

## **EXHIBIT A**

**San Francisco Public Utilities Commission's Quarterly Report to  
the Board of Supervisors on the Status of Applications to PG&E for  
Electric Service (April 23, 2021)**

April 23, 2021

Ms. Angela Calvillo  
Clerk of the Board of Supervisors  
City Hall, Room 244  
1 Dr. Carlton B. Goodlett Place  
San Francisco, CA 94102-4689

**RE: San Francisco Public Utilities Commission's Quarterly Report to the Board of Supervisors on the Status of Applications to PG&E for Electric Service.**

Dear Ms. Calvillo:

The attached quarterly report has been prepared for the Board of Supervisors (Board) in accordance with Resolution No. 227-18, approved by the Board on July 10, 2018 (File No. 180693) and adopted on July 20, 2018.

Pursuant to Resolution No. 227-18, the San Francisco Public Utilities Commission (SFPUC) is required to "provide the Board a quarterly report for the next two years that identifies the following: status of all City projects with applications to SFPUC for electric service, including project schedules and financing and other deadlines; project sponsor and SFPUC concerns in securing temporary and permanent power, including obstacles that could increase costs or delay service to City customers; and the status of disputes with PG&E before the Federal Energy Regulatory Commission (FERC) or in other forums." This resolution was re-affirmed by the Board on April 6, 2021. The SFPUC provides retail electric service from our Hetch Hetchy Power public utility to over 4,000 accounts, relying on our Hetch Hetchy generation and other sources for supply and purchased transmission and distribution services from PG&E. The SFPUC pays PG&E about \$10 million a year for this distribution service and another \$25 million to wheel the power on PG&E's transmission lines. The terms and conditions of the purchased distribution service are described in PG&E's Wholesale Distribution Tariff (WDT), as approved by the Federal Energy Regulatory Commission (FERC). The SFPUC purchases PG&E's transmission services through the California Independent System Operator.

**REPORT SUMMARY:**

For the reporting period of September 2020 through March 2021, the SFPUC has identified 72 projects that have experienced interconnection delays, requests for additional and/or unnecessary information, or increased project costs, as listed in

**Attachment A.** Since the last quarterly report, 5 projects have been added and 10 projects have been energized. To avoid further delays to important City services, 3 additional projects were forced to apply for PG&E's retail service instead of taking Hetchy service, bringing the total to 22 projects that have had to pay higher electric rates to PG&E.

Updates and changes to projects since the previous quarterly report are detailed in Column P of Attachment A. **Attachment B** contains a map providing the location of each project.

**Attachment C** contains a detailed report of each category of additional incurred costs and impacts to the City per project, such as redesign costs, construction and equipment costs, and additional staff time (also included in the 'Impacts' column of Attachment A). The total cost impacts to the City are now estimated to be more than \$12 million. Total costs do not include estimated costs for 17 projects that are at a standstill as those costs are still to be determined.

#### **ONGOING ELECTRICAL INTERCONNECTION ISSUES:**

The City continues to face major delays in PG&E's processing of its interconnection requests. PG&E continues to require City projects to install oversized and cost prohibitive equipment without clear regulatory, technical, safety or reliability justification. New PG&E requirements and actions identified below are also creating additional challenges to connecting City loads and have resulted in delays and increased costs to the City. In some cases, City departments are forced to apply for PG&E's retail service to avoid further delays.

- Delays throughout the application process
  - a. Example: PG&E has recently started using a new estimating process that significantly delays when the City receives a finalized construction design. This delay makes it difficult for the City to plan ahead for construction work and budgeting for its costs.
- Unreasonable primary equipment requirements for small projects
  - a. Example: PG&E continues to require primary equipment for important City projects that are normally served at secondary such as Cleveland Elementary School. This site cannot accommodate primary equipment due to space and budget constraints and, therefore, the project is at a standstill.
  - b. Example: The City has also had to relinquish temporary construction power to PG&E retail for several affordable housing projects to avoid project delays, because PG&E is requiring primary service even for construction power. The projects in turn have to pay a higher rate for power to PG&E.

- c. Example: PG&E refuses to accept several applications for service to affordable housing projects where the projects cannot install primary equipment due to lack of space.
- Denial of City's requested capacity for essential City services
  - a. Example: For phased development projects, PG&E has refused to acknowledge the City's load calculations and will only provide what PG&E believes is necessary for the initial phase. This is problematic as PG&E's values did not accommodate the load ramp up the City has projected as other phases are developed. This will require the City to incur additional future costs and likely result in additional delays that otherwise could have been avoided.
- Demands for costly and unnecessary upgrades to PG&E's distribution system
  - a. Example: PG&E delayed a project by initially requiring the City to pay for major upgrades to PG&E's existing transformer to serve a 1 kW irrigation control. After many months of discussion, PG&E finally agreed to serve the load without requiring the upgrades.
- Refusal to acknowledge the City's control of distribution facilities
  - a. Example: PG&E has refused to connect projects in which the City controls (rather than owns) the facilities required in the WDT. The City has obtained control of the necessary facilities pursuant to an agreement between the SFPUC and the property owner/customers. The WDT makes no distinction between the treatments of controlled or owned facilities.

**WDT3 ISSUES:**

PG&E has filed the WDT3 application with FERC seeking to amend the rates, terms and condition of service under its WDT. The application also formalizes and incorporates many of the practices noted in the issues section above. San Francisco, the California Public Utilities Commission, and other customers and agencies have intervened in the FERC proceeding to challenge many of PG&E's proposed amendments to the WDT.

PG&E has proposed several new amendments in its WDT3 filing that are concerning to the City due to the following anti-competitive requirements and restrictions:

- Elimination of unmetered load – all unmetered load such as streetlights, traffic signals, and bus shelters would have to be served by primary equipment or be converted to PG&E retail service by the end of 2021.
- Elimination of any interconnections to PG&E's "downtown network" – prohibits any new load or upgrades to existing load in SF's downtown area (includes all of Market St. from Embarcadero through Civic Center).
- Elimination of all new secondary interconnections – prohibits the connection of any loads at secondary despite the size. This would also prohibit the City

from providing secondary service to any existing customers with secondary interconnections if their facilities are being modified for reasons such as building renovations or decarbonization (increased electrification) of existing buildings.

- Major Increase in Distribution Rates – the City expects to see a doubling or more of distribution costs under PG&E’s newly filed rates. There are also major concerns about how PG&E’s proposed rate design inequitably over-allocates costs to wholesale customers.

**STATUS OF DISPUTES WITH PG&E BEFORE FERC:**

As we previously informed you, on November 21, 2019, FERC issued an order in the City’s 2014 complaint and related cases rejecting the City’s claim that all of its load is eligible for service under the Federal Power Act without adding new facilities because the City had been serving the same customers for decades. On December 20, 2019, the City filed a request for rehearing of FERC’s order. On June 4, 2020, FERC issued an order on rehearing that, for the most part, affirmed its prior order. The City has filed petitions to review these FERC orders with the Court of Appeals for the District of Columbia Circuit. These matters have been fully briefed. We anticipate that the Court will schedule an oral argument in these matters sometime this year.

In January 2020, the City and PG&E participated in an evidentiary hearing before a FERC Administrative Law Judge (ALJ) in a dispute over WDT service to an SFMTA substation at 6 Berry Street. The issues in that proceeding are: (i) whether PG&E is wrongfully charging the City for upgrades to its system; and (ii) whether PG&E’s cost estimates lack sufficient detail. On July 2, 2020, the ALJ issued an initial decision in which the ALJ found for PG&E on the issue concerning the cost of upgrades and for the City on the issue concerning the cost estimates. Both the City and PG&E have filed exceptions to the initial decision asking FERC to reject the ALJ’s rulings against them. We await a FERC decision.

On April 16, 2020, FERC issued an order dismissing the City’s second complaint against PG&E in which the City claimed that PG&E violated its WDT by demanding primary service for small loads. FERC found that PG&E has the discretion to grant or deny a request for secondary service based on the specifics of each particular request. On May 18, 2020, the City filed a request for rehearing of FERC’s order. On September 17, 2020, FERC issued an order on rehearing sustaining its dismissal of the complaint. The City has filed petitions to review these FERC orders with the Court of Appeals for the District of Columbia Circuit. The final brief in these matters is due on May 28, 2021. The Court has ordered that the oral argument in these matters will be on the same day as the prior appeal discussed above.

The City received a favorable ruling from FERC following the City's protest over PG&E's rejection of the City's request to serve a customer that had requested a transfer from PG&E retail service to SFPUC service. FERC found that "PG&E's WDT does not permit it to refuse to grant a customer's requested reserved capacity when available distribution capacity exists to meet the request."

Please find attached copies of the following documents related to this report:

- **Attachment A:** List of projects with active interconnection applications to PG&E for electric service as of April 2021
- **Attachment B:** Map of projects with PG&E power connection delays as of April 2021
- **Attachment C:** Cost impacts

Should you have any questions, please contact Barbara Hale, SFPUC Assistant General Manager for Power, at [BHale@sfwater.org](mailto:BHale@sfwater.org) and 415-613-6341.

Sincerely,

A handwritten signature in blue ink that reads "Michael P. Carlin". The signature is written in a cursive style with a large initial "M" and "C".

Michael P. Carlin  
Acting General Manager

**Attachment A: List of Interconnection Issues**

	PG&E NN#	Project Location	District #	Client Organization	Project Description (what SF applied for)	Project Status	Initial Application Submittal Date	App Deemed Complete Date	Initial Service Need Date	Did PG&E require Primary?	Load Size/Can Be Served at Secondary	PG&E committed to work w/ SF to energize in 2018	Impacts	Updates/Changes since Last Report (Sept. 2020)	
1	114449998	600 32nd Avenue - George Washington High School	1	SFUSD	Upgrading and relocating existing secondary service	Delays caused by dispute over primary vs. secondary. Project moving forward with low-side metering. (See Note 1) Further delays caused by dispute over PG&E's proposed design.	Energized	3/27/2018	7/3/2019	9/1/2018	Yes	500 kW/Yes	X	Project delayed - project was in dispute from Feb. 2018 - Jun. 2018. (3-4 months). PG&E is currently delaying energization, SF is waiting for PG&E to finish its portion of work. Additional project costs - \$150k (2 interrupters, 2 #7 boxes, & installation) PG&E's proposed design would require an additional \$1M in trenching/construction costs. SF is disputing this design as PG&E is applying design requirements inconsistently.	No impacts update. Project was energized in Sept. 2020 and will be removed on next quarter's report.
2	115047431/115322749	4545 Anza Street - Lafayette Elementary	1	SFUSD	New temporary service for interim trailers and replacing existing secondary service	Delays caused by dispute over primary vs. secondary. Project moving forward with secondary service.	Energized	10/9/2018	3/20/2020	7/1/2019	Yes	150 kW /Yes		Project delayed - project was in dispute from Oct. 2018 - Oct. 2019 (1 year). Temp. power service for classroom trailers will be served by PG&E at retail - \$14k in lost gross revenue to SFPUC. \$31k in additional power costs to the project due to PG&E's higher rates. 50,000 lbs. of CO2 emissions (temporary period of 17 months)	No impacts update. Project was energized in Sept. 2020 and will be removed on next quarter's report.
3	118155073	3401 Geary Blvd. - Streetlights and Traffic Controller	1	SFMTA	New temporary service for interim trailers and replacing existing secondary service	Delays caused by PG&E providing the Service Agreement late.	Energized	11/7/2019	11/19/2019	2/3/2020	No	1 kW/Yes		Pedestrian and traffic safety is at risk as PG&E delays the energization of these streetlights and traffic signals.	No impacts update. Project was energized in Jan. 2021 and will be removed on next quarter's report.
4	120533309	600 Arguello Blvd. - Rossi Pool	1	SFRPD	Request for shutdown (for meter replacement)	Delays caused by PG&E providing the Service Agreement late.	Engineering estimation by PG&E.	12/11/2020	2/12/2021	4/4/2021	N/A	N/A		Overhead/delays costs TBD. Pool will also not be available for public use until work is done.	Project added.
5	112434942	3455 Van Ness Avenue - AWSS Pump Station No. 2	2	SFPUC - Water	Remove two existing services and replace with one secondary service	Delays caused by dispute over primary vs. secondary. Project moving forward with low-side metering. (See Note 1)	In construction	12/9/2016	1/5/2017	8/1/2017	Yes	144 kW/Yes	X	Seismic improvements and architectural upgrades to increase reliability of the pumping station have been delayed. Additional project costs - \$75k (interrupter, #7 box, & installation) Further delays caused by PG&E still not providing necessary cost detail to the Service Agreement (7 month delay).	No impacts update.
6	114713666	2110 Greenwich Street - Tule Elk Elementary	2	SFUSD	Upgrading and relocating existing secondary service	Delays caused by dispute over primary vs. secondary. Project moving forward with low-side metering. (See Note 1)	In construction	6/15/2018	4/2/2020	6/1/2019	Yes	300 kW/Yes		Project delayed - project was in dispute from Jun. 2018 - Oct. 2019 (14-15 months) Additional project costs - \$150k (2 interrupters, 2 #7 boxes, & installation)	No impacts update.
7	115675911	2445 Hyde St. - Francisco Park	2	SFRPD	New secondary service	Delays caused by dispute over primary vs. secondary. Project moving forward with low-side metering. (See Note 1)	In construction	1/9/2019	4/7/2020	12/27/2019	Yes	70 kW/Yes		Project delayed - project was in dispute from Jun. 2019 - Oct. 2019 (3-4 months). Additional project costs - \$75k (interrupter, #7 box, & installation) The project expects overhead/delay costs of at least \$168k (assuming a 30-day delay).	No impacts update.
8	PG&E withholding NN#	102 Marina Blvd. - Fort Mason (EVGo)	2	EVGo	New secondary service	Delays caused by dispute over primary vs. secondary. Project is still in dispute.	Project is at a standstill.	12/13/2018		7/15/2019	Yes	600 kW/Yes		Project delayed - project has been in dispute since Dec. 2018 (17-18 months). If required, primary switchgear would cost the project an additional \$500k.	No update - project remains at a standstill.
9	117492329	950 Golden Gate Avenue - Margaret Hayward Park	3	SFRPD	Remove/replace existing transformer and utility boxes and provide new single secondary service	Delays caused by dispute over primary vs. secondary. Project moving forward with low-side metering. (See Note 1)	Energized	3/15/2018	6/5/2018	4/1/2020	Yes	100 kW/Yes		Project slightly delayed - project was in dispute from Mar. 2018 - May 2018. (2-3 months) Additional project costs - \$150k (2 interrupters, 2 #7 boxes, & installation) Further delays (6-8 weeks) as PG&E has informed the project of more inspections and work. The project expects overhead/delay costs of at least \$330k (assuming a 40-day delay).	No impacts update. Project was energized in Sept. 2020 and will be removed on next quarter's report.
10	115020677	88 Broadway - Affordable Housing (125 units)	3	MOHCD (BRIDGE Housing)	New secondary service for perm. Construction power released to PG&E retail.	Delays caused by dispute over primary vs. secondary. Project moving forward with low-side metering. (See Note 1) Further delays caused by PG&E mistake.	Energized	10/1/2018	3/19/2019	12/2/2019	N/A	500 kW/Yes		Temp. construction power service by PG&E at retail - \$68k in lost gross revenue to SFPUC. \$15k in additional power costs to PG&E's higher rates. Additional project costs - \$150k (2 interrupters, 2 #7 boxes, & installation) 90,625 lbs. of CO <sub>2</sub> emissions (construction period of 18 months)	Temp. construction power costs updated. Project was energized in Jan. 2021 and will be removed on next quarter's report.
11	115019804	735 Davis - Affordable Housing (53 units)	3	MOHCD (BRIDGE Housing)	New secondary service for perm. Construction power released to PG&E retail.	Delays caused by dispute over primary vs. secondary. Project moving forward with low-side metering. (See Note 1)	Energized	10/1/2018	3/8/2019	12/2/2019	N/A	683 kW/Yes		Temp. construction power service by PG&E at retail - \$114k in lost gross revenue to SFPUC. \$25k in additional power costs to the project due to PG&E's higher rates. Additional project costs - \$150k (2 interrupters, 2 #7 boxes, & installation) 148,837 lbs. of CO <sub>2</sub> emissions (construction period of 19 months)	Temp. construction power costs updated. Project was energized in Nov. 2020 and will be removed on next quarter's report.

