

PUBLIC UTILITIES COMMISSION

505 VAN NESS AVENUE  
SAN FRANCISCO, CA 94102-3298



April 23, 2009

**Advice Letter 3431-E**

Brian K. Cherry  
Vice President, Regulatory Relations  
Pacific Gas and Electric Company  
77 Beale Street, Mail Code B10C  
P.O. Box 770000  
San Francisco, CA 94177

**Subject: Revisions to Electric Rate Schedule LS-2 – Customer  
Owned Street and Highway Lighting Tariff for LED  
Technology**

Dear Mr. Cherry:

Advice Letter 3431-E is effective May 1, 2009.

Sincerely,

A handwritten signature in blue ink that reads "Julie A. Fitch".

Julie A. Fitch, Director  
Energy Division



**Brian K. Cherry**  
Vice President  
Regulatory Relations

77 Beale Street, Room 1087  
San Francisco, CA 94105

*Mailing Address*  
Mail Code B10C  
Pacific Gas and Electric Company  
P.O. Box 770000  
San Francisco, CA 94177  
Fax: 415.973.7226

March 4, 2009

**Advice 3431-E**

(Pacific Gas and Electric Company ID U 39 E)

Public Utilities Commission of the State of California

**Subject: Revisions to Electric Rate Schedule LS-2 – Customer Owned  
Street and Highway Lighting Tariff for LED technology**

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**

PG&E requests California Public Utilities Commission (CPUC) approval for revisions to electric rate schedule LS-2 in response to customer installations of energy efficient Light Emitting Diode (LED) street light technologies. PG&E also revises the tariff to remove one reference to “Class C” street lights within the Applicability section, correct a footnote reference by adding an asterisk onto the Class C column within the Rates section, and remove no longer relevant references to “Class B” street lights from Special Conditions 8a, 8b, 8b5 and 10. In addition, Special Condition 11 has been inserted to document PG&E’s right to verify energy use of any energy efficient lighting technology submitted for approval into this tariff.

**Background**

On March 3, 2008, the CPUC approved Advice 3200-E (effective February 29, 2008) allowing customers on LS-2 rate schedules to test energy efficient street lights prior to making permanent selection of replacement street light products.

The LED street light has grown in popularity and has been adopted by several customers. PG&E expects several more installations as Cities look for ways to reduce energy use and support environmental directives. The following proposal is made with the intention of accommodating current and future installations of various LED fixture sizes.

PG&E currently has a single 42 watt LED entry in the LS-2A rate schedule. Note that no customers presently have lights in service using this rate schedule entry.

PG&E proposes to replace the single 42 watt LED entry with ranges of LED lamp sizes in 5 watt increments between 0 watts and 400 watts (watts are measured based on total energy consumption of lamp and driver). Billing will be based on a single mid-point wattage value for kWh per month for each range. The mid-point wattage value was determined by subtracting 2.5 watts from the highest value in each range.

The kWh per month will be based on the hours of operation established in the tariff (4100 hours for a full year).

The average monthly energy use is calculated by using the same formula presently included in the LS-2 tariff. For LED lights the calculation is represented as follows: (Mid-point wattage for each range) x 4,100 hours/12 months/1000 = billing kWh/month, which is rounded to the nearest 1/10<sup>th</sup>.

Because of the unique characteristics of LED lighting, luminaire efficacy (expressed in lumens/watt) can vary greatly between different LED street lighting products. Lumen output is dependent on many factors, such as the type of LED used in the luminaire, drive current, and secondary optic design. Fixture thermal management (i.e., heat sinks and other heat removal mechanisms) can significantly affect LED light output, and varies between fixture designs. Currently, there is no industry-wide standardization for these fixture design factors. For these reasons, average lumen output is not included in the tariff for the LED wattage ranges.

The inclusion of the LED table within the LS2 rate will reduce or eliminate the need to submit Commission filings in response to specific customer LED street light installations.

Energy use of LED street lighting products can vary greatly and currently there is no industry-wide standardization for these fixtures. PG&E reserves the right to verify energy use of the fixture lamp and driver to protect the integrity of the LED rate design and until such standardization is achieved in the industry. This verification process is also applicable to other customer installations of new energy efficient lighting technologies where no industry standards exist. A footnote was added to the wattage column of the LED table to document this verification process.

Special Condition 11 has been inserted to document PG&E's right to verify energy use of any energy efficient lighting technology submitted for approval into this tariff. All existing special conditions have been renumbered accordingly.

Class C street lights remain closed to new installations and additional lamps in existing accounts. One reference to Class C street lights within the Applicability statement has been removed because it is no longer relevant.

The column heading for Class C street lights within the Rates section of the tariff is missing an asterisk to appropriately reference the footnote indicating that Class C street lights are closed to new installations and new lamps on existing circuits. Pursuant to the changes resulting from the 2007 General Rate Case, Class B street lights were eliminated from the LS2 tariff. For this reason, references to Class B street lights have been eliminated from Special Condition 8 – Maintenance, Access and Clearances, and from Special Condition 10 -- Street Light Lamps – Standard and Nonstandard Ratings.

### **Tariff Revisions**

Tariff sheets from Electric Rate Schedule LS-2 are attached to indicate the proposed revision to street light rates. PG&E requests that the rates become effective May 1, 2009. The rates shown in the attachment are based on energy charges in effect as of March 1, 2009.

This filing will not increase any rate of charge, cause the withdrawal of service, or conflict with any rate schedule or rule.

