

PUBLIC UTILITIES COMMISSION

505 VAN NESS AVENUE  
SAN FRANCISCO, CA 94102-3298

Tel. No. (415) 703-1691



September 13, 2004

Advice Letter 2544-E

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

Subject: Revised Schedule LS-2

Dear Ms Smith:

Advice Letter 2544-E is effective September 1, 2004. A copy of the advice letter is returned herewith for your records.

Sincerely,

A handwritten signature in black ink that reads "Paul Clanon".

Paul Clanon, Director  
Energy Division



**Pacific Gas and  
Electric Company**

**Brian K. Cherry**  
Director  
Regulatory Relations

77 Beale Street, Room 1087  
San Francisco, CA 94105

*Mailing Address*  
Mail Code B10C  
P.O. Box 770000  
San Francisco, CA 94177

415.973.4977  
Internal: 223.4977  
Fax: 415.973.7226  
Cellular: 415.517.5067  
Internet: BKC7@pge.com

August 16, 2004

**ADVICE 2544-E**  
(Pacific Gas and Electric Company ID U39E)

**Subject: Revise Electric Streetlight Rate Schedule LS-2 to Add New LED  
Rate**

Public Utilities Commission of the State of California

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 a revision to electric rate Schedule LS-2--*Customer-Owned Street and Highway Lighting*, to add a Class A rate for a solid state 42 watt Light Emitting Diode (LED) streetlight.

**Background**

Currently, Schedule LS-2 includes rates for incandescent, mercury vapor, high pressure sodium vapor, low pressure sodium vapor, metal halide and induction lamps.

A number of cities located in the North Bay have been looking into ways to improve the energy efficiency of their streetlight systems. PG&E has been asked to establish a rate for a solid state 42 watt Light Emitting Diode (LED) lamp to illuminate streets, highways, and other publicly dedicated outdoor ways and places. Currently, there are no rates for LED lamps. PG&E anticipates there will be a substantial change-out program. The cities intend to use LED lamps in new and existing installations to benefit from their energy savings over current lamps.

The methodology for calculating the new rate is cost based and is identical to that used to develop the existing Schedule LS-2 rates. The proposed Schedule LS-2 Class A rate for a 42 watt LED lamp is \$1.575 per lamp per month and the proposed half-hour adjustment is \$0.064 per lamp per month. The methodology used to calculate the new rates is detailed in Attachment II.

**Protests (18 Days)**

Anyone wishing to protest this filing may do so by sending a letter by **September 3, 2004**, which is 18<sup>1</sup> days from 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, 4<sup>th</sup> Floor  
San Francisco, California 94102

Facsimile: (415) 703-2200  
E-mail: [jjr@cpuc.ca.gov](mailto:jjr@cpuc.ca.gov)

Protests also should be sent by e-mail and facsimile to Mr. Jerry Royer, Energy Division, as shown above, and by U.S. mail to Mr. Royer at the above address.

The protest should be sent via both e-mail and facsimile to PG&E on the same date it is mailed or delivered to the Commission at the address shown below.

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: [RxDd@pge.com](mailto:RxDd@pge.com)

**Effective Date**

In conjunction with changes to electric rates effective September 1, 2004, and in the absence of any protests, PG&E requests that this advice filing be made effective on **September 1, 2004**, so as not to have two versions of Schedule LS-2 going into effect on different days during the same month. The LS-2 tariff in this filing will contain the LS-2 rate changes from Advice 2533-E effective September 1, 2004, and will cancel and supersede that sheet.

