

PUBLIC UTILITIES COMMISSION
505 VAN NESS AVENUE



August 5, 2022

Advice Letters 6344-E, 6344-E-A, and 6344-E-B

Sidney Bob Dietz II
Director, Regulatory Relations
c/o Megan Lawson
Pacific Gas and Electric Company
77 Beale Street, Mail Code B13U
P.O. Box 770000
San Francisco, California 94177

SUBJECT:

Energy Division Rejection of Advice Letters 6344-E, 6344-E-A, and 6344-E-B: Proposed Amendments to PG&E LS-1 and TC-1 Rate Schedules and implementation of proposed changes pursuant to Section 9.2.3 of General Order 96-B.

Dear Mr. Dietz,

The Commission is in receipt of Tier 3 Advice Letters (AL) 6344-E, 6344-E-A, and 6344-E-B, which pertain to proposed retail tariff changes needed to accommodate transfer of certain unmetered street load assets owned by the City and County of San Francisco (CCSF) from wholesale to retail service. As explained in detail below, pursuant to Section 7.6.1 of CPUC General Order (GO) 96-B, this Disposition Letter informs PG&E of Energy Division's rejection of AL 6344-E and the two supplemental ALs. Energy Division rejects these ALs due to the fact that the requested changes are dependent solely on the eventual outcome of litigation at the Federal Energy Regulatory Commission (FERC), and therefore, because there is no current basis for the proposed tariff changes, the filing of this Advice Letter is clearly erroneous. We also note that a recent agreement between PG&E and CCSF obviates the need for any of the proposed tariff changes.

BACKGROUND

PG&E filed AL 6344-E on September 30, 2021, its first supplemental AL 6344-E-A on April 18, 2022, and its second supplemental AL 6344-E-B on May 9, 2022. Advice Letter 6344-E-B stated that "[t]his second supplemental advice letter replaces the original Advice Letter 6344-E and Supplemental Advice Letter 6344-E-A in their entirety¹." Therefore, this Disposition Letter primarily addresses AL 6344-E-B, in which PG&E explained:

This Advice Letter seeks approval of two new tariff rate classes for unique, decorative streetlights in San Francisco and also seeks to expand existing tariff service to include any of the City and County of San Francisco's (CCSF or San Francisco) unmetered

¹ Advice Letter 6344-E-B Second Supplemental: Proposed Amendments to PG&E LS-1 and TC-1 Rate Schedules and implementation of proposed changes pursuant to Section 9.2.3 of General Order 96-B (AL 6344-E-B) at 1 (May 9, 2022).

delivery points that transition to CPUC service without the need for metering in most circumstances.²

With this advice letter PG&E is notifying the Commission that it *intends* to begin offering service to the City and County of San Francisco under the terms and conditions described in the tariff changes included here for decorative streetlights and, as appropriate, for CCSF’s Legacy unmetered delivery points³. (emphasis added)

Since before the filing of the AL 6344-E on September 30, 2021, the change of service for these street load assets from wholesale to retail service was a contested issue between PG&E and CCSF at FERC. Despite the status of the issue at FERC, PG&E’s AL 6344-E requested retail tariff changes in time to accommodate changes in service on February 1, 2022, and AL 6344-E-A adjusted that effective date to July 12, 2022. AL 6344-E-B, however, while still requesting the changes to retail tariffs, indicated no intended effective date for the change in service for CCSF’s street load assets. Energy Division first suspended AL 6344-E on November 2, 2021, and continued that suspension on February 22, 2022. The second suspension would expire on Monday, August 29, 2022. The more complete chronology of filings, protests, replies, and suspensions is captured in the following table.

Advice Letter 6344-E Chronology

FILING/ISSUANCE	DATE
1. Advice Letter 6344-E: Proposed Amendments to PG&E LS-1 and TC-1 Rate Schedules and implementation of proposed changes pursuant to Section 9.2.3 of General Order 96-B.	September 30, 2021
2. Protest of the City and County of San Francisco to Pacific Gas and Electric Company Advice Letter 6344-E Proposed Amendments to PG&E LS-1 and TC-1 Rate Schedules and Implementation of Proposed Changes Pursuant to Section 9.2.3 of General Order 96-B	October 20, 2021
3. Pacific Gas and Electric Company’s Reply to the Protest from the City and County of San Francisco to Advice Letter 6344-E – Advice Letter Proposing Amendments to PG&E LS-1 and TC-1 Rate Schedules and implementation of proposed changes pursuant to Section 9.2.3 of General Order 96-B.	October 27, 2021
4. Advice Letter 6344-E Initial Suspension Notice	November 2, 2021
5. Supplement to Protest of the City and County of San Francisco to Pacific Gas and Electric Company Advice Letter 6344-E Proposed Amendments to PG&E LS-1 and TC-1 Rate Schedules and Implementation of Proposed Changes Pursuant to Section 9.2.3 of General Order 96-B	February 10, 2022
6. Pacific Gas and Electric Company’s Reply to the Supplemental Protest from the City and County of San Francisco to Pacific Gas and Electric Company Advice 6344-E – Proposed Amendments to PG&E LS-1 and TC-1 Rate Schedules and Implementation of Proposed Changes Pursuant to Section 9.2.3 of General Order 96-B.	February 18, 2022
7. Advice Letter 6344-E Further Suspension Notice	February 22, 2022

² Advice Letter 6344-E-B at 1.

³ Advice Letter 6344-E-B at 3.

8. Advice Letter 6344-E-A: Supplemental: Proposed Amendments to PG&E LS-1 and TC-1 Rate Schedules and implementation of proposed changes pursuant to Section 9.2.3 of General Order 96-B.	April 18, 2022
9. City and County of San Francisco Request to Allow Protests to Pacific Gas and Electric Company Advice Letter 6344-E-A	April 20, 2022
10. Denial of Request Not to Reopen Protest Period for Advice Letter 6344-E-A – Supplemental: Proposed Amendments to PG&E LS-1 and TC-1 Rate Schedules and implementation of proposed changes pursuant to Section 9.2.3 of General Order 96-B.	April 22, 2022
11. Verizon Wireless and AT&T Mobility Protest of Advice Letter 6344-E-A of Pacific Gas and Electric Company (U-39-E)	May 9, 2022
12. CTIA Protest of Pacific Gas and Electric Company (U-39-E) Advice Letter No. 6344-E-A	May 9, 2022
13. Advice Letter 6344-E-B: Second Supplemental: Proposed Amendments to PG&E LS-1 and TC-1 Rate Schedules and implementation of proposed changes pursuant to Section 9.2.3 of General Order 96-B.	May 9, 2022
14. Withdrawal of Protest of the City and County of San Francisco to Pacific Gas and Electric Company Advice Letter 6344-E	May 11, 2022
15. Denial of Request Not to Reopen Protest Period for Advice Letter 6344-E-B – Second Supplemental: Proposed Amendments to PG&E LS-1 and TC-1 Rate Schedules and implementation of proposed changes pursuant to Section 9.2.3 of General Order 96-B.	May 12, 2022
16. Pacific Gas and Electric Company’s Reply to the Protests from Verizon Wireless, AT&T Mobility and the CTIA to Advice 6344-E-A – (Supplemental: Proposed Amendments to PG&E LS-1 and TC-1 Rate Schedules and implementation of proposed changes pursuant to Section 9.2.3 of General Order 96-B)	May 16, 2022
17. Verizon Wireless and AT&T Mobility Protest of Advice Letter 6344-E-B of Pacific Gas and Electric Company (U-39-E)	May 31, 2022
18. CTIA Protest of Pacific Gas and Electric Company (U-39-E) Advice Letter No. 6344-E-B	May 31, 2022
19. Pacific Gas and Electric Company’s Reply to the Protests from Verizon Wireless, AT&T Mobility and the CTIA to Advice 6344-E-B – (Supplemental: Proposed Amendments to PG&E LS-1 and TC-1 Rate Schedules and implementation of proposed changes pursuant to Section 9.2.3 of General Order 96-B)	June 7, 2022

While the context of the contested matter at FERC was not clear in AL 6344-E-B, a number of other filings in response to AL 6344-E-A and AL 6344-E-B suggested that an agreement had been reached between CCSF and PG&E to postpone any attempt by PG&E to shift the relevant street load assets from wholesale to retail service until FERC issued an order on this contested matter at some point in the future. As a result, there is neither an identifiable need for PG&E to request changes to its CPUC retail tariffs, nor clarity on what changes could be needed, until litigation at FERC settles the matter.

FILINGS EXPLAINING THE CONTEXT AND SPECULATIVE NATURE OF AL 6344-E-B

PG&E filed AL 6344-E-B on May 9, 2022, the same day that protests of AL 6344-E-A (*i.e.*, PG&E’s first supplemental AL) were filed⁴. In its response to the AL 6344-E-A Protests on May 16, 2022, PG&E provided further context for the AL 6344-E-B filing. “[T]he relief sought by PG&E’s Advice Letter is narrowly limited to an expansion of existing PG&E Commission-approved tariffs to authorize PG&E to serve CCSF’s existing unmetered delivery points *if they ultimately transition to CPUC service at some point the future.*”⁵ (emphasis added)

Further, having protested the original AL 6344-E on October 20, 2021, CCSF formally withdrew its protests of ALs 6344-E and 6344-E-A on May 11, 2022⁶, which was two days after PG&E’s filing of AL 6344-E-B. In its withdrawal, CCSF explained:

...Advice Letter 3644-E-B [sic] does not state that PG&E intends to transition service to San Francisco’s unmetered loads from whole[sale] distribution service under the jurisdiction of the Federal Energy Regulatory Commission (“FERC”) to retail service under the CPUC’s jurisdiction, in February 2022, as Advice Letter 3644-E had stated, or in July 2022, as Advice Letter 3644-E-A had stated.⁷

While neither AL 6344-E-B nor the CCSF Withdrawal were clear on exactly when the relevant street load facilities would possibly be switched from wholesale to retail service, PG&E’s Reply to Protests of AL 6344-E-B provided further clarity on the status of the issue at FERC, the timing of the change from wholesale to retail service, and PG&E’s purported need for changes to its retail tariff:

...PG&E filed Supplemental AL 6344-E-B, which is intended to supersede its prior two versions of its advice letter and respond to concerns expressed in protests. Also relevant is a recent agreement between PG&E and CCSF to *postpone the potential transition of any existing CCSF unmetered delivery points currently served under PG&E’s Federal Energy Regulatory Commission (FERC)-jurisdictional Wholesale Distribution Tariff (WDT) until FERC issues an order resolving the dispute between the parties.*⁸ (emphasis added)

⁴ The two protests of AL 6344-E-A were Verizon Wireless and AT&T Mobility Protest of Advice Letter 6344-E-A of Pacific Gas and Electric Company (U-39-E) (May 9, 2022) and CTIA Protest of Pacific Gas and Electric Company (U-39-E) Advice Letter No. 6344-E-A (May 9, 2022). These Protests were filed by telecommunications interests concerned that the shifting of CCSF’s street load from wholesale to retail service would impact telecommunications devices that are mounted on, and receive power from, the street load assets at issue under licensing agreements with CCSF. The merits of these protests, and the same parties’ subsequent protests of AL 6344-E-B, are not addressed in this Disposition Letter, as the basis of the CPUC’s rejection of AL 6344-E-B moots the arguments made in said protests.

⁵ Pacific Gas and Electric Company’s Reply to the Protests from Verizon Wireless, AT&T Mobility and the CTIA to Advice 6344-E-A – (Supplemental: Proposed Amendments to PG&E LS-1 and TC-1 Rate Schedules and implementation of proposed changes pursuant to Section 9.2.3 of General Order 96-B) (“Reply to AL 6344-E-A Protests”) at 3. (May 16, 2022)

⁶ Withdrawal of Protest of the City and County of San Francisco to Pacific Gas and Electric Company Advice Letter 6344-E (May 11, 2022) (CCSF Withdrawal)

⁷ CCSF Withdrawal at 1. Throughout most of its Withdrawal filing, CCSF incorrectly referred to “AL 3644-E.” However, it is understood that the filing is in the context of AL 6344-E and the related supplemental ALs.

⁸ Reply to AL 6344-E-A Protests at 1-2.

Finally, as explained in a footnote in the Reply to Protests of AL 6344-E-B, “The hearing of that dispute at FERC, in Docket No. ER20-2878 et. al was recently set for March 2023, and, in the opinion of PG&E, it is unlikely that FERC will issue an order until sometime [in] 2024⁹.”

ADVICE LETTER DISPOSITION

PG&E has made it clear that the retail tariff changes it is requesting in AL 6344-E-B are based on PG&E’s desired outcome of litigation at FERC, which is not expected to be concluded for at least two years. It is not reasonable for PG&E to request the CPUC to make such tariff changes when such changes are not relevant to existing circumstances.

For any advice letter, according to General Order (GO) 96-B, “...the Industry Division will (1) reject any advice letter where the advice letter or workpapers are clearly erroneous.... and (2) reject without prejudice an advice letter whose disposition would require an evidentiary hearing or otherwise require review in a formal proceeding¹⁰.” This matter was carved out for litigation and is currently being litigated at FERC in consolidated FERC Docket Nos. ER22-619, ER22-620, and ER20-2878. Pursuant to GO 96-B, AL 6344-E-B is rejected, as the AL is based on no actual current need and is therefore “clearly erroneous.” While the outcome of a formal proceeding at FERC is needed to determine if and when any future retail tariff changes may be needed related to this matter, the language in GO 96-B appears to contemplate CPUC proceedings. In this situation, the rationale behind the General Order requiring rejection of an AL whose disposition would require a CPUC evidentiary hearing or formal proceeding counsels in favor of rejecting the AL without prejudice, so that PG&E can refile the AL if, and when, the outcome at FERC is more certain.

Sincerely,



Leuwam Tesfai
Deputy Executive Director for Energy and Climate Policy, CPUC

cc:

Robert Osborn, CPUC Communications Division Director

William K. Sanders, San Francisco Deputy City Attorney

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Kristin L. Jacobson, Outside Counsel for CTIA

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Brian Cragg, Counsel for Verizon Wireless

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Nelsonya Causby, Assistant Vice President – Senior Legal Counsel for AT&T Mobility

Email: lc6239@att.com

⁹ Pacific Gas and Electric Company’s Reply to the Protests from Verizon Wireless, AT&T Mobility and the CTIA to Advice 6344-E-B – (Supplemental: Proposed Amendments to PG&E LS-1 and TC-1 Rate Schedules and implementation of proposed changes pursuant to Section 9.2.3 of General Order 96-B) footnote 1 at 2. (June 7, 2022)

¹⁰ CPUC General Order 96-B, Section 7.6.1.



