

September 3, 2020

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 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." The SFPUC provides retail electric service from our Hetch Hetchy Power public utility to over 4,000 accounts, relying on our Hetch Hetchy generation for supply and purchased distribution service 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 FERC.

REPORT SUMMARY:

For the reporting period of April through August 2020, the SFPUC has identified 78 projects that have experienced interconnection delays, arbitrary requests for additional and/or unnecessary information, or increased project costs, as listed in **Attachment A**. Since the last quarterly report, 8 projects have been added and 10 projects have been energized.

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General Manager



Any 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 projects that are at a standstill as those costs are still to be determined.

ONGOING ELECTRICAL INTERCONNECTION ISSUES:

Since the SFPUC submitted the first of these reports in October 2018, PG&E's treatment of City projects has not changed. The City continues to face major delays in PG&E's processing of its interconnection requests with PG&E. In addition, PG&E continues to require City projects to install oversized and cost prohibitive equipment without any regulatory, technical, safety or reliability justification.

Last quarter's report summarized the types of ongoing interconnection issues between the City and PG&E. Below is an update on these categories of disputes. Even though PG&E staff has been meeting with SFPUC staff on a weekly basis, there has been no movement on any of these issues.

1. ***Delay tactics and cancellations stall City projects:*** PG&E continues to delay City projects. Even for projects in which the City and PG&E agree on the service size, PG&E continues to ignore the WDT's timelines and terms set forth. There are at least three projects in which the City applied for primary service that have been delayed for over a year due to PG&E missing WDT deadlines.
2. ***Denial of City's requested capacity for interconnected load impacts essential City services:*** There has been no movement on projects in which PG&E is refusing to accept the City's requested interconnection capacity. The HOPE Affordable Housing Redevelopment projects remain at a standstill due to this issue.
3. ***Primary equipment requirements for small projects increase costs for the City:*** PG&E continues to require primary service for projects with load sizes that would normally be served by secondary service pursuant to PG&E's own technical guidelines, and as allowed under the WDT. The requirement that the City install primary service imposes major increases in costs, requires the City to install facilities that take up space that would otherwise be used for housing units or other uses specific to the project, leads to 'overbuilding' of the grid in San Francisco, and, in some cases, introduces safety concerns related to siting large electrical

equipment where it is not needed. PG&E cannot justify these requirements on technical, safety, reliability or regulatory grounds. In an effort to move some of the projects forward, the City has compromised by requesting low-side metering on some primary interconnections. No further projects have been approved for low-side metering since last quarter's report.

4. ***Demands for costly and unnecessary upgrades to City projects:*** Projects continue to be delayed or face increased project costs due to PG&E requiring the City to either install extra equipment or pay for upgrades to PG&E's own distribution system. PG&E has failed to provide adequate justifications for these requirements. Further, PG&E continues to withhold detailed information regarding design and costs that would allow the City to validate that the charges are necessary and appropriate.
5. ***Refusal to acknowledge the City's control of distribution facilities prohibits the City's growth:*** There has been no movement on the City's requests to PG&E to transfer customers to the City under the terms of the WDT. These requests are in compliance with the WDT as confirmed by FERC.

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 was eligible for service under the Federal Power Act without adding new facilities because the City had been serving the same customers for decade. 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 the Appeals for the District of Columbia Circuit. Recently, the Court issued a scheduling order in those matters. We expect the matters to be fully briefed in early 2021.

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. The City has filed the required request for rehearing of FERC's order.

The City did receive one favorable ruling from FERC following the City's protest over PG&E's rejection of the City's request for a large capacity 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."

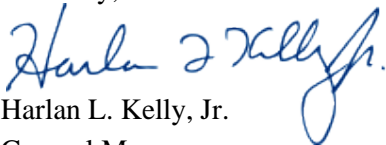
Finally, PG&E recently sent a notice to San Francisco and its other wholesale customers that PG&E will file an update to its WDT after September 1, 2020 with FERC. We expect the update to include an increase in PG&E's wholesale rates in addition to revisions to some of the non-rate provisions in the WDT. The City and PG&E's other wholesale customers will be able to protest PG&E's update with FERC. We cannot say at this time how that update will impact the City's ability to obtain WDT service from PG&E for its loads.

