

PUBLIC UTILITIES COMMISSION  
505 Van Ness Avenue  
San Francisco CA 94102-3298



**Pacific Gas & Electric Company**  
**ELC (Corp ID 39)**  
**Status of Advice Letter 6423E**  
**As of February 22, 2022**

Subject: Updates to Electric Rule 29 and Electric Preliminary Statement Part IU, as per Ordering Paragraph 3 of Resolution E-5167

Division Assigned: Energy

Date Filed: 12-06-2021

Date to Calendar: 12-10-2021

Authorizing Documents: E-5167

<b>Disposition:</b>	<b>Accepted</b>
<b>Effective Date:</b>	<b>12-06-2021</b>

Resolution Required: No

Resolution Number: None

Commission Meeting Date: None

CPUC Contact Information:

[edtariffunit@cpuc.ca.gov](mailto:edtariffunit@cpuc.ca.gov)

AL Certificate Contact Information:

Annie Ho

415-973-8794

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

**PUBLIC UTILITIES COMMISSION**  
505 Van Ness Avenue  
San Francisco CA 94102-3298



To: Energy Company Filing Advice Letter

From: Energy Division PAL Coordinator

Subject: Your Advice Letter Filing

The Energy Division of the California Public Utilities Commission has processed your recent Advice Letter (AL) filing and is returning an AL status certificate for your records.

The AL status certificate indicates:

- Advice Letter Number
- Name of Filer
- CPUC Corporate ID number of Filer
- Subject of Filing
- Date Filed
- Disposition of Filing (Accepted, Rejected, Withdrawn, etc.)
- Effective Date of Filing
- Other Miscellaneous Information (e.g., Resolution, if applicable, etc.)

The Energy Division has made no changes to your copy of the Advice Letter Filing; please review your Advice Letter Filing with the information contained in the AL status certificate, and update your Advice Letter and tariff records accordingly.

All inquiries to the California Public Utilities Commission on the status of your Advice Letter Filing will be answered by Energy Division staff based on the information contained in the Energy Division's PAL database from which the AL status certificate is generated. If you have any questions on this matter please contact the:

Energy Division's Tariff Unit by e-mail to  
**[edtariffunit@cpuc.ca.gov](mailto:edtariffunit@cpuc.ca.gov)**

December 6, 2021

**Advice 6423-E**

(Pacific Gas and Electric Company ID U 39 E)

Public Utilities Commission of the State of California

**Subject: Updates to Electric Rule 29 and Electric Preliminary Statement Part IU, as per Ordering Paragraph 3 of Resolution E-5167**

**Purpose**

Pursuant to Ordering Paragraphs 3 and 5 of Resolution E-5167 ("Resolution"), Pacific Gas and Electric Company ("PG&E" or "the Utility") hereby submits its proposal via Tier 1 Advice Letter to address certain implementation details for Electric Rule 29, *EV Infrastructure Rule*.

**Tariff Revisions****Revisions to Electric Rule 29:**

The tariff revisions are shown in Attachment 1 for PG&E Electric Rule 29, *EV Infrastructure Rule*, relating to the below requirements in Ordering Paragraph 3. For your convenience, redline versions of the tariff revisions for Electric Rule 29 are included as Attachment 2 are shown in green text.

1. Clarification that the cost of underground Electric Vehicle Service Extensions that the Applicant requests be paid for by the Applicant (Section D.3.b)
2. Clarification that Charging Stations installed through PG&E's existing transportation electrification programs are not applicable under Rule 29 (Section A.3)
3. Clarification that Charging Stations will be considered qualified if they meet the safety requirements of the Transportation Electrification Safety Checklist (Section A)
4. Removal of a 300-foot length limitation requirement, replaced with requirement that the EV Service Extension shall extend along the shortest or most practical and available route as necessary to reach a Service Delivery Point identified via mutual agreement between the investor-owned utility and the applicant (Section B.2.e)
5. Stipulation that Rule 29 may be revised after the completion of PG&E's next General Rate Case cycle, following the one during which the advice letter was filed (Section A.4)

6. Additional language to default utilizing existing service where technically feasible and cost efficient (Section B.2.b)
7. Stipulation that participants will be defaulted to PG&E's Business EV rate, though Applicants may choose to change to another Time-Of-Use rate. (Section A)

Ordering Paragraph 3(e) of the Resolution directs each Utility to "modify the definition of electric vehicle within their respective Electric Vehicle Infrastructure Rule to include the same referenced definition of electric vehicles from Decision (D.) 20-09-025." PG&E's definition of Electric Vehicle already includes the same referenced definition as D. 20-09-025; thus, no tariff revisions related to the definition of Electric Vehicle are included in this Advice Letter.

### **Revisions to Electric Preliminary Statement Part IU:**

The tariff revisions are also made to Electric Preliminary Statement Part IU, *AB 841 Memorandum Account (AB841MA)*, relating to the below requirements in Ordering Paragraph 5. For your convenience, redline versions of the tariff revisions are included as Attachment 2

1. Updated to reflect common cost categories across PG&E, SCE, and SDG&E.

### **Comparison of Utility-assigned and Customer-assigned costs and responsibilities for Electric Rule 15, Electric Rule 16, and Electric Rule 29**

Ordering Paragraph 3 of the Resolution directs each Utility provide a clear comparison of the costs and responsibilities that are assigned to the Utility and the Customer for their existing Electric Rule 15, Electric Rule 16, and EV Infrastructure Rules.

	<b>Utility-assigned Responsibilities</b>	<b>Customer-assigned Responsibilities</b>
<b>Rule 15: Distribution Line Extensions</b>	<u>Equipment on utility-side of meter</u> Utility pays for utility facilities up to the remaining customer allowance not used under Rule 16: <ul style="list-style-type: none"> <li>• Planning, designing, engineering</li> <li>• Cables, switches, transformers</li> <li>• Maintenance of line extension facilities installed under the provisions of this rule</li> </ul>	<u>Equipment on utility-side of meter</u> <ul style="list-style-type: none"> <li>• Trenching and excavation</li> <li>• Substructures and conduits</li> <li>• Protective structures</li> <li>• Permitting, rights check, and easements</li> <li>• Overhead to underground conversions</li> <li>• Facility relocations and rearrangements, unless determined by utility to be necessary in order to provide new extension</li> </ul>

	<u>Equipment on customer-side of meter</u> Not applicable to Rule 15.	<ul style="list-style-type: none"> <li>• Environmental studies and remediation</li> </ul> <p>Customer also pays cost of utility-assigned work that exceeds any remaining Rule 16 allowance, less any Rule 15 discounts or refunds.</p> <p><u>Equipment on customer-side of meter</u>          Not applicable to Rule 15.</p>
<b>Rule 16: Service Extensions</b>	<u>Equipment on utility-side of meter</u> Utility pays for utility facilities up to the Rule 16 allowance: <ul style="list-style-type: none"> <li>• Planning, designing, engineering</li> <li>• Conductors and, where necessary, support poles</li> <li>• Service transformers</li> <li>• Utility-owned metering equipment</li> <li>• Maintenance of service facilities installed under the provisions of this rule</li> </ul> <p><u>Equipment on customer-side of meter</u>          Customer responsible for all.</p>	<u>Equipment on utility-side of meter</u> <ul style="list-style-type: none"> <li>• Trenching and excavation</li> <li>• Substructures and conduits</li> <li>• Protective structures</li> <li>• Permitting, any necessary land rights, and easements</li> <li>• Riser material</li> <li>• Overhead to underground conversions</li> <li>• Facility relocations and rearrangements</li> <li>• Environmental studies and remediation</li> </ul> <p>Customer also pays cost of utility-assigned work that exceeds the Rule 16 allowance, less any Rule 16 discounts or refunds.</p> <p><u>Equipment on customer-side of meter</u>          Customer responsible for all.</p>
<b>Rule 29: EV Infrastructure</b>	<u>Equipment on utility-side of meter</u> <ul style="list-style-type: none"> <li>• Planning, designing, engineering</li> <li>• Materials</li> <li>• Trenching and excavation</li> <li>• Permitting, land rights check, and easements</li> <li>• Civil work</li> <li>• Maintenance of EV Infrastructure facilities installed under the provisions of this rule</li> </ul>	<u>Equipment on utility-side of meter</u> <ul style="list-style-type: none"> <li>• Environmental studies and issue mitigation</li> <li>• Facility relocations and rearrangements, unless determined by utility to be necessary in order to provide new service</li> <li>• Overhead to underground conversions, unless required or otherwise the most cost-effective design</li> </ul>

	<u>Equipment on customer-side of meter</u> Customer responsible for all.	<u>Equipment on customer-side of meter</u> Customer responsible for all.
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### **Expected Revenue Requirement and Rate Impact**

Ordering Paragraph 3 of the Resolution directs each Utility to submit their respective revenue requirement and rate impact resulting from their EV Infrastructure Rule through the end of 2024. In its 2023 General Rate Case filing, PG&E included forecasts related to Rule 29. Thus, there will be no further impact to the revenue requirement or rates through 2024 as costs associated with Rule 29 have already been incorporated into PG&E's 2023 GRC.