May 9, 2022

Advice 6344-E-B

(Pacific Gas and Electric Company ID U 39 E)

Public Utilities Commission of the State of California

Subject: Second Supplemental: Proposed Amendments to PG&E LS-1 and TC-1 Rate Schedules and implementation of proposed changes pursuant to Section 9.2.3 of General Order 96-B.

Purpose

Pacific Gas and Electric Company (PG&E) hereby submits this second supplemental submittal to modify and clarify the existing applicable rate schedules. This Advice Letter seeks approval of two new tariff rate classes for unique, decorative streetlights in San Francisco and also seeks to expand existing tariff service to include any of the City and County of San Francisco's (CCSF or San Francisco) unmetered delivery points that transition to CPUC service without the need for metering in most circumstances, as described in greater detail below.¹

This second supplemental advice letter replaces the original Advice Letter 6344-E and Supplemental Advice Letter 6344-E-A in their entirety. This supplemental letter contains modifications and clarifications intended to address concerns raised in prior protests.

Future CPUC Service To Existing Unmetered CCSF Non-Streetlight Delivery Points

PG&E and CCSF agree that there are approximately 1,400 existing CCSF unmetered non-streetlight loads served at wholesale and that these sites ("Legacy") will not require installation of a meter if they are transitioned to CPUC service so long as they meet the requirements described below.² To the extent that these Legacy CCSF unmetered delivery points transition to CPUC jurisdictional service, PG&E agrees to serve these Legacy CCSF unmetered delivery points under the applicable CPUC-jurisdictional tariffs

¹ Other than for service to new streetlights, all new retail service must be metered and will be served under existing CPUC tariffs.

² These Legacy delivery points do not include Distributed Antenna Systems (DAS), small cellular, and other third-party attachments served by CCSF.

for which PG&E seeks approval in this Advice Letter, using agreed-upon estimated usage in kilowatt-hours provided by CCSF to PG&E on a monthly basis.

As stated above, PG&E proposes to serve Legacy unmetered CCSF delivery points that transition to CPUC tariffs without requiring metering. For these Legacy delivery points, PG&E will allow like-for-like replacements, modifications, or repairs to existing traffic signal equipment that will provide service equivalent to the historical service provided that the replacement equipment: (i) will continue to serve the same geographic location or the same intersection in the case of a traffic controller and its related traffic signal facilities; and (ii) will be served by the existing PG&E facilities at the existing point of interconnection. Notwithstanding section (ii) above, this treatment for Legacy CCSF delivery points will be provided for replacement traffic signal equipment to be served at a different point of interconnection provided that: (a) the San Francisco Municipal Transportation Authority's (SFMTA) application for service identified the existing point of interconnection; and (b) PG&E required the SFMTA to obtain service from a different point of interconnection.

In all other circumstances for these Legacy unmetered delivery points, PG&E will require CCSF to install a meter pedestal or panel and conform to the standard provisions of PG&E's CPUC tariffs for metered loads to continue receiving PG&E service. Metered electric service for CCSF will be subject to the standard installation responsibilities set forth in PG&E's applicable rules and tariffs and PG&E will serve these loads under the applicable CPUC jurisdictional tariffs using the actual metered data.

Tariff Revisions

Revisions are proposed to the Electric Schedules A-1, TC-1 and LS-1 to offer service to certain decorative streetlights and to expand service to accommodate CCSF's Legacy unmetered delivery points previously served at wholesale. The affected tariff sheets are listed on the enclosed Attachment 1. For convenience of the reader, PG&E has included redline revisions in Attachment 4.

Electric Schedule LS-1 – PG&E Owned Streetlight and Highway Lighting

- Include two new rate classes for the decorative streetlights located in the Chinatown and Financial (Triangle) District of San Francisco. The streetlight facility charges for these specific fixtures are currently listed in CCSF Rate Schedules 6 (Chinatown Area) and Schedule 9 (Triangle District) as approved in Advice 5376-E-B - *Second Supplemental: 2019 Annual Electric True-Up - Consolidated Electric Rate Changes Effective March 1, 2019 (Attachment 2)*. PG&E is simply creating the two new rate classes under LS-1 and transferring the current streetlight facility charges under CCSF Rate Schedules 6 and Schedule 9, to Electric Schedule LS-1 Class G and H respectively.

- Upon complete transition of CCSF streetlight fixtures to PG&E retail rates, PG&E will retire the existing CCSF Rate Schedules that will no longer be relevant.

Electric Schedule A-1 – Small General Service

- In the Applicability Section, add language clarifying that non-streetlight, non-traffic control Legacy unmetered delivery points with fixed usage are eligible for Schedule A-1 under rate Option A: Non-Time-of-Use Rates. Certain unmetered delivery points with fixed usage were previously eligible for Schedule A-1 prior to this proposed tariff revision, however the proposed tariff language clarifies the current and future eligibility and treatment of unmetered customers with fixed usage under Schedule A-1.

Electric Schedule TC-1 – Traffic Control Service

- In the Applicability Section, add a provision for inclusion of service to Legacy unmetered CCSF traffic control installations.

Pursuant to Section 9.2.3 of G.O. 96-B, PG&E may provide service to a government agency under terms and conditions otherwise deviating from its tariffs then in effect. PG&E may begin such service without prior Commission approval, but the utility shall promptly submit an advice letter to notify the Commission of PG&E's provision of such service and of the rates, charges, terms and conditions under which the service is provided.

With this advice letter PG&E is notifying the Commission that it intends to begin offering service to the City and County of San Francisco under the terms and conditions described in the tariff changes included here for decorative streetlights and, as appropriate, for CCSF's Legacy unmetered delivery points. PG&E's existing tariffs and the tariff revisions proposed in this advice letter (for providing retail service to CCSF's unmetered Legacy delivery points) exclude service to third-party attachments, a separate issue that will be addressed in the near future. Should the Commission amend our proposal, PG&E will retroactively adjust the Customer's billing to align with the Commission resolution.

Protests

Pursuant to GO 96-B, General Rule 7.5.1, PG&E requests to maintain the original protest and comment period designated in Advice Letter 6344-E and not reopen the protest period.

Effective Date

Pursuant to G.O. 96-B, Rule 5.3, this advice letter was submitted with a Tier 3 designation. PG&E requests that this Tier 3 advice submittal become effective concurrent with original Advice Letter 6344-E. Advice Letter 6344-E was suspended for a period of up to 180

days, therefore there is no need to extend the effective date. The effective date of Advice Letter 6344-E remains suspended until Commission approval.

Notice

In accordance with G.O. 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 and the parties on the service list for the FERC WDT3. Address changes to the G.O. 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 submittals can also be accessed electronically at: <http://www.pge.com/tariffs/>.

/S/

Sidney Bob Dietz II
Director, Regulatory Relations

Attachment 1 – Tariffs

Attachment 2 – CCSF Current Rate Schedules as approved in Advice 5376-E-B

Attachment 3 – CCSF Intersection Inventory and Traffic Signal Energy Consumption

Attachment 4 – Redline Tariff Revisions

cc: Service List of FERC WDT3



ADVICE LETTER 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 ☐ WATER
☐ PLC ☐ HEAT

Contact Person: Kimberly Loo

Phone #: (415)973-4587

E-mail: PGETariffs@pge.com

E-mail Disposition Notice to: KELM@pge.com

EXPLANATION OF UTILITY TYPE

ELC = Electric GAS = Gas WATER = Water
PLC = Pipeline HEAT = Heat

(Date Submitted / Received Stamp by CPUC)

Advice Letter (AL) #: 6344-E-B

Tier Designation: 3

Subject of AL: Second Supplemental: Proposed Amendments to PG&E LS-1 and TC-1 Rate Schedules and implementation of proposed changes pursuant to Section 9.2.3 of General Order 96-B.

Keywords (choose from CPUC listing): Street Lights, Metering

AL Type: ☐ Monthly ☐ Quarterly ☐ Annual ☒ One-Time ☐ Other:

If AL submitted 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:

Confidential treatment requested? ☐ Yes ☒ No

If yes, specification of confidential information:

Confidential information will be made available to appropriate parties who execute a nondisclosure agreement. Name and contact information to request nondisclosure agreement/ access to confidential information:

Resolution required? ☒ Yes ☐ No

Requested effective date:

No. of tariff sheets: 13

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: See Attachment 1

Service affected and changes proposed¹: N/A

Pending advice letters that revise the same tariff sheets: N/A

¹Discuss in AL if more space is needed.

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

California Public Utilities Commission
Energy Division Tariff Unit Email:
EDTariffUnit@cpuc.ca.gov

Contact Name: Sidnev Bob Dietz II. c/o Megan Lawson
Title: Director, Regulatory Relations
Utility/Entity Name: Pacific Gas and Electric Company

Telephone (xxx) xxx-xxxx:
Facsimile (xxx) xxx-xxxx:
Email: PGETariffs@pge.com

Contact Name:
Title:
Utility/Entity Name:

Telephone (xxx) xxx-xxxx:
Facsimile (xxx) xxx-xxxx:
Email:

CPUC
Energy Division Tariff Unit
505 Van Ness Avenue
San Francisco, CA 94102

Clear Form

Cal P.U.C. Sheet No.	Title of Sheet	Cancelling Cal P.U.C. Sheet No.
53096-E	ELECTRIC SCHEDULE A-1 SMALL GENERAL SERVICE Sheet 1	50587-E
53097-E	ELECTRIC SCHEDULE LS-1 PG&E-OWNED STREET AND HIGHWAY LIGHTING Sheet 1	49684-E
53098-E	ELECTRIC SCHEDULE LS-1 PG&E-OWNED STREET AND HIGHWAY LIGHTING Sheet 2	50767-E
53099-E	ELECTRIC SCHEDULE LS-1 PG&E-OWNED STREET AND HIGHWAY LIGHTING Sheet 11	49688-E
53100-E	ELECTRIC SCHEDULE LS-1 PG&E-OWNED STREET AND HIGHWAY LIGHTING Sheet 13	49690-E
53101-E	ELECTRIC SCHEDULE LS-1 PG&E-OWNED STREET AND HIGHWAY LIGHTING Sheet 14	30282-E
53102-E	ELECTRIC SCHEDULE LS-1 PG&E-OWNED STREET AND HIGHWAY LIGHTING Sheet 17	49693-E
53103-E	ELECTRIC SCHEDULE TC-1 TRAFFIC CONTROL SERVICE Sheet 1	52760-E
53104-E	ELECTRIC SCHEDULE TC-1 TRAFFIC CONTROL SERVICE Sheet 3	26988-E
53105-E	ELECTRIC SCHEDULE TC-1 TRAFFIC CONTROL SERVICE Sheet 4	52761-E
53106-E	ELECTRIC TABLE OF CONTENTS Sheet 1	52878-E
53107-E	ELECTRIC TABLE OF CONTENTS Sheet 4	52989-E
53108-E	ELECTRIC TABLE OF CONTENTS Sheet 5	52766-E



**ELECTRIC SCHEDULE A-1
SMALL GENERAL SERVICE**

Sheet 1

APPLICABILITY: Schedule A-1 applies to single-phase and polyphase alternating-current service (for a description of these terms, see Section D of Rule 2*). This schedule is not available to residential or agricultural service for which a residential or agricultural schedule is applicable, except for single-phase and polyphase service in common areas in a multifamily complex (see Common-Area Accounts section). Customers that are otherwise eligible to take service on Schedule A-1, but are purchasing power to serve electric vehicle charging equipment, are not eligible to take service on this rate schedule.

Effective March 1, 2021, Schedule A-1 is available only to qualifying solar legacy TOU period customers, or to qualifying customers without interval meters that can be read remotely by PG&E, including unmetered customers with fixed usage, as specified in greater detail below. Unmetered customers with fixed usage will be billed under Option A: Non-Time-of-Use Rates. This tariff is currently scheduled to expire in 2027, at which time all customers must transition to new Schedule B-1 or other applicable new tariffs with later TOU hours as described below. The non-TOU version of Schedule A-1 is not available for solar legacy TOU period purposes after March 2021

(T)
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(T)

Effective November 1, 2012, Schedule A-1 is closed to customers with a maximum demand of 75 kW or greater for three consecutive months in the most recent twelve months, or with usage of 150,000 kWh per year or greater, and who have at least twelve (12) months of hourly usage data available. Eligibility for A-1 will be reviewed annually and migration of ineligible customers will be implemented once per year, on bill cycles each November, using the same procedures described below for TOU rates adopted in Decision 10-02-032 as modified by Decision 11-11-008.

Effective November 1, 2014, new customers establishing service on Schedule A-1 where a Smart Meter™ is already in place will be charged Schedule A-1 TOU rates.

Decision 18-08-013 adopted new TOU periods and seasonal definitions for all non-residential customer classes. Schedules A-1, A-6, A-10, E-19 and E-20 will be retained as legacy rate schedules with their legacy TOU periods until the rates with new TOU periods (B-1, B-6, B-10, B-19 and B-20) established in the same proceeding, become mandatory in March 2021. Certain qualifying customers with solar systems will be permitted to maintain their existing legacy TOU periods for a certain period of time, per Decision 17-01-006, as described in the Electric Rule 1, Definitions: Behind-the-Meter Solar Legacy TOU Period Eligibility Requirements.

The new rates with revised TOU periods adopted in D.18-08-013 were available on a voluntary opt-in basis for qualifying customers from November 2019 through February 2021.

* The Rules referred to in this schedule are part of PG&E's electric tariffs. Copies are available at PG&E's local offices and website at <http://www.pge.com/tariffs>

(Continued)



ELECTRIC SCHEDULE LS-1
PG&E-OWNED STREET AND HIGHWAY LIGHTING

Sheet 1

APPLICABILITY: This schedule is applicable to unmetered PG&E-owned and maintained lighting installations which illuminate publicly owned and operated streets, highways, and other outdoor ways and places and which generally utilize PG&E's distribution facilities under the provisions contained below. Rates of Class A through Class H service will be applicable as determined in Special Condition 4. (T)

TERRITORY: The entire territory served.

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 facilities for each Schedule LS-1 Class. 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 17, Billing, below.

(Continued)



ELECTRIC SCHEDULE LS-1
PG&E-OWNED STREET AND HIGHWAY LIGHTING

Sheet 2

RATES: (Cont'd.)