### **Protests**

Anyone wishing to protest this filing may do so by letter sent via U.S. mail, by facsimile or electronically, any of which must be received no later than **March 24, 2009**, which is 20 days after the date of this filing. Protests should be mailed to:

CPUC Energy Division  
Tariff Files, Room 4005  
DMS Branch  
505 Van Ness Avenue  
San Francisco, California 94102

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

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

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

Brian K. Cherry  
Vice President, Regulatory Relations  
Pacific Gas and Electric Company  
77 Beale Street, Mail Code B10C  
P.O. Box 770000  
San Francisco, California 94177

Facsimile: (415) 973-7226  
E-mail: [PGETariffs@pge.com](mailto:PGETariffs@pge.com)

**Effective Date**

PG&E requests that this advice filing become effective on **May 1, 2009**.

**Notice**

In accordance with General Order 96-B, Section IV, a copy of this advice letter is being sent electronically and via U.S. mail to parties shown on the attached list. Address changes to the General Order 96-B service list should be directed to Rose de la Torre at (415) 973-4716. Send all electronic approvals to [PGETariffs@pge.com](mailto:PGETariffs@pge.com). Advice letter filings can also be accessed electronically at: <http://www.pge.com/tariffs>

A handwritten signature in cursive script that reads "Brian K. Cherry / DC".

Vice President, Regulatory Relations

Attachments

# CALIFORNIA PUBLIC UTILITIES COMMISSION

## ADVICE LETTER FILING SUMMARY ENERGY UTILITY

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

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

Utility type:

ELC

GAS

PLC

HEAT

WATER

Contact Person: Daren Chan

Phone #: (415) 973-5361

E-mail: D1CT@pge.com

### EXPLANATION OF UTILITY TYPE

ELC = Electric

GAS = Gas

PLC = Pipeline

HEAT = Heat

WATER = Water

(Date Filed/ Received Stamp by CPUC)

Advice Letter (AL) #: **3431-E**

**Tier: 2**

Subject of AL: Revisions to Electric Rate Schedule LS-2 - Customer Owned Street and Highway Lighting Tariff for LED technology

Keywords (choose from CPUC listing): Street Lights

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

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

Does AL replace a withdrawn or rejected AL? If so, identify the prior AL: No

Summarize differences between the AL and the prior withdrawn or rejected AL:

Is AL requesting confidential treatment? If so, what information is the utility seeking confidential treatment for: No

Confidential information will be made available to those who have executed a nondisclosure agreement: N/A

Name(s) and contact information of the person(s) who will provide the nondisclosure agreement and access to the confidential information:

Resolution Required?  Yes  No

Requested effective date: **May 1, 2009**

No. of tariff sheets: 17

Estimated system annual revenue effect (%): N/A

Estimated system average rate effect (%): N/A

When rates are affected by AL, include attachment in AL showing average rate effects on customer classes (residential, small commercial, large C/I, agricultural, lighting).

Tariff schedules affected: Electric Rate Schedule LS-2

Service affected and changes proposed: N/A

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

**CPUC, Energy Division**

**Tariff Files, Room 4005**

**DMS Branch**

**505 Van Ness Ave., San Francisco, CA 94102**

**jnj@cpuc.ca.gov and mas@cpuc.ca.gov**

**Pacific Gas and Electric Company**

**Attn: Brian K. Cherry, Vice President, Regulatory Relations**

**77 Beale Street, Mail Code B10C**

**P.O. Box 770000**

**San Francisco, CA 94177**

**E-mail: PGETariffs@pge.com**

**ATTACHMENT 1  
Advice 3431-E**

<b>Cal P.U.C. Sheet No.</b>	<b>Title of Sheet</b>	<b>Cancelling Cal P.U.C. Sheet No.</b>
28182-E	ELECTRIC SCHEDULE LS-2 CUSTOMER-OWNED STREET AND HIGHWAY LIGHTING Sheet 1	27233-E
28183-E	ELECTRIC SCHEDULE LS-2 CUSTOMER-OWNED STREET AND HIGHWAY LIGHTING Sheet 2	28144-E
28184-E	ELECTRIC SCHEDULE LS-2 CUSTOMER-OWNED STREET AND HIGHWAY LIGHTING Sheet 3	28145-E
28185-E	ELECTRIC SCHEDULE LS-2 CUSTOMER-OWNED STREET AND HIGHWAY LIGHTING Sheet 4	28145-E
28186-E	ELECTRIC SCHEDULE LS-2 CUSTOMER-OWNED STREET AND HIGHWAY LIGHTING Sheet 5	28145-E
28187-E	ELECTRIC SCHEDULE LS-2 CUSTOMER-OWNED STREET AND HIGHWAY LIGHTING Sheet 6	28145-E
28188-E	ELECTRIC SCHEDULE LS-2 CUSTOMER-OWNED STREET AND HIGHWAY LIGHTING Sheet 7	27793-E
28189-E	ELECTRIC SCHEDULE LS-2 CUSTOMER-OWNED STREET AND HIGHWAY LIGHTING Sheet 8	28146-E
28190-E	ELECTRIC SCHEDULE LS-2 CUSTOMER-OWNED STREET AND HIGHWAY LIGHTING Sheet 9	24545-E

**ATTACHMENT 1  
Advice 3431-E**

<b>Cal P.U.C. Sheet No.</b>	<b>Title of Sheet</b>	<b>Cancelling Cal P.U.C. Sheet No.</b>
28191-E	ELECTRIC SCHEDULE LS-2 CUSTOMER-OWNED STREET AND HIGHWAY LIGHTING Sheet 10	26979-E*
28192-E	ELECTRIC SCHEDULE LS-2 CUSTOMER-OWNED STREET AND HIGHWAY LIGHTING Sheet 11	24547-E
28193-E	ELECTRIC SCHEDULE LS-2 CUSTOMER-OWNED STREET AND HIGHWAY LIGHTING Sheet 12	26980-E
28194-E	ELECTRIC SCHEDULE LS-2 CUSTOMER-OWNED STREET AND HIGHWAY LIGHTING Sheet 13	24549-E
28195-E	ELECTRIC SCHEDULE LS-2 CUSTOMER-OWNED STREET AND HIGHWAY LIGHTING Sheet 14	26981-E
28196-E	ELECTRIC SCHEDULE LS-2 CUSTOMER-OWNED STREET AND HIGHWAY LIGHTING Sheet 15	27969-E
28197-E	ELECTRIC TABLE OF CONTENTS Sheet 1	28170-E
28198-E	ELECTRIC TABLE OF CONTENTS RATE SCHEDULES Sheet 3	28172-E



