

June 7, 2001

**Advice 2118-E-A**

(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 submit a supplemental filing for 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) X1 29, Rulemaking (R.) 99-10-025. 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). PG&E filed Advice 2118-E on May 21, 2001, and this supplemental filing supercedes the tariffs filed under Advice 2118-E.

**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, AB X1 29 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 industrial, agricultural, and other small customer generators. 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 kW generating facility size and limited to residential and small commercial customer-generators).

To comply with AB X1 29, and Decisions (D.) 00-11-001 and (D.) 00-12-037, and Rulemaking (R.) 99-10-025, we are clarifying our tariffs and also correcting typographical errors that, regrettably, occurred in Advice 2118-E. The tariff was clarified with respect to how demand will be measured. Demand for billing purposes on the otherwise applicable rate schedule will only be measured on energy consumed by the customer-generator, which is supplied by PG&E. "Demand" measured on energy generated by the customer-generator supplied to PG&E will not be considered. Metering that can distinguish between these different demands will be needed when the customer-generator selects an otherwise-applicable-rate schedule with demand components.

In an additional tariff clarification, power factor when applicable in the otherwise-applicable-rate schedule is now defined in terms of the customer-generator's past power factor history. The need for specifying power factor in this manner arises because, if in a given month the net usage and generation by a customer is low or zero, the power factor calculation loses meaning and can lead to a penalty for the customer. However, since a low measured power factor will, at times of high load, have meaning and will have a significant impact on the distribution system, PG&E still wishes to measure power factor, review its validity, and be allowed to include credits and penalties per the otherwise-applicable-rate schedule.

The corrections made to Rule 21 changes are corrections of typographical errors that were not picked up at the original filing. The original filing had "less than 10 kW" as the criteria for delineating the types of generating facilities. Since AB X1 29 refers to "10 kW or less", Rule 21 was corrected here to employ this same language.

Changes to the two interconnection agreements (*Interconnection Agreement for Net Energy Metering for Residential and Small Commercial Solar or Wind Electric Generating Facilities of 10 Kilowatts or Less*, Form 79-854; and *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) were corrections of typographical errors and processing related changes and have no impact on the terms and conditions of the agreements. These changes include updates to a distribution list, a change of the address used for all written notices to PG&E, a PG&E officer title below a PG&E signature line, some corrected section numbering on the Form 79-978 interconnection agreement, and a small clarifying phrase in the parenthetical at the end of Section 2.1 of the Form 79-978 interconnection agreement.

**Protests**

Anyone wishing to protest this filing may do so in writing, sent via U.S. mail or facsimile, by **June 27, 2001**, which is 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

Attachments

cc: Service List – R. 99-10-025



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 "Peak Rate Limiter" and "Average Rate Limiter" for general service otherwise-applicable-rate schedules, the "Demand Charge Limiter" for agricultural otherwise-applicable-rate schedules and all other demand charges will be based on the demand in kilowatts as measured only on the energy being consumed by the customer from PG&E. The power factor, when it applies on the otherwise-applicable-rate schedule, will be based on the average power factor over the past 12 billing months of operation prior to starting on E-NET. Customer-generators without 12 billing months of power factor history, will have their power factor estimated based on the nature of the connected facilities and their hours of operation. Power factor will be subsequently applied to the customer-generators bill until the customer-generator demonstrates to PG&E's satisfaction that adequate correction had been provided. PG&E will continue to monitor and review the power factor and if warranted, change the power factor correction on the customer-generator's bills. 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.

(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.

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)



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

SPECIAL  
CONDITIONS:  
(Cont'd.)

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

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), or PG&E's Interconnection Agreement for Net Energy Metering of Solar or Wind Electric Generating Facilities of Generating Facilities of 1,000 kW or less, other than Residential or Small Commercial Facilities of 10 kW or less (Form 79-978). 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.

(L)  
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(N)  
|  
(N)  
(T)  
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(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 10 kWh or less (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 10 kW or less 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.

