



FILED

12-01-15
04:59 PM

**BEFORE THE PUBLIC UTILITIES COMMISSION
OF THE STATE OF CALIFORNIA**

A1512004

Application of Pacific Gas and Electric
Company for Approval of Agreements
Resulting from Its 2014-2015 Energy Storage
Solicitation and Related Cost Recovery

(U 39-E)

Application No. 15-12-_____

**APPLICATION OF PACIFIC GAS AND ELECTRIC
COMPANY (U 39 E) FOR APPROVAL OF AGREEMENTS
RESULTING FROM ITS 2014-2015 ENERGY STORAGE
SOLICITATION AND RELATED COST RECOVERY**

EVELYN C. LEE
MARK R. HUFFMAN

Law Department
Pacific Gas and Electric Company
77 Beale Street, B30A
San Francisco, CA 94105
Telephone: (415) 973-2786
Facsimile: (415) 973-5520
E-Mail: ECL8@pge.com

Dated: December 1, 2015

Attorneys for
PACIFIC GAS AND ELECTRIC COMPANY

TABLE OF CONTENTS

	Page
I. INTRODUCTION AND SUMMARY OF THE APPLICATION.....	1
A. Overview of the 2014 ES RFO and Contracting Process	2
B. Relief Requested by this Application	3
II. PRODUCTS PROCURED THROUGH THE 2014 ES RFO	4
A. Projects for Which PG&E Seeks Approval in this Application	4
B. Storage Service Provided Under ESAs and Cost Recovery	5
C. Storage Service Provided Under PSAs and Cost Recovery	7
III. PG&E’S PROCUREMENT FROM ITS 2014 ES RFO COMPLIES WITH COMMISSION REQUIREMENTS	8
A. Consistency with the Application Decision.....	8
1. PG&E’s 2014 ES RFO is Consistent with PG&E’s Approved 2014 Energy Storage Plan	8
2. PG&E has Included the Joint IOU PCIA Proposal for Review and Approval	9
3. PG&E’s RFO Incorporates a Multi-Prong Approach to Safety	10
B. Consistency with the Energy Storage Program	11
1. Advancing Energy Storage	11
2. 2014 ES RFO MW Targets.....	12
C. Consistency with the RFO Code of Conduct.....	13
IV. PG&E SEEKS CONFIRMATION THAT IT MAY SEEK APPROVAL OF ADDITIONAL CONTRACTS ARISING FROM THE 2014 ES RFO IN A SEPARATE APPLICATION	13
V. INFORMATION REQUIRED BY THE COMMISSION’S RULES OF PRACTICE AND PROCEDURE.....	14
A. Contents of Application (Rule 2.1).....	14
1. Requested Relief.....	14
2. Requested Effective Date	14
3. Statutory Authority	15
4. Legal Name and Principal Place of Business (Rule 2.1(a)).....	15
5. Correspondence and Communication Regarding This Application (Rule 2.1(b))	16
6. Category of the Proceeding (Rule 2.1(c)).....	16

TABLE OF CONTENTS
(continued)

	Page
7. Need for Hearing (Rule 2.1(c)).....	16
8. Issues To Be Considered (Rule 2.1(c)).....	16
9. Proposed Schedule (Rule 2.1(c))	17
B. Organization and Qualification to Transact Business (Rule 2.2)	17
C. Financial Statement (Rule 2.3)	18
D. Compliance with Requirements for the Construction of Utility-Owned Facilities.....	18
1. Exemption from CEQA Requirements (Rule 2.4).....	18
2. Construction or Extension of Facilities (Rule 3.1)	19
E. Authority to Increase Rates (Rule 3.2)	19
1. Balance Sheet (Rule 3.2(a)(1))	19
2. Statement of the Presently Effective Rates Proposed for Increase (Rule 3.2.(a)(2))	20
3. Statement of the Proposed Increases (Rule 3.2. (a)(3))	20
4. Summary of Earnings (Rules 3.2(a)(5) and 3.2(a)(6))	20
5. Proxy Statement (Rule 3.2(a)(8))	21
6. Type of Rate Change Request (Rule 3.2(a)(10))	21
7. Service and Notice of Application (Rule 3.2(b)-(d)).....	21
VI. CONCLUSION.....	22
 EXHIBITS	
Exhibit A	Third Quarter 2015 Consolidated Statements of Income and Consolidated Balance Sheet
Exhibit B	PG&E’s Presently Effective Rates
Exhibit C	List of Governmental and Public Agencies Receiving Notice of Requested Revenues and Rates

List of Acronyms

2014 ES RFO	2014-2015 Energy Storage Request for Offers
BTM	Behind the Meter
CAISO	California Independent System Operator
CCAs	Community Choice Aggregators
CEP	Common Evaluation Protocol
CEQA	California Environmental Quality Act
CPCN	Certificate of Public Convenience and Necessity
DA	Direct Access
DRAM	Distribution Rate Adjustment Mechanism
ERRA	Energy Resource Recovery Account
ESAs	Energy Storage Agreements
ESPs	Energy Service Providers
FERC	Federal Energy Regulatory Commission
GRC	General Rate Case
IE	Independent Evaluator
IOUs	Investor-owned Utilities
Joint IOU	Joint Investor Owned Utility
LTPP	Long Term Procurement Plan
MW	Megawatts
O&M	Ownership and Maintenance
OP	Ordering Paragraph
PCIA	Power Charge Indifference Adjustment
PRG	Procurement Review Group
PSAs	Purchase and Sale Agreements
RA	Resource Adequacy
SGIP	Self-Generation Incentive Program
T&D	Transmission and Distribution

**BEFORE THE PUBLIC UTILITIES COMMISSION
OF THE STATE OF CALIFORNIA**

Application of Pacific Gas and Electric
Company for Approval of Agreements
Resulting from Its 2014-2015 Energy Storage
Solicitation and Related Cost Recovery

(U 39-E)

Application No. 15-12-_____

**APPLICATION OF PACIFIC GAS AND ELECTRIC
COMPANY (U 39 E) FOR APPROVAL OF AGREEMENTS
RESULTING FROM ITS 2014-2015 ENERGY STORAGE
SOLICITATION AND RELATED COST RECOVERY**

I. INTRODUCTION AND SUMMARY OF THE APPLICATION

In this application (“Application”), Pacific Gas and Electric Company (“PG&E”) respectfully requests that the California Public Utilities Commission (“CPUC” or “Commission”) approve the five energy storage agreements (“ESAs”) and two purchase and sale agreements (“PSAs”) that PG&E has signed as a result of its 2014-2015 Energy Storage Request for Offers (“2014 ES RFO”). PG&E has served its supporting testimony (“Prepared Testimony”) along with this Application. PG&E undertook this energy storage solicitation in compliance with the *Decision Approving San Diego Gas & Electric Company, Pacific Gas and Electric Company, and Southern California Edison Company’s Storage Procurement Framework and Program Applications for the 2014 Biennial Procurement Period* (“Application Decision”).^{1/} Under its approved 2014-2015 energy storage plan (“2014 ES Plan”), PG&E sought to procure 74 megawatts (“MW”) of energy storage interconnected at the transmission and distribution (“T&D”) grid levels through RFO contracts and thereby meet the T&D portion of its 2014-2015 energy storage target.^{2/}

^{1/} Decision (“D.”) 14-10-045.

^{2/} PG&E also has a 6.5 MW target for behind the meter (“BTM”) energy storage, which has been satisfied by Self-Generation Incentive Program (“SGIP”)-supported BTM storage.

Under the ESAs, third-party owned energy storage systems will absorb, store, and discharge energy into the California Independent System Operator (“CAISO”)-controlled markets at PG&E’s direction. These operations should facilitate CAISO’s integration of both grid-connected resources and distributed generation resources, including customer-connected renewables. In particular, the energy storage and discharge, plus ancillary services, to be provided under the ESAs should assist the CAISO in meeting its future operational flexibility needs. The PSA facilities will be constructed by third parties and, after the satisfaction of all closing conditions in the PSA, including the successful completion of performance testing, will be transferred to PG&E ownership to provide distribution system reliability. Once the Commission approves the ESAs and PSAs (together, the “ES Contracts”), PG&E will have met its 2014 T&D-interconnected energy storage targets.

A. Overview of the 2014 ES RFO and Contracting Process

PG&E’s 2014 ES RFO was extremely robust. PG&E received over 200 offers consisting of more than 700 variations from more than 50 separate participants, which totaled over 5,000 MW of energy storage capability (including offer variations). PG&E believes this robust response was due to its encouragement of energy storage development in coordination with the Commission’s energy storage proceedings. PG&E was able to use established competitive solicitation practices to provide ample opportunity for market participation in the 2014 ES RFO. This included the advance posting of PG&E’s draft ES RFO Protocol (which contained the process and commercial documents for responding to the solicitation), holding a participants’ conference on the ES RFO in general and a follow-up webinar on the ES RFO electronic offer form, and the subsequent posting of ES RFO guidance on PG&E’s website.

The ES Contracts submitted with this Application support the Commission’s goals for energy storage and its desire for market transformation. The ES Contracts include a diversity of storage technologies, on-line dates, storage functions, project size, interconnection domain, ownership, and charging/discharge duration. The experience gained from operating these diverse technologies under a variety of circumstances will be key to establishing the groundwork

for expanding the beneficial use of energy storage, improving the integration of energy storage into California's resource mix, and accelerating new applications of energy storage in California's energy marketplace.

PG&E consulted with its Independent Evaluator ("IE") and its Procurement Review Group ("PRG") throughout the 2014 ES RFO procurement process. Before issuing its final ES RFO Protocol, PG&E refined its 2014 ES RFO materials and offer evaluation criteria in consultation with its IE, as required by the Application Decision. The IE and PRG observed PG&E's use of the Common Evaluation Protocol ("CEP") and PG&E's evaluation of offers using its proprietary utility-specific model. PG&E met with the PRG and the IE on numerous occasions to discuss the initiation and progress of the 2014 ES RFO. The 2014 ES RFO process, which included participation by the IE and consultation with the PRG, is described in more detail in Chapter 2 of PG&E's Prepared Testimony. The ES Contracts, the IE's Report, PG&E 2014 ES RFO Shortlist, and PG&E CEP worksheet are attached to the Prepared Testimony.

Because the 2014 ES RFO involved a number of novel issues and challenges in procuring a new type of energy resource, PG&E was unable to complete negotiations with some potential counterparties and execute a contract in time to submit it with this Application. PG&E is still negotiating with several participants in the 2014 ES RFO and expects to conclude these negotiations in early 2016. Therefore as part of this Application, PG&E is requesting that the Commission determine that PG&E may submit by a subsequent application one or more contracts, executed by the end of the first quarter of 2016, with any of the 2014 ES RFO participants with whom it is currently negotiating, for approval and to count toward PG&E's energy storage target.

B. Relief Requested by this Application

PG&E respectfully requests that the Commission:

- Authorize PG&E to fully recover the cost of the ES Contracts in rates, with the cost of the ESAs recovered through the Energy Resource Recovery Account ("ERRA") and the cost of the PSAs recovered in PG&E's general rate case ("GRC") at the beginning of PG&E's next GRC cycle, and through a line item

entry in PG&E's Distribution Rate Adjustment Mechanism ("DRAM") in the interim before the adoption of rates in the next GRC cycle;

- Find that PG&E's procurement under the ES Contracts contributes 60 MW of energy storage interconnected at the transmission level and 15 MW of energy storage interconnected at the distribution level, and that the market-participating energy storage resources will provide resource integration to assist the CAISO in meeting its operational flexibility needs, for purposes of determining PG&E's compliance with D.13-10-040 and D.14-10-045;
- Approve the Joint Investor Owned Utility ("Joint IOU") Protocol for the recovery of above-market energy storage costs associated with the ESAs using the Power Charge Indifference Adjustment ("PCIA");
- Authorize ESA cost recovery through the PCIA pursuant to the Joint IOU Protocol for the full contract term;
- Confirm that PG&E may submit by a subsequent application one or more contracts, executed by the end of the first quarter of 2016, with any of the 2014 ES RFO participants with whom it is currently negotiating, for approval and counting toward PG&E's energy storage target; and
- Grant PG&E such other relief as the Commission finds to be just and reasonable.

II. PRODUCTS PROCURED THROUGH THE 2014 ES RFO

A. Projects for Which PG&E Seeks Approval in this Application

The 2014 ES RFO sought two types of energy storage service—"market bundled storage" and "distribution reliability storage." The executed agreements are described in Chapter 3 of PG&E's Prepared Testimony. To procure market bundled storage, PG&E executed the following ESAs with energy storage system sellers who will operate the system at PG&E's direction to store and discharge energy to the market.

Project Name and Seller's Name	Delivery Point and Domain	Technology	Size	Expected Initial Delivery Date/Term
Energy Nuevo Storage Farm/Amber Kinetics, Inc.	NP 15, New Kearney transmission	Flywheel	20 MW	May 1, 2020 20 years
Molino/Hecate Energy, LLC	NP 15, Molino transmission	Lithium Ion Battery	10 MW	May 1, 2020 20 years
Golden Hills/NextEra Energy, Inc.	NP 15, Tesla transmission	Lithium Ion Battery	30 MW	May 1, 2019 10 years
Henrietta D Energy Storage/Convergent Energy and Power LLC	NP 15, Henrietta distribution	Zinc-Air Battery	10 MW	May 1, 2020 20 years
Clarksville Energy Storage/Western Grid Development, LLC	NP 15, Clarksville distribution	Zinc-Air Battery	3 MW	May 1, 2017 15 years

To obtain distribution reliability storage, PG&E executed the following PSAs with an energy storage developer who will design, develop, and construct storage facilities in the vicinity of PG&E-designated sites. After the developer meets the closing conditions of each PSA, PG&E will own the project.