---

<sup>1</sup> PG&E proposes a slightly less than 20-day protest period due to the Labor Day weekend and the limited revision to Schedule LS-2 in 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 letter filings can also be accessed electronically at:

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

*Brian K. Cherry/sv*

Director, Regulatory Relations

Attachments

**Attachment I  
Advice 2544-E**

<b>Cal P.U.C. Sheet No.</b>	<b>Title of Sheet</b>	<b>Cancelling Cal P.U.C. Sheet No.</b>
22101-E	Electric Rate Schedule LS-2 – Customer-Owned Street and Highway Lighting	21975-E
22102-E	Table of Contents – Rate Schedules (Continued)	22086-E
22103-E	Table of Contents	22095-E



**SCHEDULE LS-2—CUSTOMER-OWNED STREET AND HIGHWAY LIGHTING**

**APPLICABILITY:** This schedule is applicable service to lighting installations which illuminate streets, highways, and other publicly-dedicated outdoor ways and places where the customer usually owns the lighting fixtures, poles and interconnecting circuits. The customer's facilities must be of good construction acceptable to PG&E and in satisfactory condition to qualify for Class B or C rates.

**TERRITORY:** The entire territory served.

**RATES:** Total bundled service charges are calculated using the total rates shown below. Direct access charges shall be calculated in accordance with the paragraph in this rate schedule titled Billing.

Lamp rates include a Base Charge for the actual cost of operating and maintaining the various lamp sizes and types and an energy charge. The energy charge is included in the per lamp charges listed above. The Base Charge is assigned to distribution, and equals the difference between the total charge per lamp per month and the product of the energy charge per kWh and the kWh per month listed below.

<b>CLASS:</b>	<b>A</b>	<b>B</b>	<b>C</b>
	PG&E supplies energy and switching* service only.	PG&E supplies the energy, switching*, and maintenance service for lamps and glassware.	PG&E supplies the energy, switching*, and maintenance service for entire system including lamps and glassware.

Nominal Lamp Rating:		Per Lamp Per Month				
LAMP WATTS	kWh PER MONTH	AVERAGE INITIAL LUMENS**	Class A All-Night	Class B All-Night	Class C All-Night	A, B, and C Half-Hour Adjustment
<b>INCANDESCENT LAMPS:</b>						
58	20	600	\$2.175	-	-	\$0.091
92	31	1,000	3.275	\$6.232	\$6.689	0.141
189	65	2,500	6.674	9.626	10.083	0.295
295	101	4,000***	10.273	13.322	13.779	0.459
405	139	6,000***	14.072	17.617	18.074	0.632
620	212	10,000***	21.370	25.797	26.254	0.963
860	294	15,000***	29.567	34.702	-	1.336
<b>MERCURY VAPOR LAMPS:</b>						
40	18	1,300	\$1.975	-	-	\$0.082
50	22	1,650	2.375	-	-	0.100
100	40	3,500	4.175	\$5.079	\$5.536	0.182
175	68	7,500	6.974	7.823	8.280	0.309
250	97	11,000	9.873	10.749	11.207	0.441
400	152	21,000	15.371	16.302	16.760	0.691
700	266	37,000	26.768	28.520	28.977	1.209
1,000	377	57,000	37.865	39.316	39.773	1.713
<b>LIGHT EMITTING DIODE (LED) LAMPS: 120 VOLTS</b>						
42	14	837	\$1.575	-	-	\$0.064 (N)

\* Switching Service is closed to new installations.  
 \*\* Latest published information should be consulted on best available lumens.  
 \*\*\* Service for incandescent lamps over 2,500 lumens will be closed to new installations after September 11, 1978.

(Continued)



TABLE OF CONTENTS  
(Continued)

