

PUBLIC UTILITIES COMMISSION

505 VAN NESS AVENUE
SAN FRANCISCO, CA 94102-3298



December 2, 2014

Advice Letter 4411-E

Meredith Allen
Senior Director, Regulatory Relations
Pacific Gas and Electric Company
77 Beale Street, Mail Code B10C
P.O. Box 770000
San Francisco, California 94177

SUBJECT: Revisions to Electric Rate Schedule LS-2, Customer-Owned Street and HWY Lighting, for Comparable Street Light Technologies

Dear Ms. Allen:

Advice Letter 4411-E is effective as of November 25, 2014.

Sincerely,

A handwritten signature in cursive script that reads "Edward Randolph".

Edward Randolph
Director, Energy Division



Brian K. Cherry
Vice President
Regulatory Relations

Pacific Gas and Electric Company
77 Beale St., Mail Code B10C
P.O. Box 770000
San Francisco, CA 94177

Fax: 415-973-7226

May 5, 2014

Advice 4411-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*, for Comparable Street Light Technologies

Purpose

Pacific Gas and Electric Company (PG&E) requests California Public Utilities Commission (CPUC or Commission) approval for revisions to its Electric Rate Schedule LS-2 in response to current and future customer installation of new street light technologies. The proposed revision will eliminate the need to submit CPUC filings in response to specific customer installations utilizing street light technologies that are not established in Electric Rate Schedule LS-2.

PG&E has also identified a typographical error within Electric Rate Schedule LS-2 to be corrected in this Advice Letter. The revision is described below.

Background

On April 23, 2009, the CPUC approved Advice 3431-E, effective May 1, 2009, adding Light Emitting Diode (LED) street light technology to Electric Rate Schedule LS-2. LED luminaire efficacy can vary greatly between LED street lighting products, and there are no standard system wattages for LED luminaires within the lighting industry. For these reasons, the LED table accommodates LED lamp sizes in 5-watt increments between 0 and 400 watts. However, as originally proposed in 2009, the LED table applied exclusively to streetlights using LED lighting technologies.

PG&E now proposes to use the values within the LED table in Electric Rate Schedule LS-2 to bill customers who install comparable street light technologies that are not otherwise listed. The LED category will accommodate various lamp wattages and is well suited for billing comparable street light technologies.

To accomplish this change, PG&E proposes to revise the LED category title to reflect the inclusion of comparable street light technologies. This proposal will eliminate the need to submit CPUC filings in response to specific customer street light installations

and enable PG&E to establish billing for Electric Rate Schedule LS-2 in a timely manner.

Tariff Revisions

Tariff sheets from Electric Rate Schedule LS-2 are attached with the proposed revisions. The revisions include:

- Rates section, Sheet 1, Cancelled Cal. P.U.C. Sheet No. 28182-E, last paragraph: Replace “Condition 13” with “Condition 14”.
- Rates section, Sheets 5, 6 and 7, Cancelled Cal. P.U.C. Sheet Nos. 33822-E, 33823-E and 33824-E: Revise the LED category title to: “LIGHT EMITTING DIODE (LED) LAMPS OR COMPARABLE LIGHTING TECHNOLOGY (unless otherwise specified in this tariff)”.
- Special Conditions section, Sheet 10, Cancelled Cal. P.U.C. Sheet No. 29872-E: Update Special Condition 2.d (WATTAGE STICKERS REQUIRED) to reflect the LED title revision. Replace “LED” with “any lamps billed under LIGHT EMITTING DIODE (LED) LAMPS OR COMPARABLE LIGHTING TECHNOLOGY”.

This filing would not increase any current rate or 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, facsimile or E-mail, no later than May 27, 2014, which is 22 days after the date of this filing.¹ Protests must be submitted to:

CPUC Energy Division
ED Tariff Unit
505 Van Ness Avenue, 4th Floor
San Francisco, California 94102

Facsimile: (415) 703-2200
E-mail: EDTariffUnit@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.

¹ The 20-day protest period concludes on a Sunday and Monday is a State holiday; therefore, PG&E hereby moves this date to the following business day.

The protest shall also be sent to PG&E either via E-mail or U.S. mail (and by facsimile, if possible) 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

Any person (including individuals, groups, or organizations) may protest or respond to an advice letter (General Order 96-B, Section 7.4). The protest shall contain the following information: specification of the advice letter protested; grounds for the protest; supporting factual information or legal argument; name, telephone number, postal address, and (where appropriate) e-mail address of the protestant; and statement that the protest was sent to the utility no later than the day on which the protest was submitted to the reviewing Industry Division (General Order 96-B, Section 3.11).