Project Name and Seller's Name	Delivery Point and Domain	Technology	Size	Expected Initial Delivery Date
Old Kearney/Hecate Energy, LLC	NP 15, Old Kearney distribution substation	Lithium Ion Battery	1 MW	April 1, 2018
Mendocino/Hecate Energy, LLC	NP 15, Mendocino distribution substation	Lithium Ion Battery	1 MW	April 1, 2018

B. Storage Service Provided Under ESAs and Cost Recovery

Each ESA project will accept charging energy provided by PG&E, store the energy in the facility, and deliver the energy at the electrical delivery point in accordance with PG&E's schedule. Under the ESAs, PG&E is concerned primarily with the charge and discharge of stored energy within agreed upon parameters at the point of delivery for the term of the ESA. Contract parameters include the charge rate and discharge rate expressed in MW, charge and

discharge duration in hours, discharge energy in megawatt-hours (“MWh”), and the number of charge and discharge cycles allowed during a specified interval. Compensation to sellers consists of fixed and variable payments. If actual performance is less than contracted performance, PG&E will reduce payments to the seller and seller may face default. Under the ESAs, the sellers will provide a “product” consisting of all delivered discharge energy, ancillary services, capacity attributes, and any other product associated with the project and energy storage services, which will be delivered for PG&E’s sole use. The seller is responsible for ensuring that the project qualifies as Resource Adequacy (“RA”) capacity, subject to specified operational limitations. Seller is also responsible for the operation and maintenance of the storage project during the term of the ESA.

PG&E’s costs incurred to procure the product under the ESAs are recoverable through the ERRA balancing account according to the Application Decision.^{3/} PG&E thus seeks authorization to recover the costs and revenues of procuring energy storage services under the ESAs through its ERRA balancing account. Any above-market cost of energy storage procured in the 2014 ES RFO to serve customers who later depart from utility bundled service (“departing load”) would be recovered through the PCIA for the first 10 years of the ESA term, pursuant to the Application Decision.^{4/} PG&E is requesting that the Commission authorize PG&E to utilize the Joint IOU Protocol for this purpose.^{5/} At this time, the energy storage projects eligible for PCIA treatment have been identified, and the market benchmark for determining the above market cost for energy storage projects is supported by the Joint IOU Protocol. These known parameters should dispel the concerns that led to the 10-year limit on the PCIA cost recovery for market/“bundled” energy storage and make it appropriate now to lift the limit.^{6/} PG&E requests

^{3/} D.14-10-045, at p. 40.

^{4/} D.14-10-045, Ordering Paragraph (“OP”) 1.3.

^{5/} As explained in the Joint IOU Protocol, the inclusion of these ESAs in the PCIA will not affect existing customers of Community Choice Aggregators (“CCAs”) or the direct access customers of Energy Service Providers (“ESPs”), as their PCIA charges were established at the time they left bundled service.

^{6/} D.14-10-045, pp. 44-47.

the Commission to authorize PCIA treatment of the ESAs submitted in this Application for their full contract terms. PG&E's cost recovery proposal for the ESAs is described in more detail in Chapter 7 of PG&E's Prepared Testimony.

C. Storage Service Provided Under PSAs and Cost Recovery

The PSA counterparty must develop, finance, and cause the project to be constructed, completed, tested and ready for placement into commercial operation within PSA deadlines. The counterparty's responsibilities include obtaining all real property interests, governmental permits and authorizations, and other approvals required to construct and operate the Project. PG&E will own the projects once the counterparty has constructed the project to the specifications in the PSA and the project satisfies all closing conditions.

Each PSA will each provide one MW of energy storage, which will enable PG&E to defer the replacement of one or more transformers at a distribution substation. Typically, a transformer bank at a distribution substation is sized to handle peak customer demand for electricity ("load"). If load is projected to exceed the transformer bank capacity, the utility will eventually need to replace a transformer. However, the use of a battery to store and discharge energy to a distribution feeder line should relieve load on the related transformer and allow PG&E to defer the cost of transformer replacement while maintaining distribution system reliability.

The PSA counterparties are expected to satisfy all closing conditions in both PSAs and begin commercial operation of both facilities in April of 2018. At that time, if the PSA conditions are satisfied, PG&E will assume ownership of the facility and would then recover the revenue requirement associated with the facility's capital costs and ownership and maintenance ("O&M") costs.^{7/} The revenue requirement associated with these projects should be reflected in distribution rates approved through the GRC upon the start of PG&E's next GRC cycle, which is expected to begin in 2020. In the interim, the actual revenue requirements associated with the

^{7/} This proposal is consistent with the cost recovery by storage grid domain presented in Section 5.3.2 of D.14-10-045 and approved by COL 17 of that decision.

projects should be recorded in the DRAM, subject to a cost cap, to be recovered via distribution rates. PG&E's cost recovery proposal for the PSAs is described in more detail in Chapters 5 and 6 of PG&E's Prepared Testimony.

III. PG&E'S PROCUREMENT FROM ITS 2014 ES RFO COMPLIES WITH COMMISSION REQUIREMENTS

A. Consistency with the Application Decision

The Application Decision approved PG&E's 2014 ES Plan in all material respects, required the investor-owned utilities ("IOUs") to jointly propose a methodology by which the stranded costs of energy storage procurement contracts could be recovered through the PCIA (*i.e.*, the Joint IOU Protocol), and adopted a multi-prong approach to addressing the safety of energy storage projects. Below, PG&E describes how it complied with each of the requirements in the Application Decision.

1. PG&E's 2014 ES RFO is Consistent with PG&E's Approved 2014 Energy Storage Plan

The Application Decision adopted a 2014-2015 biennial cycle energy storage procurement target of 80.5 MW for PG&E, consisting of 74 MW of T&D-connected storage and 6.5 MW of BTM storage.^{8/} PG&E targeted 74 MW of T&D connected energy storage for this solicitation, since it was authorized to meet its BTM target through other programs, but did not exclude BTM offers from 2014 ES RFO.

After the Application Decision was issued, PG&E finalized and posted its 2014 ES RFO documentation on its public website. PG&E held the 2014 ES RFO in accordance with the approved solicitation schedule and issued its 2014 ES RFO documents on December 1, 2014. It held an ES RFO Participants' Conference, which was accessible via webcast, on December 18, 2014 and a web-based seminar on completing the electronic 2014 ES RFO offer form on January 15, 2015. PG&E solicited questions from interested parties and posted answers to frequently asked questions on its website. PG&E also updated its RFO materials with more

^{8/} D.14-10-045, OP 1.1.

specific grid domains, use cases, and locations, as required by the Application Decision and specifically indicated that it would consider customer-connected energy storage projects in the 2014 ES RFO.

PG&E evaluated the offers received in its 2014 ES RFO by applying its approved evaluation methodology to the information contained in the offer forms. This process is described in Chapter 5 of PG&E's Prepared Testimony. The results of this evaluation were used to identify or "shortlist" offers with which PG&E entered into negotiations. PG&E then applied its judgment to arrive at a final list that reflected diverse technologies, applications, initial operating dates, and durations in order to broaden its knowledge of energy storage applications and usage.

2. PG&E has Included the Joint IOU PCIA Proposal for Review and Approval

PG&E, San Diego Gas & Electric Company ("SDG&E"), and Southern California Edison Company ("SCE"), together, the "IOUs," are authorized to use the PCIA to recover the above-market costs associated with energy storage resources procured through the 2014 ES RFO that provide "bundled services," subject to a requirement to submit a "Joint IOU Protocol" proposal for the applicable PCIA methodology with this Application.^{9/} PG&E has attached the Joint IOU Protocol to Chapter 7 of its Prepared Testimony.

While this proposal was developed in consultation with other affected parties, a number of parties representing the interests of CCAs and ESPs for direct access ("DA") customers disagree with the IOUs' conclusion that it is unnecessary to adjust the PCIA calculation method to incorporate storage resources. The IOUs have thoroughly examined the PCIA mechanism in light of these concerns. All load serving entities and distributed resources in the CAISO footprint benefit from the T&D grid-connected energy storage services procured by the IOUs. PG&E believes that the PCIA, as currently implemented, properly calculates the above-market value of energy storage procurement and no revisions to the PCIA should be made before

^{9/} D.14-10-045, OP 1.3 and OP 1.6.

authorizing the IOUs to include their 2014 ES RFO procurement in the PCIA. Chapter 7 of PG&E's Prepared Testimony explains how the PCIA would be used to recover the costs of market-functioning storage contracts.

3. PG&E's RFO Incorporates a Multi-Prong Approach to Safety

The Application Decision noted that "a multi-prong approach is necessary to ensure safe and reliable delivery of energy storage to customers in the transmission, distribution, and customer grid domains. Such a multi-prong approach includes adherence to Prudent Electrical Practices, reasonable contract terms and conditions (e.g., *Pro Forma* Agreements), and sound interconnection processes and procedures."^{10/}

To consider potential risks from energy storage systems, PG&E required 2014 ES RFO participants to describe the safety of their energy storage project as they progressed through PG&E's evaluation and selection process. If shortlisted, the RFO participant was required to provide safety information related to the project's technology and the safety history and practices of the seller or entities that would construct, operate, or maintain the projects. In addition, participants were required to submit preliminary site safety plans demonstrating the planned safety management of the project during the term of the applicable ES Contract. Once an ES Contract is signed, the seller is subject to terms and conditions designed to provide PG&E information about the seller's compliance with safety requirements at the project design, development, construction, operation, and maintenance stage.

A main component of energy storage project safety is the seller's project-specific site safety plan, which the seller must submit to PG&E prior to execution of the ES Contract and update periodically during the contract term. Under the ES Contracts, prior to the completion of project design or procurement of major equipment, a seller must provide PG&E with an updated storage site safety plan. With respect to contractor safety, a seller must provide information about its contractors for PG&E's review and approval. However, the seller is responsible for

^{10/} D.14-10-045, p. 25.

enforcing its site safety plan as to its contractor. In addition, a PSA seller must provide PG&E with a final site safety plan which verifies that no hazardous materials are on-site and confirm that the batteries are free of damage, all as conditions to PG&E completing the purchase of the storage facility.

The ES Contracts contain procedures for seller to identify, resolve, and remediate actual and potential safety events. Once a project is operational under an ESA, in the case of any serious incident, the seller must provide timely notice to PG&E and follow the applicable remediation process. If the seller becomes aware of an actual or imminent harm to life, public safety or property, it must cease operation, remediate the situation, and resume operations only after PG&E accepts that the project can operate safely. Under a PSA, if the seller fails to remediate a serious incident arising from the development or construction of the project that poses actual or imminent harm to life, safety, public health, property or the environment, then ultimately PG&E may terminate the contract. In all ES Contracts, sellers are also required to cooperate with PG&E in any governmental inquiry concerning a serious incident.

The ESAs and PSAs provide clear, substantial, and enforceable seller obligations to ensure that the energy storage services procured under these contracts meet the standard of Prudent Electric Practices and the Commission's standards of care. Moreover, the applicable interconnection tariffs (*i.e.*, the Commission's Rule 21, the Federal Energy Regulatory Commission ("FERC")-approved PG&E Wholesale Distribution Tariff and the three-way interconnection agreement between the CAISO, seller, and PG&E) also include safety measures applicable to energy storage projects.

B. Consistency with the Energy Storage Program

1. Advancing Energy Storage

PG&E used the 2014 ES RFO to advance its understanding of how energy storage systems can fulfill the Commission's principles for energy storage, particularly the advantageous use of the charge and discharge functions of energy storage to integrate grid-connected and distributed resources, such as customer-connected renewable facilities. Among other things,

market-participating energy storage should be able to assist the CAISO in meeting its future operational flexibility and ancillary services needs. To do this, PG&E solicited a broad range of energy storage projects that can integrate renewable energy, improve grid reliability, and reduce greenhouse gas emissions. Each offer was evaluated using PG&E’s proprietary energy storage evaluation model and was subject to the CPUC-approved CEP. Ultimately, PG&E signed ES Contracts with projects representing a variety of energy storage technologies, delivery characteristics, resource adequacy characteristics, ownership, contract tenor, and on-line dates.

2. 2014 ES RFO MW Targets

PG&E executed ES Contracts for T&D-connected energy storage projects that total 75 MW of capacity. This amount of capacity slightly exceeds PG&E’s 74 MW target for this solicitation. The 74 MW target is based on the following Commission guidance:

Domain	Targets Adopted in D.13-10-04	Adjusted Targets Adopted in D.14-10-045	PG&E’s 2014 ES RFO Procurement	Percentage of target shifted to the other domain
Transmission	50 MW	50 MW	60 MW	--
Distribution	30 MW	24 MW	15 MW	37 percent

Thirty-seven percent of PG&E’s distribution domain target is being procured in the form of transmission domain storage. Up to 80 percent of the MWs assigned to the transmission or distribution grid can be shifted to the other domain without a showing, so long as they meet the terms of the “Energy Storage Procurement Program Design.”^{11/} All of the storage projects resulting from PG&E’s 2014 ES RFO meet the eligibility criteria, project ownership, and market concentration limits, and are being reviewed through this Application under the standards applicable to a competitive solicitation for energy storage. Thus, the 2014 ES RFO results comply with the Energy Storage Procurement Program Design and PG&E has met its 2014 Energy Storage Targets.

^{11/} Requirements for shifting storage capacity between transmission and distribution grid domains are specified in D.13-10-040, Appendix 1, at p. 3.

C. Consistency with the RFO Code of Conduct

The Code of Conduct applies to competitive utility energy solicitations in which the utility seeks power from both resources owned by the utility and resources owned by third party sellers.^{12/} The purpose of the Code of Conduct is to prevent the utility from favoring a utility-owned energy storage facility over third party-owned storage. Under the Code of Conduct, utility employees engaged in the RFO process may not share sensitive RFO information with employees working on the turnkey offers. Because the 2014 ES RFO sought both PSA turnkey offers to construct utility-owned energy storage projects and energy storage service from third party owned facilities, PG&E applied its energy procurement Code of Conduct to the 2014 ES RFO.