RATE SCHEDULES

SCHEDULE	TITLE OF SHEET	CAL P.U.C. SHEET NO.
COMMERCIAL/INDUSTRIAL (Continued)		
E-25	Restricted Variable-Peak-Period Time-of-Use Service to Water Agencies.....	21384,21770,22066, 21387,20746,15378,20747,21388,21399-E
E-31	Distribution Bypass Deferral Rate .....	20620,20621,20622-E
E-36	Small General Service to Oil and Gas Extraction Customers .....	21390,22067,21392,21393-E
E-37	Medium General Demand-Metered Time-of-Use Service to Oil and Gas Extraction Customers .....	21394,17108,21773,22068,21397,19315,21398,21399-E
ED	Experimental Economic Development Rate.....	20956,20957-E
E-CARE	CARE Program Service for Qualified Nonprofit Group-Living and Qualified Agricultural Employee Housing Facilities.....	21400-E
LIGHTING RATES		
LS-1	PG&E-Owned Street and Highway Lighting .....	21775,21776,22069,15395,15396,21404,21405-E
LS-2	Customer-Owned Street and Highway Lighting .....	22101,21976,22070,21409,15401,15402,15403,21410-E
LS-3	Customer-Owned Street and Highway Lighting Electrolier Meter Rate .....	22071,21412,15406,15407,21413-E
TC-1	Traffic Control Service .....	22072,21415,20763,21416-E
OL-1	Outdoor Area Lighting Service.....	21783,22073,21419,15413,20766,21420-E
OTHER		
S	Standby Service.....	21421,22074, 21423,21424,21425,21426,21427,21428,19282,16203,16204,16205,20771,19220,21429-E
E-DEPART	Departing Customers .....	15905-E
E-EXEMPT	Competition Transition Charge Exemption .....	16068,17116,16070,16071,16072,16073-E
E-LORMS	Limited Optional Remote Metering Services.....	20194-E
E-RRB	Rate Reduction Bonds Bill Credit and Fixed Transition Amount Charge .....	20773,14799-E
E-NET	Net Energy Metering Service .....	18711,18712,21430,21431-E
E-BIO	Net Energy Metering Service for Biogas Customer-Generators .....	20465 to 20469-E
E-EPS	Emergency Procurement Surcharges.....	21432 to 21438-E

(T)

(Continued)

Advice Letter No. 2544-E  
Decision No.

Issued by  
**Karen A. Tomcala**  
Vice President  
Regulatory Relations

Date Filed August 16, 2004  
Effective \_\_\_\_\_  
Resolution No. \_\_\_\_\_



TABLE OF CONTENTS

Title Page .....	CAL P.U.C. SHEET NO. 8285-E
Table of Contents:	
Rate Schedules .....	22103,22102,22085,21816-E (T)
Preliminary Statements .....	21813,21010,21644-E
Rules, Maps, Contracts and Deviations .....	22094-E
Sample Forms .....	19880,20472,21583,19236,20509,19572,21472-E

RATE SCHEDULES

SCHEDULE	TITLE OF SHEET	CAL P.U.C. SHEET NO.
<b>RESIDENTIAL RATES</b>		
E-1	Residential Service .....	21708,22028,21219,19910,21220,21221-E
E-2	Experimental Residential Time-of-Use Service .....	21222,21710,22029,21712,22030,21227,22031,21229,22032,21231,21614,21232,21233-E
E-3	Experimental Residential Critical Peak Pricing Service .....	21234,21716,22033,21718,22034,21239,22035,21241,22036,21243,21615,19896,21244-E
EE	Service to Company Employees .....	21245-E
EM	Master-Metered Multifamily Service .....	21722,22037,21248,20648,21249,21250-E
ES	Multifamily Service .....	21724,22038,21253,21254,21255,21256-E
ESR	Residential RV Park and Residential Marina Service .....	21726,22039,21259,20657,21260,21261-E
ET	Mobilehome Park Service .....	21728,22040,21264,21265,21266,21267-E
E-7	Residential Time-of-Use Service .....	21268,21730,22041,21271,21272,21273-E
E-A7	Experimental Residential Alternate Peak Time-of-Use Service .....	21274,21732,22042,21277,21278,21279-E
E-8	Residential Seasonal Service Option .....	21734,22043,21571,21283-E
E-9	Experimental Residential Time-of-Use Service for Low Emission Vehicle Customers .....	20891,21736,22044,21738,22045,21288,21289,21290,21291-E
EL-1	Residential CARE Program Service .....	21292,22046,21294,21295,21296-E
EML	Master-Metered Multifamily CARE Program Service .....	21297,22047,21299,21300,21301-E
ESL	Multifamily CARE Program Service .....	21742,22048,21304,21305,21306,21307-E
ESRL	Residential RV Park and Residential Marina CARE Program Service .....	21744,22049,21310,21311,21312,21313-E
ETL	Mobilehome Park CARE Program Service .....	21746,22050,21316,21317,21318,21319-E
EL-7	Residential CARE Program Time-of-Use Service .....	21320,21321,22051,21323,21324,21325-E
EL-A7	Experimental Residential CARE Program Alternate Peak Time-of-Use Service .....	21326,21327,22052,19783,21329,21330-E
EL-8	Residential Seasonal CARE Program Service Option .....	21331,22053,21572,21334-E
<b>COMMERCIAL/INDUSTRIAL</b>		
A-1	Small General Service .....	21751,22054,21337,21338,21339-E
A-6	Small General Time-of-Use Service .....	21340,21753,22055,21343,21344,21345-E
A-10	Medium General Demand-Metered Service .....	21346,22056,22057,22058,22059,21351,21352,21353,21354,21355-E
A-15	Direct-Current General Service .....	22060,21357-E
E-19	Medium General Demand-Metered Time-of-Use Service .....	21358,17092,21359,17900,21760,22061,21762,22062,21364,20932,20723,21365,18864,18039,20933,18865,16414,15330,20512,21764,22063,21368,20935,21369,20729,19805,21370,21371-E
E-20	Service to Customers with Maximum Demands of 1,000 Kilowatts or More .....	21372,21373,21766,22064,21377,21376,19314,20736,21378,18044,20942,18867,15356,21379,15358,20513,21768,22065,21382,20944,17101,20945,21383-E

