17111-E
LS-2	Customer-Owned Street and Highway Lighting .....	15398, 17308,15400 to 15403,17112-E
LS-3	Customer-Owned Street and Highway Lighting Electrolier Meter Rate .....	17309,15406,15407,17113-E
TC-1	Traffic Control Service .....	17310,15410,17114-E
OL-1	Outdoor Area Lighting Service.....	17311,15413,15414,17115-E
<b>OTHER</b>		
S	Standby Service.....	17312,17313, 17314,15419,16200,15421,16201,16202,15424,15425,16203,16204,16205,16206,16495-E
E-DEPART	Departing Customers .....	15905-E
E-EXEMPT	Competition Transition Charge Exemption.....	16068,17116,16070 to 16073-E
E-TD	Transmission and Distribution Bypass Deferral Rate .....	15694 to 15696,16496-E
E-TDI	Incremental Sales Rate for New Customers .....	15698,15699,16497-E
E-RRB	Rate Reduction Bonds Bill Credit and Fixed Transition Amount Charge .....	14798,14799-E
E-NEM	Net Energy Metering Service .....	
E-NET	Net Energy Metering Service.....	17357,17358,17359-E
E-BID	Price-Responsive Load Program .....	17333 to 17335-E
<b>AGRICULTURAL RATES</b>		
AG-1	Agricultural Power .....	17315,15446 to 15449,17117,17118, 17119,17120-E
AG-R	Split-Week Time-of-Use Agricultural Power .....	17121,17316,15456,15457,15458,15459,16499,17122,17123,17124,17125-E
AG-V	Short-Peak Time-of-Use Agricultural Power .....	17126,17317,15467,15468,15469,15470,16500, 17127,17128,17129,17130-E
AG-4	Time-of-Use Agricultural Power .....	17131,17318,17319,15479 to 15483,16501,17132,17133,17134,17135-E
AG-5	Large Time-of-Use Agricultural Power .....	17136,17320,17321,15492 to 15496,16502,17137,17138,17139,17140-E
AG-6	Large Agricultural Power.....	15502,17322,15504,15505,15506,17141-E
AG-7	Experimental Tiered Time-of-Use Agricultural Power .....	15701,17229,17323,17324,15705,15706,15707,15708,17142-E
AG-8	Deferral of Gas and Diesel Engine-Driven Pumping Facilities .....	15710,15711,16504-E
<b>POWER EXCHANGE RATES</b>		
PX	Power Exchange Energy Cost.....	17015,17016,17017,16744,16745,15521,15522-E
<b>DIRECT ACCESS</b>		
E-CREDIT	Revenue Cycle Services Credits .....	16567 to 16578-E
E-DASR	Direct Access Services Request Fees .....	14847-E
E-ESP	Service to Energy Service Providers .....	16109,15828,15829,15830,16221-E
E-ESPNSDF	Energy Service Provider Non-Discretionary Service Fee .....	16535,16536-E
E-EUS	End User Services.....	14852,14853,14854-E

(D)  
(N)

(Continued)



TABLE OF CONTENTS

	<u>CAL P.U.C. SHEET NO.</u>	
Title Page.....	8285-E	
Table of Contents:		
Rate Schedules .....	17363,17362-E	(T)
Preliminary Statements .....	17143,17325-E	
Rules, Maps, Contracts and Deviations .....	17023-E	
Sample Forms .....	17251,16094,16546,16196,17337,16759-E	

RATE SCHEDULES

<u>SCHEDULE</u>	<u>TITLE OF SHEET</u>	<u>CAL P.U.C. SHEET NO.</u>
<b>RESIDENTIAL RATES</b>		
E-1	Residential Service .....	17268,15237,17051-E
EE	Service to Company Employees .....	15239-E
EM	Master-Metered Multifamily Service .....	17269,15241,15242,17053-E
ES	Multifamily Service .....	17270,15245,15246,17055-E
ESR	Residential RV Park and Residential Marina Service .....	17271,15249,15250,17057-E
ET	Mobilehome Park Service .....	17272,15253,15254,17059-E
E-7	Residential Time-of-Use Service .....	17060,17273,15257,17061-E
E-A7	Experimental Residential Alternate Peak Time-of-Use Service .....	17062, 17274,15260, 17063-E
E-8	Residential Seasonal Service Option .....	17275, 17065-E
E-9	Experimental Residential Time-of-Use Service for Low Emission Vehicle Customers .....	17066, 17276,17277,15267,15268,17067-E
EL-1	Residential CARE Program Service .....	17278,15274,17069-E
EML	Master-Metered Multifamily CARE Program Service .....	17279,15277,17071-E
ESL	Multifamily CARE Program Service .....	17280,15280,15281,17073-E
ESRL	Residential RV Park and Residential Marina CARE Program Service .....	17281,15284,15285,17075-E
ETL	Mobilehome Park CARE Program Service .....	17282,15289,15290,17077-E
EL-7	Residential CARE Program Time-of-Use Service .....	17078, 17283,15293,17079-E
EL-A7	Experimental Residential CARE Program Alternate Peak Time-of-Use Service .....	17080, 17284,15296,17081-E
EL-8	Residential Seasonal CARE Program Service Option.....	17285,17083-E
<b>COMMERCIAL/INDUSTRIAL</b>		
A-1	Small General Service .....	17286,17085-E
A-6	Small General Time-of-Use Service .....	17086, 17287,16481,17087-E
A-10	Medium General Demand-Metered Service .....	17288,15307,15308,16482,17089-E
A-T	Nondomestic Interruptible Service .....	11862-E
A-RTP	Experimental Real-Time-Pricing Service .....	17253,16483-E
A-15	Direct-Current General Service .....	17289,17090-E
E-19	Medium General Demand-Metered Time-of-Use Service .....	17091,17092, 17093,17290,17291,17292,15321,15322,15323,15324,16411,16412,16413,15328,16414, 15330,17293,17294,17295,16416,16417,16418,16419,16420,16485,17094,17095,17096-E
E-20	Service to Customers with Maximum Demands of 1,000 Kilowatts or More .....	17097,17254,17296, 17297,17298,15348,15349,15350,15351,16426,16427,16428,15355,16429,16430,15358, 17299,17300,17301,16432,16433,16434,16435,16436,16486,17099,17100,17101,17102-E
E-25	Restricted Variable-Peak-Period Time-of-Use Service to Water Agencies .....	17103, 17302,17303,17304,15376 to 15379,17104-E
E-36	Small General Service to Oil and Gas Extraction Customers .....	17305,17106-E
E-37	Medium General Demand-Metered Time-of-Use Service to Oil and Gas Extraction Customers .....	17107,17108,17306,15690,15691,15692,17109-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)