CLASS	Facilities Charge Per Lamp Per Month									(T)
	A	B	C	D	E	F	G	H1	H2	
	\$6.849	\$7.126	\$6.680	\$9.331	\$9.664	\$7.828	\$56.880 (N)	\$62.052 (N)	\$5.191 (N)	
LED Program Incremental Facility Charge	\$0.000		\$0.000	\$12.768	\$0.000	\$0.000				

Energy Charge Per Lamp Per Month
All Night Rates

LAMP WATTS	kWh per MONTH	AVERAGE INITIAL LUMENS	All Night Rate	Half-Hour Adjustment
INCANDESCENTLAMPS*:				
58	20	600	\$3.768	\$0.171
92	31	1,000	\$5.840	\$0.265
189	65	2,500	\$12.245	\$0.557
295	101	4,000	\$19.026	\$0.865
405	139	6,000	\$26.185	\$1.190
MERCURYVAPORLAMPS*:				
100	40	3,500	\$7.535	\$0.343
175	68	7,500	\$12.810	\$0.582
250	97	11,000	\$18.273	\$0.831
400	152	21,000	\$28.634	\$1.302
700	266	37,000	\$50.109	\$2.278
HIGHPRESSURESODIUMVAPORLAMPS***:				
120 Volts				
70	29	5,800	\$5.463	\$0.248
100	41	9,500	\$7.724	\$0.351
150	60	16,000	\$11.303	\$0.514
200	80	22,000	\$15.070	\$0.685
250	100	26,000	\$18.838	\$0.856
400	154	46,000	\$29.011	\$1.319
240 VOLTS				
70	34	5,800	\$6.405	\$0.291
100	47	9,500	\$8.854	\$0.402
150	69	16,000	\$12.998	\$0.591
200	81	22,000	\$15.259	\$0.694
250	100	25,500	\$18.838	\$0.856
400	154	46,000	\$29.011	\$1.319

* Closed to new installations per Advice 669-E, effective June 8, 1978.

** Closed to new mixed ownership installations. See Special Condition 4.

*** Closed to new installations for all Classes per Advice 6176-E, effective May 28, 2021.

(Continued)

Advice 6344-E-B
Decision

Issued by
Robert S. Kenney
Vice President, Regulatory Affairs

Submitted
Effective
Resolution

May 9, 2022



ELECTRIC SCHEDULE LS-1
PG&E-OWNED STREET AND HIGHWAY LIGHTING

Sheet 11

SPECIAL
CONDITIONS:

(Cont'd)

4. DESCRIPTION OF SERVICE PROVIDED:

The following describes lighting facilities only. Service connection and lighting installation responsibilities and payments, are described in special conditions 7, 8 and 9.

PG&E provides several Classes (A, B, C, D, E, F, G and H) of LS-1 facilities. The Classes enable fair distribution of facility charges in correlation with PG&E's cost to maintain each Class. Once installed, PG&E maintains full ownership and maintenance responsibility for all Classes of LS-1. (T)

Only equipment included in PG&E's current standards are eligible for installation under LS-1, except as addressed in Special Condition 12. Current standards are available through PG&E's Service Planning application process.

Class A: Applicable to standard non-decorative fixtures (the entire lighting unit that includes the lamp, if applicable) installed on a PG&E wood distribution pole for illumination of public ways. PG&E provides its standard fixture, control facility, and standard 30" bracket on its existing wood distribution pole. There is no installation charge for this Class for standard (non-decorative) LED fixtures.

Class B: Closed to new installations per Advice 688-E, effective September 11, 1978. This Class is for streetlight installations for which the Customer has paid the estimated installed cost of the fixture, standard 30" bracket and control facilities.

(Continued)



ELECTRIC SCHEDULE LS-1
PG&E-OWNED STREET AND HIGHWAY LIGHTING

Sheet 13

SPECIAL
CONDITIONS:
(Cont'd.)

4. DESCRIPTION OF SERVICE PROVIDED: (Cont'd.)

Class G: Applicable to decorative streetlight fixtures and poles located in the Chinatown area of San Francisco, specifically on Grant Street between Bush Street and Broadway Street. PG&E provides ornamental multi-colored "Dragon Light" luminaires with 250 watt HPSV lamps installed on ornamental poles. Customer is responsible for all further costs, see Special Condition 9.

(N)

Class H1: Applicable to decorative streetlight fixtures and poles located in the Financial District of San Francisco, specifically bounded by Market Street, Mason Street and Sutter Street. PG&E provides ornamental "triangle" type luminaires with 150 watt HPSV lamps, necessary support arms, and control facilities installed on ornamental steel poles. Customer is responsible for all further costs, see Special Condition 9.

Class H2: Applicable to decorative streetlight fixtures and poles located in the Financial District of San Francisco, specifically bounded by Market Street, Mason Street and Sutter Street. PG&E provides ornamental "triangle" type luminaires with 150 watt HPSV lamps. The Class considers that facility charges for the pole are paid through the primary fixture which is under Class H1.

(N)

5. RELOCATION, REARRANGEMENT OR MODIFICATION OF FACILITIES:

For any relocation, rearrangement, or modification of PG&E's existing streetlight or service facilities at the request of the Customer and agreed to by PG&E, Customer shall pay PG&E, in advance, PG&E's estimated total cost of the relocation, rearrangement, or modification. This shall include, but is not limited to, fixture changes.

6. SERVICE REQUESTS: Service requests shall be made through PG&E's Service Planning organization and shall include form 79-1007 (*Request to Install or Energize Streetlight Schedules LS-1, LS-2, OL-1*) or 79-1008 (*Request to De-Energize or Remove Streetlights LS-1, LS-2, OL-1*) for installations, removals, relocations, rearrangements, modifications, energizing and de-energizing of streetlight facilities.

(L)
(L)
(Continued)



ELECTRIC SCHEDULE LS-1
PG&E-OWNED STREET AND HIGHWAY LIGHTING

Sheet 14

SPECIAL
CONDITIONS:
(Cont'd.)

7. SERVICE and LIGHTING INSTALLATION

RESPONSIBILITIES. The 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 light service and circuits, in accordance with PG&E's specifications. Upon acceptance by PG&E, ownership of the conduit and substructures will automatically transfer to PG&E. Riser material is installed by PG&E at the Customer's expense. Tree trimming is the responsibility of the Applicant.

PG&E will furnish and install the underground or overhead service conductor, transformers and necessary facilities to complete the service from the distribution line source subject to the payment provision of special condition 8.

PG&E will establish service delivery points in close proximity to its distribution system as follows:

OVERHEAD: a) In an overhead area - a single drop will be installed; b) for an overhead to underground system, service will be established in a PG&E box at the base of the pole, or directly to a single light or to the first light of a multiple circuit based on PG&E's standard design, in the shortest most practical configuration from the connection on the distribution line source.

UNDERGROUND: For 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.

The Customer shall provide rights of way, clear route and access acceptable to PG&E in accordance with the provisions of Electric Rule 16, and Special Condition 11 below.

Line or service extensions not conforming to the foregoing descriptions shall be installed under Special Condition 13

(L)

(L)

(Continued)



ELECTRIC SCHEDULE LS-1
PG&E-OWNED STREET AND HIGHWAY LIGHTING

Sheet 17

SPECIAL
CONDITIONS:
(Cont'd.)

**9. PAYMENT FOR INSTALLATION OF LIGHTING
FACILITIES (Cont'd.):**

Class D: Restricted to Decorative Fixtures - Customer or Applicant shall pay, in advance, the estimated installed cost of the remaining lighting facilities that PG&E is required to install. Allowances are not applied to street light facilities on the load side of the service delivery point.

For new Class D installations where the Customer requests an LED fixture, the Customer may choose to pay to PG&E in advance, a non-refundable amount equal to PG&E's estimated cost difference between the selected LED fixture and PG&E's most similar HPSV fixture as determined by PG&E. Customers not wishing to pay the estimated cost difference between LED and HPSV for new lighting installations under LS-1D may elect to include new lights under PG&E's optional LED streetlight replacement program by choosing to pay the Incremental Facility Charge for LS-1D as shown on Sheet 2 of this schedule.

LS-1D Customers with existing HPSV fixtures who prefer to not pay the up-front cost for replacement LED fixtures may also elect to participate in PG&E's optional LED streetlight replacement program by choosing to pay the LS-1D Incremental Facility Charge as shown on Sheet 2.

Customers electing to participate in PG&E's optional LED streetlight replacement program will be eligible for any applicable rebate or incentive available through ratepayer-funded programs intended to increase energy efficiency.

Classes E and F: Customer or Applicant shall pay, in advance, the estimated installed cost of the remaining lighting facilities that PG&E is required to install. Allowances are not applied to street light facilities on the load side of the service delivery point.

Classes G and H: This Class is closed for new installations. (N)

(Continued)



**ELECTRIC SCHEDULE TC-1
TRAFFIC CONTROL SERVICE**

Sheet 1

APPLICABILITY: Applicable to metered service for traffic control-related equipment operating on a 24-hour basis, owned by governmental agencies and located on streets, highways and other publicly-dedicated outdoor ways and places. Streetlights on traffic circuits and other equipment operating on a 24-hour basis in conformity with this rate design may also be connected under this Schedule. Also applicable for service to these installations where service is initially established in the name of a developer who has installed such systems as required by a governmental agency, where ownership of facilities and responsibility for service will ultimately be transferred to the jurisdiction requiring the installation. Also applicable for service to a limited number of unmetered San Francisco traffic controls installations, previously served under a wholesale rate. Non-conforming incidental load such as low voltage sprinkler controls may also be attached where such loads do not exceed 5% of the total connected load served under a TC-1 Service Account. Maximum load per meter is 34,000 kWh per month.

(T)
|
(T)

TERRITORY: The entire territory served.

RATES: Total bundled service charges are calculated using the total rates shown below. Direct Access (DA) and Community Choice Aggregation (CCA) charges shall be calculated in accordance with the paragraph in this rate schedule titled Billing.

TOTAL RATES

Customer Charge Rate (\$ per meter per day)	\$0.49281
Energy Rate (\$ per kWh)	\$0.25282

Total bundled service charges shown on customers' bills are unbundled according to the component rates shown below.

UNBUNDLING OF TOTAL RATES

Customer Charge Rates: Customer charge rates provided in the Total Rate section above are assigned entirely to the unbundled distribution component.

Energy Rate by Components (\$ per kWh)

Generation	\$0.13401
Distribution**	\$0.07154
Transmission*	\$0.03439
Transmission Rate Adjustments*	\$0.00167
Reliability Services*	\$0.00008
Public Purpose Programs	\$0.00734
Nuclear Decommissioning	(\$0.00013)
Competition Transition Charge	\$0.00022
Energy Cost Recovery Amount	(\$0.00429)
Wildfire Fund Charge	\$0.00459
New System Generation Charge**	\$0.00195
Wildfire Hardening Charge (all usage)	\$0.00145

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

** Distribution and New System Generation Charges are combined for presentation on customer bills.

(Continued)



**ELECTRIC SCHEDULE TC-1
TRAFFIC CONTROL SERVICE**

Sheet 3

SPECIAL
CONDITIONS:
(Cont'd.)

2. **SERVICE CONNECTIONS** (Cont'd.)

f) **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 3. Only duly authorized employees of PG&E shall connect Customer's loads to, or disconnect the same from, PG&E's electrical distribution facilities.

g) Temporary services will be installed under the provisions of electric Rule 13.

3. **NON REFUNDABLE PAYMENT FOR SERVICE POINT INSTALLATION**

Customer or Applicant shall pay in advance the estimated installed cost minus a one-time average revenue allowance. Annually, PG&E will determine a fixed average allowance by taking the average annual equivalent kWh for the class multiplied by the distribution component of the energy rate, then divided by the cost of service factor shown in Electric Rule 15.C.

4. **METERING:** Each point of delivery will be metered and billed separately. Service to a limited number of traffic control installations in San Francisco, previously served under a wholesale rate, will be unmetered.

(N)
|
(N)

5. **MAINTENANCE:** Maintenance will be performed by the Customer.

6. **LINE EXTENSION:**

a. Where PG&E extends its facilities to Traffic Control 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 Traffic Control 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.

7. **MAINTENANCE, ACCESS, CLEARANCES**

a) Customer or Applicant will maintain adequate access for PG&E's standard equipment used in installing and maintaining 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. Re-arrangement charges are outlined in special condition 2.d.

b) Customer or Applicant shall, at its expense, correct all access or clearance infractions or pay PG&E's total estimated cost to relocate PG&E's 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 as provided in electric Rule 11.

(L)
(L)

(Continued)



**ELECTRIC SCHEDULE TC-1
TRAFFIC CONTROL SERVICE**

Sheet 4

SPECIAL
CONDITIONS:
(Cont'd.)

8. **BILLING:** A Customer's bill is calculated based on the option applicable to the Customer. Payment will be made in accordance with PG&E's filed tariffs. (L)
(L)

Bundled Service Customers receive supply and delivery services solely from PG&E. The customer's bill is based on the Total Rates and Conditions set forth in this schedule. Total generation charges for bundled customers include charges for the latest vintage Power Charge Indifference Adjustment shown in the Direct Access and Community Choice Aggregation section below.

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, New System Generation Charges, 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, New System Generation Charges, 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 / CCA CRS
Energy Cost Recovery Amount Charge (per kWh)	(\$0.00429)
Wildfire Fund Charge (per kWh)	\$0.00459
CTC Charge (per kWh)	\$0.00022
Power Charge Indifference Adjustment (per kWh)	
2009 Vintage	\$0.01271
2010 Vintage	\$0.01716
2011 Vintage	\$0.01859
2012 Vintage	\$0.01996
2013 Vintage	\$0.01926
2014 Vintage	\$0.01921
2015 Vintage	\$0.01890
2016 Vintage	\$0.01928
2017 Vintage	\$0.01896
2018 Vintage	\$0.01876
2019 Vintage	\$0.01891
2020 Vintage	\$0.01324
2021 Vintage	\$0.02458
2022 Vintage	\$0.02458

9. **WILDFIRE FUND CHARGE:** The Wildfire Fund Charge was imposed by California Public Utilities Commission Decisions 19-10-056, 20-07-014, 20-09-005, and 20-09-023 and is property of Department of Water Resources (DWR) for all purposes under California law. The Charge became effective October 1, 2020, and applies to all retail sales, excluding CARE and Medical Baseline sales. The Wildfire Fund Charge (where applicable) is included in customers' total billed amounts. The Wildfire Fund Charge replaces the DWR Bond Charge imposed by California Public Utilities Commission Decisions 02-10-063 and 02-12-082.