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 August 2020
- **Attachment B:** Map of projects with PG&E power connection delays as of March 2020
- **Attachment C:** Cost impacts

Should you have any questions, please contact Barbara Hale, SFPUC Assistant General Manager for Power, at BHale@sfgwater.org and 415-613-6341.

Sincerely,



Harlan L. Kelly, Jr.
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 (April 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.	In construction (SF waiting for PG&E to finish work for energization)	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 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.	Further delays caused by PG&E as they continue to push back the energization date. Impacts updated to include a second interrupter (an additional \$75k) required by PG&E.
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.	Service Agreement issued by PG&E.	10/9/2018		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.
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.	Service Agreement issued by PG&E.	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.
4	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.
5	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)	Service Agreement issued by PG&E.	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)	Impacts updated to include a second interrupter (an additional \$75k) required by PG&E.
6	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)	Engineering estimation by PG&E.	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).	Delays continue as PG&E has still not provided the Service Agreement (was due in July 2020). The project is moving forward with construction at risk. Impacts updated to include expected overhead/delay costs.
7	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.
8	111772188	Ferry Terminal	3	SFPOR for WETA	New secondary service	Delays caused by dispute over primary vs. secondary. Project moving forward with low-side metering. (See Note 1)	Service point proposed by PG&E is far from the project site and presents logistical challenges for trenching.	7/5/2016	6/20/2018	6/18/2017	Yes	150 kW/Yes	X	The Downtown Ferry Terminal is currently using power from the Agriculture Building. Delays of this service request could delay the redevelopment of the Agriculture Building. This would cause a delay to a build out of a new shorepower connection which would result in significant air pollution from up to 6 ferries idling in the berth. Additional project costs - \$75k (interrupter, #7 box, & installation) Additional staff time for Port - \$32k Additional staff time for WETA - \$64k Costs of redesign - \$32k PG&E has caused further delays by not providing the service agreement on time (4+ months late)	PG&E's interconnection point may have large ramifications to project cost and timeline. The City has requested PG&E to look at alternate interconnection points and PG&E has refused.
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)	In construction	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).	Delays continue as the project is still not energized. Impacts updated to include a second interrupter (an additional \$75k) required by PG&E and expected overhead/delay costs.
10	115020677	88 Broadway - Affordable Housing (125 units)	3	MOHCD (BRIDGE Housing)	New secondary service	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.	In construction	10/1/2018	3/19/2019	12/2/2019	N/A	1674 kW/Yes		Temp. construction power service by PG&E at retail - \$618k in lost gross revenue to SFPUC. \$79k in additional power costs to PG&E's higher rates. Additional project costs - \$150k (2 interrupters, 2 #7 boxes, & installation) 1,090,000 lbs. of CO2 emissions (construction period of 18 months)	No impacts update.