**Attachment A: List of Interconnection Issues**

	PG&E NN#	Project Location	District #	Client Organization	Project Description (what SF applied for)	Project Status	Initial Application Submittal Date	App Deemed Complete Date	Initial Service Need Date	Did PG&E require Primary?	Load Size/Can Be Served at Secondary	PG&E committed to work w/ SF to energize in 2018	Impacts	Updates/Changes since Last Report (Sept. 2020)
12	114088011	Lake Merced Blvd & Sunset Blvd - Restroom	4	SFRPD	New secondary service	Delays caused by dispute over primary vs. secondary. <b>Project Cancelled</b>	12/8/2017		1/15/2019	Yes	10 kW/Yes		Project delayed - project has been in dispute since late Aug. 2018. (4-5 months) Bathroom will not be available for public use at Lake Merced. Primary switchgear will cost the project an additional \$500k in equipment costs and take the space of parking spots.	Project cancelled due to PG&E's new policy of requiring underground service for the area. The extensive costs of underground service for this bathroom is not feasible. Project will be removed in next quarter's report.
13	Several applications submitted	L Taraval - Streetlights	4	SFMTA	New secondary service (several streetlights)	Delays caused by PG&E being unresponsive. <b>In construction</b>	3/19/2019	4/27/2019	1/1/2020	No	9.6 kW (per service point)/Yes		Pedestrian and traffic safety is at risk as PG&E delays the energization of these streetlights. Delays continue as SF has not received construction drawings from PG&E. Project delayed - impacts TBD.	Further delays caused by PG&E.
14	PG&E withholding NN#	1351 42nd Street - Francis Scott Key Educator Housing (Construction and Perm. Power)	4	MOHCD (MidPen Housing)	New secondary service for perm. Construction power released to PG&E retail.	Delays caused by dispute over primary vs. secondary. Project is still in dispute. <b>Project is at a standstill.</b>	3/30/2020 (temp) 2/24/2020 (perm)		12/7/2020 (temp) 12/6/2021 (perm)	Yes	417 kW/Yes (temp) 678 kW/Yes (perm)		Project delayed - project has been in dispute since Apr. 2020 (10-11 months). Temp. construction power service by PG&E at retail - \$118k in lost gross revenue to SFPUC. \$25k in additional power costs to the project due to PG&E's higher rates.	Impacts updated to show cost impact of construction power being turned over to PG&E to avoid further delays.
15	114571079	50 Bowling Green Drive - GGP Tennis Center	5	SFRPD	New secondary service	Delays caused by dispute over primary vs. secondary. Project moving forward with low-side metering. (See Note 1) <b>Energized</b>	5/3/2018	10/3/2018	2/1/2019	Yes	160 kW/Yes	X	Project delayed - project was in dispute from May-July. 2018. (2-3 months) Additional project costs - \$150k (2 interrupters, 2 #7 boxes, & installation), \$275k (for upgrades to PG&E's system) Lost gross revenue to SFPUC due to delays: \$1k Further delays may lead to possible funding issues.	No impacts update. Project was energized in Oct. 2020 and will be removed on next quarter's report.
16	114907923	1251 Turk Street - Affordable Housing Fire Pump	5	MOHCD (TNDC)	New secondary service	Delays caused by PG&E not providing necessary cost detail. <b>SF working on updated application.</b>	8/17/2018	8/10/2019	2/17/2019	No	27 kW/Yes		Project delayed - PG&E initially required distribution upgrades of \$250k plus trenching costs for a fire pump service that brings the existing affordable housing development up to code. For over a year, SF was waiting for further cost justification from PG&E. PG&E and SF have now agreed to an electrical design that will not require the extra upgrades to PG&E's system.	No impacts update.
17	118155015	1805 Geary Blvd. - Streetlights and Traffic Signal	5	SFMTA	New secondary service	Delays caused by PG&E providing the Service Agreement late. <b>Energized</b>	11/7/2019	11/19/2019	2/2/2020	No	1 kW/Yes		Pedestrian and traffic safety is at risk as PG&E delays the energization of these streetlights and traffic signals.	No impacts update. Project was energized in Oct. 2020 and will be removed on next quarter's report.
18	PG&E withholding NN#	78 Haight Street - Affordable Housing	5	MOHCD (TNDC)	New secondary service for perm. Construction power released to PG&E retail.	Delays caused by dispute over primary vs. secondary. Project is still in dispute. <b>Project is at a standstill.</b>	6/15/2020		12/15/2021	Yes	315 kW/Yes		Project delayed - project has been in dispute since Jun. 2020 (8-9 months) PG&E is requiring primary for the construction power and the permanent service. Temp. construction power service by PG&E at retail - \$38k in lost gross revenue to SFPUC. \$6k in additional power costs to the project due to PG&E's higher rates.	Impacts updated to show cost impact of construction power being turned over to PG&E to avoid further delays.
19	Several applications submitted	Haight Street Traffic Signals	5	SFMTA	New secondary services (several traffic signals)	Delays caused by PG&E cancelling the initial applications. <b>In construction</b>	4/22/2020	7/16/2020	11/30/2020	Yes			Project delayed as PG&E cancelled the original applications. Public safety is at risk as the traffic signal infrastructure is completed and are just awaiting energization. The public has been inquiring about signal activation status. The traffic signals are moving forward, but there are disagreements on whether or not unmeted holiday lighting can be added to these poles.	Impacts updated to include possible issues with holiday lighting.
20	111729695	6 Berry Street - Substation	6	SFMTA	Upgrade existing primary service	Delays caused by PG&E being unresponsive, changing requirements, and being non-transparent with costs and design changes. <b>Energized</b>	6/17/2016	12/12/2016	5/1/2017	N/A	3000 kW/Yes		SFMTA completed the conduit boring under the rails prior to PG&E's approval. As such, parties disagree on costs and design requirements. SFMTA claims that they are incurring delay claims costs from contractor due to PG&E's failure to approve design and equipment submittals. (actual costs are still to be determined, but the costs continue to increase on a daily basis)	No impacts update. Project was energized in June 2020. The project team will be reaching out to connect the power the permanent substation in early 2021.
21	113826990	750 Brannan - Main Library Repository	6	SFPW for SFPL	Increase load request (237 kW to 500 kW)	Dispute over how to process increase in load request. <b>Service Agreement returned with payment by SFPUC.</b>	11/14/2017	1/18/2018	1/1/2018	No	500 kW/Yes		Plans for a new HVAC system at the library repository have been delayed. No monetary impact - however, SF believes that PG&E's requirements for approving load increase for muni loads is extensive and will cause delays to projects.	No impacts update.
22	118152147	399 The Embarcadero - Fire Boat #35	6	SFFD	New secondary service	Delays caused by dispute over primary vs. secondary. Project moving forward with low-side metering. (See Note 1) <b>In construction</b>	1/14/2019	2/8/2020	12/27/2019	Yes	430 kW/Yes		Project delayed - project was in dispute from Jan. 2019 - Oct. 2019 (8-9 months). Additional project costs - \$150k (2 interrupters, 2 #7 boxes, & installation)	No impacts update.
23	115071498	555 Larkin (formerly 500 Turk) - Affordable Housing (108 units)	6	MOHCD (TNDC)	New secondary service for perm. Construction power released to PG&E retail.	Delays caused by dispute over primary vs. secondary. Project moving forward with low-side metering. (See Note 1) <b>In construction</b>	10/15/2018	12/18/2019	7/1/2020	Yes	890 kW/Yes		Project delayed - project was in dispute from Nov. 2018 - Oct. 2019 (11-12 months). Temp. construction power service by PG&E at retail - \$196k in lost gross revenue to SFPUC. \$24k in additional power costs to the project due to PG&E's higher rates. Additional project costs - \$150k (2 interrupters, 2 #7 boxes, & installation) 243,000 lbs. of CO2 emissions (construction period of 22 months)	Temp. construction power costs updated.
24	116790877	Market St. & 7th St - BMS Switch	6	SFMTA	New secondary service	Delays caused by PG&E not following WDT timelines and not providing cost explanations. <b>Service Agreement issued by PG&amp;E.</b>	3/6/2019	4/9/2019	1/4/2021	No	48 kW/Yes		Project delayed - PG&E was late in providing the service agreement and has been unresponsive in providing further cost explanation.	No impacts update.
25	TBD	1064 Mission St. - Affordable Housing (256 units)	6	MOHCD (Mercy Housing)	New secondary service for perm. Construction power released to PG&E retail.	Delays caused by dispute over primary vs. secondary. Project moving forward with low-side metering. (See Note 1) <b>In construction</b>	3/28/2019	12/18/2019	4/1/2021	Yes	678 kW/Yes		Project delayed - project was in dispute from Feb. 2019 to Oct. 2019 (7-8 months). Additional project costs - \$150k (2 interrupters, 2 #7 boxes, & installation) Temp. construction power service by PG&E at retail - \$105k in lost gross revenue to SFPUC. \$23k in additional power costs to the project due to PG&E's higher rates. 142,000 lbs. of CO2 emissions (construction period of 18 months)	Temp. construction power costs updated.



**Attachment A: List of Interconnection Issues**

	PG&E NN#	Project Location	District #	Client Organization	Project Description (what SF applied for)	Project Status	Initial Application Submittal Date	App Deemed Complete Date	Initial Service Need Date	Did PG&E require Primary?	Load Size/Can Be Served at Secondary	PG&E committed to work w/ SF to energize in 2018	Impacts	Updates/Changes since Last Report (Sept. 2020)
26	N/A	Transbay Transit Center - Transbay Joint Powers Authority	6	SFPUC - Power	Two new primary services (5 MW each)	Potential dispute over reserved capacity.	Energized - PG&E reviewing SF's request.	9/12/2018	2/6/2019	10/1/2018	N/A	10 MW/No	PG&E is currently reviewing SF's request to use 10 MW of reserved capacity that SF applied and paid for. If PG&E denies request, SF may incur additional costs or have to limit the tenants. PG&E is holding up the project by not explaining the discrepancies between its System Impact Study draft agreement to what SF had requested.	Delays continue as PG&E has still not adequately responded to SF's questions regarding load calculations in the System Impact Study draft agreement.
27	114491666	Mission Rock & Terry Francois Blvd. - Redevelopment Project	6	SFPUC - Power	New primary service	Delays caused by PG&E being late in providing Service Agreement.	Draft Facility Study agreement issued by PG&E.	4/9/2018	4/20/2018	8/1/2019	N/A	7300 kW/No	Project delayed - PG&E should have provided the Service Agreement by end of August 2019.	No impacts update.
28	117795024	16 Sherman Street - Victoria Park Lighting	6	SFRPD	Upgrading existing secondary service	Delays caused by PG&E providing the Service Agreement late.	In construction	10/30/2019	11/20/2019	2/15/2020	N/A	42 kW/Yes	Park safety is at risk as PG&E caused delays to the energization of these lighting fixtures. Further delays will prevent re-opening of the park and leave SFUSD students without a playground.	No impacts update.
29	PG&E withholding NN#	180 Jones Street - Affordable Housing	6	MOHCD (TNDC)	New secondary service for perm. Construction power released to PG&E retail.	Delays caused by dispute over primary vs. secondary. Project is still in dispute.	Project is at a standstill.	4/28/2020		9/5/2022	Yes	576 kW/Yes	Project delayed - project has been in dispute since May 2020 (9-10 months). Temp. construction power service by PG&E at retail - \$89k in lost gross revenue to SFPUC. \$20k in additional power costs to the project due to PG&E's higher rates.	Impacts updated to show cost impact of construction power being turned over to PG&E to avoid further delays.
30	PG&E withholding NN#	266 4th Street - Affordable Housing	6	MOHCD (TNDC)	New secondary service	Delays caused by dispute over primary vs. secondary. Project is still in dispute.	Project is at a standstill.	6/15/2020		12/1/2021	Yes	700 kW/Yes	Project delayed - project has been in dispute since June 2020 (8-9 months).	No impacts update.
31	PG&E withholding NN#	750 Eddy Street - City College Building	6	CCSF	Upgrade and relocation of existing secondary service	Delays caused by dispute over primary vs. secondary. Project is still in dispute.	Project is at a standstill.	11/9/2020		12/30/2021		258 kW/Yes	Project delayed - project has been in dispute since Nov. 2020 (2-3 months)	Project added.
32	PG&E withholding NN#	600 7th Street - Affordable Housing	6	MOHCD	New secondary service	Delays caused by dispute over primary vs. secondary. Project is still in dispute.	Project is at a standstill.	1/19/2021		5/21/2023		847 kW/Yes	Project delayed - project has been in dispute since Feb. 2021 (1-2 months)	Project added.
33	PG&E withholding NN#	2685 Ocean Ave. - EV Charging Station	7	SFMTA & EVGo	New secondary service	Delays caused by dispute over primary vs. secondary. Project is still in dispute.	Project is at a standstill.	2/4/2019		7/22/2019	Yes	600 kW/Yes	Project delayed - project has been in dispute since Feb. 2019 (16-17 months). If required, primary switchgear would cost the project an additional \$500k.	No impacts update. PG&E has cancelled this application.
34	TBD	5 Lenox Way - West Portal Elementary School	7	SFUSD	Upgrade existing secondary service	Delays caused by dispute over primary vs. secondary. Project moving forward with low-side metering. (See Note 1)	Service Agreement issued by PG&E.	7/26/2019	3/10/2020	6/14/2021	N/A	400 kW/Yes	Project delayed - project was in dispute from July 2019 - Oct. 2019 (2-3 months) Additional project costs - \$150k (interrupter, #7 box, & installation)	No impacts update.
35	PG&E withholding NN#	2101 Sloat Boulevard - Construction Trailers (Westside Pump Station)	7	SFPUC	New secondary service	Delays caused by dispute over primary vs. secondary. Project will move forward with secondary service.	SF preparing revised application.	12/17/2020		2/1/2021		75 kW/Yes	Project delayed - project was in dispute from Jan. 2021-Mar.2021 (2-3 months) Due to the urgency of the project, the project team will need to use generators while PG&E processes the service application (estimated generator costs of \$6000/month)	Project added.
36	113135782	350 Amber Drive - Police Academy	8	SFPW for SFPD	Upgrade existing secondary service	Delays caused by dispute over primary vs. secondary. Project moving forward with low-side metering. (See Note 1)	Service Agreement returned with payment by SFPUC.	8/8/2017	5/22/2018	TBD FYE22	Yes	160 kW/Yes	X Project delayed - project was in dispute from Dec. 2017 - May 2018 (6 months). Additional project costs - \$75k (interrupter, #7 box, & installation)	No impacts update. SF has asked PG&E for a project extension.
37	113773996	1419 Bryant Street - Animal Care & Control	9	SFPW for GSA	New secondary service	Delays caused by dispute over primary vs. secondary. Project moving forward with primary.	Energized	10/25/2017	2/12/2019	8/1/2020	Yes	818 kW/Yes	Added costs for primary equipment - \$353k Additional construction costs - \$150k Costs of redesign - \$23k	No impacts update. Project was energized in Oct. 2020 and will be removed on next quarter's report.
38	114671141	2060 Folsom Street - Affordable Housing (127 units)	9	MOHCD (MEDA)	New secondary service for perm. Construction power released to PG&E retail.	Delays caused by dispute over primary vs. secondary. Project moving forward with low-side metering. (See Note 1)	Energized	5/18/2018	3/14/2019	1/15/2020	Yes	1387 kW/Yes	Project delayed - project was in dispute from Jun. 2018 - Nov. 2018 (4-5 months) Costs for redesign (primary service with low-side metering) - \$2-3k Temp. construction power service by PG&E at retail - \$295k in lost gross revenue to SFPUC. \$53k in additional power costs to project due to PG&E's higher rates. Additional project costs - \$150k (2 interrupters, 2 #7 boxes, & installation) 385,000 lbs. of CO2 emissions (construction period of 22 months)	Temp. construction power costs updated. Project was energized in Feb. 2021 and will be removed on next quarter's report.
39	PG&E withholding NN#	681 Florida Street - Affordable Housing (131 units)	9	MOHCD (MEDA)	New secondary service for perm. Construction power released to PG&E retail.	Delays caused by dispute over primary vs. secondary. Project moving forward with low-side metering. (See Note 1)	In construction	2/6/2019		8/3/2020	Yes	785 kW/Yes	Project delayed - project was in dispute from Feb. 2019 - Oct. 2019 (7-8 months). Temp. construction power service by PG&E at retail - \$59k in lost gross revenue to SFPUC. \$12k in additional power costs to project due to PG&E's higher rates. Additional project costs - \$150k (2 interrupters, 2 #7 boxes, & installation) 77,000 lbs. of CO2 emissions (construction period of 15 months)	Temp. construction power costs updated.

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	PG&E NN#	Project Location	District #	Client Organization	Project Description (what SF applied for)	Project Status	Initial Application Submittal Date	App Deemed Complete Date	Initial Service Need Date	Did PG&E require Primary?	Load Size/Can Be Served at Secondary	PG&E committed to work w/ SF to energize in 2018	Impacts	Updates/Changes since Last Report (Sept. 2020)
40	114345033	1990 Folsom Street - Affordable Housing (143 units)	9	MOHCD (MEDA)	New secondary service for perm. Construction power released to PG&E retail.	Delays caused by dispute over primary vs. secondary. Project moving forward with low-side metering. (See Note 1)	In construction	2/26/2018	3/14/2019	9/1/2020	Yes	920 kW/Yes	Project delayed - project was in dispute from Mar. 2018 - Nov. 2018. (7-8 months) Costs for redesign (primary service with low-side metering) - \$2-3k Temp. construction power service by PG&E at retail - \$181k in lost gross revenue to SFPUC. \$38k in additional power costs to project due to PG&E's higher rates. Additional project costs - \$150k (2 interrupters, 2 #7 boxes, & installation) 247,000 lbs. of CO2 emissions (construction period of 21 months)	Temp. construction power costs updated.
41	115148446	3001-3021 24th St. - Affordable Housing (44 units)	9	MOHCD (Mercy Housing)	New secondary service	Delays caused by dispute over primary vs. secondary. Project moving forward with low-side metering. (See Note 1)	Project went to PG&E retail.	11/1/2018		9/1/2020	Yes	362 kW/Yes	Project delayed - project was in dispute from Nov. 2018 to Oct. 2019 (10-11 months).	This project will take PG&E retail power. PG&E has agreed to low-side metering for this project, but the project has been delayed for too long and the process/planning time for low-side metering is no longer viable to meet project deadlines. Cost impacts TBD.
42	PG&E withholding NN#	300 Bartlett Street - Mission Branch Library	9	SFPL	New secondary service	Delays caused by dispute over primary vs. secondary. Project is still in dispute.	Project is at a standstill.	2/26/2020		9/1/2020	Yes	190 kW/Yes	Project delayed - project has been in dispute since Feb. 2020 (12-13 months). If required, primary switchgear would cost the project an additional \$500k.	Delays continue as PG&E is still requiring primary switchgear for this project.
43	111975801	800 Amador Street - Pier 94 - Backlands	10	SFPORT	New secondary service	PG&E required primary. Project is moving forward with primary service.	Service Agreement issued by PG&E, but issues remain on land rights. (Project now on hold due to COVID emergency response)	8/19/2016	8/28/2018	2/1/2017	Yes	166 kW/Yes	X Added costs for primary equipment (overhead) - \$500k The Port is investing over \$8M in upgrading the 16-acre parcel in the Backlands project site. The Port is expected to generate approximately \$250k in monthly rent revenue from this site. Significant delays to this project can cause the Port to lose \$3M in revenue annually. Additional staff time for Port - \$50k Costs of redesign - \$50k	This project is now on hold. This location has been used for the emergency shelters for the homeless in response to COVID. The issues regarding the permanent power service still remain. The Port plans to maintain the temporary service until the permanent service is available.
44	112774763	Illinois St. & Terry Francois - Mariposa Pump Station	10	SFPUC - Wastewater	Relocate existing secondary service (for construction)	Delays caused by PG&E requiring primary. Project went to PG&E retail to avoid anymore delays.	Due to the delays, the project is going to take PG&E retail service.	4/13/2017		6/1/2018	Yes	169 kW/Yes	X Temp. construction power service by PG&E at retail - \$588k in lost gross revenue to SFPUC. PG&E delaying temp. power - project team is potentially facing contract delay costs of \$1k/day. \$22k in additional power costs to the project due to PG&E's higher rates. 554,000 lbs. of CO2 emissions (construction period of 36 months) SF anticipates that generators will cost \$100k/month until PG&E energizes retail power.	Further delays - PG&E is not providing temporary power on time. The project team is looking into mitigating construction contract delay costs by using a generator.
45	114408260	684 23rd Street - Potrero North	10	SFPUC - Power	New primary service	Delays caused by PG&E cancelling the application.	Project is at a standstill.	3/12/2018		10/1/2018	N/A	12,000 kW/No	Project delayed - PG&E denied this service request citing inadequate capacity and cancelled the application.	No impacts update - PG&E refuses to provide service.
46	114408263	638 23rd Street - Potrero South	10	SFPUC - Power	New primary service	Delays caused by PG&E cancelling the application.	Project is at a standstill.	3/12/2018		10/1/2018	N/A	12,000 kW/No	Project delayed - PG&E denied this service request citing inadequate capacity and cancelled the application.	No impacts update - PG&E refuses to provide service.
47	114713787	1001 22nd Street - Bus Electrification Pilot	10	SFMTA	New primary service	Delays caused by PG&E being late in providing the Service Agreement.	Service agreement issued by PG&E.	6/18/2018	2/14/2019	5/1/2019	N/A	2400 kW/Yes	Initially, PG&E was unresponsive in scheduling a pre-application meeting which has caused some delays. PG&E was also late in providing a deemed complete date for the application and several months late in providing the Service Agreement. PG&E caused another 4-month delay to redesign for a PG&E error in the original design.	Further delays incurred as PG&E had to perform a redesign due to a PG&E error in the initial design. SF needs this to be energized as the charge stations will be finished with construction in May 2021.
48	114671200	1995 Evans - Traffic Controls and Forensics	10	SFPW for SFPD	New secondary service	Delays caused by dispute over primary vs. secondary. Project moving forward with low-side metering. (See Note 1)	In construction	5/18/2018	9/3/2019	3/1/2020	Yes	2100 kW/Yes	Project delayed - project was in dispute from Jun. 2018 to August. 2019 (13-14 months). Temp. construction power service by PG&E at retail has been delayed causing the project team to use generators Additional project costs - \$75k (interrupter, #7 box, & installation) Generator costs for temp power: \$578k Additional delays caused by pole location issues.	No impacts update.
49	110162018	750 Phelps - Southeast Plant	10	SFPUC - Wastewater	New primary service	Potential delay as PG&E is late in providing SIS agreement.	Service agreement issued by PG&E. (SF does not agree that PG&E has provided sufficient info).	IN FLIGHT (Prior to July 2015)	7/14/2018	5/20/2020	N/A	12000 kW/no	If delays continue and jeopardize the project energization date, the project team will incur a liquidated damage amount of \$3000/day. Further delays caused by PG&E not providing enough design detail with the Service Agreement.	Delays continue as PG&E has started changing its application processes and has yet to provide sufficient information for SF to review and provide payment for.
50	114546573	2401/2403 Keith Street - Southeast Health Center	10	SFPW for SFDPH	New secondary service	Delays caused by dispute over primary vs. secondary. Project moving forward with low-side metering. (See Note 1)	In construction	4/27/2018	11/14/2019	7/26/2020	Yes	200 kW/Yes	Project delayed - project was in dispute from May 2018 - Oct. 2019 (16-17 months). Additional project costs - \$150k (2 interrupters, #7 box, & installation)	No impacts update.
51	115415116	1550 Evans Ave. - Southeast Community Center	10	SFPUC	Relocation and upgrade of existing secondary service	Delays caused by dispute over primary vs. secondary. Project moving forward at low-side metering. (See Note 1)	In construction	11/26/2018	5/22/2019	1/4/2021	Yes	800 kW/Yes	Project delayed - project was in dispute from Dec. 2018 - Oct. 2019 (8-9 months). PG&E is now 2 months late in providing the Service Agreement. Added costs for primary equipment - \$500k Temp. construction power service by PG&E at retail - \$187k in lost gross revenue to SFPUC. \$9k in additional power costs to project due to PG&E's higher rates.	No impacts update.
52	TBD	Islais Creek Bridge Rehab (3rd Street)	10	SFPW	New secondary service	Delays caused by dispute over primary vs. secondary. Project moving forward with low-side metering. (See Note 1)	Updated application submitted to PG&E.	4/2/2019		5/1/2021	Yes	104 kW/Yes	Project delayed - project was in dispute from Mar. 2019 - Oct. 2019 (6-7 months). Additional project costs - \$75k (interrupter, #7 box, & installation)	No impacts update.
53	PG&E withholding NN#	1150 Phelps - Construction Trailers	10	SFPUC	New secondary service	Delays caused by dispute over primary vs. secondary. Project is still in dispute.	Project is at a standstill.	5/1/2019		6/1/2019	N/A	472 kW/Yes	Project delayed - project has been in dispute since May 2019 (14-15 months) If required, primary switchgear would cost the project an additional \$500k.	No update - project is still at a standstill. PG&E has cancelled this application.