Effective Date

PG&E requests that this Tier 2 advice filing become effective on regular notice, June 4, 2014 which is 30 calendar days after the date of filing.

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 PG&E at email address PGETariffs@pge.com. For changes to any other service list, please contact the Commission's Process Office at (415) 703-2021 or at Process_Office@cpuc.ca.gov. Send all electronic approvals to 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 Cherry /sw".

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 E)**

Utility type:

- ELC GAS
 PLC HEAT WATER

Contact Person: **Shirley Wong**

Phone #: **(415) 972-5505**

E-mail: **slwb@pge.com and PGETariffs@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) #: **4411-E**

Tier: 2

Subject of AL: **Revisions to Electric Rate Schedule LS-2, Customer-Owned Street and Highway Lighting, for Comparable Street Light Technologies**

Keywords (choose from CPUC listing): **Street Lights, Text Changes**

AL filing type: Monthly Quarterly Annual One-Time Other _____

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

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: **June 4, 2014**

No. of tariff sheets: 7

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 Schedule LS-2, Customer-Owned Street and Highway Lighting**

Service affected and changes proposed: **Propose to expand table for LED lighting technologies to include comparable street light technologies.**

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
 ED Tariff Unit
 505 Van Ness Ave., 4th Floor
 San Francisco, CA 94102
 E-mail: EDTariffUnit@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 4411-E**

Cal P.U.C. Sheet No.	Title of Sheet	Cancelling Cal P.U.C. Sheet No.
33883-E	ELECTRIC SCHEDULE LS-2 CUSTOMER-OWNED STREET AND HIGHWAY LIGHTING Sheet 1	28182-E
33884-E	ELECTRIC SCHEDULE LS-2 CUSTOMER-OWNED STREET AND HIGHWAY LIGHTING Sheet 5	33822-E
33885-E	ELECTRIC SCHEDULE LS-2 CUSTOMER-OWNED STREET AND HIGHWAY LIGHTING Sheet 6	33823-E
33886-E	ELECTRIC SCHEDULE LS-2 CUSTOMER-OWNED STREET AND HIGHWAY LIGHTING Sheet 7	33824-E
33887-E	ELECTRIC SCHEDULE LS-2 CUSTOMER-OWNED STREET AND HIGHWAY LIGHTING Sheet 10	29872-E
33888-E	ELECTRIC TABLE OF CONTENTS Sheet 1	33832-E
33889-E	ELECTRIC TABLE OF CONTENTS RATE SCHEDULES Sheet 5	33836-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.

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 14, Billing, below.

(T)

(Continued)



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

Sheet 5

RATES: (Cont'd.)

LIGHT EMITTING DIODE (LED) LAMPS OR COMPARABLE LIGHTING TECHNOLOGY (unless otherwise specified in this tariff): (T)

<u>LAMP WATTS****</u>	<u>kWh per MONTH*****</u>	<u>Energy Rates Per Lamp Per Month</u>	<u>Half-Hour Adjustment</u>
0.00-5.00	0.9	\$0.130	\$0.006
5.01-10.00	2.6	\$0.376	\$0.017
10.01-15.00	4.3	\$0.622	\$0.028
15.01-20.00	6.0	\$0.867	\$0.039
20.01-25.00	7.7	\$1.113	\$0.051
25.01-30.00	9.4	\$1.359	\$0.062
30.01-35.00	11.1	\$1.605	\$0.073
35.01-.40.00	12.8	\$1.851	\$0.084
40.01-45.00	14.5	\$2.096	\$0.095
45.01-50.00	16.2	\$2.342	\$0.106
50.01-55.00	17.9	\$2.588	\$0.118
55.01-60.00	19.6	\$2.834	\$0.129
60.01-65.00	21.4	\$3.094	\$0.141
65.01-70.00	23.1	\$3.340	\$0.152
70.01-75.00	24.8	\$3.586	\$0.163
75.01-80.00	26.5	\$3.831	\$0.174
80.01-85.00	28.2	\$4.077	\$0.185
85.01-90.00	29.9	\$4.323	\$0.197
90.01-95.00	31.6	\$4.569	\$0.208
95.01-100.00	33.3	\$4.815	\$0.219
100.01-105.00	35.0	\$5.060	\$0.230
105.01-110.00	36.7	\$5.306	\$0.241
110.01-115.00	38.4	\$5.552	\$0.252
115.01-120.00	40.1	\$5.798	\$0.264
120.01-125.00	41.9	\$6.058	\$0.275
125.01-130.00	43.6	\$6.304	\$0.287
130.01-135.00	45.3	\$6.549	\$0.298
135.01-140.00	47.0	\$6.795	\$0.309
140.01-145.00	48.7	\$7.041	\$0.320

(Continued)

Advice Letter No: 4411-E
 Decision No.