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

Sheet 1

**APPLICABILITY:** This schedule is applicable to services for lighting installations which illuminate streets, highways, and other outdoor ways and places where the Customer is a Governmental Agency (Agency) and owns the lighting fixtures, poles and interconnecting circuits. This schedule is also applicable for service to those installations where service is initially established in the name of a developer who has installed such systems as required by an Agency and, where ownership of facilities and responsibility for service will be transferred to an Agency. Where the Agency does not accept facilities or where no transfer is intended, service will be provided under an otherwise appropriate rate schedule and rule. Class C is closed to new installations and additional lamps in existing accounts. (D)

**TERRITORY:** The entirety of PG&E's service territory.

**RATES:** The total monthly charge per lamp is equal to the sum of the facility charge and the energy charge. The monthly charge per lamp used for billing is calculated using unrounded facility and energy charges.

Monthly facility charges include the costs of owning, operating and maintaining the various lamp types and size. Monthly energy charges are based on the kWh usage of each lamp.

Monthly energy charges per lamp are calculated using the following formula: (Lamp wattage + ballast wattage) x 4,100 hours/12 months/1000 x streetlight energy rate per kilowatt hour (kWh). Ballast wattage = ballast factor x lamp wattage.

Total bundled monthly facility and energy charges are shown below.

The various ballast wattages used in the monthly energy charge calculations can be found in the Ballast Factor table following the monthly energy charges. Ballast factors are averaged within each grouping (range of wattages). The same ballast factor is applied to all of the lamps that fall within its watt range. Applicant or Customer must provide third party documentation where manufacturer's information is not available for rated wattage consumption before PG&E will accept lamps for this schedule.

Direct Access (DA) and Community Choice Aggregation (CCA) charges shall be calculated in accordance with Condition 13, Billing, below.

(Continued)



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

Sheet 2

RATES: (Cont'd.)

Facilities Charge Per Lamp Per Month

CLASS:

A

C\*\*

PG&E supplies energy and service only.

PG&E supplies the energy and maintenance service as described in Special Condition 8

\$0.187

\$2.688

Energy Charge Per Lamp Per Month  
 All Night Rates

Nominal Lamp Rating:

Per Lamp Per Month

LAMP WATTS	kWh per MONTH	AVERAGE INITIAL LUMENS*	Per Lamp Per Month	
			All Classes	Half-Hour Adjustment
<b>INCANDESCENT LAMPS:</b>				
58	20	600	\$2.441	\$0.111
92	31	1,000	\$3.784	\$0.172
189	65	2,500	\$7.934	\$0.361
295	101	4,000**	\$12.328	\$0.560
405	139	6,000**	\$16.966	\$0.771
620	212	10,000**	\$25.877	\$1.176
860	294	15,000**	\$35.886	\$1.631
<b>MERCURY VAPOR LAMPS:</b>				
40	18	1,300	\$2.197	\$0.100
50	22	1,650	\$2.685	\$0.122
100	40	3,500	\$4.882	\$0.222
175	68	7,500	\$8.300	\$0.377
250	97	11,000	\$11.840	\$0.538
400	152	21,000	\$18.553	\$0.843
700	266	37,000	\$32.468	\$1.476
1,000	377	57,000	\$46.017	\$2.092

(D)

\* 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.

\*\*\* Closed to new installations and new lamps on existing circuits, see Condition 8A.

(Continued)



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

Sheet 3

RATES: (Cont'd.)

HIGH PRESSURE SODIUM VAPOR LAMPS AT:

120 VOLTS

35	15	2,150	\$1.831	\$0.083
50	21	3,800	\$2.563	\$0.117
70	29	5,800	\$3.540	\$0.161
100	41	9,500	\$5.004	\$0.227
150	60	16,000	\$7.324	\$0.333
200	80	22,000	\$9.765	\$0.444
250	100	26,000	\$12.206	\$0.555
400	154	46,000	\$18.797	\$0.854

HIGH PRESSURE SODIUM VAPOR LAMPS AT:

240 VOLTS

50	24	3,800	\$2.929	\$0.133
70	34	5,800	\$4.150	\$0.189
100	47	9,500	\$5.737	\$0.261
150	69	16,000	\$8.422	\$0.383
200	81	22,000	\$9.887	\$0.449
250	100	25,500	\$12.206	\$0.555
310	119	37,000	\$14.525	\$0.660
360	144	45,000	\$17.577	\$0.799
400	154	46,000	\$18.797	\$0.854

LOW PRESSURE SODIUM VAPOR LAMPS:

35	21	4,800	\$2.563	\$0.117
55	29	8,000	\$3.540	\$0.161
90	45	13,500	\$5.493	\$0.250
135	62	21,500	\$7.568	\$0.344
180	78	33,000	\$9.521	\$0.433

METAL HALIDE LAMPS:

70	30	5,500	\$3.662	\$0.166
100	41	8,500	\$5.004	\$0.227
150	63	13,500	\$7.690	\$0.350
175	72	14,000	\$8.788	\$0.399
250	105	20,500	\$12.816	\$0.583
400	162	30,000	\$19.774	\$0.899
1,000	387	90,000	\$47.237	\$2.147

INDUCTION LAMPS:

40	14	2,200	\$1.709	\$0.078
55	19	3,000	\$2.319	\$0.105
80	27	4,500	\$3.296	\$0.150
85	30	4,800	\$3.662	\$0.166
120	42	8,500	\$5.067	\$0.230
150	51	10,900	\$6.225	\$0.283
165	58	12,000	\$7.079	\$0.322

(Continued)

Advice Letter No: 3431-E  
 Decision No.