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	PG&E NN#	Project Location	District #	Client Organization	Project Description (what SF applied for)	Project Status	Initial Application Submittal Date	App Deemed Complete Date	Initial Service Need Date	Did PG&E require Primary?	Load Size/Can Be Served at Secondary	PG&E committed to work w/ SF to energize in 2018	Impacts	Updates/Changes since Last Report (Sept. 2020)
54	114721804	480 22nd Street - Pier 70 Pump Station	10	SFPUC - Power	New primary service	Delays caused by PG&E being late in providing Service Agreement.	Engineering estimation by PG&E.	6/14/2018	10/26/2018	1/1/2019	N/A	2000 kW/Yes	Project delayed - PG&E should have provided Service Agreement by end of August 2019.	No impacts update. PG&E has cancelled this application.
55	112875227	1601 Griffith Street - Griffith Pump Station	10	SFPUC - Water	Shutdown & re-energization	Delays caused by PG&E providing energization late.	Energized - Cost impacts due to delay in energization.	N/A	N/A	N/A	N/A	N/A	Project delayed - PG&E pushed back the energization date by 2 weeks. Due to PG&E's delay, the project had to use generators for an additional 2 weeks costing \$27k.	No impacts update.
56	114919920	Harmonia Street - Sunnysdale HOPE	10	SFPUC - Power	New primary service	Potential dispute over reserved capacity.	System Impact Study phase of engineering estimation by PG&E.	8/16/2018	4/4/2019	8/1/2020	N/A	1000 kW/Yes	Delays caused by PG&E not responding to SF's questions regarding load calculations in the System Impact Study draft agreement. Due to the urgency of the project, SF has agreed to move forward with PG&E's lower load calcs and will apply to PG&E for additional capacity when the load ramps up. Costs of this are TBD.	Impacts updated to show unknown costs that will be incurred when the load at this site ramps up.
57	115583820	1101 Connecticut Street - HOPE Potrero	10	SFPUC - Power	New primary service	Potential dispute over reserved capacity.	System Impact Study phase of engineering estimation by PG&E.	12/13/2018	4/4/2019	6/1/2019	N/A	4000 kW/No	Delays caused by PG&E not responding to SF's questions regarding load calculations in the System Impact Study draft agreement. Due to the urgency of the project, SF has agreed to move forward with PG&E's lower load calcs and will apply to PG&E for additional capacity when the load ramps up. Costs of this are TBD.	Impacts updated to show unknown costs that will be incurred when the load at this site ramps up.
58	113804831	603 Jamestown Avenue - Redevelopment Project	10	SFPUC-Power	New primary service	Delays caused by PG&E being late in providing Service Agreement.	Service agreement issued by PG&E. (SF does not agree that PG&E has provided sufficient info).	11/2/2017	2/26/2018	10/1/2018	N/A	8000 kW/No	Delays caused by PG&E not providing the Service Agreement on time. Further delays caused by PG&E not providing enough design detail with the Service Agreement.	Delays continue as PG&E has started changing its application processes and has yet to provide sufficient information for SF to review and provide payment for.
59	116967240	702 Phelps Street - SFMTA Substation	10	SFMTA	Request to increase loads	Delays caused by PG&E being late in providing the System Impact Study report.	Service agreement issued by PG&E. (SF does not agree that PG&E has provided sufficient info).	2/26/2019	6/28/2019	5/1/2019	N/A	4000 kW/No	Delays caused by PG&E not providing the System Impact Study report on time. More delays caused by PG&E not providing the Service Agreement on time. Further delays caused by PG&E not providing enough design detail with the Service Agreement.	Delays continue as PG&E has started changing its application processes and has yet to provide sufficient information for SF to review and provide payment for.
60	11742971	1800 Jerrold Avenue - Biosolids (Temp. power)	10	SFPUC-Wastewater	New primary service	Delays caused by PG&E being late in providing the Service Agreement.	In construction	5/16/2019	6/28/2019	10/1/2019	N/A	1441 kW/No	Delays caused by PG&E not providing the Service Agreement on time.	No impacts update.
61	117974199	901 Tennessee Street - Streetlights	10	SFMTA	New secondary service	Delays caused by PG&E providing the Service Agreement late.	In construction	2/1/2019	11/20/2019	8/1/2019	No	1 kW/Yes	Pedestrian and traffic safety is at risk as PG&E delays the energization of these streetlights and traffic signals.	No impacts update.
62	N/A	1508 Bancroft Ave. - Sustainable Streets Shops	10	SFMTA	Request for information on existing PG&E power supply and approval from PG&E to use the current breakers	Delays caused by PG&E being unresponsive.	Information received from PG&E.	4/6/2018	N/A	10/21/2019	No	N/A	Potential power issue - SF cannot confirm that the current power system is properly protected without PG&E's response to the information requested.	No impacts update.
63	PG&E withholding NN#	1001 Potrero Avenue - UCSF/SFGH Research & Academic Building Construction and Perm Power	10	UCSF/SFGH	New primary service for perm. Construction power released to PG&E retail.	Delays caused by dispute over primary vs. secondary for construction power. Construction power moving forward with PG&E retail.	SF waiting for PG&E System Impact Study Report.	5/20/2020 (temp) 4/1/2020 (perm)		1/1/2021	Yes	417 kW/Yes	Project delayed - construction power was in dispute from Jun. 2020 to Sept. 2020 (4 months). Temp. construction power service by PG&E at retail - \$287k in lost gross revenue to SFPUC. \$30k in additional power costs to the project due to PG&E's higher rates.	No impacts update.
64	114529750	1920 Evans - Arborist Trailer/BUF Yard	10	DPW	New secondary service	Delays caused by issues with overhead poles.	Engineering estimation by PG&E.	4/16/2018	8/10/2018	10/1/2018	No	37 kW/Yes	Project has been delayed due to issues with an overhead pole. PG&E's proposed design was not feasible as it required overhead poles to be installed above underground sewer utilities.	No impacts update.
65	PG&E withholding NN#	4840 Mission Street - Affordable Housing (Construction and Perm. power)	11	MOHCD (BRIDGE Housing)	New secondary service for perm. Construction power released to PG&E retail.	Delays caused by dispute over primary vs. secondary. Project is still in dispute.	Project is at a standstill.	2/5/2020		11/1/2022	Yes	1621 kW/Yes	Project delayed - project has been in dispute since Feb. 2020 (12-13 months). Temp. construction power service by PG&E at retail - \$301k in lost gross revenue to SFPUC. \$47k in additional power costs to the project due to PG&E's higher rates.	Temp. construction power costs updated. Delays continue as PG&E is still requiring primary switchgear for this project.
66	PG&E withholding NN#	35-45 Onondaga Avenue - Health Clinic	11	Real Estate (for DPH)	Upgrade and relocation of existing secondary service	Delays caused by dispute over primary vs. secondary. Project is moving forward at secondary.	Engineering estimation by PG&E.	6/1/2020		3/8/2021	Yes	144 kW/Yes	Project delayed - project was in dispute from Jun. 2020 - Mar. 2020 (8-9 months).	No impacts update.
67	PG&E withholding NN#	455 Athens Street - Cleveland Elementary School	11	SFUSD	Upgrade and relocation of existing secondary service	Delays caused by dispute over primary vs. secondary. Project is still in dispute.	Project is at a standstill.	10/26/2020		6/1/2021		305 kW/Yes	Project delayed - project has been in dispute since Nov. 2020 (3-4 months)	Project added.
68	PG&E withholding NN#	241 Oneida Ave. - Denman Middle School	12	SFUSD	New secondary service	Delays caused by dispute over primary vs. secondary. Project moving forward with low-side metering. (See Note 1)	Project Cancelled	9/6/2019		6/7/2021	Yes	1250 kW/Yes	Project delayed - project was in dispute from Sept. 2019 to Dec. 2019 (2-3 months) Additional project costs - \$75k (interrupter, #7 box, & installation)	Project cancelled - will be removed on next quarter's report.

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	PG&E NN#	Project Location	District #	Client Organization	Project Description (what SF applied for)	Project Status	Initial Application Submittal Date	App Deemed Complete Date	Initial Service Need Date	Did PG&E require Primary?	Load Size/Can Be Served at Secondary	PG&E committed to work w/ SF to energize in 2018	Impacts	Updates/Changes since Last Report (Sept. 2020)
69	PG&E withholding NN#	2340 San Jose Ave. - Affordable Housing	12	MOHCD (Mission Housing)	New secondary service	Delays caused by dispute over primary vs. secondary. Project is still in dispute.	Project is at a standstill.	11/21/2019		5/1/2020	Yes	800 kW/Yes	Project delayed - project has been in dispute since Jan. 2020 (13-14 months) Temp. construction power service by PG&E at retail - \$191k in lost gross revenue to SFPUC. \$34k in additional power costs to the project due to PG&E's higher rates.	Temp. construction power costs updated. Delays continue as PG&E is still requiring primary switchgear for this project.
70	N/A	Multiple Locations - Guy Wires (Franchise Issue)	N/A	SFMTA, SFPW, & SFPUC	PG&E's guy wires are impeding on SF projects.	Franchise dispute	Project is moving forward.	N/A	N/A	N/A	N/A	N/A	PG&E's unresponsiveness in removing guy wires is an obstruction to SF projects. 1) SFMTA cannot install a pole replacement to promote safety. 2) SFPW cannot construct a new ADA curb ramp. 3) SFPUC cannot finish parts of construction at the Southeast Water Treatment Plant.	Delay continues for two of the requests. SF and PG&E will continue to work together to get these resolved.
71	N/A	Multiple Service Transfers	N/A	Various City Depts.	Service Transfers	Delays caused by PG&E requiring unnecessary equipment or information for service transfer requests.	Project is at a standstill.	N/A	N/A	N/A	N/A	N/A	Additional costs and staff resources can be incurred if PG&E continues to create barriers for SF service transfer requests. SF continues to experience loss of revenue and increased greenhouse gas emissions as PG&E is refusing to transfer over City department loads.	Delays continue as projects remain at a standstill.
72	N/A	10501 Warnerville Road - Substation Rehabilitation Project	N/A - Oakdale	SFPUC	Remove two existing services and replace with one secondary service	Delays caused by dispute over primary vs. secondary. Project is still in dispute.	Project went to PG&E retail.	12/26/2018	N/A	3/1/2019	Yes	160 kW/Yes	Project delayed - project was in dispute from Jan.- May 2019 (4 -5 months).	Project will now be served by PG&E retail service to avoid delays. Cost impacts and greenhouse gas emission impacts are TBD.
73	N/A	951 Antoinette Lane - Well Pump & Control Panel	N/A - South SF	SFPUC	Remove two existing services and replace with one secondary service	Delays caused by dispute over primary vs. secondary. Project is still in dispute.	Project is at a standstill.	11/20/2020	N/A	12/6/2021	Yes	50 kW/Yes	Project delayed - project was in dispute since Feb. 2021 (1 month).	Project added.

Notes:

1. Low-side metering is not the same as secondary service. Low-side metering requires extra equipment costs (i.e. an interrupter, approx. \$75k). The SFPUC believes that many of these loads should be served with secondary service, but has compromised with PG&E to move projects forward.
2. Cost impacts related to lost revenue are estimates calculated off of projected load values.
3. Not all cost impacts are reflected here as increased facility and construction costs are still to be determined.
3. CO<sub>2</sub> emissions are calculated using estimated loads with PG&E's 2016 emissions factor.
4. Delay impacts are only calculated off of the time in which PG&E and SF were in dispute. (Other delays are not included)
5. Primary switchgear is estimated to cost an additional \$500k.

Key

- Project is currently being disputed or has been delayed due to a dispute/issue and is past the Initial Service Need Date (Column K).
- Energized, but still facing issues.
- Project is moving forward, but not yet energized. Some are still facing major delays. Please review the impact column for further descriptions.
- Project has been energized - no outstanding issues.



**Attachment C: Cost Impacts**

A	B	C	D	E	F	G	H	I	J
	Additional Costs to Project							Other Impacts to SF	
Project Location	Redesign Costs	Primary or Low-side Metering Equipment Costs	Additional Construction Costs	Additional Costs to Project for PG&E retail service	Additional Const./Project Mgmt Costs Due to Delay	Additional Staff Time Costs	Total Additional Project Costs (B+C+D+E+F+G)	Lost gross revenue to SFPUC	CO2 Emissions (lbs.) from PG&E retail service
1 600 32nd Avenue - George Washington High School		\$ 150,000	\$ 1,000,000				\$ 1,150,000		
2 4545 Anza - Lafayette Elementary				\$ 31,000			\$ 31,000	\$ 14,000	50,000
3 3401 Geary Boulevard - Streetlights & Traffic Controller							\$ -		
4 600 Arguello Blvd. - Rossi Pool							\$ -		
5 3455 Van Ness Avenue - AWSS Pump Station No. 2		\$ 75,000					\$ 75,000		
6 2110 Greenwich Street - Tule Elk Elementary		\$ 150,000					\$ 150,000		
7 2445 Hyde Street - Francisco Park		\$ 75,000			\$ 168,000		\$ 243,000		
8 102 Marina Boulevard - Fort Mason (EVGo)							\$ -		
9 950 Golden Gate Avenue - Margaret Hayward Park		\$ 150,000			\$ 330,000		\$ 480,000		
10 88 Broadway - Affordable Housing		\$ 150,000		\$ 15,000			\$ 165,000	\$ 68,000	90,625
11 735 Davis - Affordable Housing		\$ 150,000		\$ 25,000			\$ 175,000	\$ 114,000	148,837
12 Lake Merced Blvd & Sunset Blvd - Restroom							\$ -		
13 L Taraval - Streetlights							\$ -		
14 1351 42nd Street - Affordable Housing (Francis Scott Key Educator Housing)				\$ 25,000			\$ 25,000	\$ 118,000	
15 50 Bowling Green Drive - GGP Tennis Center		\$ 150,000	\$ 275,000				\$ 425,000	\$ 1,000	
16 1251 Turk Street - Affordable Housing Fire Pump							\$ -		
17 1805 Geary Blvd. - Streetlights and Traffic Signal							\$ -		
18 78 Haight Street - Affordable Housing				\$ 6,000			\$ 6,000	\$ 38,000	
19 Haight Street Traffic Signals							\$ -		
20 6 Berry Street - Substation							\$ -		
21 750 Brannan - Main Library Repository							\$ -		
22 399 The Embarcadero - Fire Boat #35		\$ 150,000	\$ 1,800,000		\$ 500,000		\$ 2,450,000		
23 555 Larkin (formerly 500 Turk Street) - Affordable Housing		\$ 150,000		\$ 24,000			\$ 174,000	\$ 196,000	243,000
24 Market St. & 7th St. - BMS Switch							\$ -		
25 1064 Mission Street - Affordable Housing		\$ 150,000		\$ 23,000			\$ 173,000	\$ 105,000	142,000
26 Transbay Transit Center - Transbay Joint Powers Authority							\$ -		
27 Mission Rock & Terry Francois Blvd. - Redevelopment Project							\$ -		
28 16 Sherman Street - Victoria Park Lighting							\$ -		
29 180 Jones Street - Affordable Housing				\$ 20,000			\$ 20,000	\$ 89,000	
30 266 4th Street - Affordable Housing							\$ -		
31 750 Eddy Street - City College (Alemany)							\$ -		
32 600 7th Street - Affordable Housing							\$ -		
33 2685 Ocean Ave. - EV Charging Station							\$ -		
34 5 Lenox Way - West Portal Elementary School		\$ 150,000					\$ 150,000		
35 2101 Sloat Boulevard - Construction Trailers			\$ 6,000				\$ 6,000		
36 350 Amber Drive - Police Academy		\$ 75,000					\$ 75,000		

**Attachment C: Cost Impacts**

	Additional Costs to Project							Other Impacts to SF		
	Project Location	Redesign Costs	Primary or Low-side Metering Equipment Costs	Additional Construction Costs	Additional Costs to Project for PG&E retail service	Additional Const./Project Mgmt Costs Due to Delay	Additional Staff Time Costs	Total Additional Project Costs (B+C+D+E+F+G)	Lost gross revenue to SFPUC	CO2 Emissions (lbs.) from PG&E retail service
37	1419 Bryant Street - Animal Care & Control	\$ 23,000	\$ 353,000	\$ 150,000				\$ 526,000		
38	2060 Folsom Street - Affordable Housing	\$ 2,000	\$ 150,000		\$ 53,000			\$ 205,000	\$ 295,000	385,000
39	681 Florida Street - Affordable Housing		\$ 150,000		\$ 12,000			\$ 162,000	\$ 59,000	77,000
40	1990 Folsom Street - Affordable Housing	\$ 2,000	\$ 150,000		\$ 38,000			\$ 190,000	\$ 181,000	247,000
41	3001-3021 24th Street - Affordable Housing							\$ -		
42	300 Bartlett Street - Mission Branch Library							\$ -		
43	800 Amador Street - Pier 94 - Backlands	\$ 50,000	\$ 500,000				\$ 50,000	\$ 600,000		
44	Illinois St. & Terry Francois - Mariposa Pump Station				\$ 22,000	\$ 100,000		\$ 122,000	\$ 588,000	554,000
45	684 23rd Street - Potrero North							\$ -		
46	638 23rd Street - Potrero South							\$ -		
47	1001 22nd Street - Bus Electrification Pilot							\$ -		
48	1995 Evans - Traffic Controls and Forensics		\$ 75,000		\$ 578,000			\$ 653,000		
49	750 Phelps - Southeast Plant							\$ -		
50	2401/2403 Keith Street - Southeast Health Center		\$ 150,000					\$ 150,000		
51	1550 Evans Ave - Southeast Community Center		\$ 500,000					\$ 500,000		
52	Islais Creek Bridge Rehab (3rd Street)		\$ 75,000					\$ 75,000		
53	1150 Phelps - Construction Trailers							\$ -		
54	480 22nd Street - Pier 70 Pump Station							\$ -		
55	1601 Griffith Street - Griffith Pump Station				\$ 27,000			\$ 27,000		
56	Harmonia Street - Sunnydale HOPE							\$ -		
57	1101 Connecticut Street - HOPE Potrero							\$ -		
58	603 Jamestown Avenue - Redevelopment Project							\$ -		
59	702 Phelps Street - SFMTA Substation							\$ -		
60	1800 Jerrold Avenue - Biosolids (Temp. Power)							\$ -		
61	901 Tennessee Street							\$ -		
62	1508 Bancroft Avenue - Sustainable Streets Shop							\$ -		
63	1001 Potrero Avenue - UCSF/SFGH Research & Academic Building Construction and Permanent Power				\$ 30,000			\$ 30,000	\$ 287,000	
64	1920 Evans - Arborist Trailer/BUF Yard							\$ -		
65	4840 Mission Street - Affordable Housing				\$ 47,000			\$ 47,000	\$ 301,000	
66	35-45 Onondaga Avenue - Health Clinic							\$ -		
67	455 Athens Street - Cleveland Elementary School									
68	241 Oneida Avenue - Denman Middle School		\$ 75,000					\$ 75,000		
69	2340 San Jose Avenue - Affordable Housing				\$ 35,000			\$ 35,000	\$ 191,000	
70	Multiple Locations - Guy Wires (Franchise Issue)							\$ -		
71	Multiple Service Transfers							\$ -		
72	10501 Warnerville Road - Substation Rehabilitation Project							\$ -		
73	951 Antoinette Lane - Well Pump & Control Panel							\$ -		
	<b>TOTAL</b>	<b>\$ 77,000</b>	<b>\$ 3,903,000</b>	<b>\$ 3,231,000</b>	<b>\$ 1,011,000</b>	<b>\$ 1,098,000</b>	<b>\$ 50,000</b>	<b>\$ 9,370,000</b>	<b>\$ 2,645,000</b>	<b>1,937,462</b>

**Attachment C: Cost Impacts**

Project Location	Additional Costs to Project							Other Impacts to SF	
	Redesign Costs	Primary or Low-side Metering Equipment Costs	Additional Construction Costs	Additional Costs to Project for PG&E retail service	Additional Const./Project Mgmt Costs Due to Delay	Additional Staff Time Costs	Total Additional Project Costs (B+C+D+E+F+G)	Lost gross revenue to SFPUC	CO2 Emissions (lbs.) from PG&E retail service

<b>Total Additional Project Costs</b>	<b>\$ 9,370,000.00</b>
<b>Total Lost Gross Revenue to SFPUC</b>	<b>\$ 2,645,000.00</b>
<b>Total Cost Impact to SF (Project Costs + Lost Revenue)</b>	<b>\$ 12,015,000.00</b>
<b>Total CO2 Emissions (lbs.)</b>	<b>1,937,462</b>

**Note:** These represent estimates of the costs that the City is aware of at the moment. The projects may incur additional costs going forward. The projects in **RED** are projects that are currently at a standstill and may face financial impacts that are TBD depending on how long they will be delayed and how they will move forward.