### **Common proposal to define the cost categories of poles, vaults, service drops, transformers, mounting pads, trenching, conduit, wire, cable, meters, associated engineering and civil construction work, and other equipment that the IOUs will cover under the EV Infrastructure Rules.**

PG&E's costs are recorded in accordance with Uniform System of Accounts Prescribed for Public Utilities and Licensees Subject to the Provisions of the Federal Power Act<sup>1</sup> (FERC's Uniform System of Accounts). PG&E, as well as the other investor-owned utilities (IOUs), is subject to FERC's Uniform System of Accounts. To comply with Ordering Paragraph 3 that the IOUs must submit a common proposal to define the cost categories, PG&E recommends that the Distribution Plant<sup>2</sup> accounting categories in FERC's Uniform System of Accounting be used for reporting. The cost categories listed in the Resolution would be mapped to FERC accounting categories. This would allow all IOUs to report consistently, with little to no change of their accounting systems.

Where a FERC accounting category may not provide the level of detail required for Rule 29 cost reporting, PG&E will use its internal asset class categories to further segment costs in alignment with the categories listed in Ordering Paragraph 3 of the Resolution. While there may be some differences among IOUs in how some costs are segmented at this granular level, such as the spread of overhead costs, using the FERC

<sup>1</sup> 18 CFR 101

<sup>2</sup> 18 CFR 101, Electric Plant Chart of Accounts

accounting categories as the baseline for reporting will achieve the uniformity and consistency among the IOUs that the Commission seeking.

PG&E would like to note that the cost category of “civil construction work” is not at the same level as the other cost categories. The cost categories of vaults, mounting pads, trenching, and conduits would fall under the definition of civil construction work. Therefore, so as not to double count costs, PG&E recommends that when reporting costs, cost categories that are defined as “civil construction work” be identified as such, as opposed to double reporting these costs in a second category.

### **Protests**

**\*\*\*Due to the COVID-19 pandemic and the shelter at home orders, PG&E is currently unable to receive protests or comments to this advice letter via U.S. mail or fax. Please submit protests or comments to this advice letter to EDTariffUnit@cpuc.ca.gov and PGETariffs@pge.com\*\*\***

Anyone wishing to protest this submittal may do so by letter sent via U.S. mail, facsimile or E-mail, no later than December 27, 2021, which is 21 days<sup>3</sup> after the date of this submittal. Protests must be submitted to:

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

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

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

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

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

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<sup>3</sup> The 20-day protest period concludes on a weekend, therefore, PG&E is moving this date to the following business day.

Facsimile: (415) 973-3582  
E-mail: PGETariffs@pge.com

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

### **Effective Date**

PG&E requests that this Tier 1 advice submittal become effective upon date of submittal, which is December 6, 2021.

### **Notice**

In accordance with General Order 96-B, Section IV, a copy of this advice letter is being sent electronically and via U.S. mail to parties shown on the attached list and the parties on the service list for R.18-12-006. Address changes to the General Order 96-B service list should be directed to PG&E at email address PGETariffs@pge.com. For changes to any other service list, please contact the Commission's Process Office at (415) 703-2021 or at Process\_Office@cpuc.ca.gov. Send all electronic approvals to PGETariffs@pge.com. Advice letter submittals can also be accessed electronically at: <http://www.pge.com/tariffs/>.

/S/

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Sidney Bob Dietz II  
Director, Regulatory Relations

Attachments

cc: Service List R.18-12-006





# 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: Annie Ho

Phone #: (415) 973-8794

E-mail: PGETariffs@pge.com

E-mail Disposition Notice to: AMHP@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) #: 6423-E

Tier Designation: 1

Subject of AL: Updates to Electric Rule 29 and Electric Preliminary Statement Part IU, as per Ordering Paragraph 3 of Resolution E-5167

Keywords (choose from CPUC listing): Compliance

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

If AL submitted in compliance with a Commission order, indicate relevant Decision/Resolution #: E-5167

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: 12/6/21

No. of tariff sheets: 29

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 proposed<sup>1</sup>: N/A

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

<sup>1</sup>Discuss in AL if more space is needed.

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

CPUC, Energy Division  
Attention: Tariff Unit  
505 Van Ness Avenue  
San Francisco, CA 94102  
Email: [EDTariffUnit@cpuc.ca.gov](mailto:EDTariffUnit@cpuc.ca.gov)

Name: Sidney Bob Dietz II, c/o Megan Lawson  
Title: Director, Regulatory Relations  
Utility Name: Pacific Gas and Electric Company  
Address: 77 Beale Street, Mail Code B13U  
City: San Francisco, CA 94177  
State: California Zip: 94177  
Telephone (xxx) xxx-xxxx: (415)973-2093  
Facsimile (xxx) xxx-xxxx: (415)973-3582  
Email: [PGETariffs@pge.com](mailto:PGETariffs@pge.com)

Name:  
Title:  
Utility Name:  
Address:  
City:  
State: District of Columbia Zip:  
Telephone (xxx) xxx-xxxx:  
Facsimile (xxx) xxx-xxxx:  
Email:

Clear Form

<b>Cal P.U.C. Sheet No.</b>	<b>Title of Sheet</b>	<b>Cancelling Cal P.U.C. Sheet No.</b>
52195-E	ELECTRIC PRELIMINARY STATEMENT PART IU AB 841 MEMORANDUM ACCOUNT (AB841MA) Sheet 1	49187-E
52196-E	ELECTRIC PRELIMINARY STATEMENT PART IU AB 841 MEMORANDUM ACCOUNT (AB841MA) Sheet 2	
52197-E	ELECTRIC RULE 29 EV INFRASTRUCTURE Sheet 1	49247-E
52198-E	ELECTRIC RULE 29 EV INFRASTRUCTURE Sheet 2	
52199-E	ELECTRIC RULE 29 EV INFRASTRUCTURE Sheet 3	49248-E
52200-E	ELECTRIC RULE 29 EV INFRASTRUCTURE Sheet 4	49249-E
52201-E	ELECTRIC RULE 29 EV INFRASTRUCTURE Sheet 5	49191-E
52202-E	ELECTRIC RULE 29 EV INFRASTRUCTURE Sheet 6	49192-E
52203-E	ELECTRIC RULE 29 EV INFRASTRUCTURE Sheet 7	49193-E
52204-E	ELECTRIC RULE 29 EV INFRASTRUCTURE Sheet 8	49194-E
52205-E	ELECTRIC RULE 29 EV INFRASTRUCTURE Sheet 9	49195-E
52206-E	ELECTRIC RULE 29 EV INFRASTRUCTURE Sheet 10	49196-E
52207-E	ELECTRIC RULE 29 EV INFRASTRUCTURE Sheet 11	49197-E
52208-E	ELECTRIC RULE 29 EV INFRASTRUCTURE Sheet 12	49198-E

<b>Cal P.U.C. Sheet No.</b>	<b>Title of Sheet</b>	<b>Cancelling Cal P.U.C. Sheet No.</b>
52209-E	ELECTRIC RULE 29 EV INFRASTRUCTURE Sheet 13	49199-E
52210-E	ELECTRIC RULE 29 EV INFRASTRUCTURE Sheet 14	49200-E
52211-E	ELECTRIC RULE 29 EV INFRASTRUCTURE Sheet 15	49201-E
52212-E	ELECTRIC RULE 29 EV INFRASTRUCTURE Sheet 16	49250-E
52213-E	ELECTRIC RULE 29 EV INFRASTRUCTURE Sheet 17	49203-E
52214-E	ELECTRIC RULE 29 EV INFRASTRUCTURE Sheet 18	49251-E
52215-E	ELECTRIC RULE 29 EV INFRASTRUCTURE Sheet 19	49205-E
52216-E	ELECTRIC RULE 29 EV INFRASTRUCTURE Sheet 20	49206-E
52217-E	ELECTRIC RULE 29 EV INFRASTRUCTURE Sheet 21	49207-E
52218-E	ELECTRIC RULE 29 EV INFRASTRUCTURE Sheet 22	49208-E
52219-E	ELECTRIC RULE 29 EV INFRASTRUCTURE Sheet 23	49209-E
52220-E	ELECTRIC TABLE OF CONTENTS Sheet 1	52188-E
52221-E	ELECTRIC TABLE OF CONTENTS Sheet 17	52189-E
52222-E	ELECTRIC TABLE OF CONTENTS Sheet 18	52190-E
52223-E	ELECTRIC TABLE OF CONTENTS Sheet 21	49253-E



**ELECTRIC PRELIMINARY STATEMENT PART IU**  
**AB 841 MEMORANDUM ACCOUNT (AB841MA)**

Sheet 1

**IU. AB 841 Memorandum Account (AB841MA)**

1. **PURPOSE:** The purpose of the PG&E AB 841 Memorandum Account (AB841MA) is to record and track incremental costs associated with the design and deployment of electrical distribution infrastructure on the utility side of the customer's meter for customers installing separately metered infrastructure to support electric vehicle charging stations, other than those in single-family residences, from the effective date of Electric Rule 29 in 2021 to the effective date of PG&E's next General Rate Case decision as required by Public Utilities Code Section 740.19(c). Such incremental costs shall include capital and capitalized O&M and other capitalized expense costs to comply with PG&E Electric Rule 29 and Public Utilities Code Section 740.19(c). Such costs forecast for periods subsequent to PG&E's next General Rate Case filing shall be recovered in such periodic General Rate Cases as provided by Public Utilities Code Section 740.19(c).