Issued by  
**Brian K. Cherry**  
 Vice President  
 Regulatory Relations

Date Filed March 4, 2009  
 Effective May 1, 2009  
 Resolution No. \_\_\_\_\_



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

Sheet 4

RATES: (Cont'd.)

LIGHT EMITTING DIODE (LED) LAMPS: 120-240 VOLTS

LAMP WATTS****	kWh per MONTH*****	A Only	Half-Hour Adjustment		
0.00-5.00	0.9	\$0.110 (N)	\$0.005 (N)		(N)
5.01-10.00	2.6	\$0.317 (N)	\$0.014 (N)		
10.01-15.00	4.3	\$0.525 (N)	\$0.024 (N)		
15.01-20.00	6.0	\$0.732 (N)	\$0.033 (N)		
20.01-25.00	7.7	\$0.940 (N)	\$0.043 (N)		
25.01-30.00	9.4	\$1.147 (N)	\$0.052 (N)		
30.01-35.00	11.1	\$1.355 (N)	\$0.062 (N)		
35.01-40.00	12.8	\$1.562 (N)	\$0.071 (N)		
40.01-45.00	14.5	\$1.770 (N)	\$0.080 (N)		
45.01-50.00	16.2	\$1.977 (N)	\$0.090 (N)		
50.01-55.00	17.9	\$2.185 (N)	\$0.099 (N)		
55.01-60.00	19.6	\$2.392 (N)	\$0.109 (N)		
60.01-65.00	21.4	\$2.612 (N)	\$0.119 (N)		
65.01-70.00	23.1	\$2.820 (N)	\$0.128 (N)		
70.01-75.00	24.8	\$3.027 (N)	\$0.138 (N)		
75.01-80.00	26.5	\$3.235 (N)	\$0.147 (N)		
80.01-85.00	28.2	\$3.442 (N)	\$0.156 (N)		
85.01-90.00	29.9	\$3.650 (N)	\$0.166 (N)		
90.01-95.00	31.6	\$3.857 (N)	\$0.175 (N)		
95.01-100.00	33.3	\$4.065 (N)	\$0.185 (N)		
100.01-105.00	35.0	\$4.272 (N)	\$0.194 (N)		
105.01-110.00	36.7	\$4.480 (N)	\$0.204 (N)		
110.01-115.00	38.4	\$4.687 (N)	\$0.213 (N)		
115.01-120.00	40.1	\$4.895 (N)	\$0.223 (N)		
120.01-125.00	41.9	\$5.114 (N)	\$0.232 (N)		
125.01-130.00	43.6	\$5.322 (N)	\$0.242 (N)		
130.01-135.00	45.3	\$5.529 (N)	\$0.251 (N)		
135.01-140.00	47.0	\$5.737 (N)	\$0.261 (N)		
140.01-145.00	48.7	\$5.944 (N)	\$0.270 (N)		(N)

(Continued)

Advice Letter No: 3431-E  
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 Vice President  
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 Effective May 1, 2009  
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**ELECTRIC SCHEDULE LS-2**  
**CUSTOMER-OWNED STREET AND HIGHWAY LIGHTING**

Sheet 5

RATES: (Cont'd.)

LIGHT EMITTING DIODE (LED) LAMPS: 120-240 VOLTS (Cont'd.)

LAMP WATTS****	kWh per MONTH*****	A Only	Half-Hour Adjustment			(N)
145.01-150.00	50.4	\$6.152	(N)	\$0.280	(N)	(N)
150.01-155.00	52.1	\$6.359	(N)	\$0.289	(N)	(N)
155.01-160.00	53.8	\$6.567	(N)	\$0.299	(N)	(N)
160.01-165.00	55.5	\$6.774	(N)	\$0.308	(N)	(N)
165.01-170.00	57.2	\$6.982	(N)	\$0.317	(N)	(N)
170.01-175.00	58.9	\$7.189	(N)	\$0.327	(N)	(N)
175.01-180.00	60.6	\$7.397	(N)	\$0.336	(N)	(N)
180.01-185.00	62.4	\$7.617	(N)	\$0.346	(N)	(N)
185.01-190.00	64.1	\$7.824	(N)	\$0.356	(N)	(N)
190.01-195.00	65.8	\$8.032	(N)	\$0.365	(N)	(N)
195.01-200.00	67.5	\$8.239	(N)	\$0.375	(N)	(N)
200.01-205.00	69.2	\$8.447	(N)	\$0.384	(N)	(N)
205.01-210.00	70.9	\$8.654	(N)	\$0.393	(N)	(N)
210.01-215.00	72.6	\$8.862	(N)	\$0.403	(N)	(N)
215.01-220.00	74.3	\$9.069	(N)	\$0.412	(N)	(N)
220.01-225.00	76.0	\$9.277	(N)	\$0.422	(N)	(N)
225.01-230.00	77.7	\$9.484	(N)	\$0.431	(N)	(N)
230.01-235.00	79.4	\$9.692	(N)	\$0.441	(N)	(N)
235.01-240.00	81.1	\$9.899	(N)	\$0.450	(N)	(N)
240.01-245.00	82.9	\$10.119	(N)	\$0.460	(N)	(N)
245.01-250.00	84.6	\$10.326	(N)	\$0.469	(N)	(N)
250.01-255.00	86.3	\$10.534	(N)	\$0.479	(N)	(N)
255.01-260.00	88.0	\$10.741	(N)	\$0.488	(N)	(N)
260.01-265.00	89.7	\$10.949	(N)	\$0.498	(N)	(N)
265.01-270.00	91.4	\$11.156	(N)	\$0.507	(N)	(N)
270.01-275.00	93.1	\$11.364	(N)	\$0.517	(N)	(N)
275.01-280.00	94.8	\$11.571	(N)	\$0.526	(N)	(N)
280.01-285.00	96.5	\$11.779	(N)	\$0.535	(N)	(N)

(Continued)

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

Sheet 6

RATES: (Cont'd.)