**EXHIBIT B**

**August 7, 2020 CPUC President Marybel Batjer letter to**

**Senator Scott Wiener**

**PUBLIC UTILITIES COMMISSION**

505 VAN NESS AVENUE  
SAN FRANCISCO, CA 94102-3298



August 7, 2020

Senator Scott Wiener  
State Capitol, Room 5100  
Sacramento, CA 95814

Senator Wiener,

Thank you for your letter requesting information on the potential impact to non-San Francisco ratepayers from the potential acquisition of Pacific Gas and Electric Company's (PG&E) distribution assets by the City and County of San Francisco (the City). We appreciate your inquiry and the importance of supporting efforts to ensure the safe, reliable and affordable provision of service to all PG&E ratepayers.

We are aware of the offers the City has made to acquire PG&E's distribution assets in San Francisco. If the City were to successfully negotiate a purchase of PG&E's assets, the California Public Utilities Commission (CPUC) would then open a proceeding to make a determination as to whether such as transfer of PG&E's assets was in the interest of all PG&E ratepayers and utility employees.<sup>1</sup> If an application to approve a transfer of assets was filed with the CPUC, many of the questions identified in your July 1, 2020 letter would be addressed in the development of the record to support a final decision.

At this time, neither PG&E nor the CPUC, tracks all of the relevant information you request at the geographic granularity you requested. Outside of a proceeding specifically scoped to determine the reasonableness of a transferal of assets, it would be challenging for CPUC staff to gather and analyze the data needed to address your questions.

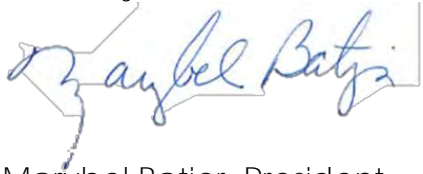
The CPUC staff does, however, have information on PG&E's revenues collected from customers located in San Francisco and on some specific customer characteristics, but does not have data on the cost of service, or PG&E's rate base broken down by specific city. We have included as attachments to this letter the information that we have that is responsive to your requests.

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<sup>1</sup> Public Utilities Code Division 1, Part 1, Chapter 4, Article 6. (Sections 851 – 857)

Thank you again for your letter and for your engagement on this issue. Should you have any further questions or concerns please contact our Office of Governmental Affairs Director, Hazel Miranda at [Hazel.Miranda@cpuc.ca.gov](mailto:Hazel.Miranda@cpuc.ca.gov) or (916) 327-3277.

Sincerely,

A handwritten signature in blue ink that reads "Marybel Batjer". The signature is written in a cursive style and is enclosed within a thin blue rectangular border.

Marybel Batjer, President  
California Public Utilities Commission

PG&E 2019 All Electric Customer Classes Total System Average Rate by County

<b>2019 - All Customer Classes - Ranked Highest to Lowest</b>			
County	Annual Revenue	Annual Usage kWh	Recorded Total System Average Rate by County (¢/kWh)
SISKIYOU Total	\$ 88,260	373,098	23.7
LASSEN Total	\$ 2,035,921	8,656,654	23.5
TRINITY Total	\$ 2,805,805	12,147,766	23.1
ALPINE Total	\$ 1,264,708	5,601,101	22.6
SIERRA Total	\$ 1,412,385	6,300,621	22.4
SACRAMENTO Total	\$ 7,154,955	32,402,697	22.1
EL DORADO Total	\$ 181,439,755	834,665,877	21.7
CALAVERAS Total	\$ 51,075,939	235,878,894	21.7
NEVADA Total	\$ 92,094,416	425,925,442	21.6
MARIPOSA Total	\$ 21,845,128	101,902,168	21.4
SUTTER Total	\$ 113,382,487	529,581,071	21.4
STANISLAUS Total	\$ 82,465,026	388,395,964	21.2
SAN LUIS OBISPO Total	\$ 304,314,685	1,451,558,276	21.0
YUBA Total	\$ 75,506,382	361,464,845	20.9
BUTTE Total	\$ 236,387,106	1,137,914,767	20.8
LAKE Total	\$ 84,033,421	411,200,758	20.4
MERCED Total	\$ 259,945,870	1,281,252,097	20.3
PLUMAS Total	\$ 18,974,894	94,319,115	20.1
TULARE Total	\$ 86,647,404	431,716,363	20.1
TUOLUMNE Total	\$ 69,428,083	346,274,705	20.1
TEHAMA Total	\$ 90,513,191	454,457,602	19.9
AMADOR Total	\$ 55,596,553	285,215,372	19.5
FRESNO Total	\$ 1,206,313,133	6,197,896,412	19.5
SANTA BARBARA Total	\$ 225,485,773	1,189,234,469	19.0
SAN JOAQUIN Total	\$ 771,235,735	4,079,461,624	18.9
SHASTA Total	\$ 91,977,780	486,886,640	18.9
MADERA Total	\$ 257,705,413	1,378,192,503	18.7
COLUSA Total	\$ 66,515,972	361,523,952	18.4
SOLANO Total	\$ 442,894,269	2,456,390,778	18.0
KERN Total	\$ 1,065,047,637	5,978,960,065	17.8
YOLO Total	\$ 213,780,788	1,328,347,301	16.1
MENDOCINO Total	\$ 68,555,796	428,754,945	16.0
MARIN Total	\$ 191,123,148	1,221,720,166	15.6
KINGS Total	\$ 136,991,946	891,435,891	15.4
GLENN Total	\$ 51,965,214	338,187,906	15.4
CONTRA COSTA Total	\$ 841,367,874	5,772,588,296	14.6
PLACER Total	\$ 184,305,267	1,270,914,390	14.5
NAPA Total	\$ 133,248,752	925,998,104	14.4
<b>SAN FRANCISCO Total</b>	<b>\$ 638,927,665</b>	<b>4,546,111,564</b>	<b>14.1</b>
SONOMA Total	\$ 355,268,318	2,540,210,173	14.0
SANTA CRUZ Total	\$ 146,452,424	1,064,478,227	13.8
HUMBOLDT Total	\$ 100,794,248	742,304,252	13.6
MONTEREY Total	\$ 290,378,548	2,207,592,563	13.2
SAN BENITO Total	\$ 43,770,842	336,485,811	13.0
ALAMEDA Total	\$ 1,112,856,294	8,644,355,656	12.9
SAN MATEO Total	\$ 521,929,145	4,087,522,553	12.8
SANTA CLARA Total	\$ 1,322,344,399	11,059,384,731	12.0

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UNINCORPORATED Total

PG&E 2019 All Electric Customer Classes Avg Monthly Revenue per Customer

<b>2019 - All Customer Classes - Ranked Highest to Lowest</b>			
County	Annual Revenue	Average Number of Customers	Average Monthly Revenue per Customer
COLUSA Total	\$ 66,515,972	11,971	<b>463</b>
KINGS Total	\$ 136,991,946	27,300	<b>418</b>
KERN Total	\$ 1,065,047,637	259,368	<b>342</b>
MADERA Total	\$ 257,705,413	64,798	<b>331</b>
TULARE Total	\$ 86,647,404	23,392	<b>309</b>
SANTA BARBARA Total	\$ 225,485,773	67,890	<b>277</b>
GLENN Total	\$ 51,965,214	15,651	<b>277</b>
SAN JOAQUIN Total	\$ 771,235,735	248,091	<b>259</b>
STANISLAUS Total	\$ 82,465,026	26,604	<b>258</b>
SACRAMENTO Total	\$ 7,154,955	2,314	<b>258</b>
FRESNO Total	\$ 1,206,313,133	393,755	<b>255</b>
MERCED Total	\$ 259,945,870	88,830	<b>244</b>
TEHAMA Total	\$ 90,513,191	33,030	<b>228</b>
SUTTER Total	\$ 113,382,487	43,448	<b>217</b>
AMADOR Total	\$ 55,596,553	21,381	<b>217</b>
SOLANO Total	\$ 442,894,269	177,996	<b>207</b>
BUTTE Total	\$ 236,387,106	97,720	<b>202</b>
SHASTA Total	\$ 91,977,780	38,279	<b>200</b>
EL DORADO Total	\$ 181,439,755	75,741	<b>200</b>
YOLO Total	\$ 213,780,788	92,130	<b>193</b>
YUBA Total	\$ 75,506,382	32,566	<b>193</b>
LASSEN Total	\$ 2,035,921	881	<b>193</b>
LAKE Total	\$ 84,033,421	37,800	<b>185</b>
SAN LUIS OBISPO Total	\$ 304,314,685	140,854	<b>180</b>
NEVADA Total	\$ 92,094,416	43,522	<b>176</b>
NAPA Total	\$ 133,248,752	63,045	<b>176</b>
SANTA CLARA Total	\$ 1,322,344,399	647,228	<b>170</b>
TUOLUMNE Total	\$ 69,428,083	34,692	<b>167</b>
ALPINE Total	\$ 1,264,708	659	<b>160</b>
MARIPOSA Total	\$ 21,845,128	11,516	<b>158</b>
SAN BENITO Total	\$ 43,770,842	23,767	<b>153</b>
CONTRA COSTA Total	\$ 841,367,874	459,945	<b>152</b>
MENDOCINO Total	\$ 68,555,796	38,152	<b>150</b>
MONTEREY Total	\$ 290,378,548	162,383	<b>149</b>
ALAMEDA Total	\$ 1,112,856,294	633,112	<b>146</b>
PLACER Total	\$ 184,305,267	105,292	<b>146</b>
SAN MATEO Total	\$ 521,929,145	306,742	<b>142</b>
PLUMAS Total	\$ 18,974,894	11,248	<b>141</b>
TRINITY Total	\$ 2,805,805	1,688	<b>139</b>
CALAVERAS Total	\$ 51,075,939	30,843	<b>138</b>
SISKIYOU Total	\$ 88,260	54	<b>136</b>
SONOMA Total	\$ 355,268,318	223,699	<b>132</b>
<b>SAN FRANCISCO Total</b>	<b>\$ 638,927,665</b>	<b>405,790</b>	<b>131</b>
MARIN Total	\$ 191,123,148	121,941	<b>131</b>
HUMBOLDT Total	\$ 100,794,248	67,830	<b>124</b>
SANTA CRUZ Total	\$ 146,452,424	107,960	<b>113</b>
SIERRA Total	\$ 1,412,385	1,185	<b>99</b>

PG&E 2019 All Electric Customer Classes Average Monthly Usage per Customer

<b>2019 - All Customer Classes - Ranked Highest to Lowest</b>			
County	Annual Usage kWh	Average Number of Customers	Average Monthly Usage kWh per Customer
KINGS Total	891,435,891	27,300	<b>2,721</b>
COLUSA Total	361,523,952	11,971	<b>2,517</b>
KERN Total	5,978,960,065	259,368	<b>1,921</b>
GLENN Total	338,187,906	15,651	<b>1,801</b>
MADERA Total	1,378,192,503	64,798	<b>1,772</b>
TULARE Total	431,716,363	23,392	<b>1,538</b>
SANTA BARBARA Total	1,189,234,469	67,890	<b>1,460</b>
SANTA CLARA Total	11,059,384,731	647,228	<b>1,424</b>
SAN JOAQUIN Total	4,079,461,624	248,091	<b>1,370</b>
FRESNO Total	6,197,896,412	393,755	<b>1,312</b>
NAPA Total	925,998,104	63,045	<b>1,224</b>
STANISLAUS Total	388,395,964	26,604	<b>1,217</b>
MERCED Total	1,281,252,097	88,830	<b>1,202</b>
YOLO Total	1,328,347,301	92,130	<b>1,202</b>
SAN BENITO Total	336,485,811	23,767	<b>1,180</b>
SACRAMENTO Total	32,402,697	2,314	<b>1,167</b>
SOLANO Total	2,456,390,778	177,996	<b>1,150</b>
TEHAMA Total	454,457,602	33,030	<b>1,147</b>
ALAMEDA Total	8,644,355,656	633,112	<b>1,138</b>
MONTEREY Total	2,207,592,563	162,383	<b>1,133</b>
AMADOR Total	285,215,372	21,381	<b>1,112</b>
SAN MATEO Total	4,087,522,553	306,742	<b>1,110</b>
SHASTA Total	486,886,640	38,279	<b>1,060</b>
CONTRA COSTA Total	5,772,588,296	459,945	<b>1,046</b>
SUTTER Total	529,581,071	43,448	<b>1,016</b>
PLACER Total	1,270,914,390	105,292	<b>1,006</b>
BUTTE Total	1,137,914,767	97,720	<b>970</b>
SONOMA Total	2,540,210,173	223,699	<b>946</b>
MENDOCINO Total	428,754,945	38,152	<b>937</b>
<b>SAN FRANCISCO Total</b>	<b>4,546,111,564</b>	<b>405,790</b>	<b>934</b>
YUBA Total	361,464,845	32,566	<b>925</b>
EL DORADO Total	834,665,877	75,741	<b>918</b>
HUMBOLDT Total	742,304,252	67,830	<b>912</b>
LAKE Total	411,200,758	37,800	<b>907</b>
SAN LUIS OBISPO Total	1,451,558,276	140,854	<b>859</b>
MARIN Total	1,221,720,166	121,941	<b>835</b>
TUOLUMNE Total	346,274,705	34,692	<b>832</b>
SANTA CRUZ Total	1,064,478,227	107,960	<b>822</b>
LASSEN Total	8,656,654	881	<b>819</b>
NEVADA Total	425,925,442	43,522	<b>816</b>
MARIPOSA Total	101,902,168	11,516	<b>737</b>
ALPINE Total	5,601,101	659	<b>708</b>
PLUMAS Total	94,319,115	11,248	<b>699</b>
CALAVERAS Total	235,878,894	30,843	<b>637</b>
TRINITY Total	12,147,766	1,688	<b>600</b>
SISKIYOU Total	373,098	54	<b>576</b>
SIERRA Total	6,300,621	1,185	<b>443</b>

PG&E 2019 Residential Electric Customer Class Total System Average Rate by County

<b>2019 - Residential Class - Ranked Highest to Lowest</b>			
County	Annual Revenue	Annual Usage kWh	Recorded Total Residential Average Rate by County (c/kWh)
ALPINE Total	\$ 635,659	2,733,432	23.25
TRINITY Total	\$ 2,141,412	9,397,432	22.79
SAN LUIS OBISPO Total	\$ 122,373,909	544,694,474	22.47
EL DORADO Total	\$ 117,446,623	525,678,904	22.34
NEVADA Total	\$ 62,479,999	289,612,170	21.57
SIERRA Total	\$ 816,911	3,804,614	21.47
SANTA BARBARA Total	\$ 56,416,361	262,946,834	21.46
CALAVERAS Total	\$ 37,664,442	175,631,258	21.45
SACRAMENTO Total	\$ 2,681,920	12,534,726	21.40
AMADOR Total	\$ 25,923,494	121,952,747	21.26
SHASTA Total	\$ 58,333,819	276,068,111	21.13
SISKIYOU Total	\$ 31,722	150,202	21.12
MARIPOSA Total	\$ 13,611,445	64,712,547	21.03
STANISLAUS Total	\$ 33,867,104	161,018,664	21.03
SUTTER Total	\$ 47,458,350	227,865,756	20.83
TUOLUMNE Total	\$ 40,245,452	193,456,594	20.80
SOLANO Total	\$ 191,312,764	922,180,529	20.75
GLENN Total	\$ 16,256,290	78,633,005	20.67
LASSEN Total	\$ 922,382	4,468,183	20.64
PLUMAS Total	\$ 10,122,030	49,128,184	20.60
BUTTE Total	\$ 109,817,726	533,731,315	20.58
COLUSA Total	\$ 11,303,977	55,029,242	20.54
SAN JOAQUIN Total	\$ 298,862,359	1,460,080,311	20.47
TEHAMA Total	\$ 43,292,865	213,246,988	20.30
KINGS Total	\$ 29,166,848	144,576,963	20.17
YUBA Total	\$ 38,200,282	189,550,384	20.15
FRESNO Total	\$ 458,786,939	2,288,403,131	20.05
KERN Total	\$ 295,419,603	1,475,291,135	20.02
MADERA Total	\$ 73,545,868	370,212,546	19.87
LAKE Total	\$ 52,114,211	263,410,713	19.78
MERCED Total	\$ 97,533,429	506,744,847	19.25
TULARE Total	\$ 21,230,361	112,341,450	18.90
MARIN Total	\$ 104,468,023	602,266,141	17.35
CONTRA COSTA Total	\$ 425,809,513	2,516,503,691	16.92
MENDOCINO Total	\$ 38,265,701	232,327,645	16.47
<b>SAN FRANCISCO Total</b>	<b>\$ 209,218,074</b>	<b>1,288,761,441</b>	<b>16.23</b>
YOLO Total	\$ 71,831,416	443,395,742	16.20
NAPA Total	\$ 53,081,422	330,340,986	16.07
PLACER Total	\$ 107,656,709	681,805,626	15.79
SONOMA Total	\$ 169,979,876	1,121,001,197	15.16
SAN MATEO Total	\$ 215,500,699	1,421,719,788	15.16
SANTA CLARA Total	\$ 477,268,155	3,157,496,006	15.12
ALAMEDA Total	\$ 382,583,354	2,615,078,252	14.63
HUMBOLDT Total	\$ 51,073,263	352,959,329	14.47
SANTA CRUZ Total	\$ 69,854,601	485,387,588	14.39
SAN BENITO Total	\$ 15,649,171	109,560,058	14.28
MONTEREY Total	\$ 84,689,814	615,482,840	13.76

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UNINCORPORATED Total

PG&E 2019 Residential Electric Customer Class Average Monthly Revenue per Customer