18312-E  
18172-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 06/01)  
(ATTACHED)

(T)  
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(T)

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

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

Date Filed June 7, 2001  
Effective April 11, 2001  
Resolution No. \_\_\_\_\_



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

*Cancelling*

Revised  
 Original

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

18318-E  
 18173-E

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)  
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 (N)

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

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

Date Filed June 7, 2001  
 Effective April 11, 2001  
 Resolution No. \_\_\_\_\_



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
RULES 19.1, 19.2 AND 19.3 <u>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 GENERATING FACILITY INTERCONNECTIONS</u>			
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
79-973	REV 1/01	Generating Facility Interconnection Agreement.....	17837-E
79-974	REV 1/01	Application to Interconnect a Customer-Owned Generating Facility.....	17838-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 06/01	Interconnection Agreement for Net Energy Metering for Residential and Small Commercial Solar or Wind Electric Generating Facilities of 10 kW or Less.....	18317-E
79-978	06/01	Interconnection Agreement for Net Energy Metering of Solar or Wind Electric Generating Facilities 1,000 kW or less, other than Residential or Small Commercial Facilities of 10 kW or less.....	18318-E

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(Continued)



TABLE OF CONTENTS  
(Continued)  
RULES

RULE	TITLE OF SHEET	CAL P.U.C. SHEET NO.
1	Definitions .....	14855,16368,14857 to 14871,15564,14873,14874-E
2	Description of Service .....	11257,11896,11611,14079, 11261 to 11264,11498,11266,11267,11499,11269 to 11278,14055,11280 to 11283-
3	Application for Service .....	11714,14875-E
4	Contracts .....	13612-E
5	Special Information Required on Forms .....	11287,14192,11289-E
6	Establishment and Re-establishment of Credit.....	14193,14194-E
7	Deposits .....	11300,11301-E
8	Notices .....	14144,14145,13137,14146,13139-E
9	Rendering and Payment of Bills .....	16369,14877,14878,13986,14317,14318-E
10	Disputed Bills .....	11308 to 11310-E
11	Discontinuance and Restoration of Service .....	13140 to 13150,14080,13152-E
12	Rates and Optional Rates .....	16872,16873,16874-E
13	Temporary Service.....	15573,15574-E
14	Shortage of Supply and Interruption of Delivery .....	15526,15527-E
15	Distribution Line Extensions.....	15575 to 15578,17850 to 17852,15582 to 15583, ..... 17853 to 17855,15587 to 15588,17856,17857,15591,17655,17656,16986,15593-E
16	Service Extensions .....	15594,15595,14880, ..... 14881,15596 to 15598,16987,15600 to 15608,14254,13775,15609,15610-E
17	Meter Tests and Adjustment of Bills for Meter Error .....	14885,12050 to 12052-E
17.1	Adjustment of Bills for Billing Error .....	14886,12054-E
17.2	Adjustment of Bills for Unauthorized Use.....	14887,12056 to 12058-E
18	Supply to Separate Premises and Submetering of Electric Energy .....	14329,14330,13396,13276-E
19	Medical Baseline Quantities .....	14346,13839,13518-E
19.1	California Alternate Rates for Energy for Individual Customers and Submetered Tenants of Master-Metered Customers .....	16391,17010,16393,16394-E
19.2	California Alternate Rates for Energy for Nonprofit Group-Living Facilities.....	13728,17011,13589,13730,13591-E
19.3	California Alternate Rates for Energy for Qualified Agricultural Employee Housing Facilities .....	13899,17012,13901,13902-E
20	Replacement of Overhead with Underground Electric Facilities .....	11239 to 11241,16664,16665,15611,11244-E
21	Generating Facilities Interconnections .....	18315,18316,17786 to 17887,17889 to 17801,17803 to 17836-E
22	Direct Access Service.....	14888,14889,15565,14891 to 14901, 16448,14903,14904,16449,16235 to 16243,14913,16244,16245,16384,14917, 15833 to 15836,14920,14921,15568,14923,15569,14925,14926,15190,15191, 14929,14930,16385,16386,14933,16387,14935,14936,15192,14938 to 14946,16388-E
SERVICE AREA MAPS:		
	Boundary Lines .....	10534-E
Map A	Lassen Municipal Utility District/Surprise Valley.....	10423-E
Map B	Sacramento Municipal Utility District.....	4524-E
Map C	Modesto Irrigation/Turlock Irrigation District .....	4525-E
Map D	SoCalEdison.....	4671-E
Map E	Palo Alto .....	4672-E
Map F	Redding .....	13310-E
Map G	Healdsburg .....	13079-E
Map H	Lompoc .....	13372-E
Map I	Gridley.....	13780-E