Issued by
Brian K. Cherry
 Vice President
 Regulatory Relations

Date Filed May 5, 2014
 Effective November 25, 2014
 Resolution No. _____



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

Sheet 6

RATES: (Cont'd.)

LIGHT EMITTING DIODE (LED) LAMPS OR COMPARABLE LIGHTING TECHNOLOGY (unless otherwise specified (T)
 in this tariff): (Cont'd.) (T)

<u>LAMP WATTS****</u>	<u>kWh per MONTH*****</u>	<u>Energy Rates Per Lamp Per Month</u>	<u>Half-Hour Adjustment</u>
145.01-150.00	50.4	\$7.287	\$0.331
150.01-155.00	52.1	\$7.533	\$0.342
155.01-160.00	53.8	\$7.778	\$0.354
160.01-165.00	55.5	\$8.024	\$0.365
165.01-170.00	57.2	\$8.270	\$0.376
170.01-175.00	58.9	\$8.516	\$0.387
175.01-180.00	60.6	\$8.762	\$0.398
180.01-185.00	62.4	\$9.022	\$0.410
185.01-190.00	64.1	\$9.268	\$0.421
190.01-195.00	65.8	\$9.513	\$0.432
195.01-200.00	67.5	\$9.759	\$0.444
200.01-205.00	69.2	\$10.005	\$0.455
205.01-210.00	70.9	\$10.251	\$0.466
210.01-215.00	72.6	\$10.497	\$0.477
215.01-220.00	74.3	\$10.742	\$0.488
220.01-225.00	76.0	\$10.988	\$0.499
225.01-230.00	77.7	\$11.234	\$0.511
230.01-235.00	79.4	\$11.480	\$0.522
235.01-240.00	81.1	\$11.725	\$0.533
240.01-245.00	82.9	\$11.986	\$0.545
245.01-250.00	84.6	\$12.231	\$0.556
250.01-255.00	86.3	\$12.477	\$0.567
255.01-260.00	88.0	\$12.723	\$0.578
260.01-265.00	89.7	\$12.969	\$0.590
265.01-270.00	91.4	\$13.215	\$0.601
270.01-275.00	93.1	\$13.460	\$0.612
275.01-280.00	94.8	\$13.706	\$0.623
280.01-285.00	96.5	\$13.952	\$0.634

(Continued)

Advice Letter No: 4411-E
 Decision No.

Issued by
Brian K. Cherry
 Vice President
 Regulatory Relations

Date Filed May 5, 2014
 Effective November 25, 2014
 Resolution No. _____



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

Sheet 7

RATES: (Cont'd.)

LIGHT EMITTING DIODE (LED) LAMPS OR COMPARABLE LIGHTING TECHNOLOGY (unless otherwise specified in this tariff): (Cont'd.) (T)
 (T)

<u>LAMP WATTS****</u>	<u>kWh per MONTH*****</u>	<u>Energy Rates Per Lamp Per Month</u>	<u>Half-Hour Adjustment</u>
285.01-290.00	98.2	\$14.198	\$0.645
290.01-295.00	99.9	\$14.444	\$0.657
295.01-300.00	101.6	\$14.689	\$0.668
300.01-305.00	103.4	\$14.950	\$0.680
305.01-310.00	105.1	\$15.195	\$0.691
310.01-315.00	106.8	\$15.441	\$0.702
315.01-320.00	108.5	\$15.687	\$0.713
320.01-325.00	110.2	\$15.933	\$0.724
325.01-330.00	111.9	\$16.179	\$0.735
330.01-335.00	113.6	\$16.424	\$0.747
335.01-340.00	115.3	\$16.670	\$0.758
340.01-345.00	117.0	\$16.916	\$0.769
345.01-350.00	118.7	\$17.162	\$0.780
350.01-355.00	120.4	\$17.407	\$0.791
355.01-360.00	122.1	\$17.653	\$0.802
360.01-365.00	123.9	\$17.913	\$0.814
365.01-370.00	125.6	\$18.159	\$0.825
370.01-375.00	127.3	\$18.405	\$0.837
375.01-380.00	129.0	\$18.651	\$0.848
380.01-385.00	130.7	\$18.897	\$0.859
385.01-390.00	132.4	\$19.142	\$0.870
390.01-395.00	134.1	\$19.388	\$0.881
395.01-400.00	135.8	\$19.634	\$0.892

**** 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)

Advice Letter No: 4411-E
 Decision No.