<b>2019 - Residential Class - Ranked Highest to Lowest</b>			
County	Annual Revenue	Average Number of Customers	Average Monthly Revenue per Customer
SHASTA Total	\$ 58,333,819	33,343	<b>146</b>
EL DORADO Total	\$ 117,446,623	67,585	<b>145</b>
SACRAMENTO Total	\$ 2,681,920	1,600	<b>140</b>
NEVADA Total	\$ 62,479,999	38,208	<b>136</b>
LAKE Total	\$ 52,114,211	32,892	<b>132</b>
TEHAMA Total	\$ 43,292,865	27,554	<b>131</b>
STANISLAUS Total	\$ 33,867,104	21,763	<b>130</b>
TRINITY Total	\$ 2,141,412	1,456	<b>123</b>
GLENN Total	\$ 16,256,290	11,369	<b>119</b>
AMADOR Total	\$ 25,923,494	18,176	<b>119</b>
MADERA Total	\$ 73,545,868	51,771	<b>118</b>
SAN JOAQUIN Total	\$ 298,862,359	213,590	<b>117</b>
KINGS Total	\$ 29,166,848	20,897	<b>116</b>
LASSEN Total	\$ 922,382	664	<b>116</b>
FRESNO Total	\$ 458,786,939	333,855	<b>115</b>
MARIPOSA Total	\$ 13,611,445	9,949	<b>114</b>
CALAVERAS Total	\$ 37,664,442	27,586	<b>114</b>
SUTTER Total	\$ 47,458,350	34,840	<b>114</b>
YUBA Total	\$ 38,200,282	28,064	<b>113</b>
COLUSA Total	\$ 11,303,977	8,329	<b>113</b>
BUTTE Total	\$ 109,817,726	81,889	<b>112</b>
MERCED Total	\$ 97,533,429	73,091	<b>111</b>
KERN Total	\$ 295,419,603	222,742	<b>111</b>
TUOLUMNE Total	\$ 40,245,452	30,411	<b>110</b>
TULARE Total	\$ 21,230,361	16,318	<b>108</b>
MENDOCINO Total	\$ 38,265,701	31,441	<b>101</b>
SOLANO Total	\$ 191,312,764	159,737	<b>100</b>
PLACER Total	\$ 107,656,709	92,837	<b>97</b>
ALPINE Total	\$ 635,659	585	<b>90</b>
PLUMAS Total	\$ 10,122,030	9,570	<b>88</b>
SAN LUIS OBISPO Total	\$ 122,373,909	118,100	<b>86</b>
CONTRA COSTA Total	\$ 425,809,513	419,994	<b>84</b>
NAPA Total	\$ 53,081,422	53,100	<b>83</b>
SANTA BARBARA Total	\$ 56,416,361	56,800	<b>83</b>
MARIN Total	\$ 104,468,023	106,744	<b>82</b>
YOLO Total	\$ 71,831,416	79,860	<b>75</b>
HUMBOLDT Total	\$ 51,073,263	57,482	<b>74</b>
SONOMA Total	\$ 169,979,876	192,266	<b>74</b>
SIERRA Total	\$ 816,911	986	<b>69</b>
SANTA CLARA Total	\$ 477,268,155	588,249	<b>68</b>
SISKIYOU Total	\$ 31,722	40	<b>66</b>
SAN BENITO Total	\$ 15,649,171	20,034	<b>65</b>
SAN MATEO Total	\$ 215,500,699	277,116	<b>65</b>
SANTA CRUZ Total	\$ 69,854,601	94,745	<b>61</b>
ALAMEDA Total	\$ 382,583,354	568,655	<b>56</b>
MONTEREY Total	\$ 84,689,814	138,205	<b>51</b>
<b>SAN FRANCISCO Total</b>	<b>\$ 209,218,074</b>	<b>370,994</b>	<b>47</b>



PG&E 2019 Residential Electric Customer Class Average Monthly Usage per Customer

<b>2019 - Residential Class - Ranked Highest to Lowest</b>			
County	Annual Usage kWh	Average Number of Customers	Average Monthly Usage kWh per Customer
SHASTA Total	276,068,111	33,343	<b>690</b>
LAKE Total	263,410,713	32,892	<b>667</b>
SACRAMENTO Total	12,534,726	1,600	<b>653</b>
EL DORADO Total	525,678,904	67,585	<b>648</b>
TEHAMA Total	213,246,988	27,554	<b>645</b>
NEVADA Total	289,612,170	38,208	<b>632</b>
STANISLAUS Total	161,018,664	21,763	<b>617</b>
MENDOCINO Total	232,327,645	31,441	<b>616</b>
PLACER Total	681,805,626	92,837	<b>612</b>
MADERA Total	370,212,546	51,771	<b>596</b>
MERCED Total	506,744,847	73,091	<b>578</b>
KINGS Total	144,576,963	20,897	<b>577</b>
GLENN Total	78,633,005	11,369	<b>576</b>
TULARE Total	112,341,450	16,318	<b>574</b>
FRESNO Total	2,288,403,131	333,855	<b>571</b>
SAN JOAQUIN Total	1,460,080,311	213,590	<b>570</b>
YUBA Total	189,550,384	28,064	<b>563</b>
LASSEN Total	4,468,183	664	<b>561</b>
AMADOR Total	121,952,747	18,176	<b>559</b>
KERN Total	1,475,291,135	222,742	<b>552</b>
COLUSA Total	55,029,242	8,329	<b>551</b>
SUTTER Total	227,865,756	34,840	<b>545</b>
BUTTE Total	533,731,315	81,889	<b>543</b>
MARIPOSA Total	64,712,547	9,949	<b>542</b>
TRINITY Total	9,397,432	1,456	<b>538</b>
CALAVERAS Total	175,631,258	27,586	<b>531</b>
TUOLUMNE Total	193,456,594	30,411	<b>530</b>
NAPA Total	330,340,986	53,100	<b>518</b>
HUMBOLDT Total	352,959,329	57,482	<b>512</b>
CONTRA COSTA Total	2,516,503,691	419,994	<b>499</b>
SONOMA Total	1,121,001,197	192,266	<b>486</b>
SOLANO Total	922,180,529	159,737	<b>481</b>
MARIN Total	602,266,141	106,744	<b>470</b>
YOLO Total	443,395,742	79,860	<b>463</b>
SAN BENITO Total	109,560,058	20,034	<b>456</b>
SANTA CLARA Total	3,157,496,006	588,249	<b>447</b>
PLUMAS Total	49,128,184	9,570	<b>428</b>
SAN MATEO Total	1,421,719,788	277,116	<b>428</b>
SANTA CRUZ Total	485,387,588	94,745	<b>427</b>
ALPINE Total	2,733,432	585	<b>389</b>
SANTA BARBARA Total	262,946,834	56,800	<b>386</b>
SAN LUIS OBISPO Total	544,694,474	118,100	<b>384</b>
ALAMEDA Total	2,615,078,252	568,655	<b>383</b>
MONTEREY Total	615,482,840	138,205	<b>371</b>
SIERRA Total	3,804,614	986	<b>321</b>
SISKIYOU Total	150,202	40	<b>314</b>
<b>SAN FRANCISCO Total</b>	<b>1,288,761,441</b>	<b>370,994</b>	<b>289</b>

PG&E 2019 All Gas Customer Classes Total System Average Rate by County

<b>2019 - All Customer Classes - Ranked Highest to Lowest</b>			
County	Annual Revenue	Annual Usage therm	Recorded Total System Average Rate by County (\$/them)
EL DORADO Total	\$ 15,439,718	11,760,442	<b>1.31</b>
MARIN Total	\$ 92,648,917	72,310,749	<b>1.28</b>
NEVADA Total	\$ 12,010,839	9,595,781	<b>1.25</b>
SANTA BARBARA Total	\$ 5,976	4,943	<b>1.21</b>
SONOMA Total	\$ 126,540,315	114,618,294	<b>1.10</b>
MENDOCINO Total	\$ 11,329,314	10,385,266	<b>1.09</b>
SAN MATEO Total	\$ 242,120,755	224,055,752	<b>1.08</b>
TRINITY Total	\$ 55,101	51,224	<b>1.08</b>
SACRAMENTO Total	\$ 351,669,340	333,772,927	<b>1.05</b>
YUBA Total	\$ 12,383,616	11,809,312	<b>1.05</b>
SANTA CRUZ Total	\$ 59,587,025	57,287,582	<b>1.04</b>
BUTTE Total	\$ 41,452,333	40,775,919	<b>1.02</b>
<b>SAN FRANCISCO Total</b>	<b>\$ 248,506,505</b>	<b>246,159,603</b>	<b>1.01</b>
SAN LUIS OBISPO Total	\$ 355,751	356,769	<b>1.00</b>
NAPA Total	\$ 42,689,370	45,283,599	<b>0.94</b>
PLACER Total	\$ 101,850,185	108,219,517	<b>0.94</b>
SAN BENITO Total	\$ 14,051,834	15,700,463	<b>0.89</b>
ALAMEDA Total	\$ 418,374,202	489,892,071	<b>0.85</b>
TEHAMA Total	\$ 8,595,242	12,199,734	<b>0.70</b>
SHASTA Total	\$ 38,326,884	57,971,289	<b>0.66</b>
CALAVERAS Total	\$ 1,116,252	1,702,909	<b>0.66</b>
AMADOR Total	\$ 6,121,518	9,504,714	<b>0.64</b>
GLENN Total	\$ 5,702,148	8,952,722	<b>0.64</b>
SANTA CLARA Total	\$ 478,492,176	794,238,764	<b>0.60</b>
HUMBOLDT Total	\$ 39,330,702	68,239,338	<b>0.58</b>
KERN Total	\$ 95,014,036	179,731,114	<b>0.53</b>
SAN JOAQUIN Total	\$ 168,612,386	356,362,467	<b>0.47</b>
FRESNO Total	\$ 200,350,139	439,618,029	<b>0.46</b>
MERCED Total	\$ 53,887,217	121,001,438	<b>0.45</b>
KINGS Total	\$ 1,731,447	3,938,623	<b>0.44</b>
SOLANO Total	\$ 123,675,317	282,400,807	<b>0.44</b>
STANISLAUS Total	\$ 142,338,185	350,588,617	<b>0.41</b>
MADERA Total	\$ 21,906,696	58,708,523	<b>0.37</b>
SUTTER Total	\$ 30,150,502	81,620,835	<b>0.37</b>
MONTEREY Total	\$ 120,721,027	500,712,375	<b>0.24</b>
CONTRA COSTA Total	\$ 487,593,726	2,310,953,991	<b>0.21</b>
SAN BERNARDINO Total	\$ 5,824,465	44,933,599	<b>0.13</b>
YOLO Total	\$ 51,391,938	399,163,967	<b>0.13</b>
COLUSA Total	\$ 12,537,899	245,243,532	<b>0.05</b>

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PG&E 2019 All Gas Customer Classes Average Monthly Revenue per Customer

<b>2019 - All Customer Classes - Ranked Highest to Lowest</b>			
County	Annual Revenue	Average Number of Customers	Average Monthly Revenue per Customer
SAN BERNARDINO Total	\$ 5,824,465	906	<b>536</b>
COLUSA Total	\$ 12,537,899	6,200	<b>169</b>
TRINITY Total	\$ 55,101	43	<b>108</b>
CONTRA COSTA Total	\$ 487,593,726	392,944	<b>103</b>
AMADOR Total	\$ 6,121,518	5,837	<b>87</b>
SAN LUIS OBISPO Total	\$ 355,751	348	<b>85</b>
SAN MATEO Total	\$ 242,120,755	238,460	<b>85</b>
EL DORADO Total	\$ 15,439,718	15,293	<b>84</b>
NEVADA Total	\$ 12,010,839	11,988	<b>83</b>
MARIN Total	\$ 92,648,917	93,820	<b>82</b>
MONTEREY Total	\$ 120,721,027	122,697	<b>82</b>
SUTTER Total	\$ 30,150,502	31,642	<b>79</b>
SANTA CLARA Total	\$ 478,492,176	525,009	<b>76</b>
NAPA Total	\$ 42,689,370	46,966	<b>76</b>
CALAVERAS Total	\$ 1,116,252	1,241	<b>75</b>
<b>SAN FRANCISCO Total</b>	<b>\$ 248,506,505</b>	<b>283,688</b>	<b>73</b>
HUMBOLDT Total	\$ 39,330,702	45,002	<b>73</b>
MADERA Total	\$ 21,906,696	25,179	<b>73</b>
STANISLAUS Total	\$ 142,338,185	163,984	<b>72</b>
SHASTA Total	\$ 38,326,884	45,021	<b>71</b>
PLACER Total	\$ 101,850,185	124,771	<b>68</b>
SOLANO Total	\$ 123,675,317	152,050	<b>68</b>
MENDOCINO Total	\$ 11,329,314	13,972	<b>68</b>
SAN BENITO Total	\$ 14,051,834	17,336	<b>68</b>
SANTA CRUZ Total	\$ 59,587,025	75,519	<b>66</b>
ALAMEDA Total	\$ 418,374,202	532,390	<b>65</b>
SONOMA Total	\$ 126,540,315	163,476	<b>65</b>
GLENN Total	\$ 5,702,148	7,632	<b>62</b>
TEHAMA Total	\$ 8,595,242	11,565	<b>62</b>
SACRAMENTO Total	\$ 351,669,340	478,579	<b>61</b>
FRESNO Total	\$ 200,350,139	273,066	<b>61</b>
YOLO Total	\$ 51,391,938	70,123	<b>61</b>
SAN JOAQUIN Total	\$ 168,612,386	230,494	<b>61</b>
MERCED Total	\$ 53,887,217	74,837	<b>60</b>
KERN Total	\$ 95,014,036	147,920	<b>54</b>
BUTTE Total	\$ 41,452,333	64,754	<b>53</b>
YUBA Total	\$ 12,383,616	20,285	<b>51</b>
KINGS Total	\$ 1,731,447	2,878	<b>50</b>
SANTA BARBARA Total	\$ 5,976	18	<b>28</b>

PG&E 2019 All Gas Customer Classes Average Monthly Usage per Customer

<b>2019 - All Customer Classes - Ranked Highest to Lowest</b>			
County	Annual Usage therm	Average Number of Customers	Average Monthly Usage therm per Customer
SAN BERNARDINO	44,933,599	906	<b>4,135</b>
COLUSA Total	245,243,532	6,200	<b>3,296</b>
CONTRA COSTA Total	2,310,953,991	392,944	<b>490</b>
YOLO Total	399,163,967	70,123	<b>474</b>
MONTEREY Total	500,712,375	122,697	<b>340</b>
SUTTER Total	81,620,835	31,642	<b>215</b>
MADERA Total	58,708,523	25,179	<b>194</b>
STANISLAUS Total	350,588,617	163,984	<b>178</b>
SOLANO Total	282,400,807	152,050	<b>155</b>
AMADOR Total	9,504,714	5,837	<b>136</b>
MERCED Total	121,001,438	74,837	<b>135</b>
FRESNO Total	439,618,029	273,066	<b>134</b>
SAN JOAQUIN Total	356,362,467	230,494	<b>129</b>
HUMBOLDT Total	68,239,338	45,002	<b>126</b>
SANTA CLARA Total	794,238,764	525,009	<b>126</b>
CALAVERAS Total	1,702,909	1,241	<b>114</b>
KINGS Total	3,938,623	2,878	<b>114</b>
SHASTA Total	57,971,289	45,021	<b>107</b>
KERN Total	179,731,114	147,920	<b>101</b>
TRINITY Total	51,224	43	<b>100</b>
GLENN Total	8,952,722	7,632	<b>98</b>
TEHAMA Total	12,199,734	11,565	<b>88</b>
SAN LUIS OBISPO Total	356,769	348	<b>85</b>
NAPA Total	45,283,599	46,966	<b>80</b>
SAN MATEO Total	224,055,752	238,460	<b>78</b>
ALAMEDA Total	489,892,071	532,390	<b>77</b>
SAN BENITO Total	15,700,463	17,336	<b>75</b>
<b>SAN FRANCISCO Total</b>	<b>246,159,603</b>	<b>283,688</b>	<b>72</b>
PLACER Total	108,219,517	124,771	<b>72</b>
NEVADA Total	9,595,781	11,988	<b>67</b>
MARIN Total	72,310,749	93,820	<b>64</b>
EL DORADO Total	11,760,442	15,293	<b>64</b>
SANTA CRUZ Total	57,287,582	75,519	<b>63</b>
MENDOCINO Total	10,385,266	13,972	<b>62</b>
SONOMA Total	114,618,294	163,476	<b>58</b>
SACRAMENTO Total	333,772,927	478,579	<b>58</b>
BUTTE Total	40,775,919	64,754	<b>52</b>
YUBA Total	11,809,312	20,285	<b>49</b>
SANTA BARBARA Total	4,943	18	<b>23</b>

PG&E 2019 Residential Gas Customer Class Total System Average Rate by County

<b>2019 - Residential Customer Class - Ranked Highest to Lowest</b>			
County	Annual Revenue	Annual Usage therm	Recorded Total System Average Rate by County (\$/them)
EL DORADO Total	\$ 13,597,827	8,730,199	<b>1.56</b>
MARIN Total	\$ 75,661,684	50,918,597	<b>1.49</b>
PLACER Total	\$ 78,159,221	54,458,500	<b>1.44</b>
SAN MATEO Total	\$ 166,885,842	117,444,696	<b>1.42</b>
NEVADA Total	\$ 8,349,373	5,984,333	<b>1.40</b>
CONTRA COSTA Total	\$ 242,324,046	175,037,186	<b>1.38</b>
SACRAMENTO Total	\$ 270,958,031	198,992,154	<b>1.36</b>
SANTA CLARA Total	\$ 311,519,672	229,555,407	<b>1.36</b>
SHASTA Total	\$ 25,138,605	18,527,230	<b>1.36</b>
NAPA Total	\$ 27,780,838	20,575,171	<b>1.35</b>
<b>SAN FRANCISCO Total</b>	<b>\$ 170,900,698</b>	<b>127,497,840</b>	<b>1.34</b>
SONOMA Total	\$ 93,649,259	69,973,142	<b>1.34</b>
SAN BERNARDINO Total	\$ 386,209	288,687	<b>1.34</b>
AMADOR Total	\$ 2,887,744	2,161,365	<b>1.34</b>
ALAMEDA Total	\$ 288,605,528	216,606,754	<b>1.33</b>
SANTA CRUZ Total	\$ 43,023,574	32,374,261	<b>1.33</b>
HUMBOLDT Total	\$ 26,104,206	19,778,665	<b>1.32</b>
MENDOCINO Total	\$ 7,437,366	5,664,994	<b>1.31</b>
STANISLAUS Total	\$ 81,688,067	62,279,575	<b>1.31</b>
YOLO Total	\$ 33,472,284	25,566,933	<b>1.31</b>
MONTEREY Total	\$ 66,816,875	51,120,188	<b>1.31</b>
SAN LUIS OBISPO Total	\$ 176,598	135,461	<b>1.30</b>
TRINITY Total	\$ 25,213	19,343	<b>1.30</b>
SAN BENITO Total	\$ 8,964,042	6,877,878	<b>1.30</b>
SOLANO Total	\$ 76,618,865	58,810,100	<b>1.30</b>
SUTTER Total	\$ 16,251,990	12,555,186	<b>1.29</b>
SAN JOAQUIN Total	\$ 113,795,944	88,933,094	<b>1.28</b>
BUTTE Total	\$ 28,858,792	22,561,417	<b>1.28</b>
FRESNO Total	\$ 122,327,638	97,713,875	<b>1.25</b>
COLUSA Total	\$ 2,718,937	2,209,331	<b>1.23</b>
CALAVERAS Total	\$ 527,143	429,798	<b>1.23</b>
KERN Total	\$ 64,296,123	52,511,991	<b>1.22</b>
YUBA Total	\$ 8,961,502	7,335,404	<b>1.22</b>
GLENN Total	\$ 3,051,620	2,505,577	<b>1.22</b>
TEHAMA Total	\$ 4,814,118	3,963,316	<b>1.21</b>
MERCED Total	\$ 31,469,386	25,914,461	<b>1.21</b>
SANTA BARBARA Total	\$ 5,976	4,943	<b>1.21</b>
MADERA Total	\$ 9,659,018	8,235,837	<b>1.17</b>
KINGS Total	\$ 968,400	897,405	<b>1.08</b>