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Advice 6344-E-B
Decision

Issued by
Robert S. Kenney
Vice President, Regulatory Affairs

Submitted _____ May 9, 2022
Effective _____
Resolution _____



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(Continued)

Attachment 2

**CCSF Current Rate Schedules as approved in
Advice 5376-E-B**

**PACIFIC GAS AND ELECTRIC COMPANY
2017 GENERAL RATE CASE - PHASE II
Advice 5376-E-B
Attachment 2**

Rate Schedule	Typical Lamp Type & Size	Present Rate	Proposed Rate
CCSF Rate Schedule No. 1 LS-1A	HIGH PRESSURE SODIUM VAPOR 100 WATTS 9,500 LUMENS	\$6.494	\$7.103
CCSF Rate Schedule No. 3 LS-1A	HIGH PRESSURE SODIUM VAPOR 150 WATTS 16,000 LUMENS	\$6.486	\$7.093
CCSF Rate Schedule No. 4E LS-1E	HIGH PRESSURE SODIUM VAPOR 100 WATTS 9,500 LUMENS	\$10.294	\$9.721
CCSF Rate Schedule No. 4A LS-1E	MERCURY VAPOR 175 WATTS 7,500 LUMENS	\$10.478	\$9.941
CCSF Rate Schedule No. 6 LS-2B	High Pressure Sodium Vapor 100 WATTS 9,500 LUMENS	\$3.994	\$3.994
Nonstandard - No PG&E Equivalent			
CCSF Rate Schedule No. 4A	Incandescent: 295 WATTS 4,000 LUMENS	\$17.067	\$19.712
	Mercury Vapor: 400 WATTS 21,000 LUMENS	\$11.602	\$11.757
CCSF Rate Schedule No. 5	High Pressure Sodium Vapor 100 WATTS 9,500 LUMENS	\$12.835	\$11.773
	Incandescent: 405 WATTS 6,000 LUMENS	\$17.067	\$19.712
CCSF Rate Schedule No. 6 (Chinatown Area)	High Pressure Sodium Vapor 250 WATTS 28,000 LUMENS	\$68.608	\$56.880
CCSF Rate Schedule No. 7		Based on Time & Material.	
CCSF Rate Schedule No. 9 (Triangle District)	High Pressure Sodium Vapor		
	150W 16,000 LUMENS DUPLEX (1)	\$62.052	\$62.052
	150W 16,000 LUMENS DUPLEX (2)	\$4.967	\$5.191

Notes:

The rate(s) for each City and County of San Francisco rate schedule is based on a typical lamp within each rate schedule.

Attachment 3

CCSF Intersection Inventory and Traffic Signal Energy Consumption

CCSF Intersection Inventory

[illegible]

CCSF Intersection Inventory

[illegible]

CCSF Intersection Inventory

[illegible]

CCSF Intersection Inventory

CNN	Intersection Name Per Time Card	0A	0B	1A	1B	1C	1D	1E	2A	2B	3A	3B	3C	3D	3E	3F	3G	3H	3I	3J	3K	3L	4A	4B	4C	4D	4E	4F	4G	5A	5B	5C	10A	10B	11	12A	12B	12C	13	14	15	16A	16B	17	18	RevDate	Comments			
21762000	Avalon, Mission & Theresa	1									10					2																	8						1							5/5/2016				
21765000	Mission & Silver	1									1					9																	8						1							5/5/2016				
21766000	Alemaný & Theresa																																											1	12/1/2020					
21768000	Excelsior & Mission	1									8																											1							5/5/2016					
21769000	Brazil, Mission & Norton	1														12																	8					1							5/3/2021					
21772000	Alemaný & Santa Rosa	1									10																						4																	
21773000	Mission & Santa Rosa	1														8																	6	6				1							5/5/2016					
21781000	Alemaný & Silver	1														10																	6	6												8/25/2020				
21783000	Admiral, Alemaný & Lyell	1									7																						2																	
21812000	Circular, Monterey & Freeway Ramp	1														7																														4/7/2015				
21827000	Mission & Richland	1									11					2																	4	4										1			5/5/2016			
21829000	Highland & Mission	1														13																	8	8										1			1/17/2020			
2183101	Alemaný EB Midblock Ramsell & Victoria																																															solar		
2183201	Alemaný WB Midblock Ramsell & Victoria																																															solar		
21835000	Appleton & Mission	1									6					2																	6					1					1				4/19/2017			
21837000	Dolores, Randall & San Jose	1														16																	10															11/9/2014		
21841000	30th St & Dolores	1									6																						8														1/28/2013			
21890000	30th St & San Jose	1									10																						4														11/14/1991			
21893000	29th St & Dolores	1									10																						8														2/3/2009			
21897000	Cesar Chavez & Guerrero	1														9		1		3													2	8	8												6/3/2021			
21898000	26th St & Guerrero	1									10																						4																	
21901000	Cesar Chavez & Dolores	1									6															4							8														8/9/1990			
21940000	Bosworth & Diamond	1														15										2							8	8									1					7/18/2018		
22049000	Mission & Richland	1														8																	6	6														11/6/2019		
22052000	Alemaný & Geneva	1									8					11																	8					1						1			5/5/2016			
22053000	Alemaný & Seneca	1									1					11																	8											1			8/4/2015			
22079000	Delano & Ocean																																															Solar		
22088000	Cayuga & Geneva	1														12																	8														1/26/2016			
22095000	Delano & Geneva	1														12																	8	8									1				8/30/2018			
22102000	Ocean & San Jose	1						2								8																	8	8													2/6/2020			
22105000	Geneva & San Jose	1														14																	10	8					1								5/5/2016			
22128000	San Jose & Santa Rosa	1									8					2																															8/5/1999			
22156000	Detroit & Monterey																																															Solar		
22190000	Geneva & Howth	1														6																															8/24/2017			
22192000	Geneva, Ocean & Phelan	1		2							8					5				2	7												12	12					1								9/17/2019			
22193000	Howth & Ocean	1									5					3	3																8	13					1								7/13/2020			
22222000	Brighton & Ocean	1									6					2																	6											1				12/9/2002		
22223000	Lee & Ocean	1														10																	8															2/14/2020		
22232000	Foerster & Monterey	1									7					3																	8	8														3/17/2009		
22245000	Gennessee & Monterey	1									10																						4														1/3/1996			
22267000	Bosworth, Congo & Elk	1									7					3										2							8											1				8/4/1999		
22268000	Chenery & Elk																																															removed		
22285000	Malta & O'Shaughnessy																																																solar	
22341000	Burnett, Clipper & Portola	1									5					6										2							6							1								3/21/2016		
22410000	Marietta & Teresita																																														1			
22424000	Fowler, Portola & Sydney	1		4												6		1		2													2	3										1					8/16/2016	
22433000	Evelyn & Portola	1									6					4																	2															8/28/1990		
22435000	Portola & Twin Peaks	1									6					2																	0														4/1/2019			
22436000	O'Shaughnessy, Portola & Woodside	1														13										3							12	11														1/4/2012		
22448000	Idora & Woodside										2					4																	4																	
22449000	Hernandez & Woodside	1									3					6																	4															7/27/1999		
22459000	Capitol & Sagamore	1														10			4						</																									

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CNN	Intersection Name Per Time Card	0A	0B	1A	1B	1C	1D	1E	2A	2B	3A	3B	3C	3D	3E	3F	3G	3H	3I	3J	3K	3L	4A	4B	4C	4D	4E	4F	4G	5A	5B	5C	10A	10B	11	12A	12B	12C	13	14	15	16A	16B	17	18	RevDate	Comments						
22554000	Brotherhood, Chumaseo & Thomas More	1									3					12																	4										1				6/4/2014						
22556000	19th Ave & Junipero Serra	1														16										1							10	12									1				7/1/2014						
22585000	Ocean & Plymouth	1														16																	8														11/6/2018						
22628000	Capitol & Ocean	1														8																	6	6													4/27/2015						
22629000	Miramar & Ocean	1									8					2																	8														12/12/2002						
22645000	Monterey & Valdez																																															solar					
22654000	Faxon & Ocean	1								10						2																	8															1/9/2003					
22661000	Ashton & Ocean	1														8																	6															5/3/2012					
22662000	Dorado, Jules & Ocean	1									9					2																	4	8														1/4/2012					
22744000	Ocean & Victoria	1									6					2																	4	6														6/24/2020					
22755000	Cerritos, Ocean & Westgate	1									8					2																	8														12/20/2002						
22757000	Aptos & Ocean	1									6					2																	6															12/2/2002					
22790000	Ocean & San Leandro	1									6					2																	6														1/10/2003						
22795000	Ocean & San Fernando	1									6					2																	6															12/20/2002					
22811000	Miraloma & Portola	1									4					6																	2										1					8/4/1999					
22840000	Laguna Honda & Portola	1									2					5										1						2	4																3/22/2017				
22865000	Dewey, Laguna Honda & Woodside	1														11		12				2			1								12	13														8/19/2020					
22921000	Claremont & Portola	1									6					5											2						4																	4/27/2015			
22924000	Portola, Santa Clara & Vicente	1									8					5																	8	8									1					8/9/2017					
22927000	Vicente & West Portal	1									8					2																	8																7/22/1996				
22943000	14th Ave, Portola, San Anselmo & Santa Ana	1														9																	8																5/28/2015				
23016000	Holloway & Junipero Serra	1									2					12																	8												1					9/17/1992			
23021000	19th Ave & Crespi	1														10																	2																	12/2/2020			
23032000	19th Ave & Holloway	1														14																	12	9																1/4/2012			
23070000	Eucalyptus, Junipero Serra & Ocean	1							2		3					10			1		3	1											12																	7/14/2020			
23075000	19th Ave, Rosmoor & Stonestown	1						4								3				3													4				2		1										10/24/2020				
23077000	19th Ave & Eucalyptus	1														12																	8	8																7/1/2014			
23079000	19th Ave & Ocean	1														12																	8	12															7/1/2014				
23110000	Higuera & Lake Merced	1									6					7																	2																12/4/2002				
23126000	Lake Merced & Middle Field	1									4					6																	4	5															4/7/2021				
23141000	Junipero Serra, Portola, St Francis, Sloat & West Portal	1														26																	20	20												1				1/4/2012			
23146000	Beachmont Drive & Sloat Blvd																																																	SOLAR			
23149000	19th Ave & Sloat	1									4					12																	8	12															1			7/1/2019	
23150000	19th Ave & Wawona	1									2					5																	4	6																5/5/2016			
23159000	19th Ave & Vicente	1														12																	8	8																5/5/2016			
23161000	19th Ave & Ulloa	1														12																	8																	5/5/2016			
23163000	21st Ave & Sloat																																																		Caltrans		
23166000	23rd St & Sloat																																																		Caltrans		
23179000	17th Ave & Taraval																																																		future		
23182000	18th Ave & Taraval																																																		future		
23183000	19th Ave & Taraval	1														12																	8	8																	5/5/2016		
23196000	19th Ave & Santiago	1														12																	8																		5/5/2016		
23199000	22nd Ave & Taraval																																																		Future		
23202000	19th Ave & Rivera	1														12																	8																		5/5/2016		
23204000	19th Ave & Quintara	1														12																	8	8																	5/5/2016		
23205000	19th Ave & Pacheco	1														12																	8																		5/5/2016		
23219000	26th Ave & Sloat																																																				

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23367000	Sunset & Wawona	1													10																	8	10									1			1/14/2016			
23378000	Sunset & Vicente	1													8																	8	8												5/7/2013			
23383000	Sunset & Ulloa	1													9																	8	10									1			7/17/2017			
23384000	Sunset & Taraval	1													10																	8													6/28/2015			
23407000	Santiago & Sunset	1													8																	8	10									1			7/19/2017			
23411000	Rivera & Sunset	1													8																	8	8												7/1/2014			
23418000	Quintara & Sunset	1													8																	8	10									1			7/19/2017			
23421000	Pacheco & Sunset	1													8																	8	8												4/27/2015			
23444000	41st Ave & Taraval																																														solar	
23453000	45th Ave & Sloat	1									1				8																	4										1				3/24/1993		
23465000	38th Ave & Rivera																																												1			
23493000	47th Ave & Sloat	1													8																	8	8									1				4/27/2015		
23531000	Illinois & Marin	1									4				16																	8										1				7/16/2008		
23534000	Cesar Chavez & Illinois	1									4				13																	10														12/16/2018		
23535000	3rd St & Cesar Chavez	1			6				11		4				7					3	2					3						6	8			2	1			1			1				12/2/2018	
23536000	3rd St & 26th St	1									3				6																	6											1				10/13/2005	
23541000	3rd St & 25th St	1				</																																										