IV. PG&E SEEKS CONFIRMATION THAT IT MAY SEEK APPROVAL OF ADDITIONAL CONTRACTS ARISING FROM THE 2014 ES RFO IN A SEPARATE APPLICATION

PG&E received proposals in the 2014 ES RFO to allow certain electricity market segments to control energy with storage in ways that differ from the commonly assumed single entity charge/discharge mode. These proposals presented challenging engineering, information technology, product definition, ratemaking, and regulatory compliance issues. PG&E and these proponents spent a great deal of time defining product attributes and understanding market interfaces before they could begin to express buyer and seller responsibilities in contract terms. As a result, the negotiations of these 2014 ES RFO offers could not be concluded in time for contracts to be executed and submitted in this Application. However, PG&E believes that continuing contract negotiations on these offers could broaden the use of energy storage consistent with the Commission's goal of achieving storage market transformation. To the extent that PG&E executes any additional contracts arising from offers in the 2014 ES RFO, it proposes to submit these contracts for Commission approval by March 31, 2015. Even then, the contracts may be subject to revision due to the evolution of regulatory and market rules for

^{12/} The energy procurement Code of Conduct was adopted in the 2006 Long Term Procurement Plan ("LTPP") proceeding. See D.07-12-052, p. 206.

advanced energy storage products. PG&E therefore requests the Commission confirm that PG&E may seek approval of one or more energy storage contracts, if PG&E is able to reach agreement by the end of the first quarter of 2016, with any of the participants with whom it is currently negotiating.

V. INFORMATION REQUIRED BY THE COMMISSION'S RULES OF PRACTICE AND PROCEDURE

A. Contents of Application (Rule 2.1)

1. Requested Relief

PG&E respectfully requests the Commission to issue an order that:

- a. Authorizes PG&E to fully recover the cost of the ES Contracts in rates, with the cost of the ESAs recovered through ERRAs and the cost of the PSAs recovered in PG&E's GRC at the beginning of PG&E's next GRC cycle, and through a line item entry in PG&E's DRAM in the interim before the adoption of rates in the next GRC cycle;
- b. Finds that PG&E's procurement under the ES Contracts contributes 60 MW of energy storage interconnected at the transmission level and 15 MW of energy storage interconnected at the distribution level, and that the market-participating energy storage resources will provide resource integration to assist the CAISO in meeting its operational flexibility needs, for purposes of determining PG&E's compliance with D.13-10-040 and D.14-10-045;
- c. Approves the Joint IOU Protocol for the recovery of above-market energy storage costs in the PCIA;
- d. Authorizes ESA cost recovery through the PCIA pursuant to the Joint IOU Protocol for the full contract term;
- e. Confirms that PG&E may submit by subsequent application one or more contracts, executed by the end of the first quarter of 2016, with any of the 2014 ES RFO participants with whom it is currently negotiating, for approval and counting toward PG&E's energy storage target; and
- f. Grants PG&E such other relief as the Commission finds to be just and reasonable.

2. Requested Effective Date

PG&E requests that the Commission approve this Application before September 1, 2016, to provide certainty to sellers and PG&E. The following illustrates how the decision approving

the 2014 ES RFO application might fit into the 2016-2017 energy storage solicitation cycle and inform the IOUs' respective 2016 ES RFO goals:

Date	Activity
December 1, 2015	IOUs Seek Approval of Results of 2014-2015 ES RFO
February 29, 2016 (per last cycle's schedule)	IOUs Submit Proposed 2016-2017 Energy Storage Plans
June 1, 2016	CPUC Decides R.15-03-011 Energy Storage Track 2 Issues
August 31, 2016 (or earlier)	CPUC Approves Results of 2014-2015 ES RFO
October 1, 2016	CPUC Approves IOUs' 2016-2017 ES Plans
December 1, 2016	IOUs Issue 2016 ES RFO

3. Statutory Authority

PG&E makes this request pursuant to the Commission's Rules of Practice and Procedure and seeks the above-stated relief pursuant to the following sections of the Public Utilities Code: Section 451, for a finding that ESA and PSA procurement costs are just and reasonable; Section 454, for authorization to recover ESA and PSA costs in rates; Section 454.5, for upfront approval of the ESAs and PSAs as acceptable and eligible for rate recovery; Section 701, which confers plenary authority on the Commission to regulate every public utility within California; Section 728, under which the Commission may set just and reasonable rates; Section 729, which authorizes the Commission to establish new rates based upon an investigation; Section 2836(a), which requires the Commission to establish energy storage program targets for each load serving entity; and Section 2838, which requires each load-serving entity to submit a report to the Commission demonstrating that it has complied with the energy storage system procurement targets and policies adopted by the commission by January 1, 2016.

4. Legal Name and Principal Place of Business (Rule 2.1(a))

The Applicant's legal name is Pacific Gas and Electric Company. PG&E's principal place of business is 77 Beale Street, San Francisco, California. Its post office address is P. O. Box 7442, San Francisco, CA 94120-7422. PG&E is a corporation organized under the laws of the State of California.

5. Correspondence and Communication Regarding This Application (Rule 2.1(b))

Correspondence regarding this Application should be directed to PG&E's representatives in this matter, listed below:

Evelyn C. Lee
Law Department
PACIFIC GAS AND ELECTRIC COMPANY
P. O. Box 7442
San Francisco, CA 94120-7442

Telephone: (415) 973-2786
Facsimile: (415) 973-5520
E-Mail: ECL8@pge.com

Wade Greenacre
Electric Operations and Nuclear Power
Generation Proceedings
PACIFIC GAS AND ELECTRIC COMPANY
P. O. Box 770000
San Francisco, CA 94177-0001

Telephone: (415) 973-8098
Facsimile: (415) 973-5520
E-Mail: WAG9@pge.com

6. Category of the Proceeding (Rule 2.1(c))

The Application should be categorized as a rate-setting proceeding.

7. Need for Hearing (Rule 2.1(c))

The Commission should grant the requested relief without hearings, based on the information presented in this Application. The Application does not raise any issues of fact that must be resolved through evidentiary hearing. However, if the Commission determines that hearings are necessary, the eight-month schedule proposed in Section V.A.9, below, provides sufficient time and flexibility for intervenors to review the ES Contracts and offer testimony, conduct evidentiary hearings, for the parties to submit briefs, and for the Commission to issue proposed and final decisions.

8. Issues To Be Considered (Rule 2.1(c))

The following issues should be considered in this proceeding:

- a. Is each ESA or PSA submitted for approval reasonable in its entirety, so that PG&E should recover the costs incurred under each contract in rates?
- b. Should each ESA and PSA count toward PG&E's energy storage target?
- c. Has PG&E satisfied its energy storage target?
- d. Should PG&E be allowed to recover the costs of ESAs through ERRAs?
- e. Should PG&E be authorized to include PSA facilities in rate base and recover the costs of the PSAs upon the satisfaction of closing conditions in the PSA?

- f. Should PG&E be authorized to recover PSA costs through DRAM in the interval before the next GRC cycle?
- g. Should the Joint IOU Protocol for the recovery of above-market energy storage costs in the PCIA be approved?
- h. Should ESA cost recovery through the PCIA pursuant to the Joint IOU Protocol be authorized for the full contract term?
- i. Should PG&E to authorized to submit for approval and counting toward its Energy Storage Program targets any agreements reached by the end of first quarter 2016, resulting from ongoing negotiations with participants in PG&E's 2014 ES RFO?
- j. Should PG&E be granted further relief?

9. Proposed Schedule (Rule 2.1(c))

PG&E proposes the following schedule for approval of this Application:

ACTIVITY	PROPOSED SCHEDULE
Application Filed	December 1, 2015
Application Noticed	December 3, 2015
Responses Filed	January 3, 2016
PG&E's Reply to Responses Filed	January 17, 2016
Pre-Hearing Conference	February 17, 2016
Assigned Commissioner's Scoping Memo	March 1, 2016
Intervenors' Opening Testimony Served	April 1, 2016
PG&E's Rebuttal Testimony Served	April 15, 2016
Evidentiary Hearing (placeholder only)	May 1, 2016
Opening Briefs Filed	May 15, 2016
Reply Briefs Filed	May 30, 2016
ALJ's Proposed Decision Filed	July 15, 2016
Final Decision	August 15, 2016

B. Organization and Qualification to Transact Business (Rule 2.2)

PG&E is, and since October 10, 1905 has been, an operating public utility corporation organized under California law. It is engaged principally in the business of furnishing electric and gas services in California. A certified copy of PG&E's Restated Articles of Incorporation, effective April 12, 2004, is on record before the Commission in connection with PG&E's

Application 04-05-005, filed with the Commission on May 3, 2004. These articles are incorporated herein by reference pursuant to Rule 2.2 of the Commission's Rules.

C. Financial Statement (Rule 2.3)

The information required by Rule 2.3 subsections (a) through (h) is contained in PG&E's Third Quarter 2015 Consolidated Statements of Income and Consolidated Balance Sheets, which are attached as Exhibit A to this Application.

D. Compliance with Requirements for the Construction of Utility-Owned Facilities

1. Exemption from CEQA Requirements (Rule 2.4)

The California Environmental Quality Act ("CEQA") applies to projects that require discretionary approval from a governmental agency, unless exempted by statute or regulation. It is long established that the act of ratemaking by the Commission is exempt from CEQA review. The Commission has recently affirmed that its consideration of a utility's request for approval of a power purchase agreement does not fall into any of the categories of a "project" subject to CEQA.^{13/} It clearly stated, "Commission review of purchase power contracts does not trigger CEQA."^{14/} The Commission explained that "[a] contract for purchase power by a regulated entity is not a 'project' pursuant to CEQA. CEQA defines a 'project' as '[a]ctivities involving the issuance to a person of a lease, permit, license, certificate, or other entitlement for use by one or more public agencies.' (Public Resources Code § 21065.)"^{15/}

Moreover, the California Public Resources Code states that the "establishment, modification, structuring, restructuring, or approval of rates, tolls, fares, or other charges by public agencies" including "obtaining funds for capital projects necessary to maintain service areas" is exempt from CEQA.^{16/} PG&E's request for approval of the contracts resulting from the 2014 ES RFO is not a project subject to CEQA. This Application is not subject to CEQA for

^{13/} D.15-11-024, at p. 2 (citing Public Resources Code Section 21065).

^{14/} D.15-05-051, Conclusion of Law 13.

^{15/} D.15-05-051, at p. 27.

^{16/} California Public Resources Code Section 21080(b)(8).

another reason. When power purchase agreements are presented for Commission approval, the utility, and not the project proponent, is the applicant. The Commission has found that in such cases, it does not have jurisdiction over the contract seller, nor does it approve or disapprove the PSA seller's proposal to construct the energy storage facility.^{17/} Accordingly, this Application for Commission review and approval of PG&E's execution of the ES Contracts does not trigger review under CEQA.

2. Construction or Extension of Facilities (Rule 3.1)

Rule 3.1 sets forth certain information required to be included in applications for a certificate of public convenience and necessity ("CPCN") for the construction of new generation or transmission line facilities.^{18/} Under CPUC General Order 131-D, the CPCN requirement does not apply to any power plant with a net capacity available at the busbar of less than 50 MW.^{19/}

As noted above, each of the PSA projects that will be developed will have a net capacity of one MW. As such, none of the projects requires a CPCN, and Rule 3.1 does not apply to this Application.

E. Authority to Increase Rates (Rule 3.2)

PG&E seeks authority recover the revenue requirement associated with the PSA turnkey energy storage facilities beginning on or about April 1, 2018, when the units are expected to meet their closing conditions and ownership is transferred to PG&E. Because this Application seeks authority to increase rates, a brief explanation is provided as context for the application of Rule 3.2; PG&E's detailed cost recovery proposal is provided in Chapter 7 of PG&E's Prepared Testimony.

1. Balance Sheet (Rule 3.2(a)(1))

PG&E's Third Quarter 2015 Consolidated Statements of Income and Consolidated Balance Sheets are attached to this Application as Exhibit A.

^{17/} D.15-11-024, at p. 3.

^{18/} General Order ("GO") 131-D Section III.A, "Certificate of Public Convenience and Necessity."

^{19/} GO 131-D, Section III.A.

2. Statement of the Presently Effective Rates Proposed for Increase (Rule 3.2.(a)(2))

PG&E's presently effective electric rates are attached as Exhibit B to this Application.

3. Statement of the Proposed Increases (Rule 3.2. (a)(3))

In this Application, PG&E requests authority to collect in the non-fuel costs of owning and operating the two proposed one MW PSA energy storage facilities. The following describes the "proposed increases or changes which will result in increases, which PG&E requests authority to make effective," as required by this Rule.

The revenue requirement associated with these facilities' capital costs and ownership and maintenance ("O&M") costs should be recovered in distribution rates. PG&E requests that the Commission adopt a rate increase for 2018 and 2019 based on the capital costs and operations and maintenance expenses for these projects, as presented in PG&E's Prepared Testimony.^{20/} Beginning in 2020, ongoing expenses and revenue requirement would be incorporated in Phase 1 of the 2020 GRC. If the CPUC approves PG&E's request, the effect on PG&E's overall electric rates beginning in 2018 would be an increase of less than 0.1 percent per year.

With regard to the ESAs, PG&E does not propose to modify its rates in this Application. Instead, these costs will be included in ERRRA, with recovery of above market costs through the PCIA, proposed for the full contract term.

If the Application is approved by the Commission, rates for retail customers (those who receive electric transmission and distribution service from PG&E) will increase by .01 percent on average, compared to current rates. PG&E has not attached tables to show the proposed revenue increase by rate classification because the increase is not greater than one percent.

4. Summary of Earnings (Rules 3.2(a)(5) and 3.2(a)(6))

PG&E's summary of revenues, expenses, rate base and rates of return for the recorded year 2014 were filed with the Commission on September 1, 2015 in Application ("A.") 15-09-001 and is incorporated herein by reference.