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UNINCORPORATED Total

PG&E 2019 Residential Gas Customer Class Average Monthly Revenue per Customer

<b>2019 - Residential Customer Class - Ranked Highest to Lowest</b>			
County	Annual Revenue	Average Number of Customers	Average Monthly Revenue per Customer
EL DORADO Total	\$ 13,597,827	14,614	<b>78</b>
TRINITY Total	\$ 25,213	29	<b>74</b>
MARIN Total	\$ 75,661,684	88,107	<b>72</b>
NEVADA Total	\$ 8,349,373	10,284	<b>68</b>
SAN MATEO Total	\$ 166,885,842	226,092	<b>62</b>
PLACER Total	\$ 78,159,221	118,426	<b>55</b>
CONTRA COSTA Total	\$ 242,324,046	378,017	<b>53</b>
<b>SAN FRANCISCO Total</b>	<b>\$ 170,900,698</b>	<b>269,029</b>	<b>53</b>
NAPA Total	\$ 27,780,838	43,839	<b>53</b>
HUMBOLDT Total	\$ 26,104,206	41,619	<b>52</b>
SANTA CLARA Total	\$ 311,519,672	498,133	<b>52</b>
SANTA CRUZ Total	\$ 43,023,574	70,101	<b>51</b>
SONOMA Total	\$ 93,649,259	153,403	<b>51</b>
SHASTA Total	\$ 25,138,605	41,328	<b>51</b>
MENDOCINO Total	\$ 7,437,366	12,385	<b>50</b>
SACRAMENTO Total	\$ 270,958,031	461,181	<b>49</b>
MONTEREY Total	\$ 66,816,875	114,768	<b>49</b>
ALAMEDA Total	\$ 288,605,528	504,870	<b>48</b>
AMADOR Total	\$ 2,887,744	5,146	<b>47</b>
SUTTER Total	\$ 16,251,990	29,613	<b>46</b>
SAN BENITO Total	\$ 8,964,042	16,391	<b>46</b>
SAN LUIS OBISPO Total	\$ 176,598	326	<b>45</b>
SOLANO Total	\$ 76,618,865	145,858	<b>44</b>
STANISLAUS Total	\$ 81,688,067	155,665	<b>44</b>
CALAVERAS Total	\$ 527,143	1,014	<b>43</b>
SAN JOAQUIN Total	\$ 113,795,944	219,331	<b>43</b>
YOLO Total	\$ 33,472,284	66,331	<b>42</b>
BUTTE Total	\$ 28,858,792	59,719	<b>40</b>
COLUSA Total	\$ 2,718,937	5,641	<b>40</b>
FRESNO Total	\$ 122,327,638	257,321	<b>40</b>
SAN BERNARDINO Total	\$ 386,209	830	<b>39</b>
YUBA Total	\$ 8,961,502	19,470	<b>38</b>
KERN Total	\$ 64,296,123	140,627	<b>38</b>
TEHAMA Total	\$ 4,814,118	10,567	<b>38</b>
MERCED Total	\$ 31,469,386	71,294	<b>37</b>
GLENN Total	\$ 3,051,620	6,973	<b>36</b>
MADERA Total	\$ 9,659,018	23,712	<b>34</b>
KINGS Total	\$ 968,400	2,746	<b>29</b>
SANTA BARBARA Total	\$ 5,976	18	<b>28</b>

PG&E 2019 Residential Gas Customer Class Average Monthly Usage per Customer

<b>2019 - Residential Customer Class - Ranked Highest to Lowest</b>			
County	Average Number of Customers	Average Number of Customers	Average Monthly Usage therm per Customer
TRINITY Total	19,343	29	56
EL DORADO Total	8,730,199	14,614	50
NEVADA Total	5,984,333	10,284	48
MARIN Total	50,918,597	88,107	48
SAN MATEO Total	117,444,696	226,092	43
HUMBOLDT Total	19,778,665	41,619	40
<b>SAN FRANCISCO Total</b>	<b>127,497,840</b>	<b>269,029</b>	<b>39</b>
NAPA Total	20,575,171	43,839	39
CONTRA COSTA Total	175,037,186	378,017	39
SANTA CRUZ Total	32,374,261	70,101	38
SANTA CLARA Total	229,555,407	498,133	38
PLACER Total	54,458,500	118,426	38
MENDOCINO Total	5,664,994	12,385	38
SONOMA Total	69,973,142	153,403	38
SHASTA Total	18,527,230	41,328	37
MONTEREY Total	51,120,188	114,768	37
SACRAMENTO Total	198,992,154	461,181	36
ALAMEDA Total	216,606,754	504,870	36
SUTTER Total	12,555,186	29,613	35
CALAVERAS Total	429,798	1,014	35
AMADOR Total	2,161,365	5,146	35
SAN BENITO Total	6,877,878	16,391	35
SAN LUIS OBISPO Total	135,461	326	35
SAN JOAQUIN Total	88,933,094	219,331	34
SOLANO Total	58,810,100	145,858	34
STANISLAUS Total	62,279,575	155,665	33
COLUSA Total	2,209,331	5,641	33
YOLO Total	25,566,933	66,331	32
FRESNO Total	97,713,875	257,321	32
BUTTE Total	22,561,417	59,719	31
YUBA Total	7,335,404	19,470	31
TEHAMA Total	3,963,316	10,567	31
KERN Total	52,511,991	140,627	31
MERCED Total	25,914,461	71,294	30
GLENN Total	2,505,577	6,973	30
SAN BERNARDINO Total	288,687	830	29
MADERA Total	8,235,837	23,712	29
KINGS Total	897,405	2,746	27
SANTA BARBARA Total	4,943	18	23

Electric Revenue - All Counties 2019

County	Revenue Class	Data		
		Sum of Revenue	Sum of kWh	Sum of Avg Customers
ALAMEDA	Electric, Agricultural	\$ 3,701,157	43,792,059	150
	Electric, Interdepartmental	\$ 4,906,419	27,513,934	-
	Electric, Large Commercial/Industrial	\$ 137,770,130	1,600,401,971	134
	Electric, Streetlighting	\$ 5,933,593	48,754,659	3,772
	Electric, Medium Commercial/Industrial	\$ 447,170,651	3,392,566,325	16,918
	Electric, Master-Metered Residential	\$ 7,669,620	56,324,982	2,503
	Electric, Residential	\$ 374,913,734	2,558,753,269	566,152
	Electric Small Commercial/Industrial	\$ 127,413,234	718,187,212	43,472
Electric Railway	\$ 3,377,755	198,061,243	11	
<b>ALAMEDA Total</b>		<b>\$ 1,112,856,294</b>	<b>8,644,355,656</b>	<b>633,112</b>
ALPINE	Electric, Interdepartmental	\$ 9,028	36,830	-
	Electric, Streetlighting	\$ 2,748	3,229	7
	Electric, Medium Commercial/Industrial	\$ 288,618	1,427,576	11
	Electric, Master-Metered Residential	\$ 2,777	12,578	2
	Electric, Residential	\$ 632,882	2,720,854	583
Electric Small Commercial/Industrial	\$ 328,655	1,400,033	56	
<b>ALPINE Total</b>		<b>\$ 1,264,708</b>	<b>5,601,101</b>	<b>659</b>
AMADOR	Electric, Agricultural	\$ 642,761	2,003,395	234
	Electric, Interdepartmental	\$ 84,255	353,155	-
	Electric, Large Commercial/Industrial	\$ 12,521,541	83,720,564	9
	Electric, Streetlighting	\$ 217,979	524,206	203
	Electric, Medium Commercial/Industrial	\$ 10,674,634	55,428,973	414
	Electric, Master-Metered Residential	\$ 384,284	1,974,621	21
	Electric, Residential	\$ 25,539,211	119,978,126	18,155
	Electric Small Commercial/Industrial	\$ 5,531,889	21,232,332	2,345
<b>AMADOR Total</b>		<b>\$ 55,596,553</b>	<b>285,215,372</b>	<b>21,381</b>
BUTTE	Electric, Agricultural	\$ 19,626,873	65,081,015	2,923
	Electric, Interdepartmental	\$ 310,102	1,410,815	-
	Electric, Large Commercial/Industrial	\$ 15,756,260	105,062,975	12
	Electric, Streetlighting	\$ 916,365	3,045,521	835
	Electric, Medium Commercial/Industrial	\$ 61,435,287	314,070,244	2,474
	Electric, Master-Metered Residential	\$ 1,962,314	10,502,537	171
	Electric, Residential	\$ 107,855,412	523,228,778	81,718
	Electric Small Commercial/Industrial	\$ 28,524,492	115,512,882	9,588
<b>BUTTE Total</b>		<b>\$ 236,387,106</b>	<b>1,137,914,767</b>	<b>97,720</b>
CALAVERAS	Electric, Agricultural	\$ 643,906	2,402,722	198
	Electric, Interdepartmental	\$ 106,168	526,730	-
	Electric, Streetlighting	\$ 108,220	205,188	128
	Electric, Medium Commercial/Industrial	\$ 6,726,460	33,569,108	397
	Electric, Master-Metered Residential	\$ 681,486	3,873,548	49
	Electric, Residential	\$ 36,982,957	171,757,711	27,536
	Electric Small Commercial/Industrial	\$ 5,826,742	23,543,887	2,535
<b>CALAVERAS Total</b>		<b>\$ 51,075,939</b>	<b>235,878,894</b>	<b>30,843</b>
COLUSA	Electric, Agricultural	\$ 24,673,271	106,589,075	1,591
	Electric, Interdepartmental	\$ 17,373,526	137,239,461	-
	Electric, Large Commercial/Industrial	\$ 1,813,494	13,285,895	5
	Electric, Streetlighting	\$ 216,472	513,719	165
	Electric, Medium Commercial/Industrial	\$ 6,841,053	31,642,144	258
	Electric, Master-Metered Residential	\$ 292,391	1,414,841	42
	Electric, Residential	\$ 11,011,586	53,614,401	8,287
	Electric Small Commercial/Industrial	\$ 4,294,180	17,224,416	1,624
<b>COLUSA Total</b>		<b>\$ 66,515,972</b>	<b>361,523,952</b>	<b>11,971</b>
CONTRA COSTA	Electric, Agricultural	\$ 2,355,657	14,124,272	454
	Electric, Interdepartmental	\$ 3,785,799	18,330,258	-
	Electric, Large Commercial/Industrial	\$ 110,196,173	1,071,763,899	76
	Electric, Streetlighting	\$ 7,208,019	30,025,122	3,441
	Electric, Medium Commercial/Industrial	\$ 221,231,707	1,624,541,750	9,347
	Electric, Master-Metered Residential	\$ 5,198,969	37,482,495	859
	Electric, Residential	\$ 420,610,544	2,479,021,195	419,136
	Electric Small Commercial/Industrial	\$ 68,939,359	381,198,840	26,622
Electric Railway	\$ 1,841,646	116,100,464	11	
<b>CONTRA COSTA Total</b>		<b>\$ 841,367,874</b>	<b>5,772,588,296</b>	<b>459,945</b>
EL DORADO	Electric, Agricultural	\$ 369,029	1,454,443	123
	Electric, Interdepartmental	\$ 85,403	399,304	-
	Electric, Large Commercial/Industrial	\$ 7,218,232	41,888,012	7
	Electric, Streetlighting	\$ 536,299	1,591,092	368
	Electric, Medium Commercial/Industrial	\$ 37,993,114	192,437,828	1,644
	Electric, Master-Metered Residential	\$ 880,541	4,890,737	96
	Electric, Residential	\$ 116,566,082	520,788,167	67,489
	Electric Small Commercial/Industrial	\$ 17,763,491	71,086,165	6,011
	ESLSPA	\$ 27,564	130,131	2
<b>EL DORADO Total</b>		<b>\$ 181,439,755</b>	<b>834,665,877</b>	<b>75,741</b>



FRESNO	Electric, Agricultural	\$ 186,825,916	791,710,897	16,321
	Electric, Interdepartmental	\$ 2,179,130	10,135,204	-
	Electric, Large Commercial/Industrial	\$ 120,847,690	983,373,412	107
	Electric, Streetlighting	\$ 6,690,349	25,233,882	3,044
	Electric, Medium Commercial/Industrial	\$ 324,274,360	1,672,819,257	10,446
	Electric, Master-Metered Residential	\$ 5,935,148	32,396,682	739
	Electric, Residential	\$ 452,851,791	2,256,006,449	333,116
	Electric Small Commercial/Industrial ESLSPA	\$ 104,718,144 \$ 1,990,607	416,056,737 10,163,892	29,981 1
FRESNO Total		\$ 1,206,313,133	6,197,896,412	393,755
GLENN	Electric, Agricultural	\$ 18,730,999	63,410,927	1,860
	Electric, Interdepartmental	\$ 32,136	116,374	-
	Electric, Large Commercial/Industrial	\$ 3,875,909	136,240,190	1
	Electric, Streetlighting	\$ 156,021	326,091	133
	Electric, Medium Commercial/Industrial	\$ 8,050,535	39,529,102	323
	Electric, Master-Metered Residential	\$ 153,448	740,002	37
	Electric, Residential	\$ 16,102,842	77,893,003	11,332
	Electric Small Commercial/Industrial	\$ 4,863,323	19,932,218	1,965
GLENN Total		\$ 51,965,214	338,187,906	15,651
HUMBOLDT	Electric, Agricultural	\$ 4,924,991	39,193,350	730
	Electric, Interdepartmental	\$ 970,987	6,769,077	-
	Electric, Large Commercial/Industrial	\$ 4,497,691	50,872,720	9
	Electric, Streetlighting	\$ 610,008	2,118,742	799
	Electric, Medium Commercial/Industrial	\$ 24,449,955	205,892,024	1,413
	Electric, Master-Metered Residential	\$ 1,501,377	11,827,543	464
	Electric, Residential	\$ 49,571,886	341,131,785	57,018
	Electric Small Commercial/Industrial	\$ 14,267,355	84,499,010	7,398
HUMBOLDT Total		\$ 100,794,248	742,304,252	67,830
KERN	Electric, Agricultural	\$ 200,754,196	925,455,860	7,181
	Electric, Interdepartmental	\$ 549,754	2,409,779	-
	Electric, Large Commercial/Industrial	\$ 226,415,074	1,880,767,349	123
	Electric, Streetlighting	\$ 3,128,015	10,510,212	2,079
	Electric, Medium Commercial/Industrial	\$ 268,784,020	1,404,960,194	8,316
	Electric, Master-Metered Residential	\$ 2,758,524	13,937,875	377
	Electric, Residential	\$ 292,661,079	1,461,353,260	222,365
	Electric Small Commercial/Industrial	\$ 69,996,974	279,565,536	18,928
KERN Total		\$ 1,065,047,637	5,978,960,065	259,368
KINGS	Electric, Agricultural	\$ 52,008,687	230,689,241	3,782
	Electric, Interdepartmental	\$ 425,812	2,147,282	-
	Electric, Large Commercial/Industrial	\$ 31,513,767	391,733,221	21
	Electric, Streetlighting	\$ 304,381	923,985	226
	Electric, Medium Commercial/Industrial	\$ 17,059,839	94,043,993	498
	Electric, Master-Metered Residential	\$ 229,856	1,178,757	41
	Electric, Residential	\$ 28,936,992	143,398,206	20,856
	Electric Small Commercial/Industrial	\$ 6,512,611	27,321,207	1,876
KINGS Total		\$ 136,991,946	891,435,891	27,300
LAKE	Electric, Agricultural	\$ 3,246,798	10,477,007	641
	Electric, Interdepartmental	\$ 48,388	200,405	-
	Electric, Large Commercial/Industrial	\$ 1,959,332	10,448,673	6
	Electric, Streetlighting	\$ 265,203	622,438	270
	Electric, Medium Commercial/Industrial	\$ 17,272,933	88,986,812	580
	Electric, Master-Metered Residential	\$ 1,125,475	6,273,054	204
	Electric, Residential	\$ 50,988,736	257,137,658	32,688
	Electric Small Commercial/Industrial	\$ 9,126,556	37,054,710	3,412
LAKE Total		\$ 84,033,421	411,200,758	37,800
LASSEN	Electric, Agricultural	\$ 491,576	1,551,607	67
	Electric, Interdepartmental	\$ 3,613	15,568	-
	Electric, Streetlighting	\$ 2,290	2,544	3
	Electric, Medium Commercial/Industrial	\$ 278,635	1,252,598	11
	Electric, Master-Metered Residential	\$ 26,503	118,552	3
	Electric, Residential	\$ 895,879	4,349,631	661
	Electric Small Commercial/Industrial	\$ 337,425	1,366,153	136
	LASSEN Total		\$ 2,035,921	8,656,654
MADERA	Electric, Agricultural	\$ 88,805,602	364,372,216	5,694
	Electric, Interdepartmental	\$ 1,296,783	7,197,793	-
	Electric, Large Commercial/Industrial	\$ 35,847,971	361,771,199	20
	Electric, Streetlighting	\$ 639,625	2,656,308	438
	Electric, Medium Commercial/Industrial	\$ 40,273,818	201,603,658	1,445
	Electric, Master-Metered Residential	\$ 847,292	4,312,923	109
	Electric, Residential	\$ 72,698,576	365,899,623	51,662
	Electric Small Commercial/Industrial	\$ 17,295,746	70,378,784	5,430
MADERA Total		\$ 257,705,413	1,378,192,503	64,798