2. **APPLICABILITY:** The AB841MA shall apply to all customers under all rate schedules and contracts for electric service subject to the jurisdiction of the Commission, except for those schedules or contracts specifically excluded by the Commission.

3. **REVISION DATE:** PG&E will seek recovery of its actual recorded costs from the effective date of the tariff in 2021 to the effective date of its next General Rate Case, scheduled to be January 1, 2023, in that General Rate Case. The authorized to-be-collected or refund amount in the filing, including an allowance for Revenue Fees and Uncollectibles (RF&U) account expense, will be transferred to the Distribution Revenue Adjustment Mechanism (DRAM) for true-up in rates.

4. **RATES:** The AB841MA does not have a rate component.

5. **ACCOUNTING PROCEDURE:** PG&E's costs are recorded in accordance with Uniform System of Accounts Prescribed for Public Utilities and Licensees Subject to the Provisions of the Federal Power Act<sup>1</sup> (FERC's Uniform System of Accounts). PG&E, as well as the other Investor-Owned Utilities (IOUs), is subject to FERC's Uniform System of Accounts. The Distribution Plant<sup>2</sup> accounting categories in FERC's Uniform System of Accounting will be used for reporting. The cost categories of poles, vaults, service drops, transformers, mounting pads, trenching, conduit, wire, cable, meters, associated engineering and civil construction work, and other equipment that PG&E will cover under Rule 29 will be mapped to FERC accounting categories.

Where a FERC accounting category may not provide the level of detail required for Rule 29 cost reporting, PG&E will use its internal asset class categories to further segment costs in alignment with the categories listed above.

The cost category of "civil construction work" is not at the same level as the other cost categories. The cost categories of vaults, mounting pads, trenching, and conduits would fall under the definition of civil construction work. Therefore, so as not to double count costs, when reporting costs, cost categories that are defined as "civil construction work" will be identified as such, as opposed to double reporting these costs in a second category.

(N)

(N)

(L)

(L)

<sup>1</sup> 18 CFR 101

<sup>2</sup> 18 CFR 101, Electric Plant Chart of Accounts

(N)

(N)



**ELECTRIC PRELIMINARY STATEMENT PART IU**  
**AB 841 MEMORANDUM ACCOUNT (AB841MA)**

Sheet 2

IU. AB 841 Memorandum Account (AB841MA) (Cont'd)

**5. ACCOUNTING PROCEDURE (Cont'd):**

PG&E will maintain the AB841MA by making the following entries, net of RF&U, to the account at the end of the month, or as applicable:

- a. A debit entry equal to the actual incremental expenses incurred, for PG&E Electric Rule 29 and compliance with Public Utilities Code Section 740.19(c);
- b. A debit or credit entry equal to the capital revenue requirement associated with the actual incremental capital costs incurred for PG&E Electric Rule 29 and compliance with Public Utilities Code Section 740.19(c) as defined in section 3. Capital-related revenue requirements include depreciation expense, return on investment, federal and state income taxes, and property taxes associated with the costs of installed equipment;
- c. A debit or credit entry to transfer the balance to the Distribution Revenue Adjustment Mechanism (DRAM) or to any other regulatory balancing account as authorized by the Commission in PG&E's next General Rate Case decision or other decision as required by Public Utilities Code Section 740.19(c); and
- d. An entry equal to interest on the average balance in the account at the beginning of the month and the balance after the above entries, at a rate equal to one-twelfth of the interest rate on three-month Commercial Paper for the previous month, as reported in the Federal Reserve Statistical Release, H.15 or its successor.

(L)

(L)

(Continued)

Advice  
Decision

6423-E

Issued by  
**Robert S. Kenney**  
Vice President, Regulatory Affairs

Submitted  
Effective  
Resolution

December 6, 2021

E-5167



**ELECTRIC RULE 29**  
**EV INFRASTRUCTURE**

Sheet 1

A. **APPLICABILITY:** This rule is applicable to the design and deployment of Electrical Distribution Infrastructure (“EV Service Extensions”) that extends from PG&E’s Distribution Line facilities to the Service Delivery Point on the utility side of the Customer’s meter for all customers installing separately metered infrastructure to support Charging Stations, other than those in single-family residences. To be eligible for this rule, Applicant must purchase and install qualified Charging Stations in the quantity approved by PG&E in PG&E’s sole discretion. Charging Stations will be considered qualified if they meet the safety requirements of the Transportation Electrification Safety Checklist related to utility-side infrastructure adopted via California Public Utilities Commission Decision (D.)18-05-040. Applicant must agree to maintain and operate the Charging Stations associated with this rule for a period of five years. As a default, participants will be enrolled in PG&E’s Business EV rate unless the rate becomes closed or another rate is determined to be more appropriate. However, applicants may choose to change to another Time-Of-Use rate.

(T)  
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(T)  
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(T)  
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(T)

1. **INCIDENTAL LOAD:** An exception to the requirement that eligible meters are to be dedicated exclusively to EV charging is that appliances and apparatus that solely serve the overall EV infrastructure of the site and no other use may be included as load on the BEV-dedicated meter. The eligible incidental load must not exceed 600 watts/277 volts and be limited to devices directly needed solely to support the EV infrastructure and charging uses of the site itself. The added load included on the EV meter must not include load from any non-EV charging infrastructure facilities, appliances or apparatus.

2. **EXISTING PROGRAMS:** Electric Vehicle Supply Equipment installed through PG&E’s Electric Vehicle Charge Network, Electric Vehicle Fleet, Electric Vehicle Fast Charge, Empower Electric Vehicle, Electric Vehicle Charge Schools, or Electric Vehicle Charge Parks are not applicable under this Rule.

3. **TARIFF MODIFICATIONS:** The California Public Utilities Commission may make modifications to this Rule that would go into effect as early as 2027, upon completion of PG&E’s 2023 General Rate Case cycle.

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(L)

(Continued)



**ELECTRIC RULE 29  
EV INFRASTRUCTURE**

Sheet 2

**B. GENERAL**

1. DESIGN. PG&E will be responsible for planning, designing, and engineering its EV Service Extensions using PG&E's standards for design, materials and construction.
2. CONSTRUCTION AND DESIGN SPECIFICATIONS, STANDARDS, TERMS, AND CONDITIONS OF A NEW EXTENSION OF SERVICE PROJECT.
  - a. In compliance with Section 783 of the Public Utilities Code, PG&E will apply only those construction and design specifications, standards, terms, and conditions that are applicable to a new extension of service project for the 18 months following the date the application for a new extension of service project is approved.
  - b. PG&E may default utilizing existing service where technically feasible and cost efficient.
  - c. PG&E may adopt modifications to those construction and design specifications, standards, terms, and conditions applicable to a new extension-of-service project only in accordance with any of the following:

(L)

(L)

(N)  
(N)

(T)/(L)  
(L)  
|  
(L)

(Continued)





**ELECTRIC RULE 29**  
**EV INFRASTRUCTURE**

Sheet 3

- B. GENERAL (Cont'd.). (L)
2. Construction and Design Specifications, Standards, Terms, and Conditions of a New Extension of Service Project (Cont'd.). (L)
- c. (Cont'd.). (T)/(L)  
(L)
- 1) An order or decision of the California Public Utilities Commission (CPUC) or any other state or federal agency with jurisdiction. (L)
- 2) A work order issued by PG&E to implement construction or design changes necessitated by a customer-driven scope of work modification. (L)
- 3) A material-related design change identified by PG&E to remedy a construction material defect that could pose a risk to public safety. (L)
- d. Approval date of a new extension of service application refers to the earlier of either the effective date of the contract for the extension of electric service or the date when PG&E first invoices the customer for the extension of electric service. "Invoice" is to mean when PG&E presents an offer to the customer for the extension of service in response to an application for an extension of service submitted pursuant to the regulations of the CPUC and applicable specifications of PG&E. (T)/(L)  
(L)
- e. EV Service Extension shall extend along the shortest or most practical and available route as necessary to reach a Service Delivery Point identified via mutual agreement between PG&E and the Applicant. (T)/(L)  
(T)/(L)
- (D)  
(D)
- 1) The Applicant will be responsible for all costs of the service that are a result of the requested EV Service Extension differing from the shortest or most practical and available route. This additional cost is further described in section E.1.j. of this Rule. (T)/(L)  
(T)/(L)  
(L)