^{20/} See PG&E's Prepared Testimony, Chapter 6.

5. Proxy Statement (Rule 3.2(a)(8))

PG&E's most recent proxy statement dated March 25, 2015, was filed with the Commission on May 28, 2015 in A.15-05-016, and is incorporated herein by reference.

6. Type of Rate Change Request (Rule 3.2(a)(10))

This application seeks authority to pass through to customers increased costs to PG&E for the services furnished by PG&E plus the addition of the two turnkey energy storage facilities.

7. Service and Notice of Application (Rule 3.2(b)-(d))

PG&E will e-mail to the service list for A.14-02-007 and Rulemaking 15-03-011 a copy of this Application and a notice of availability containing a link to the Prepared Testimony on PG&E's website.

Within 20 days after filing this Application, PG&E will mail or send electronically a notice stating in general terms the proposed increase in rates and rate making mechanisms requested in this Application to the parties listed in Exhibit C of this Application, including the State of California and cities and counties served by PG&E. The notice will state that a copy of this Application and related attachments will be furnished by PG&E upon written request. A similar notice will be included in the regular bills mailed to PG&E's customers within 45 days of the filing date of this Application.

Within 20 days after the filing of this Application, PG&E will also publish in newspapers of general circulation in each county in its service territory a notice of the filing of this Application and any proposed changes in rates. That notice will state that a copy of this Application and related attachments may be examined at the Commission's offices and such offices of PG&E as specified in the notice.

Within 45 days after filing this Application, PG&E will also include similar notices of the proposed changes in rates with the regular bills mailed or emailed to all customers affected by the proposed changes.

VI. CONCLUSION

PG&E respectfully requests that the Commission grant the Application, and in its order, expressly:

- Authorize PG&E to fully recover the cost of the ES Contracts in rates, with the cost of the ESAs recovered through ERRR and the cost of the PSAs recovered in PG&E's GRC at the beginning of PG&E's next GRC cycle, and through a line item entry in PG&E's DRAM in the interim before the adoption of rates in the next GRC cycle;
- Find that PG&E's procurement under the ES Contracts contributes 60 MW of energy storage interconnected at the transmission level and 15 MW of energy storage interconnected at the distribution level, and that the market-participating energy storage resources will provide resource integration to assist the CAISO in meeting its operational flexibility needs, for purposes of determining PG&E's compliance with D.13-10-040 and D.14-10-045;
- Approve the Joint IOU Protocol for the recovery of above-market energy storage costs in the PCIA;
- Authorize ESA cost recovery through the PCIA pursuant to the Joint IOU Protocol for the full contract term;
- Confirm that PG&E may submit by subsequent application one or more contracts, executed by the end of the first quarter of 2016, with any of the 2014 ES RFO participants with whom it is currently negotiating, for approval and counting toward PG&E's energy storage target; and

///

///

///

VERIFICATION

I, Roy M. Kuga, declare:

I am an officer of Pacific Gas and Electric Company, a corporation, and am authorized, pursuant to Code of Civil Procedure § 446, ¶ 2, to make this Verification for and on behalf of said Corporation, and I make this Verification for that reason. I have read the foregoing Application, and I am informed and believe that the matters therein concerning Pacific Gas and Electric Company are true.

I declare under penalty of perjury under the laws of the State of California that the foregoing is true and correct.

Executed on November 23, 2015, at San Francisco, California.

/s/ ROY M. KUGA

ROY M. KUGA

Vice President - Energy Supply Management

EXHIBIT A

Third Quarter 2015

Consolidated Statements of Income and Consolidated Balance Sheet

PACIFIC GAS AND ELECTRIC COMPANY
CONDENSED CONSOLIDATED STATEMENTS OF INCOME

(in millions)	(Unaudited)			
	Three Months Ended		Nine Months Ended	
	September 30,		September 30,	
	2015	2014	2015	2014
Operating Revenues				
Electric	\$ 3,868	\$ 4,012	\$ 10,344	\$ 10,244
Natural gas	682	927	2,322	2,536
Total operating revenues	4,550	4,939	12,666	12,780
Operating Expenses				
Cost of electricity	1,681	1,782	3,958	4,341
Cost of natural gas	50	134	442	694
Operating and maintenance	1,622	1,293	5,028	3,911
Depreciation, amortization, and decommissioning	653	671	1,935	1,765
Total operating expenses	4,006	3,880	11,363	10,711
Operating Income	544	1,059	1,303	2,069
Interest income	2	1	6	6
Interest expense	(191)	(171)	(567)	(535)
Other income, net	22	19	68	56
Income Before Income Taxes	377	908	810	1,596
Income tax provision	72	115	95	325
Net Income	305	793	715	1,271
Preferred stock dividend requirement	3	3	10	10
Income Available for Common Stock	\$ 302	\$ 790	\$ 705	\$ 1,261

See accompanying Notes to the Condensed Consolidated Financial Statements.

**PACIFIC GAS AND ELECTRIC COMPANY
CONDENSED CONSOLIDATED BALANCE SHEETS**

(in millions)	(Unaudited)	
	Balance At	
	September 30, 2015	December 31, 2014
ASSETS		
Current Assets		
Cash and cash equivalents	\$ 62	\$ 55
Restricted cash	287	298
Accounts receivable:		
Customers (net of allowance for doubtful accounts of \$57 and \$66 at respective dates)	1,194	960
Accrued unbilled revenue	907	776
Regulatory balancing accounts	1,857	2,266
Other	300	375
Regulatory assets	475	444
Inventories:		
Gas stored underground and fuel oil	149	172
Materials and supplies	322	304
Income taxes receivable	154	168
Other	327	409
Total current assets	6,034	6,227
Property, Plant, and Equipment		
Electric	47,141	45,162
Gas	16,419	15,678
Construction work in progress	2,259	2,220
Total property, plant, and equipment	65,819	63,060
Accumulated depreciation	(20,173)	(19,120)
Net property, plant, and equipment	45,646	43,940
Other Noncurrent Assets		
Regulatory assets	6,584	6,322
Nuclear decommissioning trusts	2,417	2,421
Income taxes receivable	97	91
Other	1,006	864
Total other noncurrent assets	10,104	9,698
TOTAL ASSETS	\$ 61,784	\$ 59,865

See accompanying Notes to the Condensed Consolidated Financial Statements.

PACIFIC GAS AND ELECTRIC COMPANY
CONDENSED CONSOLIDATED BALANCE SHEETS

(in millions, except share amounts)	(Unaudited)	
	Balance At	
	September 30, 2015	December 31, 2014
LIABILITIES AND SHAREHOLDERS' EQUITY		
Current Liabilities		
Short-term borrowings	\$ 881	\$ 633
Accounts payable:		
Trade creditors	1,286	1,243
Regulatory balancing accounts	803	1,090
Other	455	444
Disputed claims and customer refunds	452	434
Interest payable	139	195
Other	1,932	1,604
Total current liabilities	5,948	5,643
Noncurrent Liabilities		
Long-term debt	15,195	14,700
Regulatory liabilities	6,294	6,290
Pension and other postretirement benefits	2,435	2,477
Asset retirement obligations	3,620	3,575
Deferred income taxes	9,018	8,773
Other	2,264	2,178
Total noncurrent liabilities	38,826	37,993
Commitments and Contingencies (Note 9)		
Shareholders' Equity		
Preferred stock	258	258
Common stock, \$5 par value, authorized 800,000,000 shares; 264,374,809 shares outstanding at respective dates	1,322	1,322
Additional paid-in capital	7,127	6,514
Reinvested earnings	8,298	8,130
Accumulated other comprehensive income	5	5
Total shareholders' equity	17,010	16,229
TOTAL LIABILITIES AND SHAREHOLDERS' EQUITY	\$ 61,784	\$ 59,865

See accompanying Notes to the Condensed Consolidated Financial Statements.

EXHIBIT B

PG&E's Presently Effective Rates

PACIFIC GAS AND ELECTRIC COMPANY
 PRESENT ELECTRIC RATES
 AS OF SEPTEMBER 1, 2015

RESIDENTIAL RATES

LINE NO.		9/1/15 RATES SUMMER	9/1/15 RATES WINTER	LINE NO.
1	SCHEDULE E-1			1
2	MINIMUM BILL (\$/MONTH)	\$10.00	\$10.00	2
3	ES UNIT DISCOUNT (\$/UNIT/MONTH)	(\$0.70)	(\$0.70)	3
4	ET UNIT DISCOUNT (\$/UNIT/MONTH)	\$2.35	\$2.35	4
5	ES/ET MINIMUM RATE LIMITER (\$/KWH)	\$0.04892	\$0.04892	5
6	ENERGY (\$/KWH)			6
7	TIER 1	\$0.16700	\$0.16700	7
8	TIER 2	\$0.19824	\$0.19824	8
9	TIER 3	\$0.25200	\$0.25200	9
10	TIER 4	\$0.32088	\$0.32088	10
11	TIER 5	\$0.32088	\$0.32088	11
12	SCHEDULE EL-1 (CARE)			12
13	MINIMUM BILL (\$/MONTH)	\$5.00	\$5.00	13
14	ENERGY (\$/KWH)			14
15	TIER 1	\$0.10741	\$0.10741	15
16	TIER 2	\$0.12830	\$0.12830	16
17	TIER 3	\$0.16467	\$0.16467	17

PACIFIC GAS AND ELECTRIC COMPANY
 PRESENT ELECTRIC RATES
 AS OF SEPTEMBER 1, 2015

RESIDENTIAL RATES

LINE NO.		9/1/15 RATES SUMMER	9/1/15 RATES WINTER	LINE NO.
1	SCHEDULE E-6 / EM-TOU			1
2	MINIMUM BILL (\$/MONTH)	\$10.00	\$10.00	2
3	E-6 METER CHARGE (\$/MONTH)	\$7.70	\$7.70	3
4	ON-PEAK ENERGY (\$/KWH)			4
5	TIER 1	\$0.32654		5
6	TIER 2	\$0.35778		6
7	TIER 3	\$0.41064		7
8	TIER 4	\$0.47952		8
9	TIER 5	\$0.47952		9
10	PART-PEAK ENERGY (\$/KWH)			10
11	TIER 1	\$0.21127	\$0.15566	11
12	TIER 2	\$0.24251	\$0.18690	12
13	TIER 3	\$0.29537	\$0.23976	13
14	TIER 4	\$0.36425	\$0.30864	14
15	TIER 5	\$0.36425	\$0.30864	15
16	OFF-PEAK ENERGY (\$/KWH)			16
17	TIER 1	\$0.13449	\$0.13883	17
18	TIER 2	\$0.16574	\$0.17007	18
19	TIER 3	\$0.21859	\$0.22293	19
20	TIER 4	\$0.28747	\$0.29181	20
21	TIER 5	\$0.28747	\$0.29181	21

22	SCHEDULE EL-6 / EML-TOU			22
23	MINIMUM BILL (\$/MONTH)	\$5.00	\$5.00	23
24	EL-6 METER CHARGE(\$/MONTH)	\$6.16	\$6.16	24
25	ON-PEAK ENERGY (\$/KWH)			25
26	TIER 1	\$0.22421		26
27	TIER 2	\$0.24618		27
28	TIER 3	\$0.33476		28
29	PART-PEAK ENERGY (\$/KWH)			29
30	TIER 1	\$0.13971	\$0.09895	30
31	TIER 2	\$0.16168	\$0.12090	31
32	TIER 3	\$0.21170	\$0.15234	32
33	OFF-PEAK ENERGY (\$/KWH)			33
34	TIER 1	\$0.08343	\$0.08660	34
35	TIER 2	\$0.10540	\$0.10856	35
36	TIER 3	\$0.12974	\$0.13436	36

PACIFIC GAS AND ELECTRIC COMPANY
 PRESENT ELECTRIC RATES
 AS OF SEPTEMBER 1, 2015

RESIDENTIAL RATES

LINE NO.		9/1/15 RATES SUMMER	9/1/15 RATES WINTER	LINE NO.
1	SCHEDULE E-7			1
2	MINIMUM BILL (\$/MONTH)	\$10.00	\$10.00	2
3	E-7 METER CHARGE (\$/MONTH)	\$3.51	\$3.51	3
4	RATE W METER CHARGE (\$/MONTH)	\$1.17	\$1.17	4
5	ON-PEAK ENERGY (\$/KWH)			5
6	TIER 1	\$0.36292	\$0.14842	6
7	TIER 2	\$0.39479	\$0.18028	7
8	TIER 3	\$0.44854	\$0.23404	8
9	TIER 4	\$0.51742	\$0.30292	9
10	TIER 5	\$0.51742	\$0.30292	10
11	OFF-PEAK ENERGY (\$/KWH)			11
12	TIER 1	\$0.11477	\$0.11838	12
13	TIER 2	\$0.14663	\$0.15024	13
14	TIER 3	\$0.20039	\$0.20400	14
15	TIER 4	\$0.26927	\$0.27288	15
16	TIER 5	\$0.26927	\$0.27288	16
17	SCHEDULE EL-7			17
18	MINIMUM BILL (\$/MONTH)	\$10.00	\$10.00	18
19	EL-7 METER CHARGE(\$/MONTH)	\$0.00	\$0.00	19
20	ON-PEAK ENERGY (\$/KWH)			20
21	TIER 1	\$0.29793	\$0.11356	21
22	TIER 2	\$0.32203	\$0.13766	22
23	TIER 3	\$0.44213	\$0.17363	23
24	OFF-PEAK ENERGY (\$/KWH)			24
25	TIER 1	\$0.08464	\$0.08775	25
26	TIER 2	\$0.10874	\$0.11185	26
27	TIER 3	\$0.13151	\$0.13604	27
28	SCHEDULE E-8			28
29	CUSTOMER CHARGE (\$/MONTH)	\$12.53	\$12.53	29
30	ENERGY (\$/KWH)			30
31	TIER 1	\$0.17151	\$0.12088	31
32	TIER 2	\$0.18411	\$0.13348	32
33	TIER 3	\$0.23787	\$0.18723	33
34	TIER 4	\$0.30675	\$0.25611	34
35	TIER 5	\$0.30675	\$0.25611	35
36	SCHEDULE EL-8 (CARE)			36
37	CUSTOMER CHARGE (\$/MONTH)	\$10.02	\$10.02	37
38	ENERGY CHARGE (\$/KWH)			38
39	TIER 1	\$0.11059	\$0.07567	39
40	TIER 2	\$0.11863	\$0.08371	40
41	TIER 3	\$0.16929	\$0.11844	41

PACIFIC GAS AND ELECTRIC COMPANY
PRESENT ELECTRIC RATES
AS OF SEPTEMBER 1, 2015

RESIDENTIAL RATES

LINE NO.		9/1/15 RATES SUMMER	9/1/15 RATES WINTER	LINE NO.