MARIN	Electric, Agricultural	\$ 1,159,019	7,589,960	183
	Electric, Interdepartmental	\$ 151,440	666,712	-
	Electric, Large Commercial/Industrial	\$ 5,717,337	59,485,174	9
	Electric, Streetlighting	\$ 636,156	5,105,880	555
	Electric, Medium Commercial/Industrial	\$ 52,750,859	396,934,815	2,449
	Electric, Master-Metered Residential	\$ 2,122,636	12,723,329	687
	Electric, Residential	\$ 102,345,387	589,542,812	106,057
	Electric Small Commercial/Industrial	\$ 26,240,313	149,671,484	12,001
MARIN Total		\$ 191,123,148	1,221,720,166	121,941
MARIPOSA	Electric, Agricultural	\$ 150,835	580,363	46
	Electric, Interdepartmental	\$ 14,193	59,524	-
	Electric, Streetlighting	\$ 33,078	75,674	63
	Electric, Medium Commercial/Industrial	\$ 4,930,894	24,195,899	155
	Electric, Master-Metered Residential	\$ 134,903	677,737	30
	Electric, Residential	\$ 13,476,541	64,034,810	9,919
	Electric Small Commercial/Industrial	\$ 3,104,683	12,278,161	1,302
MARIPOSA Total		\$ 21,845,128	101,902,168	11,516
MENDOCINO	Electric, Agricultural	\$ 2,168,898	9,771,445	641
	Electric, Interdepartmental	\$ 203,081	908,301	-
	Electric, Large Commercial/Industrial	\$ 1,741,498	15,603,953	2
	Electric, Streetlighting	\$ 271,748	706,673	256
	Electric, Medium Commercial/Industrial	\$ 15,683,625	111,913,339	852
	Electric, Master-Metered Residential	\$ 834,339	6,122,792	147
	Electric, Residential	\$ 37,431,361	226,204,854	31,294
		Electric Small Commercial/Industrial	\$ 10,114,693	57,230,593
	ESLSPA	\$ 106,552	292,996	1
MENDOCINO Total		\$ 68,555,796	428,754,945	38,152
MERCED	Electric, Agricultural	\$ 84,193,341	348,084,719	6,701
	Electric, Interdepartmental	\$ 279,020	1,147,749	-
	Electric, Large Commercial/Industrial	\$ 16,539,814	130,443,356	17
	Electric, Streetlighting	\$ 1,266,809	4,244,518	1,208
	Electric, Medium Commercial/Industrial	\$ 40,850,672	203,282,410	1,596
	Electric, Master-Metered Residential	\$ 990,796	5,367,767	152
	Electric, Residential	\$ 96,542,633	501,377,080	72,939
	Electric Small Commercial/Industrial	\$ 19,282,785	87,304,497	6,219
MERCED Total		\$ 259,945,870	1,281,252,097	88,830
MONTEREY	Electric, Agricultural	\$ 68,809,920	492,186,311	3,595
	Electric, Interdepartmental	\$ 268,560	1,120,105	-
	Electric, Large Commercial/Industrial	\$ 26,904,723	288,265,936	40
	Electric, Streetlighting	\$ 1,529,383	7,121,599	1,024
	Electric, Medium Commercial/Industrial	\$ 74,392,300	602,467,952	4,025
	Electric, Master-Metered Residential	\$ 2,811,236	20,869,291	973
	Electric, Residential	\$ 81,878,578	594,613,549	137,232
	Electric Small Commercial/Industrial	\$ 33,783,847	200,947,820	15,494
MONTEREY Total		\$ 290,378,548	2,207,592,563	162,383
NAPA	Electric, Agricultural	\$ 4,753,965	18,755,303	1,762
	Electric, Interdepartmental	\$ 60,147	243,130	-
	Electric, Large Commercial/Industrial	\$ 8,508,057	80,884,193	14
	Electric, Streetlighting	\$ 449,072	2,133,069	354
	Electric, Medium Commercial/Industrial	\$ 49,462,167	389,655,879	1,963
	Electric, Master-Metered Residential	\$ 1,952,692	15,199,989	354
	Electric, Residential	\$ 51,128,730	315,140,997	52,747
	Electric Small Commercial/Industrial	\$ 16,933,923	103,985,544	5,852
NAPA Total		\$ 133,248,752	925,998,104	63,045
NEVADA	Electric, Agricultural	\$ 206,837	722,290	105
	Electric, Interdepartmental	\$ 89,612	389,509	-
	Electric, Streetlighting	\$ 261,454	791,057	254
	Electric, Medium Commercial/Industrial	\$ 16,979,730	88,586,434	784
	Electric, Master-Metered Residential	\$ 1,141,667	6,362,353	84
	Electric, Residential	\$ 61,338,332	283,249,817	38,123
	Electric Small Commercial/Industrial	\$ 12,076,783	45,823,982	4,171
NEVADA Total		\$ 92,094,416	425,925,442	43,522
PLACER	Electric, Agricultural	\$ 1,973,300	10,397,395	541
	Electric, Interdepartmental	\$ 696,978	3,088,003	-
	Electric, Large Commercial/Industrial	\$ 10,713,441	126,202,830	15
	Electric, Streetlighting	\$ 1,152,874	6,141,374	914
	Electric, Medium Commercial/Industrial	\$ 43,315,758	333,863,027	2,972
	Electric, Master-Metered Residential	\$ 1,627,824	14,787,534	148
	Electric, Residential	\$ 106,028,885	667,018,092	92,689
	Electric Small Commercial/Industrial	\$ 18,736,145	109,124,404	8,013
	ESLSPA	\$ 60,062	291,730	1
PLACER Total		\$ 184,305,267	1,270,914,390	105,292

PLUMAS	Electric, Agricultural	\$ 149,522	581,475	28
	Electric, Interdepartmental	\$ 210,085	952,038	-
	Electric, Large Commercial/Industrial	\$ 1,521,854	11,085,078	2
	Electric, Streetlighting	\$ 130,346	340,012	90
	Electric, Medium Commercial/Industrial	\$ 3,498,469	18,801,146	167
	Electric, Master-Metered Residential	\$ 199,958	1,096,022	45
	Electric, Residential	\$ 9,922,072	48,032,163	9,525
Electric Small Commercial/Industrial	\$ 3,342,588	13,431,182	1,391	
PLUMAS Total		\$ 18,974,894	94,319,115	11,248
SACRAMENTO	Electric, Agricultural	\$ 2,030,946	9,038,840	231
	Electric, Interdepartmental	\$ 6,333	21,666	-
	Electric, Streetlighting	\$ 18,468	47,218	23
	Electric, Medium Commercial/Industrial	\$ 1,591,987	7,435,625	68
	Electric, Master-Metered Residential	\$ 335,458	1,721,509	28
	Electric, Residential	\$ 2,346,462	10,813,217	1,573
	Electric Small Commercial/Industrial	\$ 825,301	3,324,621	393
SACRAMENTO Total		\$ 7,154,955	32,402,697	2,314
SAN BENITO	Electric, Agricultural	\$ 9,270,385	78,898,583	672
	Electric, Interdepartmental	\$ 73,490	285,912	-
	Electric, Large Commercial/Industrial	\$ 2,980,775	30,560,390	7
	Electric, Streetlighting	\$ 330,458	841,815	186
	Electric, Medium Commercial/Industrial	\$ 10,495,308	86,825,294	535
	Electric, Master-Metered Residential	\$ 311,380	2,388,239	75
	Electric, Residential	\$ 15,337,791	107,171,819	19,959
Electric Small Commercial/Industrial	\$ 4,971,254	29,513,759	2,333	
SAN BENITO Total		\$ 43,770,842	336,485,811	23,767
SAN FRANCISCO	Electric, Agricultural	\$ 590,821	6,176,983	26
	Electric, Interdepartmental	\$ 4,388,991	23,808,130	-
	Electric, Large Commercial/Industrial	\$ 138,538,739	969,050,541	106
	Electric, Streetlighting	\$ 171,104	1,483,672	288
	Electric, Medium Commercial/Industrial	\$ 221,853,304	1,801,882,690	8,805
	Electric, Master-Metered Residential	\$ 10,806,380	70,782,374	3,627
	Electric, Residential	\$ 198,411,693	1,217,979,067	367,367
	Electric Small Commercial/Industrial	\$ 63,060,580	381,303,515	25,571
Electric Railway	\$ 1,106,052	73,644,593	1	
SAN FRANCISCO Total		\$ 638,927,665	4,546,111,564	405,790
SAN JOAQUIN	Electric, Agricultural	\$ 75,587,288	297,466,240	8,072
	Electric, Interdepartmental	\$ 3,482,290	18,369,410	-
	Electric, Large Commercial/Industrial	\$ 103,715,509	883,412,002	83
	Electric, Streetlighting	\$ 4,419,299	20,656,789	2,365
	Electric, Medium Commercial/Industrial	\$ 226,945,241	1,164,862,945	6,889
	Electric, Master-Metered Residential	\$ 3,862,052	21,080,901	353
	Electric, Residential	\$ 295,000,307	1,438,999,409	213,237
Electric Small Commercial/Industrial	\$ 58,223,749	234,613,926	17,092	
SAN JOAQUIN Total		\$ 771,235,735	4,079,461,624	248,091
SAN LUIS OBISPO	Electric, Agricultural	\$ 26,361,680	105,985,411	2,891
	Electric, Interdepartmental	\$ 368,931	1,615,459	-
	Electric, Large Commercial/Industrial	\$ 15,529,766	147,251,249	10
	Electric, Streetlighting	\$ 1,674,546	3,958,326	965
	Electric, Medium Commercial/Industrial	\$ 93,094,708	478,838,017	3,859
	Electric, Master-Metered Residential	\$ 3,705,617	18,855,619	410
	Electric, Residential	\$ 118,668,293	525,838,855	117,691
Electric Small Commercial/Industrial	\$ 44,911,144	169,215,341	15,029	
SAN LUIS OBISPO Total		\$ 304,314,685	1,451,558,276	140,854
SAN MATEO	Electric, Agricultural	\$ 3,019,679	26,655,652	268
	Electric, Interdepartmental	\$ 475,701	2,090,085	-
	Electric, Large Commercial/Industrial	\$ 40,140,785	448,198,426	62
	Electric, Streetlighting	\$ 2,288,623	19,148,305	1,618
	Electric, Medium Commercial/Industrial	\$ 206,718,819	1,789,431,768	7,322
	Electric, Master-Metered Residential	\$ 4,773,316	34,689,299	1,051
	Electric, Residential	\$ 210,727,383	1,387,030,489	276,065
	Electric Small Commercial/Industrial	\$ 52,865,820	327,204,348	20,352
Electric Railway	\$ 919,018	53,074,181	5	
SAN MATEO Total		\$ 521,929,145	4,087,522,553	306,742
SANTA BARBARA	Electric, Agricultural	\$ 41,179,275	180,386,366	1,900
	Electric, Interdepartmental	\$ 49,187	220,156	-
	Electric, Large Commercial/Industrial	\$ 45,549,805	343,839,491	22
	Electric, Streetlighting	\$ 1,311,050	4,211,907	443
	Electric, Medium Commercial/Industrial	\$ 58,285,836	305,173,654	1,977
	Electric, Master-Metered Residential	\$ 2,382,065	12,058,270	172
	Electric, Residential	\$ 54,034,296	250,888,564	56,628
Electric Small Commercial/Industrial	\$ 22,694,260	92,456,061	6,747	
SANTA BARBARA Total		\$ 225,485,773	1,189,234,469	67,890

SANTA CLARA	Electric, Agricultural	\$ 8,651,645	61,217,948	948
	Electric, Interdepartmental	\$ 800,249	3,704,953	-
	Electric, Large Commercial/Industrial	\$ 216,142,832	3,070,436,758	205
	Electric, Streetlighting	\$ 6,201,547	52,891,871	3,473
	Electric, Medium Commercial/Industrial	\$ 498,054,113	4,101,430,424	17,784
	Electric, Master-Metered Residential	\$ 16,097,412	110,052,727	1,710
	Electric, Residential	\$ 461,170,743	3,047,443,279	586,539
Electric Small Commercial/Industrial	\$ 115,225,859	612,206,771	36,568	
SANTA CLARA Total		\$ 1,322,344,399	11,059,384,731	647,228
SANTA CRUZ	Electric, Agricultural	\$ 8,124,239	57,712,090	791
	Electric, Interdepartmental	\$ 90,666	412,770	-
	Electric, Large Commercial/Industrial	\$ 6,790,702	60,845,819	12
	Electric, Streetlighting	\$ 860,057	3,660,043	609
	Electric, Medium Commercial/Industrial	\$ 39,430,868	326,390,288	2,246
	Electric, Master-Metered Residential	\$ 3,657,477	28,147,312	1,512
	Electric, Residential	\$ 66,197,123	457,240,276	93,233
Electric Small Commercial/Industrial	\$ 21,301,292	130,069,629	9,558	
SANTA CRUZ Total		\$ 146,452,424	1,064,478,227	107,960
SHASTA	Electric, Agricultural	\$ 2,346,703	8,274,699	385
	Electric, Interdepartmental	\$ 447,456	2,225,811	-
	Electric, Large Commercial/Industrial	\$ 4,450,050	77,447,538	7
	Electric, Streetlighting	\$ 219,553	629,617	265
	Electric, Medium Commercial/Industrial	\$ 16,575,631	83,964,543	688
	Electric, Master-Metered Residential	\$ 738,507	4,074,992	108
	Electric, Residential	\$ 57,595,311	271,993,119	33,235
Electric Small Commercial/Industrial	\$ 9,604,569	38,276,321	3,591	
SHASTA Total		\$ 91,977,780	486,886,640	38,279
SIERRA	Electric, Interdepartmental	\$ 42,066	216,821	-
	Electric, Streetlighting	\$ 15,357	21,254	24
	Electric, Medium Commercial/Industrial	\$ 183,847	835,190	9
	Electric, Master-Metered Residential	\$ 611	2,904	2
	Electric, Residential	\$ 816,300	3,801,710	984
	Electric Small Commercial/Industrial	\$ 354,204	1,422,741	166
SIERRA Total		\$ 1,412,385	6,300,621	1,185
SISKIYOU	Electric, Medium Commercial/Industrial	\$ 5,777	20,268	1
	Electric, Residential	\$ 31,722	150,202	40
	Electric Small Commercial/Industrial	\$ 50,761	202,627	13
SISKIYOU Total		\$ 88,260	373,098	54
SOLANO	Electric, Agricultural	\$ 15,999,454	68,066,884	1,443
	Electric, Interdepartmental	\$ 2,476,032	15,464,617	-
	Electric, Large Commercial/Industrial	\$ 69,862,818	632,444,951	61
	Electric, Streetlighting	\$ 2,697,493	12,723,896	1,085
	Electric, Medium Commercial/Industrial	\$ 119,815,227	635,208,854	3,885
	Electric, Master-Metered Residential	\$ 3,740,431	19,210,581	306
	Electric, Residential	\$ 187,572,333	902,969,948	159,431
Electric Small Commercial/Industrial	\$ 40,730,481	170,301,047	11,786	
SOLANO Total		\$ 442,894,269	2,456,390,778	177,996
SONOMA	Electric, Agricultural	\$ 11,225,128	62,434,483	2,979
	Electric, Interdepartmental	\$ 446,412	1,839,212	-
	Electric, Large Commercial/Industrial	\$ 16,512,266	210,432,471	27
	Electric, Streetlighting	\$ 1,879,808	11,244,261	1,697
	Electric, Medium Commercial/Industrial	\$ 109,525,232	863,952,370	5,972
	Electric, Master-Metered Residential	\$ 5,728,115	43,028,787	982
Electric, Residential	\$ 164,251,761	1,077,972,410	191,284	
Electric Small Commercial/Industrial	\$ 45,699,596	269,306,179	20,757	
SONOMA Total		\$ 355,268,318	2,540,210,173	223,699
STANISLAUS	Electric, Agricultural	\$ 23,051,210	90,520,815	1,701
	Electric, Interdepartmental	\$ 25,702	102,063	-
	Electric, Large Commercial/Industrial	\$ 4,770,042	39,502,503	6
	Electric, Streetlighting	\$ 419,098	1,404,868	404
	Electric, Medium Commercial/Industrial	\$ 13,805,337	68,388,287	584
	Electric, Master-Metered Residential	\$ 213,604	1,063,588	47
	Electric, Residential	\$ 33,653,499	159,955,076	21,716
Electric Small Commercial/Industrial	\$ 6,526,535	27,458,764	2,146	
STANISLAUS Total		\$ 82,465,026	388,395,964	26,604
SUTTER	Electric, Agricultural	\$ 20,273,132	76,763,850	2,827
	Electric, Interdepartmental	\$ 62,838	265,271	-
	Electric, Large Commercial/Industrial	\$ 4,442,568	28,958,366	7
	Electric, Streetlighting	\$ 542,049	1,591,081	493
	Electric, Medium Commercial/Industrial	\$ 27,971,871	144,601,684	949
	Electric, Master-Metered Residential	\$ 351,663	1,884,919	62
	Electric, Residential	\$ 47,106,687	225,980,838	34,778
Electric Small Commercial/Industrial	\$ 12,631,679	49,535,061	4,332	
SUTTER Total		\$ 113,382,487	529,581,071	43,448

TEHAMA	Electric, Agricultural	\$ 11,478,179	38,962,614	1,531
	Electric, Interdepartmental	\$ 304,124	1,653,539	-
	Electric, Large Commercial/Industrial	\$ 9,224,627	75,838,763	8
	Electric, Streetlighting	\$ 246,167	627,188	208
	Electric, Medium Commercial/Industrial	\$ 17,359,595	91,688,701	548
	Electric, Master-Metered Residential	\$ 1,061,560	5,811,139	76
	Electric, Residential	\$ 42,231,305	207,435,849	27,477
Electric Small Commercial/Industrial	\$ 8,607,633	32,439,809	3,181	
TEHAMA Total		\$ 90,513,191	454,457,602	33,030
TRINITY	Electric, Agricultural	\$ 30,911	133,477	5
	Electric, Streetlighting	\$ 1,459	5,026	5
	Electric, Medium Commercial/Industrial	\$ 125,119	533,331	12
	Electric, Master-Metered Residential	\$ 12,679	60,804	6
	Electric, Residential	\$ 2,128,733	9,336,628	1,450
	Electric Small Commercial/Industrial	\$ 506,904	2,078,500	210
TRINITY Total		\$ 2,805,805	12,147,766	1,688
TULARE	Electric, Agricultural	\$ 44,018,845	200,987,878	4,900
	Electric, Interdepartmental	\$ 44,527	179,245	-
	Electric, Large Commercial/Industrial	\$ 2,600,054	32,119,849	1
	Electric, Streetlighting	\$ 303,558	707,637	156
	Electric, Medium Commercial/Industrial	\$ 12,939,297	62,759,824	401
	Electric, Master-Metered Residential	\$ 320,355	1,604,128	54
	Electric, Residential	\$ 20,910,006	110,737,323	16,264
Electric Small Commercial/Industrial	\$ 5,510,761	22,620,480	1,616	
TULARE Total		\$ 86,647,404	431,716,363	23,392
TUOLUMNE	Electric, Agricultural	\$ 691,431	3,259,592	111
	Electric, Interdepartmental	\$ 93,105	425,538	-
	Electric, Large Commercial/Industrial	\$ 5,123,821	32,956,595	5
	Electric, Streetlighting	\$ 213,968	584,869	319
	Electric, Medium Commercial/Industrial	\$ 14,969,285	83,518,856	543
	Electric, Master-Metered Residential	\$ 923,377	5,024,768	64
	Electric, Residential	\$ 39,322,075	188,431,826	30,348
Electric Small Commercial/Industrial	\$ 8,091,021	32,072,661	3,303	
TUOLUMNE Total		\$ 69,428,083	346,274,705	34,692
UNINCORPORATED	Electric, Agricultural	\$ 37	(247)	0
	Electric, Interdepartmental	\$ -	352	-
	Electric, Large Commercial/Industrial	\$ -	91	-
	Electric, Streetlighting	\$ -	1,175	-
	Electric, Medium Commercial/Industrial	\$ 10,059	43,726	1
	Electric, Master-Metered Residential	\$ -	2,916	-
	Electric, Residential	\$ 140	59,617	1
	Electric Small Commercial/Industrial	\$ (7,047)	(35,651)	(8)
ESLSRS	\$ 1,462,736,215	-	-	
UNINCORPORATED Total		\$ 1,462,739,403	71,979	(6)
YOLO	Electric, Agricultural	\$ 24,489,931	146,536,959	2,275
	Electric, Interdepartmental	\$ 807,625	3,527,468	-
	Electric, Large Commercial/Industrial	\$ 20,639,901	157,001,789	25
	Electric, Streetlighting	\$ 1,092,696	5,230,610	629
	Electric, Medium Commercial/Industrial	\$ 72,938,694	466,830,678	2,452
	Electric, Master-Metered Residential	\$ 1,586,818	9,872,888	144
	Electric, Residential	\$ 70,244,598	433,522,855	79,716
Electric Small Commercial/Industrial	\$ 21,980,525	105,824,055	6,890	
YOLO Total		\$ 213,780,788	1,328,347,301	92,130
YUBA	Electric, Agricultural	\$ 6,702,960	22,345,282	1,165
	Electric, Interdepartmental	\$ 168,745	769,684	-
	Electric, Large Commercial/Industrial	\$ 4,561,764	27,425,570	4
	Electric, Streetlighting	\$ 478,675	1,252,953	296
	Electric, Medium Commercial/Industrial	\$ 17,438,029	89,588,236	533
	Electric, Master-Metered Residential	\$ 419,654	2,327,529	53
	Electric, Residential	\$ 37,780,628	187,222,855	28,011
Electric Small Commercial/Industrial	\$ 7,955,927	30,532,736	2,504	
YUBA Total		\$ 75,506,382	361,464,845	32,566
Grand Total		\$ 13,782,388,156	78,372,216,205	5,524,075