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CNN	Intersection Name Per Time Card	0A	0B	1A	1B	1C	1D	1E	2A	2B	3A	3B	3C	3D	3E	3F	3G	3H	3I	3J	3K	3L	4A	4B	4C	4D	4E	4F	4G	5A	5B	5C	10A	10B	11	12A	12B	12C	13	14	15	16A	16B	17	18	RevDate	Comments					
24228000	13th St & Harrison	1														11		2							2								8													5/1/2019						
24229000	11th St & Harrison	1									4					4																	8						1								5/5/2016					
24233000	10th St & Folsom	1									2					2																	8						1								5/5/2016					
24238000	11th St & Folsom	1									6					1																	8						1								5/5/2016					
24241000	13th St, South Van Ness & US 101 on Ramp	1									7					12																	13														6/13/2016					
24246000	9th St & Folsom	1														6																	8						1								4/30/2017					
24248000	10th St & Howard	1									2					4																	6						1	1							5/5/2016					
24262000	7th St & Folsom	1														6																	8						1	1							8/9/2017					
24265000	7th St & Howard	1														7																	8						1								8/9/2017					
24272000	8th St & Folsom	1														5				2		2											8						1	1					1		5/1/2019					
24279000	Folsom & Russ	1														6																	6	6								1				5/5/2016						
24285000	6th St & Minna	1														8																	6	6								1				8/24/2015						
2428700	Howard & Russ	1														9																	8	8								1					4/5/2018					
24291000	7th St & Minna	1														6																	6	6													2/13/2020					
24293000	6th St & Mission	1									8					4																		8						1	1							5/5/2016				
24294000	6th St & Jessie	1														10																	8	8									1					11/14/2018				
24299000	8th St & Howard	1														1	5		1		2		1										8						1	1								8/12/2020				
24302000	8th St & Natoma	1														6																	6	6									1					7/29/2016				
24305000	9th St & Howard	1									3					4																		8								1	1						5/5/2016			
24311000	8th St & Mission	1														11																	8						1	1	1							6/18/2019				
24313000	9th St & Mission	1									4					5																		8								1							11/16/2020			
24315000	7th St & Mission	1														9																		8															8/9/2017			
24324000	Leavenworth & McAllister	1														1				1						2							10	6														4/28/2021				
24326000	Golden Gate & Jones	1				2					1															3								12															10/7/2020			
24331000	Fulton & Hyde	1									1					3																		6	6														1/4/2012			
24333000	Hyde & McAllister	1														4										2								8	8														5/12/2021			
24334000	Golden Gate & Leavenworth	1																								4								12															5/5/2021			
24335000	15th St & Folsom	1														8																		4																4/1/2019		
24336000	14th St & Folsom	1														9																		8																10/5/2016		
24341000	15th St & South Van Ness	1														8																		8															7/20/2017			
24342000	14th St & South Van Ness	1														8																		8												1				4/1/2019		
24347000	12th St & Folsom	1									8					1																		8							1								9/16/1998			
24349000	13th St & Folsom	1														11										2								8																	9/4/2014	
24353000	11th St & Howard	1									5					4																		8								1								5/5/2016		
24354000	12th St & Howard	1									6					2																		8																5/19/2004		
24358000	12th St, Mission, Otis & South Van Ness	1														22																		16																9/6/2016		
24372000	14th St & Mission	1									6					2																		8								1								5/5/2016		
24377000	15th St & Valencia	1									6					2																		8																	7/29/2005	
24378000	14th St & Valencia	1									6					2																		8																	7/29/2005	
24390000	Gough, McCoppin & Otis	1				1					1					4					2													6							1									5/5/2016		
24403000	Duboce & Valencia	1									2					15									2									8							2									3/4/2009		
24414000	10th St & Mission	1									4					5																		8								1									9/16/2016	
24421000	11th St & Mission	1														4										4								8							1									5/5/2016		
24429000	8th St, Grove, Hyde & Market	1									7					1										2								8	8																2/25/2018	
24431000	Golden Gate & Hyde	1																									4							12																5/13/2021		
24434000	Grove & Larkin	1									2					8																		8	8																1/4/2012	
24435000	Fulton & Larkin	1									3					6																		6	6																1/4/2012	
24436000	Hayes & Polk	1														5							2											8																	5/1/2019	
24437000	Grove & Polk	1														6							3																													

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CNN	Intersection Name Per Time Card	0A	0B	1A	1B	1C	1D	1E	2A	2B	3A	3B	3C	3D	3E	3F	3G	3H	3I	3J	3K	3L	4A	4B	4C	4D	4E	4F	4G	5A	5B	5C	10A	10B	11	12A	12B	12C	13	14	15	16A	16B	17	18	RevDate	Comments																																																																																																																																																																																																																																							
24457000	Fell & Franklin	1														5										3								8	8												6/9/2016																																																																																																																																																																																																																																							
24459000	Grove & Van Ness	1									8					2																		8	8												1/4/2012																																																																																																																																																																																																																																							
24461000	Franklin & Grove	1														7																		8	8												12/1/2016																																																																																																																																																																																																																																							
24462000	McAllister & Polk	1														8																		8	8												8/4/2016																																																																																																																																																																																																																																							
24463000	Golden Gate & Polk	1														5									2									8	8												6/20/2019																																																																																																																																																																																																																																							
24466000	McAllister & Van Ness	1									4					2									2									8	8												1/4/2012																																																																																																																																																																																																																																							
24467000	Franklin & McAllister	1														7																		8	8												12/7/2016																																																																																																																																																																																																																																							
24468000	Golden Gate & Van Ness	1									2			2		1									1				1					8					1								9/19/2007																																																																																																																																																																																																																																							
24472000	Franklin & Fulton	1														5																		6	6												11/21/2016																																																																																																																																																																																																																																							
24476000	Franklin & Golden Gate	1														6																		8													6/9/2016																																																																																																																																																																																																																																							
24484000	2nd St & South Park	1														2	6					4												6													6/3/2021																																																																																																																																																																																																																																							
24490000	2nd St & Bryant	1														2	8			2		2												8				1									2/4/2021																																																																																																																																																																																																																																							
24491000	Bryant & Sterling	1																	6		3													6	6												1/30/2020																																																																																																																																																																																																																																							
2449200	2nd Street & Stillman																																															solar																																																																																																																																																																																																																																						
24494000	1st St, Harrison & US I-80 on Ramp	1									7					6									2																							8/13/1998																																																																																																																																																																																																																																						
24496000	Beale & Folsom	1														2	9	3				2												8	8			1	1									6/18/2021																																																																																																																																																																																																																																						
24498000	Folsom & Fremont	1														2	10			2		2												8	8			2		1								6/18/2021																																																																																																																																																																																																																																						
24503000	Folsom & Main	1														2	8			2		2												8	9			2										6/22/2021																																																																																																																																																																																																																																						
24504000	Howard & Main	1									5					4																			8				1			1						5/5/2016																																																																																																																																																																																																																																						
24506000	Beale & Howard	1									4					3																			8	8			1									5/5/2016																																																																																																																																																																																																																																						
24509000	Fremont & Harrison & Off Ramp	1									8					3									2										8													7/30/2017																																																																																																																																																																																																																																						
24510000	2nd St & Harrison	1														2	10			4		2												8					2									2/3/2021																																																																																																																																																																																																																																						
24513000	3rd St & Harrison	1									8																													1								5/5/2016																																																																																																																																																																																																																																						
24514000	Folsom & Hawthorne	1									1					10																			8													10/15/1998																																																																																																																																																																																																																																						
24515000	Harrison & Hawthorne	1									7					2																			6													8/30/2002																																																																																																																																																																																																																																						
24519000	2nd St & Folsom	1														3	2		5	6		3			2									8	9			2	1									6/18/2021																																																																																																																																																																																																																																						
24522000	1st St & Folsom	1														1	10			2		1												8	8													6/7/2021																																																																																																																																																																																																																																						
24524000	Essex & Folsom	1														2	5			3		2												6	6			1										6/18/2021																																																																																																																																																																																																																																						
24527000	Fremont & Howard	1									3					3									2										8	8													1/4/2012																																																																																																																																																																																																																																					
24532000	1st St & Howard	1									3					4																			10													1/14/1999																																																																																																																																																																																																																																						
24533000	Fremont, Natoma & Transbay Terminal	1														6			9															12	10					1			1					12/9/2019																																																																																																																																																																																																																																						
24534000	1st St & Natoma															8				2														6	6							1						6/30/2019																																																																																																																																																																																																																																						
24540000	2nd St & Howard	1									5					4																			8													2/23/1999																																																																																																																																																																																																																																						
24542000	1st St & Minna	1														6			3																8	8									1				8/27/2020																																																																																																																																																																																																																																					
24543000	2nd St & Natoma	1				2										2	6					2													4	4				1				1					3/22/2019																																																																																																																																																																																																																																					
24546000	Embarcadero & Howard	1									7					11																			18	10													9/17/2019																																																																																																																																																																																																																																					
24547000	Howard & Spear	1									2					7																			8														4/1/2019																																																																																																																																																																																																																																					
24548000	Howard & Steuart	1									8					2																			8														2/13/2002																																																																																																																																																																																																																																					
24550000	Embarcadero & Mission	1									7					10																			18					1									1/2/2017																																																																																																																																																																																																																																					
24552000	Mission & Steuart	1									6					2																			8					1	1								5/5/2016																																																																																																																																																																																																																																					
24554000	Beale & Mission	1														6									2										8	8			1									7/22/2020																																																																																																																																																																																																																																						
24555000	Mission & Spear	1									2					8																			8					1									2/12/2020																																																																																																																																																																																																																																					
24557000	Main & Mission	1									1					7									2										8					1	1								5/5/2016																																																																																																																																																																																																																																					
24560000	Fremont & Mission	1									1					3					1				4										8	8					1								1/1/2020																																																																																																																																																																																																																																					
24563000	1st St & Mission	1									4					5																			8	8				1	1								5/5/2016																																																																																																																																																																																																																																					
24568000	California & Davis	1									6																								8																																																																																																																																																																																																																																																			

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CNN	Intersection Name Per Time Card	0A	0B	1A	1B	1C	1D	1E	2A	2B	3A	3B	3C	3D	3E	3F	3G	3H	3I	3J	3K	3L	4A	4B	4C	4D	4E	4F	4G	5A	5B	5C	10A	10B	11	12A	12B	12C	13	14	15	16A	16B	17	18	RevDate	Comments								
24596000	Howard & New Montgomery	1														6																	4													1/28/2013									
24597000	2nd St & Mission	1									8					4																	8							1								5/5/2016							
24599000	Minna & New Montgomery																																																future						
24602000	Mission & Shaw	1														8																		2	2													6/1/2019							
24610000	Mission & New Montgomery	1									6					3																		8	8					1								5/5/2016							
24613000	3rd St & Mission	1							2							11																		8						1	1							10/21/2020							
24627000	4th St & Howard	1									1					3											2							8	8						1								9/6/2019						
24631000	4th St & Minna	1								2						4																		4									1				10/3/2002								
24632000	4th St & Mission	1									1					6										3								8	8					1	1								5/1/2019						
24634000	5th St & Mission	1									8					4																		8						1	1								5/5/2016						
24639000	3rd St & Stevenson	1								4						2																		4							1				1				5/5/2016						
24644000	Kearny & Post	1									4																							8							1								5/5/2016						
24655000	Geary & Grant	1									1					2										4								8						1									9/28/2019						
24660000	Grant & Post	1									6																							8						1									5/5/2016						
24662000	Grant & Sutter	1									6																							8							1									5/5/2016					
24671000	Battery & Pine	1														6																		8																9/9/2020					
24673000	Front & Pine	1									2															2								8																11/1/2012					
24674000	California & Front	1									6																							8															2/7/1994						
24675000	Battery & California	1														6																		8																12/9/2015					
24678000	Montgomery & Sutter	1									4																							12							1									5/5/2016					
24679000	Bush & Sansome	1									6																							8								1								5/5/2016					
24685000	California & Sansome	1														8																		8																8/18/2016					
24686000	Pine & Sansome	1									6																							8																9/18/1997					
24691000	Front & Sacramento	1									4																							8																					
24692000	Battery & Sacramento	1									4																							8																	5/5/2016				
24693000	Clay & Front	1									4																							4																					
24694000	Battery & Clay	1									4																							8																		5/5/2016			
24695000	Battery & Washington	1									4																							8																					
24696000	Battery & Jackson	1									4																							8																					
24701000	Sacramento & Sansome	1														6																		8																		10/22/2019			
24703000	Clay & Sansome	1														6																		8																		11/12/2019			
24707000	Battery & Pacific	1									3					1																		8																		2/24/2021			
24711000	Sansome & Washington	1														7																		8																		5/26/2016			
24712000	Jackson & Sansome	1														7																		8																		5/26/2016			
24716000	Bush & Montgomery	1									4																							12																		5/5/2016			
24720000	Kearny & Sutter	1									3					1																		8																		10/26/2017			
24724000	Bush & Kearny	1														1										4								8																		9/28/2019			
24726000	Montgomery & Pine	1														4																		12																		6/20/2017			
24729000	California & Montgomery	1									6																							12																					
24733000	Kearny & Sacramento	1									4																							8																		5/5/2016			
24734000	Montgomery & Sacramento	1														5																		8																		5/5/2016			
24740000	Kearny & Pine	1									4					2																		8																		5/5/2016			
24741000	Bush & Grant	1									4					1																		8																		5/5/2016			
24747000	Grant & Pine	1									4					1																		8																		3/5/2002			
24748000	California & Kearny	1							2		4																							8																		5/5/2016			
24749000	Grant & Sacramento	1									4																							4																			5/5/2016		
24751000	California & Grant	1									6					1																		8																		6/25/2004			
24756000	Clay & Montgomery	1														5																		8																		9/18/2019			
24758000	Columbus, Montgomery																																																						

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24791000	Columbus, Kearny & Pacific	1									11					4																	12						1						5/5/2016					
24795000	Broadway & Kearny	1									11																						8						1						5/5/2016					
24798000	Broadway & Davis	1									8					2																	8												2/15/2002					
24800000	Broadway & Front	1									8					2																	8																	
24819000	Battery, Embarcadero, Lombard & Pier 27	1				3			5		1					8			3	3													10			2	2									10/3/2020				
24867000	Greenwich & Sansome	1									8																																			2/26/1982				
24871000	Chestnut, Embarcadero, Pier 29 & Sansome	1									2					10		9								2								12										1			7/31/2019			
24881000	Bay & Embarcadero	1														10		3							3								8			2							1				1/24/2020			
24892000	4th St, Ellis, Market & Stockton	1									3					7																	13	13													10/7/2020			
24893000	Cyril Magnin & Eddy	1									2					3																	4					1								11/17/2018				
24894000	Ellis & Powell	1														8																	8														10/1/2017			
24895000	Cyril Magnin & Ellis	1									1					1			2			2											6														10/7/2020			
24897000	Eddy & Mason	1														1										3							12															4/21/2021		
24898000	Market, Mason & Turk	1									8																							12	12													1/4/2012		
24900000	Ellis & Mason	1														4																		8					1									6/29/2017		
24901000	Geary & Stockton	1									4																							8														4/13/2005		
24902000	O'Farrell & Stockton	1									2																							12														7/1/2009		
24903000	Geary & Powell	1									6																							8	8					1								5/5/2016		
24904000	O'Farrell & Powell	1									6																							8					1								5/5/2016			
24905000	Cyril Magnin & O'Farrell	1									1		2			1																		4					1								6/1/2019			
24908000	Post & Stockton	1														8																		8	8													10/1/2019		
24909000	Powell & Sutter	1									1					4										2								8					1									5/5/2016		
24910000	Stockton & Sutter	1									5																							8					1									5/5/2016		
24911000	Bush & Stockton	1									2					7																		8					1	1								9/2/2019		
24913000	Mason & O'Farrell	1									4																							8					1								5/5/2016			
24917000	Geary & Mason	1									4																							8					1								5/5/2016			
24918000	Post & Powell	1														7																		8	8				1									4/1/2019		
24919000	Mason & Post	1														5																		8	8				1									7/29/2021		
24920000	Mason & Sutter	1									4																							8					1									5/5/2016		
24922000	6th St, Golden Gate, Market & Taylor	1									10															1								12	12													8/6/2015		
24923000	Jones & Turk	1														3											2							12	8													4/22/2021		
24924000	Taylor & Turk	1														8																		8	8													2/27/2018		
24925000	Eddy & Taylor	1									0					8																		8														8/25/2017		
24926000	Ellis & Taylor	1														5		3																8														6/19/2019		
24929000	Eddy & Jones	1														4											2							12														5/20/2021		
24933000	Hyde & Turk	1														2											2							8	12													5/19/2021		
24934000	Leavenworth & Turk	1														2											2							12															5/6/2021	
24935000	Eddy & Leavenworth	1														6																		8															11/2/2017	
24936000	Ellis & Jones	1														3	2										1							12															4/21/2021	
24941000	Geary & Taylor	1														4																		8					1									6/16/2020		
24942000	O'Farrell & Taylor	1														4																		8					1									8/7/2019		
24945000	Jones & O'Farrell	1									4																							8					1									5/5/2016		
24949000	Bush & Mason	1									4					1																		8					1									5/5/2016		
24952000	Post & Taylor	1														4																		8														6/16/2020		
24957000	Bush & Taylor	1									4					1																		8					1									5/5/2016		
24958000	Sutter & Taylor	1														7																		8					1									2/1/2017		
24959000	Jones & Sutter	1														4																		8					1									5/5/2016		
24960000	Geary & Jones	1									4																							8					1									5/5/2016		
24965000	Jones & Post	1														5																		8	8													8/3/2021		
24968000	Bush & Jones	1									4					1																		8					1											