(Continued)



**ELECTRIC RULE 29  
EV INFRASTRUCTURE**

Sheet 4

B. GENERAL (Cont'd.).

(L)

3. EV SERVICE EXTENSION FACILITIES. PG&E's EV Service Extension Facilities shall consist of (a) primary or secondary underground or overhead service conductors, (b) poles to support overhead service conductors, (c) service transformers, (d) vaults, pads, and conduits, (e) trenching, (f) PG&E-owned metering equipment, and (g) other PG&E-owned service related equipment.
4. OWNERSHIP OF FACILITIES. EV Service Extension Facilities installed under the provisions of this rule shall be owned, operated, and maintained by PG&E.
5. PRIVATE LINES. PG&E shall not be required to connect EV Service Extension Facilities to or serve any Applicant from electric facilities that are not owned, operated, and maintained by PG&E.
6. SPECIAL OR ADDED FACILITIES. Any special or added facilities PG&E installs at the request of Applicant, will be installed at Applicant's expense in accordance with Rule 2—Description of Service. Any other facilities PG&E installs at the request of Applicant, will be installed at Applicant's expense in accordance with the applicable Rule for those facilities.
7. TEMPORARY SERVICE FACILITIES. Service Facilities installed for temporary service or for operations of speculative character or questionable permanency shall be made in accordance with the fundamental installation and ownership provisions Electric Rule 16 – Service Extensions, except that all charges and refunds shall be made under the provisions of Electric Rule 13—Temporary Service.
8. STREETLIGHTS. Streetlight services and appurtenant facilities shall be installed in accordance with the service provisions of the applicable street light schedule.
9. GENERATING FACILITY INTERCONNECTIONS. Generating Facility Interconnections shall be installed in accordance with the provisions of Electric Rule 21 – Generating Facility Interconnections.
10. CONTRACTS. Each Applicant requesting service may be required to execute a written contract(s) prior to PG&E performing its work to establish service. Such contract(s) shall be in the form on file with the California Public Utilities Commission (Commission).

(L)

(Continued)



**ELECTRIC RULE 29  
EV INFRASTRUCTURE**

Sheet 5

- B. GENERAL (Cont'd.) (L)
11. DISTRIBUTION LINE EXTENSIONS. Whenever PG&E's distribution system is not complete to the point designated by PG&E where the Service Extension is to be connected to PG&E's distribution system, the extension of Distribution Line facilities will be installed in accordance with Rule 15—Distribution Line Extensions.
12. RIGHTS-OF-WAY. Rights-of-way or easements maybe required by PG&E to install EV Service Extension Facilities on Applicant's property to serve only Applicant, the cost of which are the responsibility of the Applicant.
- a. SERVICE FACILITIES. If the EV Service Extension Facilities must cross property owned by a third party to serve Applicant, PG&E may, at its option, install such Service Facilities after appropriate rights-of-way or easements, satisfactory to PG&E, are obtained.
- b. DISTRIBUTION LINE EXTENSIONS. If PG&E's facilities installed on Applicant's property, or third-party property, will be or are designed to serve adjacent property, then PG&E may, at its option, install its facilities after appropriate rights-of-way or easements, satisfactory to PG&E, are obtained.
- c. CLEARANCES. Any necessary rights-of-way or easements for PG&E's facilities shall have provisions to maintain legal clearances from adjacent structures.
13. ENVIRONMENTAL STUDIES OR ISSUE MITIGATION: Environmental studies or issue mitigation may be required by PG&E to install the EV Service Extension, the cost of which are the responsibility of the Applicant. (L)

(Continued)



**ELECTRIC RULE 29**  
**EV INFRASTRUCTURE**

Sheet 6

B. GENERAL (Cont'd.).

14. ACCESS TO APPLICANT'S PREMISES. PG&E shall at all times have the right to enter and leave Applicant's Premises for any purpose connected with the furnishing of electric service (meter reading, inspection, testing, routine repairs, replacement, maintenance, vegetation management, emergency work, etc.) and the exercise of any and all rights secured to it by law, or under PG&E's tariff schedules. These rights include, but are not limited to:
- a. The use of a PG&E-approved locking device, if Applicant desires to prevent unauthorized access to PG&E's facilities;
  - b. Safe and ready access for PG&E personnel free from unrestrained animals;
  - c. Unobstructed ready access for PG&E's vehicles and equipment to install, remove, repair, or maintain its facilities; and
  - d. Removal of any and all of its property installed on Applicant's Premises after the termination of service.
15. SERVICE CONNECTIONS. Only personnel duly authorized by PG&E are allowed to connect or disconnect service conductors to or from PG&E's Distribution Lines, remove PG&E-owned service facilities and equipment, or perform any work upon PG&E-owned existing facilities.

(L)

(L)

(Continued)



**ELECTRIC RULE 29  
EV INFRASTRUCTURE**

Sheet 7

C. METERING FACILITIES.

(L)

1. GENERAL

- a. METER ALL USAGE. Delivery of all electric power and energy to the Charging Station will be metered.
- b. METER LOCATION. All meters and associated metering equipment shall be located at some protected location on Applicant's Premises as approved by PG&E.
- c. METER OWNERSHIP. PG&E shall own and maintain all meters and associated metering equipment unless otherwise allowed by PG&E's tariffs.

2. NUMBER OF METERS. Normally only one meter will be installed for a single enterprise on a single Premises, except:

- a. When otherwise required or allowed under PG&E's tariff schedules;
- b. At the option of and as determined by PG&E, for its operating convenience, consistent with its engineering design; or,
- c. When required by law or local ordinance;
- d. When additional services are granted by PG&E.

A single meter is required for each single enterprise operating in one building or group of buildings or other development on a single Premises such as, but not limited to, a commercial business, school campus, industrial manufacturer or recreational vehicle park, unless otherwise approved by PG&E. See Rule 18—Supply to Separate Premises and Submetering of Electric Energy for more information.

(L)

(Continued)



**ELECTRIC RULE 29**  
**EV INFRASTRUCTURE**

Sheet 8

**D. SERVICE EXTENSIONS**

(L)

1. GENERAL LOCATION. The location of the EV Service Extension facilities shall extend:
  - a. FRANCHISE AREA. From the point of connection at the Distribution Line to Applicant's nearest property line abutting upon any street, highway, road, or right-of-way, along which it already has, or will install distribution facilities; and,
  - b. PRIVATE PROPERTY. On private property, along the shortest, most practical and available route (clear of obstructions) as necessary to reach a Service Delivery Point designated by PG&E.
2. NUMBER OF EV SERVICE EXTENSIONS. PG&E will not normally provide more than one EV Service Extension, including associated facilities, either overhead or underground for any one building or group of buildings, for a single enterprise on a single Premises, except:
  - a. TARIFF SCHEDULES. Where otherwise allowed or required under PG&E's tariff schedules; or,
  - b. PG&E CONVENIENCE. At the option of and as determined by PG&E, for its operating convenience, consistent with its engineering design for different voltage and phase classification, or when replacing an existing service; or,
  - c. ORDINANCE. Where required by ordinance or other applicable law, for such things as fire pumps, fire alarm systems, etc.

(L)

(Continued)



**ELECTRIC RULE 29**  
**EV INFRASTRUCTURE**

Sheet 9

- D. SERVICE EXTENSIONS (Cont'd.) (L)
3. UNDERGROUND INSTALLATIONS. Underground EV Service Extensions will be installed:
- a. UNDERGROUND REQUIRED. Underground EV Service Extensions (1) shall be installed where required to comply with applicable tariff schedules, laws, ordinances, or similar requirements of governmental authorities having jurisdiction, and (2) may be necessary as determined by PG&E where Applicant's load requires a separate transformer installation of 75 kVa or greater.
- b. UNDERGROUND OPTIONAL. An underground EV Service Extension may be installed in an area where it is not otherwise required and when requested by Applicant and agreed upon by PG&E. The additional cost of providing an underground Electric Vehicle Service Extension as requested by the Applicant, instead of an overhead service, will be paid for by the Applicant for installations in which an overhead extension can be installed. (L)  
(N)
- c. PG&E will not accept requests under the Special Facilities provision of Rule 2, Section I, for underground distribution systems that call for specified pieces of electrical equipment to be installed in below-ground structures in circumstances where it is technically feasible to install the equipment above ground. Such requests will not be accepted for situations indicated in D.3.c.1, D.3.c.2, and with certain exceptions D.3.c.3, below. (L)  
(T)/(L)  
(T)/(L)  
(L)
- 1) New construction on any property except public property and public rights-of-way;
- 2) Circumstances in which capacity upgrades, conversions, and relocations are required due to customer-driven renovations of existing structures or other building activities on any property except public property and public rights of way resulting in a change of use or occupancy as defined in state or local law;
- 3) Except for situations on a case-by-case basis in which the local authority and PG&E agree to locate Equipment above ground because the above-ground location is technically feasible for the installation. (L)