1	SCHEDULE E-9: RATE A			1
2	MINIMUM BILL (\$/MONTH)	\$10.00	\$10.00	2
3	E-9 METER CHARGE (\$/MONTH)	\$6.66	\$6.66	3
4	ON-PEAK ENERGY (\$/KWH)			4
5	TIER 1	\$0.35088		5
6	TIER 2	\$0.38276		6
7	TIER 3	\$0.46923		7
8	TIER 4	\$0.53811		8
9	TIER 5	\$0.53811		9
10	PART-PEAK ENERGY (\$/KWH)			10
11	TIER 1	\$0.13550	\$0.13538	11
12	TIER 2	\$0.16737	\$0.16723	12
13	TIER 3	\$0.25385	\$0.25372	13
14	TIER 4	\$0.32273	\$0.32260	14
15	TIER 5	\$0.32273	\$0.32260	15
16	OFF-PEAK ENERGY (\$/KWH)			16
17	TIER 1	\$0.07044	\$0.08038	17
18	TIER 2	\$0.10231	\$0.11224	18
19	TIER 3	\$0.10333	\$0.10333	19
20	TIER 4	\$0.17221	\$0.17221	20
21	TIER 5	\$0.17221	\$0.17221	21

22	SCHEDULE E-9: RATE B			22
23	MINIMUM BILL (\$/MONTH)	\$10.00	\$10.00	23
24	E-9 METER CHARGE (\$/MONTH)	\$6.66	\$6.66	24
25	ON-PEAK ENERGY (\$/KWH)			25
26	TIER 1	\$0.34607		26
27	TIER 2	\$0.37795		27
28	TIER 3	\$0.46442		28
29	TIER 4	\$0.53330		29
30	TIER 5	\$0.53330		30
31	PART-PEAK ENERGY (\$/KWH)			31
32	TIER 1	\$0.13069	\$0.13111	32
33	TIER 2	\$0.16256	\$0.16296	33
34	TIER 3	\$0.24904	\$0.24946	34
35	TIER 4	\$0.31792	\$0.31834	35
36	TIER 5	\$0.31792	\$0.31834	36
37	OFF-PEAK ENERGY (\$/KWH)			37
38	TIER 1	\$0.07824	\$0.08738	38
39	TIER 2	\$0.11012	\$0.11924	39
40	TIER 3	\$0.19659	\$0.20574	40
41	TIER 4	\$0.26547	\$0.27462	41
42	TIER 5	\$0.26547	\$0.27462	42

43	SCHEDULE EV: RATE A			43
44	MINIMUM BILL (\$/MONTH)	\$10.00	\$10.00	44
45	ON-PEAK ENERGY (\$/KWH)	\$0.42464	\$0.29101	45
46	PART-PEAK ENERGY (\$/KWH)	\$0.22282	\$0.17106	46
47	OFF-PEAK ENERGY (\$/KWH)	\$0.09746	\$0.10034	47

48	SCHEDULE EV: RATE B			48
49	EV-B METER CHARGE (\$/MONTH)	\$1.50	\$1.50	49
50	ON-PEAK ENERGY (\$/KWH)	\$0.41908	\$0.28503	50
51	PART-PEAK ENERGY (\$/KWH)	\$0.22004	\$0.16807	51
52	OFF-PEAK ENERGY (\$/KWH)	\$0.09706	\$0.09991	52

PACIFIC GAS AND ELECTRIC COMPANY
 PRESENT ELECTRIC RATES
 AS OF SEPTEMBER 1, 2015

SMALL L&P RATES

LINE NO.		9/1/15 RATES SUMMER	9/1/15 RATES WINTER	LINE NO.
1	SCHEDULE A-1			1
2	CUSTOMER CHARGE: SINGLE-PHASE (\$/MO.)	\$10.00	\$10.00	2
3	CUSTOMER CHARGE: POLYPHASE (\$/MO.)	\$20.00	\$20.00	3
4	ENERGY (\$/KWH)	\$0.23977	\$0.16246	4

5	SCHEDULE A-1 TOU			5
6	CUSTOMER CHARGE: SINGLE-PHASE (\$/MO.)	\$10.00	\$10.00	6
7	CUSTOMER CHARGE: POLYPHASE (\$/MO.)	\$20.00	\$20.00	7
8	ENERGY (\$/KWH)			8
9	ON-PEAK	\$0.26042		9
10	PART-PEAK	\$0.25109	\$0.17280	10
11	OFF-PEAK ENERGY	\$0.22269	\$0.15298	11

12	SCHEDULE A-6			12
13	CUSTOMER CHARGE: SINGLE-PHASE (\$/MO.)	\$10.00	\$10.00	13
14	CUSTOMER CHARGE: POLYPHASE (\$/MO.)	\$20.00	\$20.00	14
15	METER CHARGE (\$/MONTH)	\$6.12	\$6.12	15
16	METER CHARGE - RATE W (\$/MONTH)	\$1.80	\$1.80	16
17	METER CHARGE - RATE X (\$/MONTH)	\$6.12	\$6.12	17
18	ENERGY (\$/KWH)			18
19	ON-PEAK	\$0.60974		19
20	PART-PEAK	\$0.28352	\$0.17883	20
21	OFF-PEAK ENERGY	\$0.15605	\$0.14605	21

22	SCHEDULE A-15			22
23	CUSTOMER CHARGE (\$/MONTH)	\$10.00	\$10.00	23
24	FACILITY CHARGE (\$/MONTH)	\$25.00	\$25.00	24
25	ENERGY (\$/KWH)	\$0.23977	\$0.16246	25

26	SCHEDULE TC-1			26
27	CUSTOMER CHARGE (\$/MONTH)	Check	Check	27
28	ENERGY (\$/KWH)	\$0.00000	\$0.00000	28

PACIFIC GAS AND ELECTRIC COMPANY
 PRESENT ELECTRIC RATES
 AS OF SEPTEMBER 1, 2015

MEDIUM L&P RATES

LINE NO.		9/1/15 RATES SUMMER	9/1/15 RATES WINTER	LINE NO.

1	SCHEDULE A-10			1
2	CUSTOMER CHARGE (\$/MONTH)	\$140.00	\$140.00	2
3	MAXIMUM DEMAND CHARGE (\$/KW/MO)			3
4	SECONDARY VOLTAGE	\$15.54	\$7.31	4
5	PRIMARY VOLTAGE	\$14.53	\$7.51	5
6	TRANSMISSION VOLTAGE	\$10.16	\$5.60	6
7	ENERGY CHARGE (\$/KWH)			7
8	SECONDARY VOLTAGE	\$0.16116	\$0.11674	8
9	PRIMARY VOLTAGE	\$0.14936	\$0.11069	9
10	TRANSMISSION VOLTAGE	\$0.12137	\$0.09583	10

11	SCHEDULE A-10 TOU			11
12	CUSTOMER CHARGE (\$/MONTH)	\$140.00	\$140.00	12
13	MAXIMUM DEMAND CHARGE (\$/KW/MO)			13
14	SECONDARY VOLTAGE	\$15.54	\$7.31	14
15	PRIMARY VOLTAGE	\$14.53	\$7.51	15
16	TRANSMISSION VOLTAGE	\$10.16	\$5.60	16
17	ENERGY CHARGE (\$/KWH)			17
18	SECONDARY			18
19	ON PEAK	\$0.17891		19
20	PARTIAL PEAK	\$0.17087	\$0.12750	20
21	OFF-PEAK	\$0.14642	\$0.10654	21
22	PRIMARY			22
23	ON PEAK	\$0.16420		23
24	PARTIAL PEAK	\$0.15846	\$0.11949	24
25	OFF-PEAK	\$0.13650	\$0.10231	25
26	TRANSMISSION			26
27	ON PEAK	\$0.13481		27
28	PARTIAL PEAK	\$0.12958	\$0.10392	28
29	OFF-PEAK	\$0.10973	\$0.08816	29

PACIFIC GAS AND ELECTRIC COMPANY
PRESENT ELECTRIC RATES
AS OF SEPTEMBER 1, 2015

E-19 FIRM RATES

LINE NO.		9/1/15 RATES SUMMER	9/1/15 RATES WINTER	LINE NO.

1	SCHEDULE E-19 T FIRM			1
2	CUSTOMER CHARGE > 500 KW (\$/MONTH)	\$0.00	\$0.00	2
3	CUSTOMER CHARGE < 500 KW (\$/MONTH)	(\$5.40)	(\$5.40)	3
4	TOU METER CHARGE - RATES V & X (\$/MONTH)	\$5.40	\$5.40	4
5	TOU METER CHARGE - RATE W (\$/MONTH)	\$5.40	\$5.40	5
6	DEMAND CHARGE (\$/KW/MONTH)			6
7	ON-PEAK	\$0.00		7
8	PARTIAL PEAK	\$0.00	\$4.60	8
9	MAXIMUM	\$0.00	\$4.60	9
10	ENERGY CHARGE (\$/KWH)			10
11	ON-PEAK	\$0.98563		11
12	PARTIAL-PEAK	\$0.00000	\$0.00526	12
13	OFF-PEAK	\$0.00000	(\$0.00046)	13

14	SCHEDULE E-19 P FIRM			14
15	CUSTOMER CHARGE > 500 KW (\$/MONTH)	\$0.00	\$0.00	15
16	CUSTOMER CHARGE < 500 KW (\$/MONTH)	(\$5.40)	(\$5.40)	16
17	TOU METER CHARGE - RATES V & X (\$/MONTH)	\$5.40	\$5.40	17
18	TOU METER CHARGE - RATE W (\$/MONTH)	\$5.40	\$5.40	18
19	DEMAND CHARGE (\$/KW/MONTH)			19
20	ON-PEAK	\$0.00		20
21	PARTIAL PEAK	\$1.21	\$0.00	21
22	MAXIMUM	\$0.34	\$0.12	22
23	ENERGY CHARGE (\$/KWH)			23
24	ON-PEAK	\$0.00000		24
25	PARTIAL-PEAK	\$0.14861	\$0.00000	25
26	OFF-PEAK	\$0.10219	\$0.09696	26

27	SCHEDULE E-19 S FIRM			27
28	CUSTOMER CHARGE > 500 KW (\$/MONTH)	\$0.00	\$0.00	28
29	CUSTOMER CHARGE < 500 KW (\$/MONTH)	(\$5.40)	(\$5.40)	29
30	TOU METER CHARGE - RATES V & X (\$/MONTH)	\$5.40	\$5.40	30
31	TOU METER CHARGE - RATE W (\$/MONTH)	\$5.40	\$5.40	31
32	DEMAND CHARGE (\$/KW/MONTH)			32
33	ON-PEAK	\$0.00		33
34	PARTIAL PEAK	\$0.00	(\$0.00)	34
35	MAXIMUM	\$0.00	\$0.00	35
36	ENERGY CHARGE (\$/KWH)			36
37	ON-PEAK	(\$0.00046)		37
38	PARTIAL-PEAK	\$0.00050	\$0.00000	38
39	OFF-PEAK	(\$0.00504)	Q = L + M + N	39

PACIFIC GAS AND ELECTRIC COMPANY
 PRESENT ELECTRIC RATES
 AS OF SEPTEMBER 1, 2015

E-20 FIRM RATES

LINE NO.		9/1/15 RATES SUMMER	9/1/15 RATES WINTER	LINE NO.
1	SCHEDULE E-20 T FIRM			1
2	CUSTOMER CHARGE (\$/MONTH)-FIRM	\$0.00	\$0.00	2
3	DEMAND CHARGE (\$/KW/MONTH)			3
4	ON-PEAK	\$0.00		4
5	PARTIAL PEAK	\$59.14	\$4.60	5
6	MAXIMUM	\$4.60	\$0.00	6
7	ENERGY CHARGE (\$/KWH)			7
8	ON-PEAK	\$0.00000		8
9	PARTIAL-PEAK	\$0.00000	\$0.00050	9
10	OFF-PEAK	\$0.00526	(\$0.00504)	10

11	SCHEDULE E-20 P FIRM			11
12	CUSTOMER CHARGE (\$/MONTH)	\$0.00	\$0.00	12
13	DEMAND CHARGE (\$/KW/MONTH)			13
14	ON-PEAK	Q = L + M + N		14
15	PARTIAL PEAK	Total	\$17.03	15
16	MAXIMUM	\$0.00	\$3.78	16
17	ENERGY CHARGE (\$/KWH)			17
18	ON-PEAK	\$7.18000		18
19	PARTIAL-PEAK	\$0.00000	\$0.00000	19
20	OFF-PEAK	\$0.00000	\$0.00000	20

21	SCHEDULE E-20 S FIRM			21
22	CUSTOMER CHARGE (\$/MONTH)	\$0.00	\$0.00	22
23	DEMAND CHARGE (\$/KW/MONTH)			23
24	ON-PEAK	\$0.00		24
25	PARTIAL PEAK	\$0.09	\$0.00	25
26	MAXIMUM	\$0.09	\$0.09	26
27	ENERGY CHARGE (\$/KWH)			27
28	ON-PEAK	\$0.00000		28
29	PARTIAL-PEAK	\$0.30830	\$0.00000	29
30	OFF-PEAK	\$0.12865	\$0.08500	30

PACIFIC GAS AND ELECTRIC COMPANY
 PRESENT ELECTRIC RATES
 AS OF SEPTEMBER 1, 2015

OIL AND GAS EXTRACTION RATES

LINE NO.		9/1/15 RATES SUMMER	9/1/15 RATES WINTER	LINE NO.
1	SCHEDULE E-37			1
2	CUSTOMER CHARGE (\$/MONTH)	\$0.00	\$0.00	2
3	TOU METER CHARGE - RATE W (\$/MONTH)	\$0.00	\$0.00	3
4	TOU METER CHARGE - RATE X (\$/MONTH)	\$0.00	\$0.00	4
5	ON PEAK DEMAND CHARGE (\$/KW/MO)	\$0.00		5
6	MAXIMUM DEMAND CHARGE (\$/KW/MO)			6
7	SECONDARY VOLTAGE	\$0.00	\$0.15	7
8	PRIMARY VOLTAGE DISCOUNT	\$0.10	\$0.07	8
9	TRANSMISSION VOLTAGE DISCOUNT	\$0.00	\$0.00	9
10	ENERGY (\$/KWH)			10
11	ON-PEAK	\$0.00000		11
12	PART-PEAK		\$0.00000	12
13	OFF-PEAK	\$0.09739	\$0.00000	13

PACIFIC GAS AND ELECTRIC COMPANY
PRESENT ELECTRIC RATES
AS OF SEPTEMBER 1, 2015

STANDBY RATES

LINE NO.		9/1/15 RATES SUMMER	9/1/15 RATES WINTER	LINE NO.