Issued by
Brian K. Cherry
 Vice President
 Regulatory Relations

Date Filed May 5, 2014
 Effective November 25, 2014
 Resolution No. _____



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

Sheet 10

**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.

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 requests for installation and energizing of Customer's facilities may be submitted on forms 79-1007 or 79-1107. Removal or de-energizing of Customer's facilities may be requested on form 79-1008.

d) **WATTAGE STICKERS REQUIRED**

A wattage sticker, visible from the ground, of a size and type acceptable to PG&E showing total fixture energy use in watts for any lamps billed under LIGHT
 EMITTING DIODE (LED) LAMPS OR COMPARABLE LIGHTING TECHNOLOGY, (T)
 nominal wattage rating (in watts) for induction lighting, or stickers meeting (T)
 requirements of ANSI Standard C136.15 for other lamp types must be installed on
 each fixture.

(Continued)



ELECTRIC TABLE OF CONTENTS

Sheet 1

TABLE OF CONTENTS

SCHEDULE	TITLE OF SHEET	CAL P.U.C. SHEET NO.	
	Title Page	33888-E	(T)
	Rate Schedules	33833,33834,33835, 33889 ,33837,33838,32705,31541,33839-E	(T)
	Preliminary Statements	33840,32706,30376,32544,32398,30846,33670,33138-E	
	Rules	33841,32425,33725-E	
	Maps, Contracts and Deviations.....	33253-E	
	Sample Forms.....	32777,32429,32726,33726,32504,33654,33209,32506,32648,32437,32508,32439-E	

(Continued)



ELECTRIC TABLE OF CONTENTS
RATE SCHEDULES

Sheet 5

SCHEDULE	TITLE OF SHEET	CAL P.U.C. SHEET NO.
	Rate Schedules	
	Lighting Rates	
LS-1	Pacific Gas and Electric Company-Owned Street and Highway Lighting26965,33812,26967*,33813-33818,30278,30805.30280-30286,31228*,33415-E	
LS-2	Customer-Owned Street and Highway Lighting.....	33883 ,33819, (T)
	33820,33821, 33884 , 33885 , 33886 ,29870,33825, 33887 ,29873,29874,29875,29876,29877,	(T)
33423-E	
LS-3	Customer-Owned Street and Highway Lighting Electrolier Meter Rate 33826,24553,26984,26985,33425-E	
OL-1	Outdoor Area Lighting Service.....	33827,33828,24563,24564,24565,33428-E
TC-1	Traffic Control Service	33830,24558,26988,33432-E

(Continued)

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

1st Light Energy	Douglass & Liddell	Occidental Energy Marketing, Inc.
AT&T	Downey & Brand	OnGrid Solar
Alcantar & Kahl LLP	Ellison Schneider & Harris LLP	Pacific Gas and Electric Company
Anderson & Poole	G. A. Krause & Assoc.	Praxair
BART	GenOn Energy Inc.	Regulatory & Cogeneration Service, Inc.
Barkovich & Yap, Inc.	GenOn Energy, Inc.	SCD Energy Solutions
Bartle Wells Associates	Goodin, MacBride, Squeri, Schlotz & Ritchie	SCE
Braun Blasing McLaughlin, P.C.	Green Power Institute	SDG&E and SoCalGas
CENERGY POWER	Hanna & Morton	SPURR
California Cotton Ginners & Growers Assn	In House Energy	San Francisco Public Utilities Commission
California Energy Commission	International Power Technology	Seattle City Light
California Public Utilities Commission	Intestate Gas Services, Inc.	Sempra Utilities
California State Association of Counties	K&L Gates LLP	SoCalGas
Calpine	Kelly Group	Southern California Edison Company
Casner, Steve	Linde	Spark Energy
Center for Biological Diversity	Los Angeles County Integrated Waste Management Task Force	Sun Light & Power
City of Palo Alto	Los Angeles Dept of Water & Power	Sunshine Design
City of San Jose	MRW & Associates	Tecogen, Inc.
Clean Power	Manatt Phelps Phillips	Tiger Natural Gas, Inc.
Coast Economic Consulting	Marin Energy Authority	TransCanada
Commercial Energy	McKenna Long & Aldridge LLP	Utility Cost Management
County of Tehama - Department of Public Works	McKenzie & Associates	Utility Power Solutions
Crossborder Energy	Modesto Irrigation District	Utility Specialists
Davis Wright Tremaine LLP	Morgan Stanley	Verizon
Day Carter Murphy	NLine Energy, Inc.	Water and Energy Consulting
Defense Energy Support Center	NRG Solar	Wellhead Electric Company
Dept of General Services	Nexant, Inc.	Western Manufactured Housing Communities Association (WMA)
Division of Ratepayer Advocates	North America Power Partners	