LIGHT EMITTING DIODE (LED) LAMPS: 120-240 VOLTS (Cont'd.)

LAMP WATTS****	kWh per MONTH*****	A Only	Half-Hour Adjustment		
285.01-290.00	98.2	\$11.986	(N)	\$0.545	(N)
290.01-295.00	99.9	\$12.194	(N)	\$0.554	(N)
295.01-300.00	101.6	\$12.401	(N)	\$0.564	(N)
300.01-305.00	103.4	\$12.621	(N)	\$0.574	(N)
305.01-310.00	105.1	\$12.829	(N)	\$0.583	(N)
310.01-315.00	106.8	\$13.036	(N)	\$0.593	(N)
315.01-320.00	108.5	\$13.244	(N)	\$0.602	(N)
320.01-325.00	110.2	\$13.451	(N)	\$0.611	(N)
325.01-330.00	111.9	\$13.659	(N)	\$0.621	(N)
330.01-335.00	113.6	\$13.866	(N)	\$0.630	(N)
335.01-340.00	115.3	\$14.074	(N)	\$0.640	(N)
340.01-345.00	117.0	\$14.281	(N)	\$0.649	(N)
345.01-350.00	118.7	\$14.489	(N)	\$0.659	(N)
350.01-355.00	120.4	\$14.696	(N)	\$0.668	(N)
355.01-360.00	122.1	\$14.904	(N)	\$0.677	(N)
360.01-365.00	123.9	\$15.123	(N)	\$0.687	(N)
365.01-370.00	125.6	\$15.331	(N)	\$0.697	(N)
370.01-375.00	127.3	\$15.538	(N)	\$0.706	(N)
375.01-380.00	129.0	\$15.746	(N)	\$0.716	(N)
380.01-385.00	130.7	\$15.953	(N)	\$0.725	(N)
385.01-390.00	132.4	\$16.161	(N)	\$0.735	(N)
390.01-395.00	134.1	\$16.368	(N)	\$0.744	(N)
395.01-400.00	135.8	\$16.576	(N)	\$0.753	(N)

\*\*\*\* Wattage based on total consumption of lamp and driver. Customer may be required to provide verification of total energy consumption of lamp and driver upon request by PG&E.

\*\*\*\*\* Assumptions consistent with tariff, based on 4100 hours of operation for a full year; mid-point in range established by deducting 2.5 watts from highest wattage in range. The energy use calculation is: (high wattage in range-2.5 watts)x( 4,100 hours/12 months/1000)

(Continued)



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

Sheet 7

RATES: (Cont'd.)

Ballast Factors by Lamp Type and Wattage Range

(L)

<u>Watt Range</u>	<u>Ballast Factor</u>	<u>Watt Range</u>	<u>Ballast Factor</u>
<u>MERCURY VAPOR</u>		<u>HIGH PRESSURE SODIUM VAPOR</u>	
1 to 75	31.00%	<u>120 Volts</u>	
76 to 125	17.07%	1 to 40	25.44%
126 to 325	13.69%	41 to 60	22.93%
326 to 800	11.22%	61 to 85	21.25%
801 +	10.34%	86 to 125	20.00%
<u>LOW PRESSURE SODIUM VAPOR</u>		126 +	17.07%
1 to 40	75.61%	<u>240 Volts</u>	
41 to 75	54.32%	1 to 60	40.49%
76 to 110	46.34%	61 to 85	42.16%
111 to 160	34.42%	86 to 125	37.56%
161 +	26.83%	126 to 175	34.63%
<u>METAL HALIDE</u>		176 to 225	18.54%
1 to 85	25.44%	226 to 280	17.07%
86 to 200	20.39%	281 to 380	12.35%
201 to 375	22.93%	381 +	12.68%
376 to 700	18.54%		
701 +	13.27%		

(Continued)



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

Sheet 8

RATES: (Cont'd.)

**TOTAL ENERGY RATES**

(L)

Total Energy Charge Rate (\$ per kWh) \$0.12206

**UNBUNDLING OF TOTAL ENERGY CHARGES**

The total energy charge is unbundled according to the component rates shown below.

Energy Rate by Components (\$ per kWh)

<b>Generation</b>	\$0.08032
<b>Distribution</b>	\$0.02507
<b>Transmission*</b>	\$0.00650
<b>Transmission Rate Adjustments*</b>	(\$0.00096)
<b>Reliability Services*</b>	\$0.00027
<b>Public Purpose Programs</b>	\$0.00270
<b>Nuclear Decommissioning</b>	\$0.00028
<b>Competition Transition Charge</b>	\$0.00066
<b>Energy Cost Recovery Amount</b>	\$0.00231
<b>DWR Bond</b>	\$0.00491

\* Transmission, Transmission Rate Adjustments, and Reliability Service charges are combined for presentation on customer bills.