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25202000	Larkin & Sutter	1														7																	8						1								2/1/2017					
25204000	Bush & Larkin	1									4					1																	8														3/24/2004					
25206000	Larkin & Pine	1									4					1																	8														3/5/2002					
25208000	Polk & Sutter	1														8																	8	8													7/18/2018					
25210000	Bush & Polk	1														5										2							8	8														7/16/2019				
25213000	Franklin & Geary	1														7																	8	12					1	1							12/31/2019					
25215000	Post & Van Ness	1														10			2														8															4/20/2021				
25216000	Franklin & Post	1														6																	8	14					1								12/31/2019					
25219000	Sutter & Van Ness	1									6					4																																11/29/1983				
25220000	Franklin & Sutter	1														6																	8															8/25/2016				
25221000	California & Polk	1														10																	8															8/3/2017				
25222000	Pine & Polk	1														7																	8	8														8/12/2020				
25223000	Bush & Van Ness	1														10			2														8															4/20/2021				
25225000	California & Van Ness	1														14			2														8						1									4/27/2021				
25226000	Pine & Van Ness	1														10			2														8																2/27/2002			
25227000	Franklin & Pine	1														6																	8	10															2/7/2018			
25230000	Leavenworth & Pine	1									4					1																	8															3/12/2002				
25231000	California & Leavenworth	1														9											2						8	8															7/27/2021			
25234000	Hyde & Pine	1									4					2																	8																7/8/2002			
25252000	California & Hyde	1									3					1										2							8						1										12/9/2014			
25255000	Hyde & Sacramento	1									7																						8						1										5/5/2016			
25261000	Hyde & Washington	1									4						1																	8																4/27/2015		
25263000	Leavenworth & Washington	1														7																	8	8															5/19/2020			
25276000	Hyde & Jackson	1				2					7																						8																4/27/2015			
25280000	Hyde & Pacific	1									8																						8																4/30/2009			
25286000	Hyde & Vallejo	1									8																						8																2/5/2009			
25294000	California & Larkin	1									8																																						8/5/2015			
25301000	Polk & Sacramento	1														6																	8																	7/26/2017		
25302000	Clay & Polk	1														6																	8	8																9/24/2020		
25303000	Polk & Washington	1														6																	8	8					1											9/8/2020		
25304000	Jackson & Polk	1														6																	8	8																	9/1/2020	
25308000	Broadway & Larkin	1				1					9					1																	8																	2/5/2004		
25315000	Broadway & Polk	1														10																	8	8																8/24/2020		
25316000	Pacific & Polk	1														8																	8	8																8/26/2020		
25321000	Broadway, Columbus & Grant	1									6					15																	10	10					1											5/5/2016		
25332000	Columbus, Tracy & Vallejo	1									3					7																	8						1										5/5/2016			
25335000	Stockton & Vallejo	1									8																						8						1										5/5/2016			
25352000	Columbus, Green & Stockton	1									7					9																	12						1										5/5/2016			
25364000	Columbus & Union	1									2					6																	8						1											5/5/2016		
25373000	Kearny, Lombard & Telegraph Hill				1																																															
25382000	Grant & Lombard				1																																															
25384000	Bay & Kearny	1									11					4																		9						1										5/5/2016		
25410000	Bay & Stockton	1									8					2																	8						1											5/5/2016		
25427000	Mason & Union	1									10					1																																		3/1/2019		
25440000	Filbert & Mason	1														9																	8																		9/16/2009	
25442000	Columbus, Greenwich & Mason	1									3					9																	6																		10/21/2004	
25461000	Bay & Powell	1									8					2																	8						1											5/5/2016		
25465000	Columbus, Lombard & Newell	1				3					8					2																	12																8/1/2002			
25468000	Chestnut, Columbus & Taylor	1									1					13										2							12																	12/4/2017		
25473000	Bay & Mason	1									8					2																																				

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25481000	Mason & North Point		1														8				3													8														4/25/2018						
25484000	Embarcadero, Jefferson & Powell		1							2							3			3						2			2			2			8							1						4/1/2021						
25485000	Beach & Mason		1							1		8																							8				1									4/8/2021						
25486000	Jefferson & Mason		1														6											2						8														8/26/2020						
25512000	Hyde & Union		1									12																																				7/11/1984						
25524000	Bay & Taylor		1									6					2																	6														11/6/1997						
25525000	Columbus & Francisco		1														10																	8	8													1/3/2018						
25533000	Bay, Columbus & Jones		1									13					10																	14														10/8/2002						
25536000	Bay & Leavenworth		1									5					4																		8														3/17/2017					
25563000	Polk & Union		1														10																		8														6/27/2017					
25573000	Columbus, Leavenworth & North Point		1									2					8																		8														11/4/1997					
25574000	Hyde & North Point		1									8																							8														4/12/2011					
25577000	Bay & Hyde		1									7					2																		8														11/17/2011					
25583000	Bay & Larkin		1									9																							8														8/11/2011					
25589000	Larkin & North Point		1									8																							8														8/11/2011					
25591000	Beach & Taylor		1	1						1		8																							8				1										4/8/2021					
25592000	North Point & Taylor		1									8																							8														9/1/2011					
25593000	Jones & North Point		1									8																							8														8/29/2002					
25594000	Jefferson & Taylor		1							2							8																		8														8/26/2020					
25595000	Beach & Jones		1							2		7					1																		8				1										4/8/2021					
25596000	Jefferson & Jones		1							2							7																		6														3/1/2021					
25602000	25th St & Guerrero		1									10																							8														8/10/2006					
25603000	24th St & Guerrero		1														10																		8															8/4/2015				
25605000	24th St & Fair Oaks																																					4											11/12/2014					
25607000	23rd St & Guerrero		1														10																		8															8/4/2015				
25614000	24th St & Dolores		1														8		4		2													8	8														7/28/2020					
25617000	23rd St & Dolores		1									4					6																		4													1		4/27/2015				
25623000	22nd St & Guerrero		1														10																		8														8/4/2015					
25627000	21st St & Guerrero		1									10					3																		8														5/19/2005					
25631000	22nd St & Dolores		1									10																							8														9/7/2010					
25641000	23rd St & Church		1									6																							4														4/27/2015					
25671000	20th St & Guerrero		1														10																		8	8													12/13/2018					
25676000	19th St & Guerrero		1														10																		8	8														12/13/2018				
25677000	18th St & Guerrero		1									5					5																		8															6/1/2021				
25679000	20th St & Dolores		1									10																							4														10/15/1992					
25683000	19th St & Dolores		1														7																		6	6													3/12/2018					
25684000	18th St & Dolores		1														10																		8														6/1/2021					
25690000	17th St & Guerrero		1									7					3																		8														3/22/2016					
25698000	16th St & Guerrero		1														10																		4															8/4/2015				
25700000	Camp & Guerrero																																																Former Master					
25701000	15th St & Guerrero		1														10																		8															8/4/2015				
25703000	17th St & Dolores		1									10																							4																			
25706000	16th St & Dolores		1														10																		8															6/1/2019				
25712000	18th St & Church		1							2							10																		8	9														1/4/2018				
25723000	17th St & Church		1							4		8					4										1								2						1									1/4/2018				
25726000	16th St & Church		1														8																		8															5/13/2014				
25727000	15th St & Church		1									8																							8															10/5/2010				
25744000	24th St & Castro		1									8																							8															8/3/2006				
25797000	16th St & Sanchez		1									8																							4																			
25804000	16th St, Market & Noe		1									3					17																																					

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26540000	Van Ness & Washington	1									6					1					3					2		4E		4G	5A	5B	5C	10A	10B		12A	12B	12C	13	14	15	16A	16B	17	18	12/23/2000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
26541000	Jackson & Van Ness	1									6					1									2								4															12/23/2000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
26542000	Gough & Sacramento	1														8																	8						1	1								5/5/2016																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
26544000	Franklin & Jackson	1														7																	8															8/4/2016																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
26545000	Gough & Washington	1														10																	8	14														9/30/2020																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
26546000	Gough & Jackson	1														8																	8	11						1								8/14/2020																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
26547000	Broadway & Van Ness	1									6					3									2								8																6/4/2017																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
26548000	Pacific & Van Ness	1														12		2															8																	4/30/2021																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
26549000	Franklin & Pacific	1														7																	8																		6/7/2016																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
26551000	Green & Van Ness	1														12		2															8																		4/22/2021																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
26552000	Vallejo & Van Ness	1														12		2															8																		4/22/2021																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
26553000	Franklin & Vallejo	1														8																	8																		6/7/2016																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
26554000	Franklin & Green	1														8																	8																			7/21/2016																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
26555000	Broadway & Franklin	1														10																	8																		8/17/2016																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
26567000	Gough & Pacific	1														10																	8	11																	8/10/2020																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
26568000	Broadway & Gough	1														10																	8	14																	8/7/2020																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
26585000	Ellis & Webster	1														9																	6																			6/18/2020																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
26586000	Ellis & Fillmore																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															</

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CNN	Intersection Name Per Time Card	0A	0B	1A	1B	1C	1D	1E	2A	2B	3A	3B	3C	3D	3E	3F	3G	3H	3I	3J	3K	3L	4A	4B	4C	4D	4E	4F	4G	5A	5B	5C	10A	10B	11	12A	12B	12C	13	14	15	16A	16B	17	18	RevDate	Comments			
27335000	19th Ave & Noriega	1													12																	8	8					1			1				5/5/2016					
27341000	19th Ave & Moraga	1									3				4																	4	6				1								5/5/2016					
27343000	19th Ave & Lawton	1													12																	8	8				1			1					5/5/2016					
27364000	19th Ave & Kirkham	1													12																	8				1			1						5/5/2016					
27365000	18th Ave & Judah	1													8																	8	8												8/26/2016					
27366000	19th Ave & Judah	1													12																	8	8				1								5/5/2016					
27369000	20th Ave & Judah																																													solar				
27372000	19th Ave & Irving	1													12																	8	8				1									5/5/2016				
27374000	19th Ave, Crossover & Lincoln Way	1													14																	8	8				1				1					5/5/2016				
27375000	20th Ave & Irving	1									7				1																	8														11/25/1997				
27377000	20th Ave & Lincoln	1									4				3										2						2		6														4/27/2015			
27424000	25th Ave & Lincoln	1									7														4								6									1					8/4/1999			
27441000	Crossover Drive & Martin Luther King Drive	1													14										2							6	6														12/7/2020			
27444000	Fulton & Park Presidio	1			1										11																	8															4/27/2015			
27446000	Cabrillo & Park Presidio	1													12																	8															4/1/2009			
27462000	18th Ave & Fulton St	1													6																	6															8/5/2015			
27472000	Balboa & Park Presidio	1													12																	8										1					3/31/2009			
27475000	Anza & Park Presidio	1													12																	8															3/26/2009			
27483000	Geary & Park Presidio	1													14																	8	8				1										5/5/2016			
27484000	Clement & Park Presidio	1													12																	8					1										5/5/2016			
27486000	15th Ave & Geary	1						4							10																	8					1											12/18/2020		
27487000	16th Ave & Geary	1													10																	8					1											7/28/2020		
27500000	17th Ave & Geary	1													8																	8	8				1											3/15/2017		
27501000	18th Ave & Geary	1									11																					8					1										5/5/2016			
27504000	19th Ave & Geary	1								4					4																	8					1										5/5/2016			
27505000	20th Ave & Geary	1						4			8				2																	8				1											12/18/2020			
27510000	22nd Ave & Fulton	1									2				4																	4															2/9/2001			
27519000	25th Ave, Cross Over & Fulton	1													15																	8	8								1						4/27/2015			
27520000	25th Ave & Cabrillo	1									8																					8															2/11/2009			
27527000	28th Ave & Fulton	1													8																	6	6								1							11/30/2017		
27537000	21st Ave & Geary	1									10																					8	8				1										5/5/2016			
27538000	22nd Ave & Geary	1													8																	8	8														1/8/2016			
27541000	23rd Ave & Geary	1									10																					8					1										1/19/2018			
27542000	24th Ave & Geary	1									8				2																	8					1										2/13/2017			
27545000	25th Ave & Balboa	1													8																	8																12/20/2016		
27547000	25th Ave & Anza	1									8																																							
27553000	25th Ave & Geary	1						4							10																	8	8				1											12/18/2020		
27554000	26th Ave & Geary	1													8																	8	8															1/7/2016		
27555000	25th Ave & Clement	1									8																																							
27557000	27th Ave & Geary	1									11																					8					1											5/5/2016		
27558000	28th Ave & Geary	1									10																					8	8				1											5/5/2016		
27560000	California & Commonwealth																																		4													2/6/2018		
27562000	Arguello & Euclid	1													8																	6	7				1											1/12/2021		
27566000	Arguello & California	1													10																	8	8															1/21/2021		
27569000	California, Cherry & Jordan	1									8				2																	8					1											5/5/2016		
27578000	Arguello, Lake & Sacramento	1													11																	8	9															2/18/2021		
27587000	4th Ave & California	1									4				4																	8					1											5/5/2016		
27596000	6th Ave & California	1	1												10																	8					1												4/8/2019	
27599000	8th Ave & California	1									8																																							