(Continued)

Calculation of Streetlight Rates (Schedules LS-1, LS-2, OL-1)

Proposed 2004 ERRA	LS Lamps	OL Lamps	
Trans + TRBA Adj. Rate + TAC	0.00251	0.00251	per kwh
RELIABILITY SERVICES	0.00167	0.00167	
DISTRIBUTION	0.02813	0.02813	per kwh
PUBLIC PURPOSE PROGRAMS	0.00386	0.00525	per kwh
GENERATION	0.05863	0.05863	per kwh
DWR BOND	0.00493	0.00493	
NUCLEAR DECOMMISSIONING	0.00024	0.00024	per kwh
TOTAL (check)	ok	ok	per kwh
<b>Total Energy Rate</b>	<b>0.09997</b>	<b>0.10136</b>	per kwh
Energy Rates in Effect	9-01-04	9-01-04	
For Base Rates in Effect	7-15-93	7-15-93	

NOMINAL LAMP RATINGS		PACIFIC GAS AND ELECTRIC COMPANY RATES FOR SCHEDULES LS-1, LS-2 AND OL-1												
LAMP WATTS	AVERAGE MWs PER MONTH	SCHEDULE LS-2					SCHEDULE LS-1					HALF-HOUR ADJ.		
		A	B	C	A	B	C	D	E	F	F, J	OL-1	LS-1 & LS-2	OL-1
<b>MERCURY VAPOR LAMPS</b>														
40	1,300													
50	1,550	\$1,975												
100	3,500	\$4,175												
175	7,500	\$6,974	\$5,079	\$5,536										
250	11,000	\$9,873	\$7,823	\$8,280	\$9,904	\$8,952								
400	21,000	\$15,371	\$10,749	\$11,207	\$14,847	\$11,767	\$16,092	\$20,411	\$19,345					
700	37,000	\$26,788	\$16,302	\$16,760	\$20,890	\$18,535								
1,000	57,000	\$37,865	\$28,520	\$29,977	\$34,720	\$31,576								
			\$39,316	\$39,773										
<b>INCANDESCENT LAMPS</b>														
40	800	\$2,175												
50	1,000	\$3,275												
100	2,500	\$6,674	\$6,232	\$6,689	\$10,423	\$11,523								
150	4,000	\$10,373	\$9,626	\$10,083	\$14,917	\$16,182								
200	6,000	\$14,072	\$13,322	\$13,779	\$18,613	\$20,295								
300	10,000	\$21,370	\$17,617	\$18,074	\$22,908	\$24,459								
400	15,000	\$29,567	\$25,797	\$26,254										
			\$34,702											
<b>LOW PRESSURE SODIUM VAPOR LAMPS</b>														
35	4,800	\$2,275												
55	6,000	\$3,075												
90	13,500	\$4,875												
135	21,500	\$6,374												
180	33,000	\$7,974												
<b>HIGH PRESSURE SODIUM VAPOR LAMPS</b>														
35	2,150	\$1,675												
50	3,000	\$2,275												
70	5,000	\$3,075												
100	9,500	\$4,275	\$4,034	\$4,491	\$8,524	\$9,785	\$11,097	\$16,028	\$15,499					
150	16,000	\$6,174	\$5,261	\$5,718	\$9,785	\$11,241	\$12,401	\$17,483	\$16,986					
200	22,000	\$8,173	\$7,187	\$7,645	\$12,144	\$14,374	\$16,516	\$21,812	\$21,272					
50	3,000	\$2,975												
70	5,000	\$3,575												
100	9,500	\$4,874	\$4,533	\$4,991										
150	16,000	\$6,374	\$5,860	\$6,318										
200	22,000	\$7,974	\$7,074	\$7,532										
250	25,500	\$8,273	\$7,287	\$7,744										
310	37,000	\$12,072	\$11,214	\$11,671	\$16,225	\$17,240	\$18,625	\$23,960	\$23,138					