(Continued)



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

Sheet 9

SPECIAL  
 CONDITIONS:

1. **TYPE OF SERVICE:** This schedule is applicable to multiple lighting systems to which PG&E will deliver current at secondary voltage. Multiple current will normally be supplied at 120/240 Volt, single-phase. In certain localities PG&E may supply service from 120/208 Volt, wye-systems, polyphase lines in place of 240 Volt service. Unless otherwise agreed, existing series current will be delivered at 6.6 amperes. Single-phase service from 480 Volt sources and series circuits will be available in certain areas at the option of PG&E when this type of service is practical from PG&E's engineering standpoint. All currents and voltages stated herein are nominal, reasonable variations being permitted. (L)

New lights will normally be supplied as multiple systems. Series service to new lights will be made only when it is practical from PG&E's engineering standpoint to supply them from existing series systems.

2. **SERVICE REQUIREMENTS:**

a) **PHOTO CONTROLS**

This rate schedule is predicated on an electronic type photo controls meeting ANSI standard C136.10, with a turn on value of 1.0 foot-candles and a turn off value of 1.5 foot-candles. Electro-mechanical or thermal type photo controls are not acceptable for this rate schedule.

b) **LIGHT or POLE NUMBERING**

As agreed upon by the parties, pole number sequencing and coding for single lights or multiple lights on a single pole, shall be provided by either party and must conform to PG&E's billing system. Customer will provide physical numbering on lights or poles for LS-2 installations in order to facilitate accurate billing and inventory reporting. Numbering is required prior to energizing facilities. Numbering must be legible from the ground.

c) **SERVICE REQUESTS**

Service request shall include form 79-1007 for installation and energizing, and form 79-1008 for removing or de-energizing Customer's facilities.

(Continued)



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

Sheet 10

SPECIAL  
 CONDITIONS:  
 (Cont'd.)

3. **SERVICE INSTALLATION**

(L)

PG&E will establish service delivery points within close proximity to its distribution system.

- a) **Overhead:** In an overhead area, a single drop will be installed. For an overhead to underground system, service will be established in a PG&E box at the base of the riser pole or other agreed upon location within close proximity. PG&E will connect Customer's conductors at the service delivery point.
- b) **Underground:** In an underground area, service will be established at the nearest existing secondary box. Where no secondary facilities exist, a new service, transformer and secondary splice box, as required, will be installed in the shortest most practical configuration from the connection on the distribution line source. Customer shall install and own all facilities from the service delivery point on PG&E's system.
- c) **Customer Installation Responsibility:** Customer shall install, own and maintain all facilities beyond the service delivery point. For PG&E's serving facilities, Customer or Applicant, at its expense, shall perform all necessary trenching, backfill and paving, and shall furnish and install all necessary conduit and substructures (including substructures for transformer installations, if necessary, for street lights only) in accordance with PG&E's specifications. Riser material shall be installed by PG&E at the Customer's expense. Upon acceptance by PG&E, ownership of the conduit and substructures shall vest in PG&E. Customer shall provide rights of way as provided in electric Rule 16.
- d) **PG&E Installation Responsibility:** PG&E shall furnish and install the underground or overhead service conductor, transformers and necessary facilities to complete the service to the distribution line source, subject to the payment provisions of Special Condition 4. Only duly authorized employees of PG&E shall connect Customer's loads to, or disconnect the same from, PG&E's electrical distribution facilities.
- e) **Rearrangements:** Customer or Applicant shall pay, in advance, PG&E's estimated cost for any relocation or rearrangement of PG&E's existing street light or service facilities requested by Customer or Applicant and agreed to by PG&E.
- f) **Non-Conforming Load:** Applicant or Customer must be a governmental agency. Any load, other than the lighting loads listed in the Rate table above, is non conforming load. Non conforming load may be connected to customer circuits not to exceed 150 watts per circuit, or light for individually connected lights. Loads will conform to the requirements of Agreement form 79-1048 available on PG&E's web site, <http://www.pge.com/tariffs/EF.SHTML#EF> for electric forms. All other non conforming load connected to unmetered LS-2 facilities exceeding this limitation requires metering of the Customer's system at PG&E's service delivery point.

(Continued)



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

Sheet 11

SPECIAL  
 CONDITIONS:  
 (Cont'd.)

4. **NON REFUNDABLE PAYMENT FOR SERVICE INSTALLATION:** (L)
- a) Customer or Applicant shall pay in advance the estimated installed cost necessary to establish a service delivery point. A one-time revenue allowance will be provided based on Customer's kWh usage and the distribution component of the energy rate posted in the Rate Schedule for the lamps installed. The total allowance shall be determined by taking the annual equivalent kWh times the Distribution component of this rate divided by the cost of service factor shown in Electric Rule 15.C.
  - b) The allowance will only be provided where PG&E must install capital assets to connect load. No allowance will be provided where a simple connection is required. Only lights on a minimum 11 hour All Night (AN) schedule for permanent service shall be granted an allowance. Where Applicant received allowances based upon 11 hour AN operation, no billing adjustments, as otherwise provided for in Special Condition 7, shall be made for the first three (3) years following commencement of service.
- Line or service extensions in excess of the above shall be installed under special condition 9.
5. **TEMPORARY SERVICE:** Temporary services will be installed under electric Rule 13.
6. **ANNUAL OPERATING SCHEDULES:** The above rates for AN service assume 11 hours operation per night and apply to lamps which will be turned on and off once each night in accordance with a regular operating schedule selected by the Customer but not exceeding 4,100 hours per year.

(Continued)



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

Sheet 12

SPECIAL  
 CONDITIONS:  
 (Cont'd.)