(Continued)



**ELECTRIC RULE 29  
EV INFRASTRUCTURE**

Sheet 10

- D. SERVICE EXTENSIONS (Cont'd.) (L)
3. UNDERGROUND INSTALLATIONS (Cont'd.)
- c. (Cont'd.)
- For purposes of this provision, specified pieces of equipment include all primary voltage from 4 kV to 35 kV electrical distribution system equipment (Equipment), including, but not limited to, transformers, switches and fuses, capacitors, and junction bars.
- “Technically feasible” means that enough space is, or can be made, available above ground for the electrical distribution Equipment needed for PG&E to serve customers and that other requirements, such as obtaining the required permits, are met. The required space is defined by existing design standards within the operation and maintenance requirements that are in compliance with applicable safety codes and regulations such as CPUC General Order 128
- Where PG&E has existing primary voltage distribution equipment installed in below ground structures, the equipment will continue to be operated and maintained below ground. However, in accordance with Section D.3.c.iii., above, where existing below-ground Equipment must be modified by PG&E, above-ground retrofits shall only occur in circumstances in which capacity upgrades, conversions, and relocations are required due to customer-driven renovations of existing structures or other building activities resulting in a change of use or occupancy as defined in state or local law; or when agreed to by the local authority and PG&E on a case-by-case basis.
- Design and installation of any above-ground Equipment shall comply with the typical installations depicted in PG&E’s Electric Design Manual, as well as land use laws, including local ordinances respecting matters of public health, safety and convenience, that are of general applicability to above-ground utility structures regardless of ownership, to the extent the same would not directly or effectively require the Equipment to be located underground (L)

(Continued)





**ELECTRIC RULE 29  
EV INFRASTRUCTURE**

Sheet 11

- D. SERVICE EXTENSIONS (Cont'd.) (L)
3. UNDERGROUND INSTALLATIONS. (Cont'd.)
- c. (Cont'd.)
- When modifying existing Equipment installed in the above-ground public rights-of-way, PG&E shall comply with local ordinances respecting matters of public health and safety and convenience, to the extent that the same are of general applicability to other utility and public works structures or equipment, regardless of ownership, installed in the public rights-of-way do not directly or effectively require the Equipment to be located underground, or otherwise conflict with the design standards contained in PG&E's Electric Design Manual and similar documents.
4. OVERHEAD INSTALLATIONS. Overhead EV Service Extensions are permitted except under the circumstances specified in section D.3.a above.
5. UNUSUAL SITE CONDITIONS. In cases where Applicant's building or facility to be served is located a considerable distance from the available Distribution Line or where there is an obstruction or other deterrent obstacle or hazard such as plowed land, ditches, or inaccessible security areas between PG&E's Distribution Line and Applicant's building or facility to be served that would prevent PG&E from prudently installing, owning, and maintaining its Service Facilities, PG&E may at its discretion, waive the normal Service Delivery Point location. In such cases, the Service Delivery Point will be at such other location on Applicant's property as may be mutually agreed upon; or, alternatively, the Service Delivery Point may be located at or near Applicant's property line as close as practical to the available Distribution Line. (L)

(Continued)



**ELECTRIC RULE 29  
EV INFRASTRUCTURE**

Sheet 12

**E. RESPONSIBILITIES FOR NEW EV SERVICE EXTENSIONS**

(L)

1. **APPLICANT RESPONSIBILITY.** In accordance with PG&E's design, specifications, and requirements for the installation of EV Service Extensions, subject to PG&E's inspection and approval, Applicant is responsible for the following, including any costs:
  - a. **SERVICE LATERAL FACILITIES**
    - 1) **CLEAR ROUTE.** Providing (or paying for) a route on any private property that is clear of obstructions which would inhibit the construction of either underground or overhead EV Service Extensions.
  - b. **APPLICANT'S FACILITY DESIGN AND OPERATION.** Applicant shall be solely responsible to plan, design, install, own, maintain, and operate facilities and equipment beyond the Service Delivery Point (except for PG&E-owned metering facilities) in order to properly receive and utilize the type of electric service available from PG&E. Refer to Rule 2 for a description, among other things, of:
    - 1) Available service delivery voltages and the technical requirements and conditions to qualify for them,
    - 2) Customer utilization voltages,
    - 3) Load balancing requirements,
    - 4) Requirements for installing electrical protective devices,
    - 5) Loads that may cause service interference to others, and
    - 6) Motor starting limitations.
  - c. **REQUIRED SERVICE EQUIPMENT.** Applicant shall, at its sole liability, risk, and expense, be responsible to furnish, install, own, maintain, inspect, and keep in good and safe condition, all facilities of any kind or character on Applicant's Premises that are not the responsibility of PG&E but are required by PG&E for Applicant to receive service.

(L)

(Continued)



**ELECTRIC RULE 29  
EV INFRASTRUCTURE**

Sheet 13

- E. RESPONSIBILITIES FOR NEW EV SERVICE EXTENSIONS (Cont'd.). (L)
1. APPLICANT RESPONSIBILITY (Cont'd.).
- c. REQUIRED SERVICE EQUIPMENT (Cont'd.).
- Such facilities shall also include but are not limited to the overhead or underground termination equipment, conduits located under or within structures, service entrance conductors from the Service Delivery Point to the location of PG&E's metering facilities, connectors, meter sockets, meter and instrument transformer housing, service switches, circuit breakers, fuses, relays, wireways, metered conductors, machinery and apparatus of any kind or character. This also includes all facilities required to provide Electric Vehicle charging services at the site, including but not limited to Electric Vehicle Supply Equipment. The capacity of the Customer-Side Electric Vehicle infrastructure, as defined in kilowatts, will be used in the design of the capacity of the Utility-Side EV Service Extension. Detailed information on PG&E's service equipment requirements will be furnished by PG&E.
- d. COORDINATION OF ELECTRICAL PROTECTIVE DEVICES. When, as determined by PG&E, Applicant's load is of sufficient size as to require coordination of response time characteristics between Applicant's electrical protective devices (circuit breakers, fuses, relays, etc.) and those of PG&E, it shall be Applicant's responsibility to provide such coordination in accordance with Rule 2.
- e. LIABILITY. PG&E shall incur no liability whatsoever, for any damage, loss or injury occasioned by:
- 1) Applicant-owned equipment or Applicant's transmission and delivery of energy; or,
  - 2) The negligence, omission of proper protective devices, want of proper care, or wrongful act of Applicant, or any agents, employees, or licensees of Applicant, on the part of Applicant in installing, maintaining, using, operating, or interfering with any such conductors, lines, machinery, or apparatus. (L)

(Continued)



**ELECTRIC RULE 29**  
**EV INFRASTRUCTURE**

Sheet 14

- E. RESPONSIBILITIES FOR NEW EV SERVICE EXTENSIONS (Cont'd.). (L)
1. APPLICANT RESPONSIBILITY (Cont'd.).
- f. FACILITY TAMPERING. Applicant shall provide a suitable means acceptable to PG&E for placing its seals on meter rings and covers of service enclosures and instrument transformer enclosures which protect unmetered energized conductors installed by Applicant. All PG&E-owned meters and enclosure covers will be sealed only by PG&E's authorized employees and such seals shall be broken only by PG&E's authorized employees. However, in an emergency, PG&E may allow a public authority or other appropriate party to break the seal. Any unauthorized tampering with PG&E-owned seals or connection of Applicant-owned facilities to unmetered conductors at any time is prohibited and is subject to the provisions of Rule 11—Discontinuance and Restoration of Service for unauthorized use.
- g. TRANSFORMER INSTALLATIONS ON APPLICANT'S PREMISES. Transformer installations on Applicant's Premises shall be as specified by PG&E and in accordance with the following applicable provisions:
- 1) SPACE FOR TRANSFORMERS. Applicant shall provide space on Applicant's Premises at a location approved by PG&E for a standard transformer installation including any necessary switches, capacitors, and electric protective equipment where required if (a) in an overhead area, PG&E determines that the load to be served is such that a separate transformer installation, or (b) if PG&E determines that the installation of a padmounted or subsurface transformer of any size is required on Applicant's Premises to serve only Applicant. (L)

(Continued)



**ELECTRIC RULE 29**  
**EV INFRASTRUCTURE**

Sheet 15

- E. RESPONSIBILITIES FOR NEW EV SERVICE EXTENSIONS (Cont'd.). (L)
1. APPLICANT RESPONSIBILITY (Cont'd.).
- g. TRANSFORMER INSTALLATIONS ON APPLICANT'S PREMISES (Cont'd.).
- 2) TRANSFORMER LIFTING REQUIREMENTS. PG&E will not install transformers at locations where PG&E cannot use its standard transformer lifting equipment.
- 3) OVERHEAD TRANSFORMERS. In remote areas or in areas not zoned for residential or commercial use or for underground services, padmounted transformers are preferred for installation on Applicant's Premises however, where PG&E determines that it is not practical to install a transformer on a pad, in a room or vault, PG&E may furnish a pole-type structure for an installation not exceeding 500 kVa.
- h. BUILDING CODE REQUIREMENTS. Any service equipment and other related equipment owned by Applicant, shall conform with applicable laws, codes, and ordinances of all governmental authorities having jurisdiction. (L)