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CNN	Intersection Name	Per Time Card	0A	0B	1A	1B	1C	1D	1E	2A	2B	3A	3B	3C	3D	3E	3F	3G	3H	3I	3J	3K	3L	4A	4B	4C	4D	4E	4F	4G	5A	5B	5C	10A	10B	11	12A	12B	12C	13	14	15	16A	16B	17	18	RevDate	Comments																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
33705000	Lake Merced & South State		1									5					5																	2														8/3/1999																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
33708000	Brotherhood & Church Parking Lot		1									8					8									1								2														1/5/2001																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
33713000	Brotherhood & Church Access Road		1														11																	4														5/29/2009																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
33718000	19th Ave & Winston		1									2					11																	6	6													1/4/2012																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
33719000	20th Ave & Winston		1									8					1																2	6	6													1/4/2012																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
33722000	Plymouth, Sagamore, San Jose & Sickles		1			2						1					10				4													12														4/27/2015																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
33724000	Lakeshore Plaza & Sloat																																																Caltrans																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
33738000	Lake Merced & Lake Merced Hill		1														10																	2														5/29/2009																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
33751000	Bayshore, Jerrold & US 101 Off Ramp		1									2					9																																1/13/2000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
33776000	Bryant & Main		1									6					2																	6																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
34155000	3rd St & Channel		1				2			5							13		4															8			3													5/27/2021																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
34161000	3rd St & North / South Mission Bay		1							8		4					8		2			10												16			2			1		130		1					5/27/2021																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
34162000	3rd St & Warriors		1							8							9		2															6																5/27/2021																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
34166000	Terry Francois & Warriors		1														1	6				5		3										6	6				1					1	1						8/30/2019																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
34167000	4th St & Channel		1				2			5							16				6													8	9										1						8/12/2018																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
34171000	4th St & Mission Bay		1									4					6					2												8												1						10/25/2017																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
34172000	4th St & Mission Bay											4					6					2																													10/25/2017																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
34186000	7th St, Berry St Ext & Mission Bay Dr		1														1	11		2		6	4	1										6				3						1							8/27/2020																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
34190000	16th St & Terry Francois Blvd		1														1	7				5		3										6	6				1						130		1	1				5/27/2021																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
4072000	Clarendon Midblock Oak Park & Panorama																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												

CCSF Intersection Inventory

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Traffic Signal Energy Consumption

Daily Values

DATE: 09/27/21

DEVICE No.	DEVICE	DEVICE WATTAGE	CURRENT MONTH		PREVIOUS MONTH			
			DEVICES QUANTITY	DEVICES DAILY ENERGY CONSUMPTION (kWh/day)	DEVICES QUANTITY	QUANTITY DIFF.	DEVICES CONS. (kWh/day)	CONSUMPTION DIFF. (kWh/day)
0A	CONTROLLER	36.00	1,288	1,112.92	1,287	+1	1,112.05	+0.86
0B	MASTER CONTROLLER	125.00	7	21.00	7	0	21.00	0
1A	1SECTION12" FR ALL TIMES	3.10	41	3.05	41	0	3.05	0
1B	1SECTION12" FY ALL TIMES	4.85	25	2.91	25	0	2.91	0
1C	1SECTION12" R/FR	4.72	31	3.51	31	0	3.51	0
1D	1SECTION12" FR (TRAIN)	0.32	4	0.03	4	0	0.03	0
1E	1SECTION12" FY PREPARE TO STOP	2.32	4	0.22	4	0	0.22	0
2A	2SECTION12" LUNAR BAR	6.22	255	38.07	243	+12	36.28	+1.79
2B	2SECTION12" FY SCHOOL HOURS	1.15	12	0.33	12	0	0.33	0
3A	3SECTION8"	6.00	3,867	556.85	3,869	-2	557.14	-0.29
3B	3SECTION8" FY	4.57	8	0.88	8	0	0.88	0
3C	2SECTION8"+1SECTION12" GLA/GRA	6.00	2	0.29	2	0	0.29	0
3D	1SECTION12"R+2SECTION8"	6.10	23	3.36	23	0	3.36	0
3E	3SECTION8" BIKE	6.04	40	5.79	40	0	5.79	0
3F	3SECTION12"	6.59	7,761	1,228.31	7,753	+8	1,227.04	+1.27
3G	3SECTION12" FY	5.71	36	4.93	36	0	4.93	0
3H	3SECTION12" GLA/GRA/GVA	6.26	211	31.70	211	0	31.70	0
3I	3SECTION12" FYLA/FYRA	5.14	20	2.47	20	0	2.47	0
3J	3SECTION12" LA/RA	6.15	248	36.62	248	0	36.62	0
3K	3SECTION12" PROGRAM. VISIBILITY	10.00	83	19.92	83	0	19.92	0
3L	3SECTION12" BIKE	6.32	69	10.47	69	0	10.47	0
4A	3SECTION8"+1SECTION12" GLA/GRA	7.43	5	0.89	5	0	0.89	0
4B	2SECTION8"+2SECTION12" GLA+GRA	8.87	6	1.28	6	0	1.28	0
4C	4SECTION12" GLA/GRA LAGGING TURN	8.03	267	51.44	267	0	51.44	0
4D	4SECTION12" GLA/GRA SPLIT PHASE	7.96	56	10.69	56	0	10.69	0
4E	4SECTION12" FYLA+FYRA	6.88	5	0.83	3	+2	0.50	+0.33
4F	4SECTION12" RRA/GLA+GRA	9.56	4	0.92	4	0	0.92	0
4G	4SECTION12" PROGRAM. VISIBILITY	12.39	6	1.78	6	0	1.78	0
5A	3SECTION8"+2SECTION12" GYLA/GYRA	9.19	3	0.66	3	0	0.66	0
5B	5SECTION12" GYLA/GYRA	9.79	59	13.86	59	0	13.86	0
5C	5SECTION12" PROGRAM. VISIBILITY	12.83	2	0.62	2	0	0.62	0
10A	PEDESTRIAN SIGNAL	8.06	9,231	1,785.89	9,227	+4	1,785.12	+0.77
10B	ACCESIBLE PEDESTRIAN SIGNAL	0.18	3,003	12.83	2,959	+44	12.64	+0.19
11	RECTANGULAR RAPID FLASHING BEACON	0.92	63	1.39	63	0	1.39	0
12A	16"x16" EXTINGUISHABLE MESSAGE SIGN (TRAIN)	3.69	47	4.16	47	0	4.16	0
12B	24"x24" EXTINGUISHABLE MESSAGE SIGN (TRAIN)	1.84	28	1.24	28	0	1.24	0
12C	24"x24" EXTINGUISHABLE MESSAGE SIGN (NO TURN)	45.67	53	58.09	53	0	58.09	0
13	TRANSIT SIGNAL PRIORITY CIRCUIT	12.51	373	112.01	373	0	112.01	0
14	CCTV TRAFFIC OBSERVATION CAMERA	20.00	62	29.76	62	0	29.76	0
15	LIDAR SENSOR SYSTEM	1.00	1,232	29.57	1,232	0	29.57	0
16A	SENSYS DETECTION SYSTEM	0.70	159	2.67	159	0	2.67	0
16B	VIDEO DETECTION SYSTEM	50.00	73	87.60	73	0	87.60	0
17	REDLIGHT CAMERA SYSTEM	230.00	12	66.24	12	0	66.24	0
18	RADAR SPEED SIGN	3.50	13	1.09	13	0	1.09	0

TOTAL DAILY ENERGY CONSUMPTION (kWh/day)	5,359.13
PREVIOUS TOTAL DAILY CONSUMPTION (kWh/day)	5,354.21
TOTAL DAILY DIFFERENCE (kWh/day)	+4.93

Attachment 4

Redline Tariff Revisions



**ELECTRIC SCHEDULE A-1
SMALL GENERAL SERVICE**

Sheet 1

APPLICABILITY: Schedule A-1 applies to single-phase and polyphase alternating-current service (for a description of these terms, see Section D of Rule 2*). This schedule is not available to residential or agricultural service for which a residential or agricultural schedule is applicable, except for single-phase and polyphase service in common areas in a multifamily complex (see Common-Area Accounts section). Customers that are otherwise eligible to take service on Schedule A-1, but are purchasing power to serve electric vehicle charging equipment, are not eligible to take service on this rate schedule.

Effective March 1, 2021, Schedule A-1 is available only to qualifying solar legacy TOU period customers, or to qualifying customers without interval meters that can be read remotely by PG&E, including unmetered customers with fixed usage, as specified in greater detail below. Unmetered customers with fixed usage will be billed under Option A: Non-Time-of-Use Rates. This tariff is currently scheduled to expire in 2027, at which time all customers must transition to new Schedule B-1 or other applicable new tariffs with later TOU hours as described below. The non-TOU version of Schedule A-1 is not available for solar legacy TOU period purposes after March 2021

Effective November 1, 2012, Schedule A-1 is closed to customers with a maximum demand of 75 kW or greater for three consecutive months in the most recent twelve months, or with usage of 150,000 kWh per year or greater, and who have at least twelve (12) months of hourly usage data available. Eligibility for A-1 will be reviewed annually and migration of ineligible customers will be implemented once per year, on bill cycles each November, using the same procedures described below for TOU rates adopted in Decision 10-02-032 as modified by Decision 11-11-008.

Effective November 1, 2014, new customers establishing service on Schedule A-1 where a Smart Meter™ is already in place will be charged Schedule A-1 TOU rates.

Decision 18-08-013 adopted new TOU periods and seasonal definitions for all non-residential customer classes. Schedules A-1, A-6, A-10, E-19 and E-20 will be retained as legacy rate schedules with their legacy TOU periods until the rates with new TOU periods (B-1, B-6, B-10, B-19 and B-20) established in the same proceeding, become mandatory in March 2021. Certain qualifying customers with solar systems will be permitted to maintain their existing legacy TOU periods for a certain period of time, per Decision 17-01-006, as described in the Electric Rule 1, Definitions: Behind-the-Meter Solar Legacy TOU Period Eligibility Requirements.

The new rates with revised TOU periods adopted in D.18-08-013 were available on a voluntary opt-in basis for qualifying customers from November 2019 through February 2021.

* The Rules referred to in this schedule are part of PG&E's electric tariffs. Copies are available at PG&E's local offices and website at <http://www.pge.com/tariffs>

(Continued)



ELECTRIC SCHEDULE LS-1
PG&E-OWNED STREET AND HIGHWAY LIGHTING

Sheet 1

APPLICABILITY: This schedule is applicable to unmetered PG&E-owned and maintained lighting installations which illuminate publicly owned and operated streets, highways, and other outdoor ways and places and which generally utilize PG&E's distribution facilities under the provisions contained below. Rates of Class A through Class ~~F-H~~ service will be applicable as determined in Special Condition 4. (T)

TERRITORY: The entire territory served.

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 facilities for each Schedule LS-1 Class. 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 17, Billing, below.

(Continued)



ELECTRIC SCHEDULE LS-1
PG&E-OWNED STREET AND HIGHWAY LIGHTING

Sheet 2

RATES: (Cont'd.)

Facilities Charge Per Lamp Per Month

CLASS	Facilities Charge Per Lamp Per Month						G	H1	H2	(T)
	A	B	C	D	E	F				
	\$6.849	\$7.126	\$6.680	\$9.331	\$9.664	\$7.828	\$56.880 (N)	\$62.052 (N)	\$5.191 (N)	
LED Program Incremental Facility Charge	\$0.000		\$0.000	\$12.768	\$0.000	\$0.000				

Energy Charge Per Lamp Per Month
All Night Rates

LAMP WATTS	kWh per MONTH	AVERAGE INITIAL LUMENS	All Night Rate	Half-Hour Adjustment
INCANDESCENTLAMPS*:				
58	20	600	\$3.768 (I)	\$0.171
92	31	1,000	\$5.840 (I)	\$0.265 (I)
189	65	2,500	\$12.245 (I)	\$0.557 (I)
295	101	4,000	\$19.026 (I)	\$0.865 (I)
405	139	6,000	\$26.185 (I)	\$1.190 (I)
MERCURYVAPORLAMPS*:				
100	40	3,500	\$7.535 (I)	\$0.343 (I)
175	68	7,500	\$12.810 (I)	\$0.582 (I)
250	97	11,000	\$18.273 (I)	\$0.831 (I)
400	152	21,000	\$28.634 (I)	\$1.302 (I)
700	266	37,000	\$50.109 (I)	\$2.278 (I)
HIGHPRESSURESODIUMVAPORLAMPS***:				
120 Volts				
70	29	5,800	\$5.463 (I)	\$0.248 (I)
100	41	9,500	\$7.724 (I)	\$0.351 (I)
150	60	16,000	\$11.303 (I)	\$0.514 (I)
200	80	22,000	\$15.070 (I)	\$0.685 (I)
250	100	26,000	\$18.838 (I)	\$0.856 (I)
400	154	46,000	\$29.011 (I)	\$1.319 (I)
240 Volts				
70	34	5,800	\$6.405 (I)	\$0.291 (I)
100	47	9,500	\$8.854 (I)	\$0.402 (I)
150	69	16,000	\$12.998 (I)	\$0.591 (I)
200	81	22,000	\$15.259 (I)	\$0.694 (I)
250	100	25,500	\$18.838 (I)	\$0.856 (I)
400	154	46,000	\$29.011 (I)	\$1.319 (I)

* Closed to new installations per Advice 669-E, effective June 8, 1978.

** Closed to new mixed ownership installations. See Special Condition 4.

*** Closed to new installations for all Classes per Advice 6176-E, effective May 28, 2021.

(Continued)

Advice 6265-E-A
Decision

Issued by
Robert S. Kenney
Vice President, Regulatory Affairs

Submitted
Effective
Resolution

July 28, 2021
August 1, 2021



ELECTRIC SCHEDULE LS-1
PG&E-OWNED STREET AND HIGHWAY LIGHTING

Sheet 11

SPECIAL
CONDITIONS:

(Cont'd)

4. DESCRIPTION OF SERVICE PROVIDED:

The following describes lighting facilities only. Service connection and lighting installation responsibilities and payments, are described in special conditions 7, 8 and 9.