1	SCHEDULE S - TRANSMISSION			1
2	CONTRACT CAPACITY CHARGE (\$/KW/MO.)	\$0.00	\$0.00	2
3	EFFECTIVE RESERVATION CHARGE (\$/KW/MO.)	\$0.00	\$0.00	3
4	ENERGY (\$/KWH)			4
5	ON-PEAK	\$0.14915		5
6	PART-PEAK	\$0.00000	\$0.00526	6
7	OFF-PEAK	\$0.00000	-\$0.00002	7

8	SCHEDULE S - PRIMARY			8
9	CONTRACT CAPACITY CHARGE (\$/KW/MO.)	\$0.00	\$0.00	9
10	EFFECTIVE RESERVATION CHARGE (\$/KW/MO.)	\$0.00	\$0.00	10
11	ENERGY (\$/KWH)			11
12	ON-PEAK	\$0.00000		12
13	PART-PEAK	\$0.00000	\$0.00000	13
14	OFF-PEAK	\$0.00000	\$0.00000	14

15	SCHEDULE S - SECONDARY			15
16	CONTRACT CAPACITY CHARGE (\$/KW/MO.)	(\$0.01)	(\$0.01)	16
17	EFFECTIVE RESERVATION CHARGE (\$/KW/MO.)	\$0.00	\$0.00	17
18	ENERGY (\$/KWH)			18
19	ON-PEAK	\$0.00000		19
20	PART-PEAK	\$0.00000	\$0.00000	20
21	OFF-PEAK	\$0.00000	\$0.00000	21

PACIFIC GAS AND ELECTRIC COMPANY
PRESENT ELECTRIC RATES
AS OF SEPTEMBER 1, 2015

STANDBY RATES

LINE NO.	DESCRIPTION	9/1/15 RATES SUMMER	9/1/15 RATES WINTER	LINE NO.
1	SCHEDULE S CUSTOMER AND METER CHARGES			1
2	RESIDENTIAL			2
3	CUSTOMER CHARGE (\$/MO)	\$0.00	\$0.00	3
4	TOU METER CHARGE (\$/MO)	\$0.00	\$0.00	4
5	AGRICULTURAL			5
6	CUSTOMER CHARGE (\$/MO)	Check	Check	6
7	TOU METER CHARGE (\$/MO)	\$0.00	\$0.00	7
8	SMALL LIGHT AND POWER (less than or equal to 50 kW)			8
9	SINGLE PHASE CUSTOMER CHARGE (\$/MO)	\$0.00	\$0.00	9
10	POLY PHASE CUSTOMER CHARGE (\$/MO)	\$0.00	\$0.00	10
11	METER CHARGE (\$/MO)	\$0.00	\$0.00	11
12	MEDIUM LIGHT AND POWER (>50 kW, <500 kW)			12
13	CUSTOMER CHARGE (\$/MO)	\$0.00	\$0.00	13
14	METER CHARGE (\$/MO)	\$0.00	\$0.00	14
15	MEDIUM LIGHT AND POWER (>500kW)			15
16	TRANSMISSION CUSTOMER CHARGE (\$/MO)	Check	Check	16
17	PRIMARY CUSTOMER CHARGE (\$/MO)	\$0.00	\$0.00	17
18	SECONDARY CUSTOMER CHARGE (\$/MO)	\$0.00	\$0.00	18
19	LARGE LIGHT AND POWER (> 1000 kW)			19
20	TRANSMISSION CUSTOMER CHARGE (\$/MO)	\$10.00	\$10.00	20
21	PRIMARY CUSTOMER CHARGE (\$/MO)	\$0.00	\$0.00	21
22	SECONDARY CUSTOMER CHARGE (\$/MO)	\$0.00	\$0.00	22
23	REDUCED CUSTOMER CHARGES (\$/MO)			23
24	SMALL LIGHT AND PWR (< 50 kW)	\$0.00	\$0.00	24
25	MED LIGHT AND PWR (Res Capacity >50 kW and <500 kW)	\$0.00	\$0.00	25
26	MED LIGHT AND PWR (Res Capacity > 500 kW and < 1000 kW)	\$0.00	\$0.00	26

PACIFIC GAS AND ELECTRIC COMPANY
PRESENT ELECTRIC RATES
AS OF SEPTEMBER 1, 2015

AGRICULTURAL RATES

LINE NO.		9/1/15 RATES SUMMER	9/1/15 RATES WINTER	LINE NO.

1	SCHEDULE AG-1A			1
2	CUSTOMER CHARGE (\$/MONTH)	\$0.00	\$0.00	2
3	CONNECTED LOAD CHARGE (\$/KW/MONTH)	(\$0.00)	\$0.00	3
4	ENERGY CHARGE (\$/KWH)	\$0.00000	\$0.53786	4

5	SCHEDULE AG-RA			5
6	CUSTOMER CHARGE - RATES A & D (\$/MONTH)	\$0.00	\$0.00	6
7	METER CHARGE - RATE A (\$/MONTH)	\$0.00	\$0.00	7
8	METER CHARGE - RATE D (\$/MONTH)	\$0.00	\$0.00	8
9	CONNECTED LOAD CHARGE (\$/KW/MONTH)	\$3.66	\$0.00	9
10	ENERGY (\$/KWH)			10
11	ON-PEAK	\$0.00526		11
12	PART-PEAK		(\$0.00504)	12
13	OFF-PEAK	(\$0.00025)	\$0.00000	13

14	SCHEDULE AG-VA			14
15	CUSTOMER CHARGE - RATES A & D (\$/MONTH)	\$0.00	\$0.00	15
16	METER CHARGE - RATE A (\$/MONTH)	\$0.00	\$0.00	16
17	METER CHARGE - RATE D (\$/MONTH)	\$0.00	\$0.00	17
18	CONNECTED LOAD CHARGE (\$/KW/MONTH)	\$0.00	\$0.00	18
19	ENERGY (\$/KWH)			19
20	ON-PEAK	\$0.00000		20
21	PART-PEAK		\$0.00000	21
22	OFF-PEAK	\$0.65708	\$0.00000	22

23	SCHEDULE AG-4A			23
24	CUSTOMER CHARGE - RATES A & D (\$/MONTH)	\$0.00	\$0.00	24
25	METER CHARGE - RATE A (\$/MONTH)	\$0.00	\$0.00	25
26	METER CHARGE - RATE D (\$/MONTH)	\$0.00	\$0.00	26
27	CONNECTED LOAD CHARGE (\$/KW/MONTH)	\$39.65	\$0.00	27
28	ENERGY (\$/KWH)			28
29	ON-PEAK	\$0.00000		29
30	PART-PEAK		\$0.75565	30
31	OFF-PEAK	\$0.00000	\$0.00000	31

32	SCHEDULE AG-5A			32
33	CUSTOMER CHARGE - RATES A & D (\$/MONTH)	\$0.00	\$0.00	33
34	METER CHARGE - RATE A (\$/MONTH)	\$0.00	\$0.00	34
35	METER CHARGE - RATE D (\$/MONTH)	\$0.00	\$0.00	35
36	CONNECTED LOAD CHARGE (\$/KW/MONTH)	\$0.01	(\$0.00)	36
37	ENERGY (\$/KWH)			37
38	ON-PEAK	\$0.00000		38
39	PART-PEAK		\$0.00000	39
40	OFF-PEAK	\$0.45856	\$0.16856	40

PACIFIC GAS AND ELECTRIC COMPANY
PRESENT ELECTRIC RATES
AS OF SEPTEMBER 1, 2015
AGRICULTURAL RATES

LINE NO.		9/1/15 RATES SUMMER	9/1/15 RATES WINTER	LINE NO.

1	SCHEDULE AG-1B			1
2	CUSTOMER CHARGE (\$/MONTH)	\$0.00	\$0.00	2
3	MAXIMUM DEMAND CHARGE (\$/KW/MONTH)			3
4	SECONDARY VOLTAGE	\$0.00	(\$0.01)	4
5	PRIMARY VOLTAGE DISCOUNT	Total	\$3.76	5
6	ENERGY CHARGE (\$/KWH)	\$0.18415	\$0.00000	6

7	SCHEDULE AG-RB			7
8	CUSTOMER CHARGE - RATES B & E (\$/MONTH)	\$0.00	\$0.00	8
9	METER CHARGE - RATE B (\$/MONTH)	\$0.00	\$0.00	9
10	METER CHARGE - RATE E (\$/MONTH)	\$0.00	\$0.00	10
11	ON-PEAK DEMAND CHARGE (\$/KW/MONTH)	\$0.28		11
12	MAXIMUM DEMAND CHARGE (\$/KW/MONTH)			12
13	SECONDARY VOLTAGE	\$0.18	\$0.15	13
14	PRIMARY VOLTAGE DISCOUNT	\$0.00	\$0.00	14
15	ENERGY CHARGE (\$/KWH)			15
16	ON-PEAK	\$0.00029		16
17	PART-PEAK		Q = L + M + N	17
18	OFF-PEAK	(\$0.00504)	Total	18

19	SCHEDULE AG-VB			19
20	CUSTOMER CHARGE - RATES B & E (\$/MONTH)	\$0.00	\$0.00	20
21	METER CHARGE - RATE B (\$/MONTH)	\$0.00	\$0.00	21
22	METER CHARGE - RATE E (\$/MONTH)	\$0.00	\$0.00	22
23	ON-PEAK DEMAND CHARGE (\$/KW/MONTH)	\$0.16		23
24	MAXIMUM DEMAND CHARGE (\$/KW/MONTH)			24
25	SECONDARY VOLTAGE	\$0.00	\$0.00	25
26	PRIMARY VOLTAGE DISCOUNT	\$0.00	\$0.00	26
27	ENERGY CHARGE (\$/KWH)			27
28	ON-PEAK	\$0.00000		28
29	PART-PEAK		\$0.00000	29
30	OFF-PEAK	\$0.00000	\$59.13758	30

PACIFIC GAS AND ELECTRIC COMPANY
PRESENT ELECTRIC RATES
AS OF SEPTEMBER 1, 2015

AGRICULTURAL RATES

LINE NO.		9/1/15 RATES SUMMER	9/1/15 RATES WINTER	LINE NO.