(Continued)



**ELECTRIC RULE 29  
EV INFRASTRUCTURE**

Sheet 16

- E. RESPONSIBILITIES FOR NEW EV SERVICE EXTENSIONS (Cont'd.). (L)
1. APPLICANT RESPONSIBILITY (Cont'd.).
- i. REASONABLE CARE. Applicant shall exercise reasonable care to prevent PG&E's EV Service Extensions, other PG&E facilities, and meters owned by PG&E or others, on the Applicant's Premises from being damaged or destroyed, and shall refrain from interfering with PG&E's operation of the facilities and shall notify PG&E of any obvious defect. (L)
- j. EXCESS SERVICE: The costs of the EV Service Extension that are the result of the EV Service Extension design differing from the shortest or most practical and available route, and as requested by the Applicant. (L)  
(T)/(L)  
(T)/(L)
2. PG&E RESPONSIBILITY (L)
- a. ELECTRICAL DISTRIBUTION INFRASTRUCTURE. After Applicant meets all requirements to receive service, PG&E will furnish, install, own, and maintain the following EV Service Extension Facilities, including but not limited to (a) primary or secondary underground or overhead service conductors, (b) poles to support overhead service conductors, (c) service transformers, (d) vaults, pads, and conduits, (e) trenching, (f) PG&E-owned metering equipment, and (g) other PG&E-owned service related equipment :
- 1) EXCAVATION. All necessary trenching, backfilling, and other digging as required including permit fees.
- 2) CONDUIT AND SUBSTRUCTURES. Furnishing, installing, owning, and maintaining all Conduits (including pull wires) and Substructures as necessary to install the EV Service Extension. (L)

(Continued)



**ELECTRIC RULE 29  
EV INFRASTRUCTURE**

Sheet 17

- E. RESPONSIBILITIES FOR NEW EV SERVICE EXTENSIONS (Cont'd.). (L)
2. PG&E RESPONSIBILITY (Cont'd.).
- a. Electrical Distribution Infrastructure (Cont'd.).
- 3) PROTECTIVE STRUCTURES. Furnishing, installing, owning, and maintaining all necessary Protective Structures as specified by PG&E for PG&E's facilities on Applicant's Premises. Any decorative or custom protective structures shall be the responsibility of the Applicant to install, own, and maintain.
- 4) UNDERGROUND ELECTRICAL DISTRIBUTION INFRASTRUCTURE SERVICE EXTENSION. A set of service conductors to supply permanent service from the Distribution Line source to the EV Service Delivery Point approved by PG&E.
- 5) RISER MATERIALS. Any necessary pole riser material for connecting underground services to an overhead Distribution Line.
- 6) OVERHEAD ELECTRICAL DISTRIBUTION INFRASTRUCTURE SERVICE EXTENSION. A set of overhead service conductors and support poles to supply permanent service from a Distribution Line source to a suitable support at the Service Delivery Point approved by PG&E. Such support shall be of a type and located that service wires may be installed in accordance with good engineering practice and in compliance with all applicable laws, ordinances, rules, and regulations including those governing clearances and points of attachment.
- 7) METERING. When the meter is owned by PG&E, PG&E will be responsible for the necessary instrument transformers where required, test facilities, meters, associated metering equipment, and the metering enclosures when PG&E elects to locate metering equipment at a point that is not accessible to Applicant. (L)

(Continued)



**ELECTRIC RULE 29**  
**EV INFRASTRUCTURE**

Sheet 18

- E. RESPONSIBILITIES FOR NEW EV SERVICE EXTENSIONS (Cont'd.). (L)
2. PG&E RESPONSIBILITY (Cont'd.).
- a. Electrical Distribution Infrastructure (Cont'd.).
- 8) TRANSFORMER. The transformer where required, including any necessary switches, capacitors, electrical protective equipment, etc. When either a padmounted or overhead transformer is installed on Applicant's Premises, the EV Service Extension shall include the primary conductors from the connection point at the distribution supply line to the transformer and the secondary conductors, if any, from the transformer to the Service Delivery Point.
- 9) PADMOUNTED EQUIPMENT. Furnishing, installing, owning, and maintaining Substructures and any required Protective Structures for the proper installation of the transformer, switches, capacitors, etc.
- b. GOVERNMENT INSPECTION. PG&E will establish electric service to Applicant following notice from the governmental authority having jurisdiction that the Applicant-owned facilities have been installed and inspected in accordance with any applicable laws, codes, ordinances, rules, or regulations, and are safe to energize.
- (L)

(Continued)





**ELECTRIC RULE 29  
EV INFRASTRUCTURE**

Sheet 19

**F. ALLOWANCES AND PAYMENTS BY APPLICANT**

(L)

1. **PAYMENTS.** Applicant is responsible to pay PG&E the following non-refundable costs as applicable under this rule and in advance of PG&E commencing its work:
  - a. **EXCESS SERVICE.** The costs of the EV Service Extension that are the result of the length of the service being in excess of 300 feet. This cost responsibility applies in situations where an Electrical Distribution Infrastructure Service Extension longer than 300 feet is required or is requested by the Applicant.
  - b. **TAX.** Any payments or contribution of facilities by Applicant are taxable Contributions in Aid of Construction (CIAC) and shall include an Income Tax Component of Contribution (ITCC) for state and federal tax at the rate provided in PG&E's Preliminary Statement.
  - c. **OTHER.** PG&E's total estimated installed cost for any work it performs that is Applicant's responsibility or performs for the convenience of Applicant.
2. **REFUNDS.** No refunds apply to the installation of EV Service Extension Facilities under this Rule.

**G. EXISTING EV SERVICE FACILITIES**

**1. EV SERVICE REINFORCEMENT**

- a. **PG&E-OWNED.** When PG&E determines that its existing Service Facilities require replacement, the existing Service Facilities shall be replaced as a new EV Service Extension under the provisions of this rule.
- b. **APPLICANT-OWNED.** When PG&E determines that existing Applicant owned service facilities (installed under a prior rule) require replacement, such replacement or reinforcement shall be accomplished under the provisions for a new EV Service Extension installation, except that if PG&E determines that any portion of Applicant's existing service extension facilities can be utilized by PG&E, Applicant will convey any such usable part to PG&E and an appropriate credit by PG&E may be allowed to Applicant.

Applicant will replace or reinforce that portion of the Service Extension which Applicant will continue to own, under the provisions of this rule for new services.

(L)

(Continued)



**ELECTRIC RULE 29  
EV INFRASTRUCTURE**

Sheet 20

- G. EXISTING SERVICE FACILITIES (Cont'd.) (L)
2. SERVICE RELOCATION OR REARRANGEMENT
- a. PG&E CONVENIENCE. When, in the judgement of PG&E, the relocation or rearrangement of an EV Service Extension, including PG&E-owned transformers, is necessary for the maintenance of adequate service or for the operating convenience of PG&E, PG&E normally will perform such work at its own expense, except as provided Sections F.2.b. and F.5.
- b. APPLICANT CONVENIENCE. Any relocation or rearrangement of PG&E's existing EV Service Extension Facilities at the request of Applicant (aesthetics, building additions, remodeling, etc.) and agreed upon by PG&E shall be performed in accordance with Section D above except that Applicant shall pay PG&E its total estimated costs.
- In all instances, PG&E shall abandon or remove its existing facilities at the option of PG&E rendered idle by the relocation or rearrangement.
2. IMPAIRED ACCESS AND CLEARANCES. Whenever PG&E determines that:
- a. ACCESS. Its existing EV Service Extension Facilities have become inaccessible for inspecting, operating, maintenance, meter reading, or testing; or,
- b. CLEARANCES. A hazardous condition exists or any of the required clearances between the existing EV Service Extension Facilities and any object becomes impaired under any applicable laws, ordinances, rules, or regulations of PG&E or public authorities, then the following applies:
- c. CORRECTIVE ACTION. Applicant or owner shall, at Applicant's or owner's expense, either correct the access or clearance infractions or pay PG&E its total estimated cost to relocate its facilities to a new location which is acceptable to PG&E. Applicant or owner shall also be responsible for the expense to relocate any equipment which Applicant owns and maintains. Failure to comply with corrective measures within a reasonable time may result in discontinuance of service. (L)

(Continued)



**ELECTRIC RULE 29  
EV INFRASTRUCTURE**

Sheet 21

G. EXISTING SERVICE FACILITIES (Cont'd.).

(L)

4. OVERHEAD TO UNDERGROUND SERVICE CONVERSIONS

- a. RULE 20. The replacement of existing overhead Distribution Lines with underground Distribution Lines will be made in accordance with PG&E's Rule 20.
- b. APPLICANT'S CONVENIENCE. Where overhead services are replaced by underground services for Applicant's convenience, Applicant shall perform all Excavation, furnish and install all Substructures, and pay PG&E its total estimated installed cost to complete the new service and remove the overhead facilities.