- 7. **OPERATING SCHEDULES OTHER THAN ALL-NIGHT:** Rates for regular operating schedules other than full all-night will be the AN rate, plus or minus, respectively, the half-hour adjustment for each half-hour more or less than an average of 11 hours per night. This adjustment will apply only to lamps on regular operating schedules of not less than 1,095 hours per year, or 3 hours per night, and may be applied for 24-hour operation. Photo control devices used for more or less than AN must be approved by PG&E prior to adjustments in billing. (L)
  
- 8. **MAINTENANCE, ACCESS, CLEARANCES**
  - a) Maintenance
    - The C rates include all labor and material necessary for the inspection, cleaning, or replacement by PG&E of lamps and glassware. Replacement is limited to certain glassware such as is commonly used and manufactured in reasonably large quantities. A commensurate extra charge will be made for maintenance of glassware of a type entailing unusual expense. The Class C rate also includes all labor and material necessary for replacement by PG&E of photoelectric controls. Class C rates are closed to new installations and to additional lamps in existing accounts as of March 1, 2006. (T)
  - b) Under the grand fathered Class C rates, the following shall apply: (T)
    - 1) At Customer's request, where PG&E's resources permit, PG&E will paint poles for Customer on a time and material basis. This service will only be offered for poles that have been designed to be painted.
    - 2) PG&E will isolate any trouble in the Customer's system which has resulted in an outage or diminished light output.
    - 3) PG&E will make necessary repairs which do not require wiring replacement on accessible wiring between poles and on equipment and wiring in and on poles to keep the system in operating condition.
    - 4) PG&E will provide labor for the replacement of material such as ballasts, relays, fixtures, individual cable runs between poles where such runs are in conduit, and other individual parts of the system that are not capital items.
    - 5) Customer shall compensate PG&E for any material furnished by PG&E not included in 8.A. above. Customer must have been on Class C for this service. (D)
    - 6) PG&E shall not be responsible for excavation or any major replacement of circuits, conduits, poles, or fixtures owned by the Customer.
    - 7) Tree trimming is the responsibility of the Customer for installation of new lights or for maintaining lighting patterns of existing lights.

(Continued)



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

Sheet 13

SPECIAL  
 CONDITIONS:  
 (Cont'd.)

8. **MAINTENANCE, ACCESS, CLEARANCES** (Cont'd.): (L)

c) Access

Customer will maintain adequate access for PG&E's standard equipment used in maintaining facilities and for installation of its facilities. PG&E reserves the right to collect additional maintenance costs due to obstructed access or other conditions preventing PG&E from maintaining its equipment with standard operating procedures. Applicant or Customer shall be responsible for rearrangement charges as provided for in Special Condition 3.e.

d) Clearances

Customer applicant shall, at its expense, correct all access or clearance infractions, or pay PG&E its total estimated cost for PG&E to relocate facilities to a new location which is acceptable to PG&E. Failure to comply with corrective measures within a reasonable time may result in discontinuance of service in accordance with electric Rule 11. Applicant or Customer shall be responsible for tree trimming to maintain lighting patterns of existing lights.

(Continued)



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

Sheet 14

SPECIAL  
 CONDITIONS:  
 (Cont'd.)

- 9. **LINE EXTENSIONS** (L)
  - A. Where PG&E extends its facilities to street light installations in advance of subdivision projects where subdivision maps have been approved by local authorities, extensions will be installed under the provisions of electric Rule 15, except as noted below.
  - B. Where PG&E extends its facilities to street light installations in the absence of any approved subdivision maps, applicant shall pay PG&E's estimated cost, plus cost of ownership and applicable tax. Standard form contract 62-4527, Agreement to Perform Tariff Schedule Related Work, shall be used for these installations.
  
- 10. **STREET LIGHT LAMPS – STANDARD AND NONSTANDARD RATINGS:** The rates under Classes B and C are applicable to both standard and group replacement street lamps. Standard and group replacement street lamps have reference only to street lamps having wattage and operating life ratings within three percent of those specified in the EEI-NEMA Standards for Filament Lamps Used in Street Lighting. Where Class A service is supplied to lamps of other ratings than those specified in EEI-NEMA Standards an adjustment will be made in the lamp rates proportionate to the difference between the wattage of the lamps and the standard lamps of the same lumen rating.
  
- 11. **ENERGY EFFICIENT STREET LIGHTS:** Where Customer permanently installs energy efficient street lights and total energy use cannot be verified through industry standard test results and customer requests that the energy efficient street lights be added to this tariff, customer may be required to provide specific performance data on the total energy consumption of the fixture (which includes controls, lamp and ballast or driver) as requested by PG&E. (N)
 

|  
|  
|  
|  
(N)
  
- 12. **CONTRACT:** Except as otherwise provided in this rate schedule, or where lighting service is installed in conjunction with facilities installed under the provisions of Rules 15 or 16, standard form contract 62-4527, Agreement to Perform Tariff Schedule Related Work shall be used for installations, rearrangements or relocations. (T)
  
- 13. **POLE CONTACT AGREEMENT:** Where Customer requests to have a portion or all Customer owned street lighting facilities in contact with PG&E's distribution poles, a Customer-Owned Streetlights PG&E Pole Contact Agreement (Form 79 938) will be required. (T)

(Continued)



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

Sheet 15

SPECIAL  
 CONDITIONS:  
 (Cont'd.)

14. **BILLING:** This Rate Schedule is subject to PG&E's other rules governing (T) (L)  
 billing issues, as may be applicable. PG&E performs regular auditing as part of  
 this rate schedule.

**Limited testing of Energy Efficient Street Light Technology** will be allowed under this Rate Schedule where a light of the type and wattage of the fixture and lamp to be tested are not presently included in the rate tables. Such test installations are subject to approval by PG&E. Following approval, test installations will be billed at the customer's currently billed rate. Customer will provide a monthly inventory of streetlights that will be tested. The format and content of the inventory must be approved by PG&E. The Company reserves the right to audit customer. PG&E also reserves the right to collect the cost of any such audit from the customer. Testing is limited to existing street light fixtures and the total energy consumption per fixture must not exceed current energy use per fixture. Additional energy efficient street light fixtures installed will also be subject to billing under the current rate upon the approval of PG&E. The test period will not exceed 12 months.