1	SCHEDULE AG-4B			1
2	CUSTOMER CHARGE - RATES B & E (\$/MONTH)	\$0.00	\$0.00	2
3	METER CHARGE - RATE B (\$/MONTH)	\$0.00	\$0.00	3
4	METER CHARGE - RATE E (\$/MONTH)	\$0.00	\$0.00	4
5	ON-PEAK DEMAND CHARGE (\$/KW/MONTH)	\$0.00		5
6	MAXIMUM DEMAND CHARGE (\$/KW/MONTH)			6
7	SECONDARY VOLTAGE	\$7.26	\$0.00	7
8	PRIMARY VOLTAGE DISCOUNT	\$0.00	\$0.25	8
9	ENERGY CHARGE (\$/KWH)			9
10	ON-PEAK	(\$0.00054)		10
11	PART-PEAK		\$0.00000	11
12	OFF-PEAK	\$0.00058	\$0.00526	12

13	SCHEDULE AG-4C			13
14	CUSTOMER CHARGE - RATES C & F (\$/MONTH)	\$0.00	\$0.00	14
15	METER CHARGE - RATE C (\$/MONTH)	\$0.00	\$0.00	15
16	METER CHARGE - RATE F (\$/MONTH)	\$0.00	\$0.00	16
17	DEMAND CHARGE (\$/KW/MONTH)			17
18	ON-PEAK	\$10.68		18
19	PART-PEAK	\$2.10	\$1.18	19
20	MAXIMUM	\$0.00	\$0.29	20
21	PRIMARY VOLTAGE DISCOUNT	\$3.58	\$8.84	21
22	TRANSMISSION VOLTAGE DISCOUNT			22
23	ON-PEAK	\$0.00		23
24	PART-PEAK	\$0.00	\$0.00	24
25	MAXIMUM	\$0.80	\$0.00	25
26	ENERGY CHARGE (\$/KWH)			26
27	ON-PEAK	\$0.00000		27
28	PART-PEAK	Q = L + M + N	\$0.00000	28
29	OFF-PEAK	Total	\$6.47000	29

30	SCHEDULE AG-5B			30
31	CUSTOMER CHARGE - RATES B & E (\$/MONTH)	\$0.00	\$0.00	31
32	METER CHARGE - RATE B (\$/MONTH)	\$0.00	\$0.00	32
33	METER CHARGE - RATE E (\$/MONTH)	\$0.00	\$0.00	33
34	ON-PEAK DEMAND CHARGE (\$/KW/MONTH)	(\$0.00)		34
35	MAXIMUM DEMAND CHARGE (\$/KW/MONTH)			35
36	SECONDARY VOLTAGE	\$0.00	\$0.00	36
37	PRIMARY VOLTAGE DISCOUNT	\$0.00	\$1.71	37
38	TRANSMISSION VOLTAGE DISCOUNT	\$0.00	\$0.86	38
39	ENERGY CHARGE (\$/KWH)			39
40	ON-PEAK	\$0.41161		40
41	PART-PEAK		\$0.14185	41
42	OFF-PEAK	\$0.14954	\$0.11788	42

PACIFIC GAS AND ELECTRIC COMPANY
 PRESENT ELECTRIC RATES
 AS OF SEPTEMBER 1, 2015

AGRICULTURAL RATES

LINE NO.		9/1/15 RATES SUMMER	9/1/15 RATES WINTER	LINE NO.
1	SCHEDULE AG-5C			1
2	CUSTOMER CHARGE - RATES C & F (\$/MONTH)	\$0.00	\$0.00	2
3	METER CHARGE - RATE C (\$/MONTH)	\$0.00	\$0.00	3
4	METER CHARGE - RATE F (\$/MONTH)	\$0.00	\$0.00	4
5	DEMAND CHARGE (\$/KW/MONTH)			5
6	ON-PEAK	\$0.00		6
7	PART-PEAK	\$6.50	\$0.00	7
8	MAXIMUM	\$1.07	\$0.00	8
9	PRIMARY VOLTAGE DISCOUNT	(\$0.00)	\$0.00	9
10	TRANSMISSION VOLTAGE DISCOUNT			10
11	ON-PEAK	\$0.01		11
12	PART-PEAK	(\$0.00)	\$0.00	12
13	MAXIMUM	\$0.00	Q = L + M + N	13
14	ENERGY CHARGE (\$/KWH)			14
15	ON-PEAK	\$0.75565		15
16	PART-PEAK	\$0.00000	\$0.00000	16
17	OFF-PEAK	\$0.00000	\$0.00000	17

18	SCHEDULE AG-ICE			18
19	CUSTOMER CHARGE (\$/MONTH)	\$0.00	\$0.00	19
20	METER CHARGE (\$/MONTH)	\$0.00	\$0.00	20
21	ON-PEAK DEMAND CHARGE (\$/KW/MO)	\$0.00		21
22	MAXIMUM DEMAND CHARGE (\$/KW/MO)			22
23	SECONDARY	\$0.00	\$0.17	23
24	PRIMARY	\$0.00	\$0.26	24
25	TRANSMISSION	\$0.00	\$0.00	25
26	ENERGY CHARGE (\$/KWH)			26
27	ON-PEAK	\$0.00000		27
28	PART-PEAK	\$0.11477	\$0.00000	28
29	OFF-PEAK	\$0.09864	Q = L + M + N	29

PACIFIC GAS AND ELECTRIC COMPANY
 PRESENT ELECTRIC RATES
 AS OF SEPTEMBER 1, 2015

STREETLIGHTING RATES

LINE NO.		9/1/15 RATES SUMMER	9/1/15 RATES WINTER	LINE NO.

1	SCHEDULE LS-1			1
2	ENERGY CHARGE (\$/KWH)	\$0.00000	\$0.00000	2

3	SCHEDULE LS-2			3
4	ENERGY CHARGE (\$/KWH)	\$0.00000	\$0.00000	4

5	SCHEDULE LS-3			5
6	SERVICE CHARGE (\$/METER/MO.)	\$0.00	\$0.00	6
7	ENERGY CHARGE (\$/KWH)	\$0.00000	\$0.00000	7

8	SCHEDULE OL-1			8
9	ENERGY CHARGE (\$/KWH)	\$0.00000	\$0.00000	9

**PACIFIC GAS AND ELECTRIC COMPANY
PRESENT ELECTRIC RATES
AS OF SEPTEMBER 1, 2015
ELECTRIC RATES FOR SCHEDULES LS-1, LS-2 AND OL-1**

NOMINAL LAMP RATINGS			ALL NIGHT RATES PER LAMP PER MONTH										HALF-HOUR ADJ.	
LAMP WATTS	AVERAGE kWhr PER MONTH	INITIAL LUMENS	SCHEDULE LS-2		SCHEDULE LS-1						OL-1	LS-1 & LS-2	OL-1	
			A	C	A	B	C	D	E	F				
MERCURY VAPOR LAMPS														
40	18	1,300	\$2.891	--	--	--	--	--	--	--	--	--	\$0.122	--
50	22	1,650	\$3.487	--	--	--	--	--	--	--	--	--	\$0.149	--
100	40	3,500	\$6.172	\$8.348	\$12.336	--	\$10.609	--	--	--	--	--	\$0.271	--
175	68	7,500	\$10.348	\$12.524	\$16.512	\$14.714	\$14.785	--	\$16.997	\$18.051	\$16.922	--	\$0.461	\$0.480
250	97	11,000	\$14.674	\$16.850	\$20.838	\$19.040	\$19.111	--	--	--	--	--	\$0.658	--
400	152	21,000	\$22.877	\$25.053	\$29.041	\$27.243	\$27.314	--	--	--	\$29.956	--	\$1.031	\$1.072
700	266	37,000	\$39.880	\$42.056	\$46.044	\$44.246	\$44.317	--	--	--	--	--	\$1.803	--
1,000	377	57,000	\$56.436	\$58.612	--	--	--	--	--	--	--	--	\$2.556	--
INCANDESCENT LAMPS														
58	20	600	\$3.189	--	\$9.353	--	--	--	--	--	--	--	\$0.136	--
92	31	1,000	\$4.830	\$7.006	\$10.994	--	--	--	--	--	--	--	\$0.210	--
189	65	2,500	\$9.901	\$12.077	\$16.065	\$14.267	--	--	--	--	--	--	\$0.441	--
295	101	4,000	\$15.270	\$17.446	\$21.434	\$19.636	--	--	--	--	--	--	\$0.685	--
405	139	6,000	\$20.938	\$23.114	\$27.102	--	--	--	--	--	--	--	\$0.942	--
620	212	10,000	\$31.826	\$34.002	--	--	--	--	--	--	--	--	\$1.437	--
860	294	15,000	\$44.056	--	--	--	--	--	--	--	--	--	\$1.993	--
LOW PRESSURE SODIUM VAPOR LAMPS														
35	21	4,800	\$3.338	--	--	--	--	--	--	--	--	--	\$0.142	--
55	29	8,000	\$4.531	--	--	--	--	--	--	--	--	--	\$0.197	--
90	45	13,500	\$6.918	--	--	--	--	--	--	--	--	--	\$0.305	--
135	62	21,500	\$9.453	--	--	--	--	--	--	--	--	--	\$0.420	--
180	78	33,000	\$11.840	--	--	--	--	--	--	--	--	--	\$0.529	--
HIGH PRESSURE SODIUM VAPOR LAMPS AT 120 VOLTS														
35	15	2,150	\$2.443	--	--	--	--	--	--	--	--	--	\$0.102	--
50	21	3,800	\$3.338	--	--	--	--	--	--	--	--	--	\$0.142	--
70	29	5,800	\$4.531	\$6.707	\$10.695	--	\$8.968	\$11.568	\$11.180	\$12.234	\$10.870	--	\$0.197	\$0.205
100	41	9,500	\$6.321	\$8.497	\$12.485	--	\$10.758	\$13.358	\$12.970	\$14.024	\$12.732	--	\$0.278	\$0.289
150	60	16,000	\$9.155	\$11.331	\$15.319	--	\$13.592	\$16.192	\$15.804	\$16.858	--	--	\$0.407	--
200	80	22,000	\$12.138	--	\$18.302	--	\$16.575	\$19.175	\$18.787	\$19.841	--	--	\$0.542	--
250	100	26,000	\$15.121	--	\$21.285	--	\$19.558	\$22.158	\$21.770	\$22.824	--	--	\$0.678	--
400	154	46,000	\$23.175	--	\$29.339	--	\$27.612	\$30.212	\$29.824	\$30.878	--	--	\$1.044	--
HIGH PRESSURE SODIUM VAPOR LAMPS AT 240 VOLTS														
50	24	3,800	\$3.786	--	--	--	--	--	--	--	--	--	\$0.163	--
70	34	5,800	\$5.277	\$7.453	\$11.441	--	--	\$12.314	--	--	--	--	\$0.231	--
100	47	9,500	\$7.216	\$9.392	\$13.380	--	\$11.653	\$14.253	\$13.865	\$14.919	--	--	\$0.319	--

**PACIFIC GAS AND ELECTRIC COMPANY
PRESENT ELECTRIC RATES
AS OF SEPTEMBER 1, 2015
ELECTRIC RATES FOR SCHEDULES LS-1, LS-2 AND OL-1**

NOMINAL LAMP RATINGS			ALL NIGHT RATES PER LAMP PER MONTH										HALF-HOUR ADJ.	
LAMP WATTS	AVERAGE kWhr PER MONTH	INITIAL LUMENS	SCHEDULE LS-2		SCHEDULE LS-1						OL-1	LS-1 & LS-2	OL-1	
			A	C	A	B	C	D	E	F				
150	69	16,000	\$10.497	\$12.673	\$16.661	--	\$14.934	\$17.534	\$17.146	\$18.200	--	\$0.468	--	
200	81	22,000	\$12.287	\$14.463	\$18.451	--	\$16.724	\$19.324	\$18.936	\$19.990	\$18.939	\$0.549	\$0.571	
250	100	25,500	\$15.121	\$17.297	\$21.285	--	\$19.558	\$22.158	\$21.770	\$22.824	\$21.887	\$0.678	\$0.705	
310	119	37,000	\$17.955	--	--	--	--	--	--	--	--	\$0.807	--	
360	144	45,000	\$21.684	--	--	--	--	--	--	--	--	\$0.976	--	
400	154	46,000	\$23.175	\$25.351	\$29.339	--	\$27.612	\$30.212	\$29.824	\$30.878	\$30.266	\$1.044	\$1.086	
METAL HALIDE LAMPS														
70	30	5,500	\$4.681	--	--	--	--	--	--	--	--	\$0.203	--	
100	41	8,500	\$6.321	--	--	--	--	--	--	--	--	\$0.278	--	
150	63	13,500	\$9.602	--	--	--	--	--	--	--	--	\$0.427	--	
175	72	14,000	\$10.945	--	--	--	--	--	--	--	--	\$0.488	--	
250	105	20,500	\$15.867	--	--	--	--	--	--	--	--	\$0.712	--	
400	162	30,000	\$24.368	--	--	--	--	--	--	--	--	\$1.098	--	
1,000	387	90,000	\$57.927	--	--	--	--	--	--	--	--	\$2.624	--	
INDUCTION LAMPS														
23	9	1,840	\$1.548	--	--	--	--	--	--	--	--	\$0.061	--	
35	13	2,450	\$2.145	--	--	--	--	--	--	--	--	\$0.088	--	
40	14	2,200	\$2.294	--	--	--	--	--	--	--	--	\$0.095	--	
50	18	3,500	\$2.891	--	--	--	--	--	--	--	--	\$0.122	--	
55	19	3,000	\$3.040	--	--	--	--	--	--	--	--	\$0.129	--	
65	24	5,525	\$3.786	--	--	--	--	--	--	--	--	\$0.163	--	
70	27	6,500	\$4.233	--	--	--	--	--	--	--	--	\$0.183	--	
80	28	4,500	\$4.382	--	--	--	--	--	--	--	--	\$0.190	--	
85	30	4,800	\$4.681	--	--	--	--	--	--	--	--	\$0.203	--	
100	36	8,000	\$5.575	--	--	--	--	--	--	--	--	\$0.244	--	
120	42	8,500	\$6.397	--	--	--	--	--	--	--	--	\$0.281	--	
135	48	9,450	\$7.365	--	--	--	--	--	--	--	--	\$0.325	--	
150	51	10,900	\$7.813	--	--	--	--	--	--	--	--	\$0.346	--	
165	58	12,000	\$8.857	--	--	--	--	--	--	--	--	\$0.393	--	
200	72	19,000	\$10.945	--	--	--	--	--	--	--	--	\$0.488	--	
Energy Rate @			\$0.14915	per kwh	LS-1 & LS-2									
			\$0.15517	per kwh	OL-1									