- 5. DAMAGED FACILITIES. When PG&E's facilities are damaged by others, the repair will be made by PG&E at the expense of the party responsible for the damage. Applicants are responsible for repairing their own facilities.

- 6. SUBDIVISION OF PREMISES. When PG&E's EV Service Facilities are located on private property and such private property is subsequently subdivided into separate Premises with ownership divested to other than Applicant or customer, the subdivider is required to provide PG&E with adequate rights-of-way satisfactory to PG&E for its existing facilities and to notify property owners of the subdivided Premises of the existence of the rights-of-way.

When adequate rights-of-way are not granted as a result of the property subdivision, PG&E shall have the right, upon written notice to Applicant, to discontinue service without obligation or liability. The existing owner, Applicant, or customer shall pay to PG&E the total estimated cost of any required relocation or removal of PG&E's facilities. A new EV service will be re-established in accordance with the provisions of Section E above for new service and the provisions of any other applicable PG&E rules.

H. EXCEPTIONAL CASES

When the application of this rule appears impractical or unjust to either party, or ratepayers, PG&E or Applicant may refer the matter to the Commission for a special ruling or for approval of special conditions which may be mutually agreed upon.

(L)

(Continued)



**ELECTRIC RULE 29  
EV INFRASTRUCTURE**

Sheet 22

I. DEFINITIONS FOR RULE 29

(L)

APPLICANT: A person or agency requesting PG&E to supply electric service.

CHARGING STATION: The equipment that interconnects the electricity grid at a Premises to the Electric Vehicle, whether using alternating current (AC) or direct current (DC), but not including the Electric Distribution Infrastructure. Charging Station is sometimes referred to as Electric Vehicle Supply Equipment (EVSE).

CONDUIT: Ducts, pipes, or tubes of certain metals, plastics or other materials acceptable to PG&E (including pull wires and concrete encasement where required) for the installation and protection of electric wires and cables.

CUSTOMER: See Applicant.

DISTRIBUTION LINE EXTENSION: New distribution facilities of PG&E that are a continuation of, or branch from, the nearest available existing permanent Distribution Line (including any facility rearrangements and relocations necessary to accommodate the Distribution Line Extension) to the point of connection of the last service. PG&E's Distribution Line Extension includes transmission underbuilds and converting an existing single-phase line to three-phase in order to furnish three-phase service to an Applicant, but excludes service transformers, meters and services.

DISTRIBUTION LINES: PG&E's overhead and underground facilities which are operated at distribution voltages as set forth in PG&E's Rule 2 and which are designed to supply two or more services.

ELECTRICAL DISTRIBUTION INFRASTRUCTURE: Pursuant to Public Utilities Code Section 740.19(b), the term Electrical Distribution Infrastructure shall include poles, vaults, service drops, transformers, mounting pads, trenching, conduit, wire, cable, meters, other equipment as necessary, and associated engineering and civil construction work.

ELECTRIC VEHICLE: An electric vehicle includes light-duty, medium-duty, and heavy-duty battery electric vehicles and plug-in hybrid electric vehicles, as well as off-road electric vehicles and off-road electric equipment.

(L)

(Continued)



**ELECTRIC RULE 29  
EV INFRASTRUCTURE**

Sheet 23

I. DEFINITIONS FOR RULE 29 (Cont'd.).

(L)

**EXCAVATION:** All necessary trenching, backfilling, and other digging as required to install EV Service Extensions including furnishing of any imported backfill material, concrete encasement to protect conduit, and disposal of spoil, as required, surface repair and replacement, landscape repair and replacement.

**FRANCHISE AREA:** Public streets, roads, highways, and other public ways and places where PG&E has a legal right to occupy under franchise agreements with governmental bodies having jurisdiction.

**PREMISES:** All of the real property and apparatus employed in a single enterprise on an integral parcel of land undivided, excepting in the case of industrial, agricultural, oil field, resort enterprises, and public or quasi-public institutions, by a dedicated street, highway or public thoroughfare or a railway. Automobile parking lots constituting a part of and adjacent to a single enterprise may be separated by an alley from the remainder of the Premises served.

**PROTECTIVE STRUCTURES:** Fences, retaining walls (in lieu of grading), sound barriers, posts, barricades and other structures as required by PG&E.

**SERVICE DELIVERY POINT:** Where PG&E's Service Facilities are connected to either Applicant's conductors or other service termination facility designated and approved by PG&E.

**EV SERVICE EXTENSIONS:** The overhead and underground primary or secondary facilities extending from the point of connection at the Distribution Line to the Service Delivery Point. When an underground Service Extension is supplied from a PG&E-designated overhead pole, the beginning point of connection to PG&E's Distribution Line shall be where the EV Service Extension is connected to PG&E's overhead Distribution Line conductors.

**SUBSTRUCTURES:** The surface and subsurface structures which are necessary to contain or support PG&E's electric facilities. This includes, but is not limited to, splice boxes, pull boxes, equipment vaults and enclosures, foundations or pads for surface-mounted equipment.

(L)



**ELECTRIC TABLE OF CONTENTS**

Sheet 1

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Advice 6423-E  
Decision

Issued by  
**Robert S. Kenney**  
Vice President, Regulatory Affairs

Submitted  
Effective  
Resolution

December 6, 2021  
E-5167



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(L)

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<i>Advice</i>	6423-E	<i>Issued by</i>	<i>Submitted</i>	December 6, 2021
<i>Decision</i>		<b>Robert S. Kenney</b>	<i>Effective</i>	
		<i>Vice President, Regulatory Affairs</i>	<i>Resolution</i>	E-5167

## **Attachment 2**

### **Redline Tariffs**

Attachment 2 only includes the pages containing text revisions, and excludes any pages where location changes have occurred.



Pacific Gas and Gas Company  
San Francisco, California  
U 39

Original  
Cancelling

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

**ELECTRIC PRELIMINARY STATEMENT PART IU**  
AB 841 MEMORANDUM ACCOUNT

Sheet 1 (N)  
(N)

**IU. AB 841 Memorandum Account (AB841MA)**

1. **PURPOSE:** The purpose of the PG&E AB 841 Memorandum Account (AB841MA) is to record and track incremental costs associated with the design and deployment of electrical distribution infrastructure on the utility side of the customer's meter for customers installing separately metered infrastructure to support electric vehicle charging stations, other than those in single-family residences, from the effective date of Electric Rule 29 in 2021 to the effective date of PG&E's next General Rate Case decision as required by Public Utilities Code Section 740.19(c). Such incremental costs shall include capital and capitalized O&M and other capitalized expense costs to comply with PG&E Electric Rule 29 and Public Utilities Code Section 740.19(c). Such costs forecast for periods subsequent to PG&E's next General Rate Case filing shall be recovered in such periodic General Rate Cases as provided by Public Utilities Code Section 740.19(c).
2. **APPLICABILITY:** The AB841MA shall apply to all customers under all rate schedules and contracts for electric service subject to the jurisdiction of the Commission, except for those schedules or contracts specifically excluded by the Commission.
3. **REVISION DATE:** PG&E will seek recovery of its actual recorded costs from the effective date of the tariff in 2021 to the effective date of its next General Rate Case, scheduled to be January 1, 2023, in that General Rate Case. The authorized to-be-collected or refund amount in the filing, including an allowance for Revenue Fees and Uncollectibles (RF&U) account expense, will be transferred to the Distribution Revenue Adjustment Mechanism (DRAM) for true-up in rates.
4. **RATES:** The AB841MA does not have a rate component.
5. **ACCOUNTING PROCEDURE:** PG&E's costs are recorded in accordance with Uniform System of Accounts Prescribed for Public Utilities and Licensees Subject to the Provisions of the Federal Power Act<sup>[1]</sup> (FERC's Uniform System of Accounts). PG&E, as well as the other Investor-Owned Utilities (IOUs), is subject to FERC's Uniform System of Accounts. The Distribution Plant<sup>[2]</sup> accounting categories in FERC's Uniform System of Accounting will be used for reporting. The cost categories of poles, vaults, service drops, transformers, mounting pads, trenching, conduit, wire, cable, meters, associated engineering and civil construction work, and other equipment that PG&E will cover under Rule 29 will be mapped to FERC accounting categories.

Where a FERC accounting category may not provide the level of detail required for Rule 29 cost reporting, PG&E will use its internal asset class categories to further segment costs in alignment with the categories listed above.