Gas Revenue - All Counties 2019

		Data		
County	Revenue Class	Sum of Revenue	Sum of Therms	Sum of Avg Customers
		ALAMEDA	Gas Residential Master Metered	\$ 28,184,937
	Gas Residential Individually Metered	\$ 260,420,591	192,462,317	495,335
ALAMEDA Total		\$ 288,605,528	216,606,754	504,870
AMADOR	Gas Residential Master Metered	\$ 67,551	82,560	23
	Gas Residential Individually Metered	\$ 2,820,193	2,078,805	5,123
AMADOR Total		\$ 2,887,744	2,161,365	5,146
BUTTE	Gas Residential Master Metered	\$ 923,543	1,053,214	440
	Gas Residential Individually Metered	\$ 27,935,249	21,508,203	59,278
BUTTE Total		\$ 28,858,792	22,561,417	59,719
CALAVERAS	Gas Residential Master Metered	\$ 49,047	52,854	5
	Gas Residential Individually Metered	\$ 478,096	376,944	1,010
CALAVERAS Total		\$ 527,143	429,798	1,014
COLUSA	Gas Residential Master Metered	\$ 41,053	50,562	27
	Gas Residential Individually Metered	\$ 2,677,885	2,158,769	5,614
COLUSA Total		\$ 2,718,937	2,209,331	5,641
CONTRA COSTA	Gas Residential Master Metered	\$ 10,466,570	9,017,875	3,695
	Gas Residential Individually Metered	\$ 231,857,476	166,019,312	374,322
CONTRA COSTA Total		\$ 242,324,046	175,037,186	378,017
EL DORADO	Gas Residential Master Metered	\$ 8,148	7,450	9
	Gas Residential Individually Metered	\$ 13,589,678	8,722,749	14,605
EL DORADO Total		\$ 13,597,827	8,730,199	14,614
FRESNO	Gas Residential Master Metered	\$ 3,898,084	3,546,648	911
	Gas Residential Individually Metered	\$ 118,429,554	94,167,228	256,411
FRESNO Total		\$ 122,327,638	97,713,875	257,321
GLENN	Gas Residential Master Metered	\$ 21,183	23,495	18
	Gas Residential Individually Metered	\$ 3,030,437	2,482,082	6,955
GLENN Total		\$ 3,051,620	2,505,577	6,973
HUMBOLDT	Gas Residential Master Metered	\$ 906,557	929,201	327
	Gas Residential Individually Metered	\$ 25,197,648	18,849,464	41,292
HUMBOLDT Total		\$ 26,104,206	19,778,665	41,619
KERN	Gas Residential Master Metered	\$ 1,976,844	1,669,121	458
	Gas Residential Individually Metered	\$ 62,319,279	50,842,870	140,168
KERN Total		\$ 64,296,123	52,511,991	140,627
KINGS	Gas Residential Master Metered	\$ 2,670	1,773	3
	Gas Residential Individually Metered	\$ 965,730	895,632	2,743
KINGS Total		\$ 968,400	897,405	2,746
MADERA	Gas Residential Master Metered	\$ 148,178	142,553	68
	Gas Residential Individually Metered	\$ 9,510,840	8,093,284	23,644
MADERA Total		\$ 9,659,018	8,235,837	23,712
MARIN	Gas Residential Master Metered	\$ 4,907,265	3,825,411	1,640
	Gas Residential Individually Metered	\$ 70,754,419	47,093,186	86,467
MARIN Total		\$ 75,661,684	50,918,597	88,107

MENDOCINO	Gas Residential Master Metered	\$ 157,891	184,814	46
	Gas Residential Individually Metered	\$ 7,279,475	5,480,180	12,339
MENDOCINO Total		\$ 7,437,366	5,664,994	12,385
MERCED	Gas Residential Master Metered	\$ 562,869	640,558	206
	Gas Residential Individually Metered	\$ 30,906,517	25,273,904	71,087
MERCED Total		\$ 31,469,386	25,914,461	71,294
MONTEREY	Gas Residential Master Metered	\$ 4,227,340	3,867,205	1,541
	Gas Residential Individually Metered	\$ 62,589,535	47,252,983	113,227
MONTEREY Total		\$ 66,816,875	51,120,188	114,768
NAPA	Gas Residential Master Metered	\$ 1,688,259	1,749,242	661
	Gas Residential Individually Metered	\$ 26,092,579	18,825,929	43,179
NAPA Total		\$ 27,780,838	20,575,171	43,839
NEVADA	Gas Residential Master Metered	\$ 373,534	353,769	57
	Gas Residential Individually Metered	\$ 7,975,839	5,630,564	10,227
NEVADA Total		\$ 8,349,373	5,984,333	10,284
PLACER	Gas Residential Master Metered	\$ 1,212,742	1,281,600	429
	Gas Residential Individually Metered	\$ 76,946,479	53,176,900	117,998
PLACER Total		\$ 78,159,221	54,458,500	118,426
SACRAMENTO	Gas Residential Master Metered	\$ 15,164,537	13,395,298	4,874
	Gas Residential Individually Metered	\$ 255,793,494	185,596,857	456,307
SACRAMENTO Total		\$ 270,958,031	198,992,154	461,181
SAN BENITO	Gas Residential Master Metered	\$ 139,193	162,244	69
	Gas Residential Individually Metered	\$ 8,824,849	6,715,634	16,322
SAN BENITO Total		\$ 8,964,042	6,877,878	16,391
SAN BERNARDINO	Gas Residential Individually Metered	\$ 386,209	288,687	830
SAN BERNARDINO Total		\$ 386,209	288,687	830
SAN FRANCISCO	Gas Residential Master Metered	\$ 51,956,404	41,529,011	12,031
	Gas Residential Individually Metered	\$ 118,944,294	85,968,830	256,998
SAN FRANCISCO Total		\$ 170,900,698	127,497,840	269,029
SAN JOAQUIN	Gas Residential Master Metered	\$ 3,218,790	3,191,802	1,389
	Gas Residential Individually Metered	\$ 110,577,154	85,741,292	217,942
SAN JOAQUIN Total		\$ 113,795,944	88,933,094	219,331
SAN LUIS OBISPO	Gas Residential Individually Metered	\$ 176,598	135,461	326
SAN LUIS OBISPO Total		\$ 176,598	135,461	326
SAN MATEO	Gas Residential Master Metered	\$ 15,731,023	13,007,853	4,966
	Gas Residential Individually Metered	\$ 151,154,818	104,436,842	221,126
SAN MATEO Total		\$ 166,885,842	117,444,696	226,092
SANTA BARBARA	Gas Residential Individually Metered	\$ 5,976	4,943	18
SANTA BARBARA Total		\$ 5,976	4,943	18
SANTA CLARA	Gas Residential Master Metered	\$ 34,047,679	30,310,603	11,229
	Gas Residential Individually Metered	\$ 277,471,993	199,244,805	486,904
SANTA CLARA Total		\$ 311,519,672	229,555,407	498,133
SANTA CRUZ	Gas Residential Master Metered	\$ 3,462,795	3,326,788	1,552
	Gas Residential Individually Metered	\$ 39,560,780	29,047,473	68,549
SANTA CRUZ Total		\$ 43,023,574	32,374,261	70,101
SHASTA	Gas Residential Master Metered	\$ 601,901	734,888	205
	Gas Residential Individually Metered	\$ 24,536,704	17,792,342	41,123
SHASTA Total		\$ 25,138,605	18,527,230	41,328

SOLANO	Gas Residential Master Metered	\$ 2,884,544	2,862,716	1,166
	Gas Residential Individually Metered	\$ 73,734,321	55,947,384	144,692
SOLANO Total		\$ 76,618,865	58,810,100	145,858
SONOMA	Gas Residential Master Metered	\$ 4,454,069	4,688,298	1,308
	Gas Residential Individually Metered	\$ 89,195,191	65,284,844	152,095
SONOMA Total		\$ 93,649,259	69,973,142	153,403
STANISLAUS	Gas Residential Master Metered	\$ 1,459,995	1,410,824	549
	Gas Residential Individually Metered	\$ 80,228,072	60,868,751	155,116
STANISLAUS Total		\$ 81,688,067	62,279,575	155,665
SUTTER	Gas Residential Master Metered	\$ 610,490	528,721	219
	Gas Residential Individually Metered	\$ 15,641,500	12,026,465	29,394
SUTTER Total		\$ 16,251,990	12,555,186	29,613
TEHAMA	Gas Residential Master Metered	\$ 182,878	208,967	40
	Gas Residential Individually Metered	\$ 4,631,240	3,754,349	10,528
TEHAMA Total		\$ 4,814,118	3,963,316	10,567
TRINITY	Gas Residential Master Metered	\$ 6,843	4,022	1
	Gas Residential Individually Metered	\$ 18,370	15,321	28
TRINITY Total		\$ 25,213	19,343	29
UNINCORPORATED	Gas Residential Master Metered	\$ -	11,677	-
	Gas Residential Individually Metered	\$ (42)	115,342	0
UNINCORPORATED Total		\$ (42)	127,019	0
YOLO	Gas Residential Master Metered	\$ 1,991,132	1,911,405	638
	Gas Residential Individually Metered	\$ 31,481,152	23,655,528	65,693
YOLO Total		\$ 33,472,284	25,566,933	66,331
YUBA	Gas Residential Master Metered	\$ 288,706	281,158	93
	Gas Residential Individually Metered	\$ 8,672,796	7,054,246	19,377
YUBA Total		\$ 8,961,502	7,335,404	19,470
Grand Total		\$ 2,528,838,211	1,885,277,315	4,284,815



## **EXHIBIT C**

**January 14, 2019 Mayor London N. Breed letter to Harlan L. Kelly**



January 14, 2019

Harlan L. Kelly Jr., General Manager  
San Francisco Public Utilities Commission  
525 Golden Gate Avenue, 13<sup>th</sup> Floor  
San Francisco, CA 94102

General Manager Kelly,

Over the past several years, a series of troubling issues have raised significant questions about the future of Pacific Gas & Electric (PG&E). The recent tragedies of the Northern California wildfires, departures of PG&E's Chief Executive Officer and senior executives, and the company's movement towards bankruptcy raise serious concerns about their ability to safely and reliably deliver services essential to the people of San Francisco.

The City, through the San Francisco Public Utilities Commission (SFPUC), has a proven 100-year track record of responsibly managing a large-scale power system that delivers clean Hetch Hetchy power. Yet, we rely on PG&E infrastructure to transmit and distribute energy to our customers. We must also work with PG&E to transmit and distribute energy available through our CleanPowerSF program, which by next April is set to have more than 360,000 accounts enrolled throughout San Francisco.

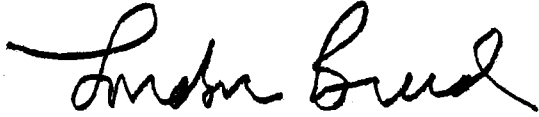
San Francisco will not continue to be a global economic leader without a dependable and clean power grid. We also need a dependable grid to meet our City's aggressive climate goals, which include transitioning our buildings and transportation sectors off dirty fossil fuels. I believe San Franciscans share these views as evident by their approval of Proposition A in June 2018. This measure now allows the SFPUC to issue revenue bonds for facilities to produce and deliver clean power, creating thousands of well-paying union jobs in the process.

With these considerations in mind, I am requesting that the SFPUC prepare for the potential ramifications of PG&E's current instability by performing a detailed analysis of the current health of the electrical network and a robust feasibility study on the various potential outcomes, along with engaging with the appropriate state legislative and regulatory bodies. The analysis should evaluate all options, including the possibility of acquiring or building electrical infrastructure assets.

Within the next three months, I request that the agency issue a preliminary report on its findings along with a timeline for completing the more detailed analysis and recommendations. I look forward to seeing the results of this work and collaborating with the SFPUC, the City Attorney's

Office, and our Board of Supervisors on this critical and urgent issue.

Sincerely,

A handwritten signature in black ink, reading "London Breed". The signature is written in a cursive, flowing style with a large initial 'L' and 'B'.

London N. Breed  
Mayor

**EXHIBIT D**

**March 14, 2019 Mayor London N. Breed and**

**City Attorney Dennis J. Herrera**

**letter to PG&E**

OFFICE OF THE MAYOR  
SAN FRANCISCO



OFFICE OF THE CITY ATTORNEY  
SAN FRANCISCO

LONDON N. BREED  
MAYOR

DENNIS J. HERRERA  
CITY ATTORNEY

March 14, 2019

VIA ELECTRONIC MAIL AND USPS

John R. Simon  
Interim Chief Executive Officer  
PG&E Corporation  
77 Beale Street, P.O. Box 770000  
San Francisco, CA 94177

Jason P. Wells  
Senior Vice-President and Chief Financial Officer  
PG&E Corporation  
77 Beale Street, P.O. Box 770000  
San Francisco, CA 94177

Dear Mr. Simon and Mr. Wells,

The City and County of San Francisco (the "City") has initiated work to evaluate the cost and feasibility of acquiring PG&E's electric distribution facilities that serve San Francisco. While you have probably heard public reports about this effort, we write you directly to underscore the seriousness of our purpose and facilitate lines of communication going forward.

The analysis the City is undertaking will enable us to make an initial determination whether such an acquisition is feasible, including whether it would benefit City taxpayers and electric customers, produce a fair price to PG&E for these assets, and advantage PG&E's employees and its ratepayers outside of San Francisco. We will work with the City's Board of Supervisors and Public Utilities Commission to evaluate these factors. If we determine the acquisition is feasible, we intend for the City to make a formal offer to PG&E within the coming months as part of the bankruptcy process.

Please contact us if you would like to discuss this matter.

Very truly yours,

A handwritten signature in blue ink that reads "London N. Breed".

London N. Breed, Mayor

A handwritten signature in blue ink that reads "Dennis J. Herrera".

Dennis J. Herrera, City Attorney

cc: Janet C. Loduca, Senior Vice-President and Interim General Counsel, PG&E Corporation  
Members, Board of Supervisors  
Members, Public Utilities Commission  
Harlan Kelly, General Manager, Public Utilities Commission

**EXHIBIT E**

**Board Resolution 174-19**

1 [Requesting the San Francisco Public Utilities Commission to Report on Options for Improving  
2 Electric Service through Acquisition, Construction, or Completion of Public Utility]

3 **Resolution determining that the public interest and necessity require changing the**  
4 **electric service provided in San Francisco; and requesting a report from the San**  
5 **Francisco Public Utilities Commission, under Charter, Section 16.101, on options for**  
6 **improving electric service in San Francisco through acquisition, construction or**  
7 **completion of public utility or utilities.**

8  
9 WHEREAS, The Board of Supervisors seeks to ensure reliable, safe, affordable, clean  
10 electric service to all customers in San Francisco from a utility that is responsive to the needs  
11 of its customers; and

12 WHEREAS, Pacific Gas & Electric Company's (PG&E) history raises questions about  
13 whether the utility has the ability and commitment to provide such service; recent examples  
14 that cause concern include the following:

- 15  
16 i. PG&E's safety violations in its electric and gas operations have caused  
17 significant suffering, loss of life, and damage to property;
- 18 ii. PG&E's repeated failure to meet the obligations and manage the risks of its  
19 business while remaining financially healthy, as demonstrated by PG&E's  
20 current voluntary bankruptcy, its voluntary bankruptcy in 2001, and the  
21 bankruptcies of several affiliates in 2003;
- 22 iii. PG&E's failure to provide safe and reliable electric service in San Francisco over  
23 many years, including a major power outage in December 1998, three fires at  
24 the Mission Substation between 1996 and 2003, and several incidents of  
25 underground explosions throughout the City;

- 1           iv.   PG&E's primary focus on financial performance and public image and its failure  
2           to develop an effective safety culture, as found in two reports prepared for the  
3           California Public Utilities Commission;
- 4           v.    PG&E's retail rate increases that make its electric service among the most  
5           expensive in the nation, with more increases expected as a result of the  
6           bankruptcy; and
- 7           vi.   PG&E's consistent use of its monopoly status to delay, prevent, and increase  
8           the cost of the wholesale service it is required to provide to the City under a tariff  
9           approved by the Federal Energy Regulatory Commission, resulting in service  
10          delays and increased costs to critical City facilities—including public schools,  
11          affordable housing, health care facilities, streetlights and traffic controls, the  
12          Port, and basic city infrastructure—and the disruption of services provided to the  
13          public; and

14

15           WHEREAS, Article XI, Section 9 of the California Constitution grants cities the right to  
16           supply electricity if they choose to do so; and

17           WHEREAS, The City has been operating an electric utility since 1918, and has  
18           considered several times expanding service to all customers in San Francisco, as envisioned  
19           by the Raker Act (Pub. L. No 41, 38 Stat. 242 1913), which granted the City the right to  
20           develop the Hetch Hetchy clean water and hydropower resources for the benefit of the people  
21           of San Francisco; and

22           WHEREAS, For more than 100 years, San Francisco has been producing 100%  
23           greenhouse gas-free electricity to power our essential city services: hospitals, parks, schools,  
24           airport, public housing, and other city properties; and

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1           WHEREAS, In 2016, despite years of opposition funded by PG&E, San Francisco  
2 launched CleanPowerSF, to provide clean renewable energy to residents and businesses,  
3 another incremental step toward energy independence; and

4           WHEREAS, According to climate scientists, we must take immediate steps to make the  
5 difference between catastrophe and a clean new future and cut carbon pollution in half within  
6 11 years; and

7           WHEREAS, The electric power sector is the largest contributor to U.S. global warming  
8 emissions and currently accounts for approximately one-third of the nation's total emissions.  
9 Natural gas, while producing lower emissions than coal or oil when used, nonetheless  
10 generates high levels of air pollution and other environmental impacts through extraction and  
11 production; and

12           WHEREAS, In a January 14, 2019 letter, on file with the Clerk of the Board of  
13 Supervisors in File No. 190367, Mayor Breed asked the San Francisco Public Utilities  
14 Commission (SFPUC) to evaluate in a preliminary report all options for changing how electric  
15 service is provided to ensure a safe, clean and dependable power grid; and

16           WHEREAS, Section 16.101 of the Charter states: "It is the declared purpose and  
17 intention of the people of the City and County, when public interest and necessity demand,  
18 that public utilities shall be gradually acquired and ultimately owned by the City and County.  
19 Whenever the Board of Supervisors, as provided in Sections 9.106, 9.107 and 9.108 of this  
20 Charter, shall determine that the public interest or necessity demands the acquisition,  
21 construction or completion of any public utility or utilities by the City and County, or whenever  
22 the electors shall petition the Board of Supervisors, as provided in Sections 9.110 and 14.101  
23 of this Charter, for the acquisition of any public utility or utilities, the Supervisors must procure  
24 a report from the Public Utilities Commission thereon"; now, therefore, be it  
25

1 RESOLVED, That the Board of Supervisors determines that the public interest and  
2 necessity require changing the electric service provided in San Francisco, and these changes  
3 may include the acquisition of PG&E's electrical system serving San Francisco, construction  
4 of new facilities by the City, or completion of the City's own electric system; and, be it

5 FURTHER RESOLVED, That the Board of Supervisors requests a report from the  
6 SFPUC within 45 days of this Resolution to help City policymakers and the public understand  
7 and evaluate the City's options.

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**City and County of San Francisco**  
**Tails**  
**Resolution**

City Hall  
1 Dr. Carlton B. Goodlett Place  
San Francisco, CA 94102-4689

**File Number:** 190367

**Date Passed:** April 09, 2019


Resolution determining that the public interest and necessity require changing the electric service provided in San Francisco; and requesting a report from the San Francisco Public Utilities Commission, under Charter, Section 16.101, on options for improving electric service in San Francisco through acquisition, construction or completion of public utility or utilities.

April 09, 2019 Board of Supervisors - ADOPTED

Ayes: 10 - Brown, Fewer, Haney, Mandelman, Peskin, Ronen, Safai, Stefani,  
Walton and Yee  
Absent: 1 - Mar

File No. 190367

I hereby certify that the foregoing  
Resolution was ADOPTED on 4/9/2019 by  
the Board of Supervisors of the City and  
County of San Francisco.

  
\_\_\_\_\_  
Angela Calvillo  
Clerk of the Board

  
\_\_\_\_\_  
London N. Breed  
Mayor

  
\_\_\_\_\_  
Date Approved