**PACIFIC GAS AND ELECTRIC COMPANY
AS OF SEPTEMBER 1, 2015**

PRESENT ELECTRIC RATES FOR LIGHT EMITTING DIODE (LED) LAMPS

NOMINAL LAMP RATINGS		ALL NIGHT RATES PER LAMP PER MONTH	HALF-HOUR ADJUSTMENT	ALL NIGHT RATES PER LAMP PER MONTH			
Lamp Watts	Average kWh Per Month			LS-2A	LS-1A, C, E, F & LS-2A	LS-1A	LS-1C
0.0-5.0	0.9	\$0.340	\$0.006	\$6.504	\$4.777	N/A	\$6.989
5.1-10.0	2.6	\$0.594	\$0.018	\$6.758	\$5.031	N/A	\$7.243
10.1-15.0	4.3	\$0.847	\$0.029	\$7.011	\$5.284	N/A	\$7.496
15.1-20.0	6.0	\$1.101	\$0.041	\$7.265	\$5.538	N/A	\$7.750
20.1-25.0	7.7	\$1.354	\$0.052	\$7.518	\$5.791	N/A	\$8.003
25.1-30.0	9.4	\$1.608	\$0.064	\$7.772	\$6.045	N/A	\$8.257
30.1-35.0	11.1	\$1.862	\$0.075	\$8.026	\$6.299	N/A	\$8.511
35.1-40.0	12.8	\$2.115	\$0.087	\$8.279	\$6.552	N/A	\$8.764
40.1-45.0	14.5	\$2.369	\$0.098	\$8.533	\$6.806	N/A	\$9.018
45.1-50.0	16.2	\$2.622	\$0.110	\$8.786	\$7.059	N/A	\$9.271
50.1-55.0	17.9	\$2.876	\$0.121	\$9.040	\$7.313	N/A	\$9.525
55.1-60.0	19.6	\$3.129	\$0.133	\$9.293	\$7.566	N/A	\$9.778
60.1-65.0	21.4	\$3.398	\$0.145	\$9.562	\$7.835	N/A	\$10.047
65.1-70.0	23.1	\$3.651	\$0.157	\$9.815	\$8.088	N/A	\$10.300
70.1-75.0	24.8	\$3.905	\$0.168	\$10.069	\$8.342	N/A	\$10.554
75.1-80.0	26.5	\$4.158	\$0.180	\$10.322	\$8.595	N/A	\$10.807
80.1-85.0	28.2	\$4.412	\$0.191	\$10.576	\$8.849	N/A	\$11.061
85.1-90.0	29.9	\$4.666	\$0.203	\$10.830	\$9.103	N/A	\$11.315
90.1-95.0	31.6	\$4.919	\$0.214	\$11.083	\$9.356	N/A	\$11.568
95.1-100.0	33.3	\$5.173	\$0.226	\$11.337	\$9.610	N/A	\$11.822
100.1-105.1	35.0	\$5.426	\$0.237	\$11.590	\$9.863	N/A	\$12.075
105.1-110.0	36.7	\$5.680	\$0.249	\$11.844	\$10.117	N/A	\$12.329
110.1-115.0	38.4	\$5.933	\$0.260	\$12.097	\$10.370	N/A	\$12.582
115.1-120.0	40.1	\$6.187	\$0.272	\$12.351	\$10.624	N/A	\$12.836
120.1-125.0	41.9	\$6.455	\$0.284	\$12.619	\$10.892	N/A	\$13.104
125.1-130.0	43.6	\$6.709	\$0.296	\$12.873	\$11.146	N/A	\$13.358
130.1-135.0	45.3	\$6.962	\$0.307	\$13.126	\$11.399	N/A	\$13.611
135.1-140.0	47.0	\$7.216	\$0.319	\$13.380	\$11.653	N/A	\$13.865
140.1-145.0	48.7	\$7.470	\$0.330	\$13.634	\$11.907	N/A	\$14.119
145.1-150.0	50.4	\$7.723	\$0.342	\$13.887	\$12.160	N/A	\$14.372
150.1-155.0	52.1	\$7.977	\$0.353	\$14.141	\$12.414	N/A	\$14.626
155.1-160.0	53.8	\$8.230	\$0.365	\$14.394	\$12.667	N/A	\$14.879
160.1-165.0	55.5	\$8.484	\$0.376	\$14.648	\$12.921	N/A	\$15.133
165.1-170.0	57.2	\$8.737	\$0.388	\$14.901	\$13.174	N/A	\$15.386
170.1-175.0	58.9	\$8.991	\$0.399	\$15.155	\$13.428	N/A	\$15.640
175.1-180.0	60.6	\$9.244	\$0.411	\$15.408	\$13.681	N/A	\$15.893
180.1-185.0	62.4	\$9.513	\$0.423	\$15.677	\$13.950	N/A	\$16.162
185.1-190.0	64.1	\$9.767	\$0.435	\$15.931	\$14.204	N/A	\$16.416
190.1-195.0	65.8	\$10.020	\$0.446	\$16.184	\$14.457	N/A	\$16.669
195.1-200.0	67.5	\$10.274	\$0.458	\$16.438	\$14.711	N/A	\$16.923
200.1-205.0	69.2	\$10.527	\$0.469	\$16.691	\$14.964	N/A	\$17.176
205.1-210.0	70.9	\$10.781	\$0.481	\$16.945	\$15.218	N/A	\$17.430
210.1-215.0	72.6	\$11.034	\$0.492	\$17.198	\$15.471	N/A	\$17.683
215.1-220.0	74.3	\$11.288	\$0.504	\$17.452	\$15.725	N/A	\$17.937
220.1-225.0	76.0	\$11.541	\$0.515	\$17.705	\$15.978	N/A	\$18.190
225.1-230.0	77.7	\$11.795	\$0.527	\$17.959	\$16.232	N/A	\$18.444
230.1-235.0	79.4	\$12.049	\$0.538	\$18.213	\$16.486	N/A	\$18.698
235.1-240.0	81.1	\$12.302	\$0.550	\$18.466	\$16.739	N/A	\$18.951
240.1-245.0	82.9	\$12.571	\$0.562	\$18.735	\$17.008	N/A	\$19.220
245.1-250.0	84.6	\$12.824	\$0.574	\$18.988	\$17.261	N/A	\$19.473
250.1-255.0	86.3	\$13.078	\$0.585	\$19.242	\$17.515	N/A	\$19.727
255.1-260.0	88.0	\$13.331	\$0.597	\$19.495	\$17.768	N/A	\$19.980
260.1-265.0	89.7	\$13.585	\$0.608	\$19.749	\$18.022	N/A	\$20.234
265.1-270.0	91.4	\$13.838	\$0.620	\$20.002	\$18.275	N/A	\$20.487
270.1-275.0	93.1	\$14.092	\$0.631	\$20.256	\$18.529	N/A	\$20.741

**PACIFIC GAS AND ELECTRIC COMPANY
AS OF SEPTEMBER 1, 2015**

Exhibit B

PRESENT ELECTRIC RATES FOR LIGHT EMITTING DIODE (LED) LAMPS

NOMINAL LAMP RATINGS
Lamp Average kWh
Watts Per Month

275.1-280.0	94.8
280.1-285.0	96.5
285.1-290.0	98.2
290.1-295.0	99.9
295.1-300.0	101.6
300.1-305.0	103.4
305.1-310.0	105.1
310.1-315.0	106.8
315.1-320.0	108.5
320.1-325.0	110.2
325.1-330.0	111.9
330.1-335.0	113.6
335.1-340.0	115.3
340.1-345.0	117.0
345.1-350.0	118.7
350.1-355.0	120.4
355.1-360.0	122.1
360.1-365.0	123.9
365.1-370.0	125.6
370.1-375.0	127.3
375.1-380.0	129.0
380.1-385.0	130.7
385.1-390.0	132.4
390.1-395.0	134.1
395.1-400.0	135.8

ALL NIGHT RATES PER LAMP PER MONTH	HALF-HOUR ADJUSTMENT
LS-2A	LS-1A, C, E, F & LS-2A
\$14.345	\$0.643
\$14.599	\$0.654
\$14.853	\$0.666
\$15.106	\$0.677
\$15.360	\$0.689
\$15.628	\$0.701
\$15.882	\$0.713
\$16.135	\$0.724
\$16.389	\$0.736
\$16.642	\$0.747
\$16.896	\$0.759
\$17.149	\$0.770
\$17.403	\$0.782
\$17.657	\$0.793
\$17.910	\$0.805
\$18.164	\$0.816
\$18.417	\$0.828
\$18.686	\$0.840
\$18.939	\$0.852
\$19.193	\$0.863
\$19.446	\$0.875
\$19.700	\$0.886
\$19.953	\$0.898
\$20.207	\$0.909
\$20.461	\$0.921

ALL NIGHT RATES PER LAMP PER MONTH			
LS-1A	LS-1C	LS-1E	LS-1F
\$20.509	\$18.782	N/A	\$20.994
\$20.763	\$19.036	N/A	\$21.248
\$21.017	\$19.290	N/A	\$21.502
\$21.270	\$19.543	N/A	\$21.755
\$21.524	\$19.797	N/A	\$22.009
\$21.792	\$20.065	N/A	\$22.277
\$22.046	\$20.319	N/A	\$22.531
\$22.299	\$20.572	N/A	\$22.784
\$22.553	\$20.826	N/A	\$23.038
\$22.806	\$21.079	N/A	\$23.291
\$23.060	\$21.333	N/A	\$23.545
\$23.313	\$21.586	N/A	\$23.798
\$23.567	\$21.840	N/A	\$24.052
\$23.821	\$22.094	N/A	\$24.306
\$24.074	\$22.347	N/A	\$24.559
\$24.328	\$22.601	N/A	\$24.813
\$24.581	\$22.854	N/A	\$25.066
\$24.850	\$23.123	N/A	\$25.335
\$25.103	\$23.376	N/A	\$25.588
\$25.357	\$23.630	N/A	\$25.842
\$25.610	\$23.883	N/A	\$26.095
\$25.864	\$24.137	N/A	\$26.349
\$26.117	\$24.390	N/A	\$26.602
\$26.371	\$24.644	N/A	\$26.856
\$26.625	\$24.898	N/A	\$27.110

EXHIBIT C

**List of Governmental and Public Agencies
Receiving Notice of Requested Revenues and Rates**

SERVICE OF NOTICE OF APPLICATION

In accordance with Rule 3.2(b), Applicant will mail a notice to the following, stating in general terms its proposed change in rates.

State of California

To the Attorney General and the Department of General Services.

State of California
Office of Attorney General
1300 I St Ste. 1101
Sacramento, CA 95814

and

Department of General Services
Office of Buildings & Grounds
505 Van Ness Avenue, Room 2012
San Francisco, CA 94102

Counties

To the County Counsel or District Attorney and the County Clerk in the following counties:

Alameda	San Bernardino
Alpine	San Francisco
Amador	San Joaquin
Butte	San Luis Obispo
Calaveras	San Mateo
Colusa	Santa Barbara
Contra Costa	Santa Clara
El Dorado	Santa Cruz
Fresno	Shasta
Glenn	Sierra
Humboldt	Siskiyou
Kern	Solano
Kings	Sonoma
Lake	Stanislaus
Lassen	Sutter
Madera	Tehama
Marin	Trinity
Mariposa	Tulare
Mendocino	Tuolumne
Merced	Yolo
Modoc	Yuba
Monterey	
Napa	
Nevada	
Placer	
Plumas	
Sacramento	
San Benito	

Municipal Corporations

To the City Attorney and the City Clerk of the following municipal corporations:

Alameda	Daly City	Lafayette
Albany	Danville	Lakeport
Amador City	Davis	Larkspur
American Canyon	Del Rey Oakes	Lathrop
Anderson	Dinuba	Lemoore
Angels Camp	Dixon	Lincoln
Antioch	Dos Palos	Live Oak
Arcata	Dublin	Livermore
Arroyo Grande	East Palo Alto	Livingston
Arvin	El Cerrito	Lodi
Atascadero	Elk Grove	Lompoc
Atherton	Emeryville	Loomis
Atwater	Escalon	Los Altos
Auburn	Eureka	Los Altos Hills
Avenal	Fairfax	Los Banos
Bakersfield	Fairfield	Los Gatos
Barstow	Ferndale	Madera
Belmont	Firebaugh	Manteca
Belvedere	Folsom	Maricopa
Benicia	Fort Bragg	Marina
Berkeley	Fortuna	Mariposa
Biggs	Foster City	Martinez
Blue Lake	Fowler	Marysville
Brentwood	Fremont	McFarland
Brisbane	Fresno	Mendota
Buellton	Galt	Menlo Park
Burlingame	Gilroy	Merced
Calistoga	Gonzales	Mill Valley
Campbell	Grass Valley	Millbrae
Capitola	Greenfield	Milpitas
Carmel	Gridley	Modesto
Ceres	Grover Beach	Monte Sereno
Chico	Guadalupe	Monterey
Chowchilla	Gustine	Moraga
Citrus Heights	Half Moon Bay	Morgan Hill
Clayton	Hanford	Morro Bay
Clearlake	Hayward	Mountain View
Cloverdale	Healdsburg	Napa
Clovis	Hercules	Newark
Coalinga	Hillsborough	Nevada City
Colfax	Hollister	Newman
Colma	Hughson	Novato
Colusa	Huron	Oakdale
Concord	Ione	Oakland
Corcoran	Isleton	Oakley
Corning	Jackson	Orange Cove
Corte Madera	Kerman	Orinda
Cotati	King City	Orland
Cupertino	Kingsburg	Oroville

Pacific Grove
Pacifica
Palo Alto
Paradise
Parlier
Paso Robles
Patterson
Petaluma
Piedmont
Pinole
Pismo Beach
Pittsburg
Placerville
Pleasant Hill
Pleasanton
Plymouth
Point Arena
Portola
Portola Valley
Rancho Cordova
Red Bluff
Redding
Redwood City
Reedley
Richmond
Ridgecrest
Rio Dell
Rio Vista
Ripon
Riverbank
Rocklin
Rohnert Park
Roseville

Ross
Sacramento
Saint Helena
Salinas
San Anselmo
San Bruno
San Carlos
San Francisco
San Joaquin
San Jose
San Juan Bautista
San Leandro
San Luis Obispo
San Mateo
San Pablo
San Rafael
San Ramon
Sand City
Sanger
Santa Clara
Santa Cruz
Santa Maria
Santa Rosa
Saratoga
Sausalito
Scotts Valley
Seaside
Sebastopol
Selma
Shafter
Shasta Lake
Soledad
Solvang

Sonoma
Sonora
South San Francisco
Stockton
Suisun City
Sunnyvale
Sutter Creek
Taft
Tehama
Tiburon
Tracy
Trinidad
Turlock
Ukiah
Union City
Vacaville
Vallejo
Victorville
Walnut Creek
Wasco
Waterford
Watsonville
West Sacramento
Wheatland
Williams
Willits
Willows
Windsor
Winters
Woodland
Woodside
Yountville
Yuba City