The cost category of "civil construction work" is not at the same level as the other cost categories. The cost categories of vaults, mounting pads, trenching, and conduits would fall under the definition of civil construction work. Therefore, so as not to double count costs, when reporting costs, cost categories that are defined as "civil construction work" will be identified as such, as opposed to double reporting these costs in a second category.

<sup>[1]</sup> 18 CFR 101

<sup>[2]</sup> 18 CFR 101, Electric Plant Chart of Accounts



**ELECTRIC RULE 29**  
**EV INFRASTRUCTURE**

Sheet 1

- A. **APPLICABILITY:** This rule is applicable to the design and deployment of Electrical Distribution Infrastructure (“EV Service Extensions”) that extends from PG&E’s Distribution Line facilities to the Service Delivery Point on the utility side of the Customer’s meter for all customers installing separately metered infrastructure to support Charging Stations, other than those in single-family residences. To be eligible for this rule, Applicant must purchase and install qualified Charging Stations in the quantity approved by PG&E in PG&E’s sole discretion. Charging Stations will be considered qualified if they meet the safety requirements of the Transportation Electrification Safety Checklist related to utility-side infrastructure adopted via California Public Utilities Commission Decision (D.)18-05-040. Applicant must agree to maintain and operate the Charging Stations associated with this rule for a period of five years. As a default, participants will be enrolled in PG&E’s Business EV rate unless the rate becomes closed or another rate is determined to be more appropriate. However, applicants may choose to change to another Time-Of-Use rate. (N)
1. **INCIDENTAL LOAD:** An exception to the requirement that eligible meters are to be dedicated exclusively to EV charging is that appliances and apparatus that solely serve the overall EV infrastructure of the site and no other use may be included as load on the BEV-dedicated meter. The eligible incidental load must not exceed 600 watts/277 volts and be limited to devices directly needed solely to support the EV infrastructure and charging uses of the site itself. The added load included on the EV meter must not include load from any non-EV charging infrastructure facilities, appliances or apparatus.
2. **EXISTING PROGRAMS:** Electric Vehicle Supply Equipment installed through PG&E’s Electric Vehicle Charge Network, Electric Vehicle Fleet, Electric Vehicle Fast Charge, Empower Electric Vehicle, Electric Vehicle Charge Schools, or Electric Vehicle Charge Parks are not applicable under this Rule.
- 4.3. **TARIFF MODIFICATIONS:** The California Public Utilities Commission may make modifications to this Rule that would go into effect as early as 2027, upon completion of PG&E’s 2023 General Rate Case cycle.
- B. **GENERAL**
1. **DESIGN.** PG&E will be responsible for planning, designing, and engineering its EV Service Extensions using PG&E’s standards for design, materials and construction.
2. **CONSTRUCTION AND DESIGN SPECIFICATIONS, STANDARDS, TERMS, AND CONDITIONS OF A NEW EXTENSION OF SERVICE PROJECT.** (N)

(Continued)



**ELECTRIC RULE 29**  
**EV INFRASTRUCTURE**

Sheet 1

- a. In compliance with Section 783 of the Public Utilities Code, PG&E will apply only those construction and design specifications, standards, terms, and conditions that are applicable to a new extension of service project for the 18 months following the date the application for a new extension of service project is approved.
- a.b. PG&E may default utilizing existing service where technically feasible and cost efficient.
- b.c. PG&E may adopt modifications to those construction and design specifications, standards, terms, and conditions applicable to a new extension-of-service project only in accordance with any of the following:

(Continued)



**ELECTRIC RULE 29  
EV INFRASTRUCTURE**

Sheet 2

B. GENERAL (Cont'd.).

(N)

2. Construction and Design Specifications, Standards, Terms, and Conditions of a New Extension of Service Project (Cont'd.).

c. (Cont'd.).

- 1) An order or decision of the California Public Utilities Commission (CPUC) or any other state or federal agency with jurisdiction.
- 2) A work order issued by PG&E to implement construction or design changes necessitated by a customer-driven scope of work modification.
- 3) A material-related design change identified by PG&E to remedy a construction material defect that could pose a risk to public safety.

d. Approval date of a new extension of service application refers to the earlier of either the effective date of the contract for the extension of electric service or the date when PG&E first invoices the customer for the extension of electric service. "Invoice" is to mean when PG&E presents an offer to the customer for the extension of service in response to an application for an extension of service submitted pursuant to the regulations of the CPUC and applicable specifications of PG&E.

e. Maximum Length: The utility shall install the Utility-Side EV Service Extensions of up to: EV Service Extension shall extend along the shortest or most practical and available route as necessary to reach a Service Delivery Point identified via mutual agreement between PG&E and the Applicant.

1) 300 feet, as measured from the connection to the Distribution Line to the Service Delivery Point, or;

2) 1) a mutually agreed upon location of indeterminant length. In cases where a longer EV Service Extension is required or is requested by the Applicant, tThe Applicant will be responsible for all costs of the service that are a result of the requested EV Service Extension differing from the shortest or most practical and available route length of the service being in excess of 300

(N)

(Continued)



**ELECTRIC RULE 29**  
**EV INFRASTRUCTURE**

Sheet 2

~~feet.~~ This additional cost is further described in section E.1.j.  
of this Rule.

(Continued)

Advice  
Decision

6102-E-A

Issued by  
**Robert S. Kenney**  
Vice President, Regulatory Affairs

Submitted  
Effective  
Resolution

March 17, 2021  
October 7, 2021



**ELECTRIC RULE 29**  
**EV INFRASTRUCTURE**

Sheet 8

(N)  
(N)

D. SERVICE EXTENSIONS (Cont'd.).

(N)

3. UNDERGROUND INSTALLATIONS. Underground EV Service Extensions will be installed:

- a. UNDERGROUND REQUIRED. Underground EV Service Extensions (1) shall be installed where required to comply with applicable tariff schedules, laws, ordinances, or similar requirements of governmental authorities having jurisdiction, and (2) may be necessary as determined by PG&E where Applicant's load requires a separate transformer installation of 75 kVa or greater.
- b. UNDERGROUND OPTIONAL. An underground EV Service Extension may be installed in an area where it is not otherwise required and when requested by Applicant and agreed upon by PG&E. The additional cost of providing an underground Electric Vehicle Service Extension as requested by the Applicant, instead of an overhead service, will be paid for by the Applicant for installations in which an overhead extension can be installed.
- c. PG&E will not accept requests under the Special Facilities provision of Rule 2, Section I, for underground distribution systems that call for specified pieces of electrical equipment to be installed in below-ground structures in circumstances where it is technically feasible to install the equipment above ground. Such requests will not be accepted for situations indicated in D.3.c.i, 1 D.3.c.ii, 2, and with certain exceptions D.3.c.iii, 3 below.
  - 1) New construction on any property except public property and public rights-of-way;
  - 2) Circumstances in which capacity upgrades, conversions, and relocations are required due to customer-driven renovations of existing structures or other building activities on any property except public property and public rights of way resulting in a change of use or occupancy as defined in state or local law;
  - 3) Except for situations on a case-by-case basis in which the local authority and PG&E agree to locate Equipment above ground because the above-ground location is technically feasible for the installation.

(N)

(Continued)





**ELECTRIC RULE 29  
EV INFRASTRUCTURE**

Sheet 15

- E. RESPONSIBILITIES FOR NEW EV SERVICE EXTENSIONS (Cont'd.). (N)
1. APPLICANT RESPONSIBILITY (Cont'd.).
- i. REASONABLE CARE. Applicant shall exercise reasonable care to prevent PG&E's EV Service Extensions, other PG&E facilities, and meters owned by PG&E or others, on the Applicant's Premises from being damaged or destroyed, and shall refrain from interfering with PG&E's operation of the facilities and shall notify PG&E of any obvious defect.
- j. EXCESS SERVICE: The costs of the EV Service Extension that are the result of the EV Service Extension design differing from the shortest or most practical and available route, and as length of the service being in excess of 300 feet. This cost responsibility applies in situations where an Electrical Distribution Infrastructure Extension longer than 300 feet is required or is requested by the Applicant. This excess service cost may be waived for services described in section B.2.d.2. of this rule.
2. PG&E RESPONSIBILITY
- a. ELECTRICAL DISTRIBUTION INFRASTRUCTURE. After Applicant meets all requirements to receive service, PG&E will furnish, install, own, and maintain the following EV Service Extension Facilities, including but not limited to (a) primary or secondary underground or overhead service conductors, (b) poles to support overhead service conductors, (c) service transformers, (d) vaults, pads, and conduits, (e) trenching, (f) PG&E-owned metering equipment, and (g) other PG&E-owned service related equipment :
- 1) EXCAVATION. All necessary trenching, backfilling, and other digging as required including permit fees.
- 2) CONDUIT AND SUBSTRUCTURES. Furnishing, installing, owning, and maintaining all Conduits (including pull wires) and Substructures as necessary to install the EV Service Extension.
- (N)

(Continued)

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

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