LIST OF CONTRACTS AND DEVIATIONS:13819,13794,14452,12000,12001,13672,  
12003,13456,11435,12004,17021,12006,14162,12008,12009,11191,12010,11193,11194,11195,12969,  
15050,12012,13466,12014,12015,13296,12955,14221,12018 to 12026,13092,11211,12027,12028,16703,  
12030,12031,14035,11217,12032,12033,11219,12034,12035,12036,11223,11986,11987,17007,16898,1122  
7-E

(Continued)



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 .....	15393,17730,15395,15396,17111-E
LS-2	Customer-Owned Street and Highway Lighting .....	15398, 17731,15400 to 15403,17112-E
LS-3	Customer-Owned Street and Highway Lighting Electrolier Meter Rate .....	17732,15406,15407,17113-E
TC-1	Traffic Control Service .....	17733,15410,17114-E
OL-1	Outdoor Area Lighting Service .....	17734,15413,15414,17115-E
<b>OTHER</b>		
S	Standby Service .....	17735,17736, 17737,15419,16200,15421,16201,16202,15424,15425,16203,16204,16205,16206,1649
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-NET	Net Energy Metering Service .....	18311 to 18314-E
E-BID	Price-Responsive Load Program .....	17333 to 17335-E
E-EPS	Emergency Procurement Surcharge.....	17863-E
<b>AGRICULTURAL RATES</b>		
AG-1	Agricultural Power .....	17738,15446 to 15449,17117,17118, 17119,17120-E
AG-R	Split-Week Time-of-Use Agricultural Power .....	17121,17739,15456,15457,15458,15459,16499,17122,17123,17124,17125-E
AG-V	Short-Peak Time-of-Use Agricultural Power .....	17126,17740,15467,15468,15469,15470,16500, 17127,17128,17129,17130-E
AG-4	Time-of-Use Agricultural Power .....	17131,17741,17742,15479 to 15483,16501,17132,17133,17134,17135-E
AG-5	Large Time-of-Use Agricultural Power .....	17136,17743,17744,15492 to 15496,16502,17137,17138,17139,17140-E
AG-6	Large Agricultural Power .....	15502,17745,15504,15505,15506,17141-E
AG-7	Experimental Tiered Time-of-Use Agricultural Power .....	15701,17229,17746,17747,15705,15706,15707,15708,17142-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.....	17015,17844,17845,16744,16745,15521,15522-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-ESPNSF	Energy Service Provider Non-Discretionary Service Fee.....	16535,16536-E
E-EUS	End User Services .....	14852,14853,14854-E

(T)

(Continued)



TABLE OF CONTENTS

	<u>CAL P.U.C. SHEET NO.</u>	
Title Page .....	8285-E	
Table of Contents:		
Rate Schedules .....	18322,18321-E	(T)
Preliminary Statements .....	17143,18062-E	
Rules, Maps, Contracts and Deviations .....	18320-E	(T)
Sample Forms .....	18319,17251,16094,16546,18061, 17337,16759-E	(T)

RATE SCHEDULES

<u>SCHEDULE</u>	<u>TITLE OF SHEET</u>	<u>CAL P.U.C. SHEET NO.</u>
<b>RESIDENTIAL RATES</b>		
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
<b>COMMERCIAL/INDUSTRIAL</b>		
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 .....	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)