PG&E provides several Classes (A, B, C, D, E, F, G and F, H) of LS-1 facilities. The Classes enable fair distribution of facility charges in correlation with PG&E's cost to maintain each Class. Once installed, PG&E maintains full ownership and maintenance responsibility for all Classes of LS-1.

Only equipment included in PG&E's current standards are eligible for installation under LS-1, except as addressed in Special Condition 12. Current standards are available through PG&E's Service Planning application process.

Class A: Applicable to standard non-decorative fixtures (the entire lighting unit that includes the lamp, if applicable) installed on a PG&E wood distribution pole for illumination of public ways. PG&E provides its standard fixture, control facility, and standard 30" bracket on its existing wood distribution pole. There is no installation charge for this Class for standard (non-decorative) LED fixtures. (T)

Class B: Closed to new installations per Advice 688-E, effective September 11, 1978. This Class is for streetlight installations for which the Customer has paid the estimated installed cost of the fixture, standard 30" bracket and control facilities. (T)

(Continued)

Advice 6176-E
Decision

Issued by
Robert S. Kenney
Vice President, Regulatory Affairs

Submitted	April 28, 2021
Effective	May 28, 2021
Resolution	



ELECTRIC SCHEDULE LS-1
PG&E-OWNED STREET AND HIGHWAY LIGHTING

Sheet 13

SPECIAL
CONDITIONS:
(Cont'd.)

4. DESCRIPTION OF SERVICE PROVIDED: (Cont'd.)

(N)

Class G: Applicable to decorative streetlight fixtures and poles located in the Chinatown area of San Francisco, specifically on Grant Street between Bush Street and Broadway Street. PG&E provides ornamental multi-colored "Dragon Light" luminaires with 250 watt HPSV lamps installed on ornamental poles. Customer is responsible for all further costs, see Special Condition 9.

Class H1: Applicable to decorative streetlight fixtures and poles located in the Financial District of San Francisco, specifically onbounded by Market Street, between Mason Street and Sutter Street. PG&E provides ornamental "triangle" type luminaires with 150 watt HPSV lamps, necessary support arms, and control facilities installed on ornamental steel poles. Customer is responsible for all further costs, see Special Condition 9.

Class H2: Applicable to decorative streetlight fixtures and poles located in the Financial District of San Francisco, specifically bounded by Market Street, Mason Street and Sutter Street. PG&E provides ornamental "triangle" type luminaires with 150 watt HPSV lamps. The Class considers that facility charges for the pole are paid through the primary fixture which is under Class H1.

(N)

5. RELOCATION, REARRANGEMENT OR MODIFICATION OF FACILITIES:

For any relocation, rearrangement, or modification of PG&E's existing streetlight or service facilities at the request of the Customer and agreed to by PG&E, Customer shall pay PG&E, in advance, PG&E's estimated total cost of the relocation, rearrangement, or modification. This shall include, but is not limited to, fixture changes.

6. SERVICE REQUESTS: Service requests shall be made through PG&E's Service Planning organization and shall include form 79-1007 (*Request to Install or Energize Streetlight Schedules LS-1, LS-2, OL-1*) or 79-1008 (*Request to De-Energize or Remove Streetlights LS-1, LS-2, OL-1*) for installations, removals, relocations, rearrangements, modifications, energizing and de-energizing of streetlight facilities.

(Continued)



ELECTRIC SCHEDULE LS-1
PG&E-OWNED STREET AND HIGHWAY LIGHTING

Sheet 13

7. SERVICE and LIGHTING INSTALLATION

RESPONSIBILITIES: The 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 light service and circuits, in accordance with PG&E's specifications. Upon acceptance by PG&E, ownership of the conduit and substructures will automatically transfer to PG&E. Riser material is installed by PG&E at the Customer's expense. Tree trimming is the responsibility of the Applicant.

PG&E will furnish and install the underground or overhead service conductor, transformers and necessary facilities to complete the service from the distribution line source subject to the payment provision of special condition 8.

PG&E will establish service delivery points in close proximity to its distribution system as follows:

(Continued)

Advice Decision	6176-E	Issued by Robert S. Kenney Vice President, Regulatory Affairs	Submitted Effective Resolution	April 28, 2021
				May 28, 2021



ELECTRIC SCHEDULE LS-1
PG&E-OWNED STREET AND HIGHWAY LIGHTING

Sheet 17

**SPECIAL
CONDITIONS:**
(Cont'd.)

**9. PAYMENT FOR INSTALLATION OF LIGHTING
FACILITIES (Cont'd.):**

Class D: Restricted to Decorative Fixtures - Customer or Applicant shall pay, in advance, the estimated installed cost of the remaining lighting facilities that PG&E is required to install. Allowances are not applied to street light facilities on the load side of the service delivery point.

For new Class D installations where the Customer requests an LED fixture, the Customer may choose to pay to PG&E in advance, a non-refundable amount equal to PG&E's estimated cost difference between the selected LED fixture and PG&E's most similar HPSV fixture as determined by PG&E. Customers not wishing to pay the estimated cost difference between LED and HPSV for new lighting installations under LS-1D may elect to include new lights under PG&E's optional LED streetlight replacement program by choosing to pay the Incremental Facility Charge for LS-1D as shown on Sheet 2 of this schedule.

LS-1D Customers with existing HPSV fixtures who prefer to not pay the up-front cost for replacement LED fixtures may also elect to participate in PG&E's optional LED streetlight replacement program by choosing to pay the LS-1D Incremental Facility Charge as shown on Sheet 2.

Customers electing to participate in PG&E's optional LED streetlight replacement program will be eligible for any applicable rebate or incentive available through ratepayer-funded programs intended to increase energy efficiency.

Classes E and F: Customer or Applicant shall pay, in advance, the estimated installed cost of the remaining lighting facilities that PG&E is required to install. Allowances are not applied to street light facilities on the load side of the service delivery point.

Classes G and H: This Class is closed for new installations.

(N)

(Continued)



**ELECTRIC SCHEDULE TC-1
TRAFFIC CONTROL SERVICE**

Sheet 1

APPLICABILITY: Applicable to metered service for traffic control-related equipment operating on a 24-hour basis, owned by governmental agencies and located on streets, highways and other publicly-dedicated outdoor ways and places. Streetlights on traffic circuits and other equipment operating on a 24-hour basis in conformity with this rate design may also be connected under this Schedule. Also applicable for service to these installations where service is initially established in the name of a developer who has installed such systems as required by a governmental agency, where ownership of facilities and responsibility for service will ultimately be transferred to the jurisdiction requiring the installation. Also applicable for service to a limited number of unmetered San Francisco traffic controls installations, previously served under a wholesale rate. Non-conforming incidental load such as low voltage sprinkler controls may also be attached where such loads do not exceed 5% of the total connected load served under a TC-1 Service Account. Maximum load per meter is 34,000 kWh per month.

(N)
↓
(N)

TERRITORY: The entire territory served.

RATES: Total bundled service charges are calculated using the total rates shown below. Direct Access (DA) and Community Choice Aggregation (CCA) charges shall be calculated in accordance with the paragraph in this rate schedule titled Billing.

TOTAL RATES

Customer Charge Rate (\$ per meter per day)	\$0.49281	
Energy Rate (\$ per kWh)	\$0.20565	(I)

Total bundled service charges shown on customers' bills are unbundled according to the component rates shown below.

UNBUNDLING OF TOTAL RATES

Customer Charge Rates: Customer charge rates provided in the Total Rate section above are assigned entirely to the unbundled distribution component.

<u>Energy Rate by Components (\$ per kWh)</u>		
Generation	\$0.10150	
Distribution**	\$0.06280	(I)
Transmission*	\$0.02804	(I)
Transmission Rate Adjustments*	(\$0.00248)	
Reliability Services*	\$0.00013	
Public Purpose Programs	\$0.00540	
Nuclear Decommissioning	\$0.00093	
Competition Transition Charge	\$0.00003	
Energy Cost Recovery Amount	\$0.00032	
Wildfire Fund Charge	\$0.00580	
New System Generation Charge**	\$0.00318	

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

** Distribution and New System Generation Charges are combined for presentation on customer bills.

(Continued)

Advice 6265-E-A
Decision

Issued by
Robert S. Kenney
Vice President, Regulatory Affairs

Submitted
Effective
Resolution

July 28, 2021
August 1, 2021



**ELECTRIC SCHEDULE TC-1
TRAFFIC CONTROL SERVICE**

Sheet 3

SPECIAL
CONDITIONS:
(Cont'd.)

2. **SERVICE CONNECTIONS** (Cont'd.)

f) **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 3. Only duly authorized employees of PG&E shall connect Customer's loads to, or disconnect the same from, PG&E's electrical distribution facilities.

g) Temporary services will be installed under the provisions of electric Rule 13.

3. **NON REFUNDABLE PAYMENT FOR SERVICE POINT INSTALLATION**

Customer or Applicant shall pay in advance the estimated installed cost minus a one-time average revenue allowance. Annually, PG&E will determine a fixed average allowance by taking the average annual equivalent kWh for the class multiplied by the distribution component of the energy rate, then divided by the cost of service factor shown in Electric Rule 15.C.

4. **METERING:** Each point of delivery will be metered and billed separately. Service to a limited number of traffic control installations in San Francisco, previously served under a wholesale rate, will be unmetered.

(N)

↓

(N)

5. **MAINTENANCE:** Maintenance will be performed by the Customer.

6. **LINE EXTENSION:**

a. Where PG&E extends its facilities to Traffic Control 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 Traffic Control 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.

7. **MAINTENANCE, ACCESS, CLEARANCES**

a) Customer or Applicant will maintain adequate access for PG&E's standard equipment used in installing and maintaining 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. Re-arrangement charges are outlined in special condition 2.d.

b) Customer or Applicant shall, at its expense, correct all access or clearance infractions or pay PG&E's total estimated cost to relocate PG&E's 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 as provided in electric Rule 11.

(L)

(L)

(Continued)

Advice 3115-E-A
Decision 07-09-004

Issued by
Robert S. Kenney
Vice President, Regulatory Affairs

Date Filed	December 27, 2007
Effective	January 1, 2008
Resolution	E-4121



**ELECTRIC SCHEDULE TC-1
TRAFFIC CONTROL SERVICE**

Sheet 4

SPECIAL
CONDITIONS:
(Cont'd.)

8. **BILLING:** A Customer's bill is calculated based on the option applicable to the Customer. Payment will be made in accordance with PG&E's filed tariffs

(L)
(L)

Bundled Service Customers receive supply and delivery services solely from PG&E. The customer's bill is based on the Total Rates and Conditions set forth in this schedule.

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, New System Generation Charges, 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, New System Generation Charges, 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 / CCA CRS	
Energy Cost Recovery Amount Charge (per kWh)	\$0.00032	
Wildfire Fund Charge (per kWh)	\$0.00580	
CTC Charge (per kWh)	\$0.00003	
Power Charge Indifference Adjustment (per kWh)		
2009 Vintage	\$0.03406	(I)
2010 Vintage	\$0.04100	(I)
2011 Vintage	\$0.04285	(I)
2012 Vintage	\$0.04537	(I)
2013 Vintage	\$0.04559	(I)
2014 Vintage	\$0.04562	(I)
2015 Vintage	\$0.04583	(I)
2016 Vintage	\$0.04613	(I)
2017 Vintage	\$0.04617	(I)
2018 Vintage	\$0.04564	(I)
2019 Vintage	\$0.03476	(I)
2020 Vintage	\$0.02801	(I)
2021 Vintage	\$0.02801	(I)

9. **WILDFIRE FUND CHARGE:** The Wildfire Fund Charge was imposed by California Public Utilities Commission Decisions 19-10-056, 20-07-014, 20-09-005, and 20-09-023 and is property of Department of Water Resources (DWR) for all purposes under California law. The Charge became effective October 1, 2020, and applies to all retail sales, excluding CARE and Medical Baseline sales. The Wildfire Fund Charge (where applicable) is included in customers' total billed amounts. The Wildfire Fund Charge replaces the DWR Bond Charge imposed by California Public Utilities Commission Decisions 02-10-063 and 02-12-082.

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

AT&T	East Bay Community Energy Ellison	Pioneer Community Energy
Albion Power Company	Schneider & Harris LLP	Public Advocates Office
	Engineers and Scientists of California	
Alta Power Group, LLC		Redwood Coast Energy Authority
Anderson & Poole	GenOn Energy, Inc.	Regulatory & Cogeneration Service, Inc.
	Goodin, MacBride, Squeri, Schlotz &	SCD Energy Solutions
Atlas ReFuel	Ritchie	San Diego Gas & Electric Company
BART	Green Power Institute	
	Hanna & Morton	SPURR
Barkovich & Yap, Inc.	ICF	San Francisco Water Power and Sewer
Braun Blaising Smith Wynne, P.C.	International Power Technology	Sempra Utilities
California Cotton Ginners & Growers Assn		
California Energy Commission	Intertie	Sierra Telephone Company, Inc.
		Southern California Edison Company
California Hub for Energy Efficiency	Intestate Gas Services, Inc.	Southern California Gas Company
Financing	Kelly Group	Spark Energy
	Ken Bohn Consulting	Sun Light & Power
California Alternative Energy and	Keyes & Fox LLP	Sunshine Design
Advanced Transportation Financing	Leviton Manufacturing Co., Inc.	Tecogen, Inc.
Authority		TerraVerde Renewable Partners
California Public Utilities Commission	Los Angeles County Integrated	Tiger Natural Gas, Inc.
Calpine	Waste Management Task Force	
	MRW & Associates	TransCanada
Cameron-Daniel, P.C.	Manatt Phelps Phillips	Utility Cost Management
Casner, Steve	Marin Energy Authority	Utility Power Solutions
Center for Biological Diversity	McClintock IP	Uplight
	McKenzie & Associates	Water and Energy Consulting Wellhead
Chevron Pipeline and Power		Electric Company
City of Palo Alto	Modesto Irrigation District	Western Manufactured Housing
	NLine Energy, Inc.	Communities Association (WMA)
City of San Jose	NRG Solar	Yep Energy
Clean Power Research		
Coast Economic Consulting	OnGrid Solar	
Commercial Energy	Pacific Gas and Electric Company	
Crossborder Energy	Peninsula Clean Energy	
Crown Road Energy, LLC		
Davis Wright Tremaine LLP		
Day Carter Murphy		
Dept of General Services		
Don Pickett & Associates, Inc.		
Douglass & Liddell		