**Bundled Service Customers** receive supply and delivery service solely from PG&E. The Customer's bill is based on the Total Rate set forth above.

**Transitional Bundled Service Customers** take transitional bundled service as prescribed in Rules 22.1 and 23.1, or take bundled service prior to the end of the six (6) month advance notice period required to elect bundled portfolio service as prescribed in Rules 22.1 and 23.1. These customers shall pay charges for transmission, transmission rate adjustments, reliability services, distribution, nuclear decommissioning, public purpose programs, the FTA (where applicable), the RRBMA (where applicable), the applicable Cost Responsibility Surcharge (CRS) pursuant to Schedule DA CRS or Schedule CCA CRS, and short-term commodity prices as set forth in Schedule TBCC.

**Direct Access (DA) and Community Choice Aggregation (CCA) Customers** purchase energy from their non-utility provider and continue receiving delivery services from PG&E. Bills are equal to the sum of charges for transmission, transmission rate adjustments, reliability services, distribution, public purpose programs, nuclear decommissioning, the FTA (where applicable), the RRBMA (where applicable), the franchise fee surcharge, and the applicable CRS. The CRS is equal to the sum of the individual charges set forth below. Exemptions to the CRS are set forth in Schedules DA CRS and CCA CRS.

	DA CRS	CCA CRS
Energy Cost Recovery Amount Charge (per kWh)	\$0.00231	\$0.00231
Power Charge Indifference Adjustment (per kWh)	(\$0.00062)	\$0.01934
DWR Bond Charge (per kWh)	\$0.00491	\$0.00491
CTC Charge (per kWh)	\$0.00066	\$0.00066
<b>Total CRS (per kWh)</b>	<b>\$0.00726</b>	<b>\$0.02722</b>

15. **DWR BOND CHARGE:** The Department of Water Resources (DWR) Bond Charge was imposed by California Public Utilities Commission Decision 02-10-063, as modified by Decision 02-12-082, and is property of DWR for all purposes under California law. The Bond Charge applies to all retail sales, excluding CARE and Medical Baseline sales. The DWR Bond Charge (where applicable) is included in customers' total billed amounts. (T)



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**PG&E Gas and Electric  
Advice Filing List  
General Order 96-B, Section IV**

Aglet	Department of the Army	Northern California Power Association
Agnews Developmental Center	Dept of General Services	Occidental Energy Marketing, Inc.
Alcantar & Kahl	Division of Business Advisory Services	OnGrid Solar
Ancillary Services Coalition	Douglas & Liddell	PPL EnergyPlus, LLC
Anderson & Poole	Douglass & Liddell	Pinnacle CNG Company
Arizona Public Service Company	Downey & Brand	Praxair
BART	Duke Energy	R. W. Beck & Associates
BP Energy Company	Duncan, Virgil E.	RCS, Inc.
Barkovich & Yap, Inc.	Dutcher, John	RMC Lonestar
Bartle Wells Associates	Ellison Schneider & Harris LLP	Recon Research
Blue Ridge Gas	Energy Management Services, LLC	SCD Energy Solutions
Braun & Associates	FPL Energy Project Management, Inc.	SCE
C & H Sugar Co.	Foster Farms	SESCO
CA Bldg Industry Association	Foster, Wheeler, Martinez	SMUD
CAISO	Franciscan Mobilehome	SPURR
CLECA Law Office	G. A. Krause & Assoc.	Santa Fe Jets
CSC Energy Services	GLJ Publications	Seattle City Light
	Goodin, MacBride, Squeri, Schlotz & Ritchie	Sempra Utilities
California Cotton Ginners & Growers Assn	Green Power Institute	Sequoia Union HS Dist
California Energy Commission	Hanna & Morton	Sierra Pacific Power Company
California League of Food Processors	Heeg, Peggy A.	Silicon Valley Power
California Public Utilities Commission	Hitachi	Smurfit Stone Container Corp
Calpine	Hogan Manufacturing, Inc.	Southern California Edison Company
Cameron McKenna	Imperial Irrigation District	St. Paul Assoc.
Cardinal Cogen	Innercite	Sunshine Design
Casner, Steve	International Power Technology	Sutherland, Asbill & Brennan
Cerox	Intestate Gas Services, Inc.	TFS Energy
Chamberlain, Eric	J. R. Wood, Inc.	Tabors Caramanis & Associates
Chevron Company	JTM, Inc.	Tecogen, Inc.
Chris, King	Los Angeles Dept of Water & Power	Tiger Natural Gas, Inc.
City of Glendale	Luce, Forward, Hamilton & Scripps LLP	Tioga Energy
City of Palo Alto	MBMC, Inc.	TransCanada
City of San Jose	MRW & Associates	Turlock Irrigation District
Clean Energy Fuels	Manatt Phelps Phillips	U S Borax, Inc.
Coast Economic Consulting	Matthew V. Brady & Associates	United Cogen
Commerce Energy	McKenzie & Associates	Utility Cost Management
Commercial Energy	Meek, Daniel W.	Utility Resource Network
Constellation	Merced Irrigation District	Utility Specialists
Constellation New Energy	Mirant	Vandenberg Air Force
Consumer Federation of California	Modesto Irrigation District	Verizon
Crossborder Energy	Morgan Stanley	Wellhead Electric Company
Davis Wright Tremaine LLP	Morrison & Foerster	Western Manufactured Housing Communities Association (WMA)
		White & Case
Day Carter Murphy	New United Motor Mfg., Inc.	eMeter Corporation
Defense Energy Support Center	Norris & Wong Associates	
Department of Water Resources	North Coast SolarResources	