400	46,000	\$15,571	\$14,612	\$15,069	\$22,551	\$24,777	\$27,176	\$32,301	\$31,483					
<b>METAL HALIDE LAMPS</b>														
70	5,500	\$3,175												
100	8,500	\$4,275												
150	13,500	\$6,474												
175	21,000	\$7,974												
400	30,000	\$16,371												
1,000	90,000	\$38,864												
<b>INDUCTION LAMPS</b>														
85	4,000	\$3,175												
<b>LIGHT EMITTING DIODE (LED) LAMPS</b>														
42	837	\$1,575												
Energy Rate @ \$0.09997 per kWh LS-1 & LS-2														
Footing Charge @ \$0.10136 per kWh OL-1														
Per Pole Per Month \$0.880														
Applies 10-01-02														
Commences 10-11-01														



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

ABAG Power Pool  
Aglet Consumer Alliance  
Agnews Developmental Center  
Ahmed, Ali  
Alcantar & 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 ISO  
Calpine  
Calpine Corp  
Calpine Gilroy Cogen  
Cambridge Energy Research Assoc  
Cameron McKenna  
Cardinal Cogen  
Cellnet Data Systems  
Chevron Texaco  
Childress, David A.  
City of Glendale  
City of Healdsburg  
City of Palo Alto  
City of Redding  
CLECA Law Office  
Constellation New Energy  
CPUC  
Creative Technology  
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  
Dept of the Air Force  
DGS Natural Gas Services  
DMM Customer Services  
Downey, Brand, Seymour & Rohwer  
Duke Energy

Duke Energy North America  
Duncan, Virgil E.  
Dutcher, John  
Dynergy Inc.  
Ellison Schneider  
Energy Law Group LLP  
Energy Management Services, LLC  
Enron Energy Services  
Exeter Associates  
Foster, Wheeler, Martinez  
Franciscan Mobilehome  
Future Resources Associates, Inc  
G. A. Krause & Assoc  
GLJ Energy Publications  
Goodin, MacBride, Squeri, Schlotz &  
Grueneich Resource Advocates  
Hanna & Morton  
Heeg, Peggy A.  
Hogan Manufacturing, Inc  
House, Lon  
Imperial Irrigation District  
Integrated Utility Consulting Group  
International Power Technology  
J. R. Wood, Inc  
JTM, Inc  
Kaiser Cement Corp  
Korea Elec Power Corp  
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.  
New United Motor Mfg, Inc  
Norris & Wong Associates  
North Coast Solar Resources  
Northern California Power Agency  
PG&E National Energy Group  
Pinnacle CNG Company  
PITCO  
PPL EnergyPlus, LLC  
Price, Roy  
Product Development Dept  
Provost Pritchard  
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  
Sempra  
Sempra Energy  
Sequoia Union HS Dist  
SESCO  
Sierra Pacific Power Company  
Silicon Valley Power  
Simpson Paper Company  
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  
TJ Cross Engineers  
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