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 (April 2020)
11	115019804	735 Davis - Affordable Housing (53 units)	3	MOHCD (BRIDGE Housing)	New secondary service	Delays caused by dispute over primary vs. secondary. Project moving forward with low-side metering. (See Note 1)	In construction	10/1/2018	3/8/2019	12/2/2019	N/A	683 kW/Yes	Temp. construction power service by PG&E at retail - \$335k in lost gross revenue to SFPUC. \$18k in additional power costs to the project due to PG&E's higher rates. Additional project costs - \$150k (2 interrupters, 2 #7 boxes, & installation) 554,000 lbs. of CO ₂ emissions (construction period of 19 months)	No impacts update.
12	114088011	Lake Merced Blvd & Sunset Blvd - Restroom	4	SFRPD	New secondary service	Delays caused by dispute over primary vs. secondary.	Project Cancelled	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.	In construction	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. Project delayed - impacts TBD.	No impacts update.
14	PG&E withholding NN#	1351 42nd Street - Francis Scott Key Educator Housing (Construction and Perm. Power)	4	MOHCD (MidPen Housing)	New secondary service (one for construction and for permanent power)	Delays caused by dispute over primary vs. secondary. Project is still in dispute.	Project is at a standstill. (both Construction and Perm. Power)	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 (3-4 months).	Project added.
15	113135002	49 South Van Ness Avenue - Building Inspection and Permit Center	5	SFPW for ADM	New primary service	Delays caused by PG&E failing to provide Service Agreement on time.	Energized	8/7/2017	11/10/2017	1/1/2019	N/A	5848 kW/No	Project delayed - SFPUC granted a time extension to PG&E of one extra month to provide Service Agreement. PG&E took an extra 4 months to provide the service agreement.	No impacts update. Project was energized and will be removed on next quarter's report.
16	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)	In construction	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.	Impacts updated to include a second interrupter (an additional \$75k) required by PG&E. Due to work scheduling delays, the project is at risk of missing its energization date (9/1/20) that is required for funding.
17	114907923	1251 Turk Street - Affordable Housing Fire Pump	5	MOHCD (TNDC)	New secondary service	Delays caused by PG&E not providing necessary cost detail.	Project is at a standstill.	8/17/2018	8/10/2019	2/17/2019	No	27 kW/Yes	Project delayed - PG&E is requiring \$250k plus trenching costs for a fire pump service that brings the existing affordable housing development up to code. It looks like PG&E is including upgrades to their own distribution system in the cost. SF is waiting for further cost justification.	Delays continue as PG&E still has not justified the need for distribution upgrades to replace a fire pump.
18	118155015	1805 Geary Blvd. - Streetlights and Traffic Signal	5	SFMTA	New secondary service	Delays caused by PG&E providing the Service Agreement late.	Service agreement issued by PG&E.	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.
19	PG&E withholding NN#	78 Haight Street - Affordable Housing (Construction and Perm. Power)	5	MOHCD (TNDC)	New secondary service (one for construction and for permanent power)	Delays caused by dispute over primary vs. secondary. Project is still in dispute.	Project is at a standstill. (both Construction and Perm. Power)	6/3/2020 (temp) 6/15/2020 (perm)		12/15/2020 (temp) 12/15/2021 (perm)	Yes	674 kW/Yes (temp) 315 kW/Yes (perm)	Project delayed - project has been in dispute since Jun. 2020 (1 month) PG&E is requiring primary for the construction power and the permanent service.	Project added.
20	Several applications submitted	Haight Street Traffic Signals	5	SFMTA	New secondary services (several traffic signals)	Delays caused by PG&E cancelling the initial applications.	Engineering estimation by PG&E.	4/22/2020	7/16/2020				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.	Project added.
21	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.	Energized	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.
22	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.	Service Agreement returned with payment by SFPUC.	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.
23	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)	Service point proposed by PG&E is far from the project site and presents logistical challenges for trenching.	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) If the project is forced to use PG&E's proposed interconnection point (not the project team's proposed point), the project team expects additional construction costs of \$1.8M and delay costs of \$500k.	Impacts updated to include a second interrupter (an additional \$75k) required by PG&E and expected costs of using PG&E's proposed interconnection point.
24	TBD	16th & Terry Francois Blvd. - Mission Bay Ferry Landing	6	SFPORT	New 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.	6/30/2019	3/6/2020	1/3/2020	Yes	100 kW/Yes	Project delayed - project was in dispute from Jan. 2019 - Oct. 2019 (8-9 months). Additional staff time for Port - \$70k (from original application that was cancelled) Additional project costs - \$150k (2 interrupters, 2 #7 boxes, & installation) Costs of redesign - \$30k (from original application that was cancelled)	Impacts updated to include a second interrupter (an additional \$75k) required by PG&E.

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 (April 2020)
25	115071498	555 Larkin (formerly 500 Turk) - Affordable Housing (108 units)	6	MOHCD (TNDC)	New 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.	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 - \$402k in lost gross revenue to SFPUC. \$9k in additional power costs to the project due to PG&E's higher rates. Additional project costs - \$150k (2 interrupters, 2 #7 boxes, & installation) 643,000 lbs. of CO2 emissions (construction period of XX months)	No impacts update.
26	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.	Service Agreement issued by PG&E.	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.
27	TBD	1064 Mission St. - Affordable Housing (256 units)	6	MOHCD (Mercy Housing)	New 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.	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 - \$986k in lost gross revenue to SFPUC. \$89k in additional power costs to the project due to PG&E's higher rates. 1,681,000 lbs. of CO2 emissions (construction period of 18 months)	No impacts update.
28	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.
29	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.	Engineering estimation 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.	Delays continue as PG&E still has not provided the Service Agreement.
30	117795024	16 Sherman Street - Victoria Park Lighting	6	SFRPD	Upgrading existing secondary service	Delays caused by PG&E providing the Service Agreement late.	Service Agreement issued by PG&E.	10/30/2019	11/20/2019	2/15/2020	N/A	42 kW/Yes	Park safety is at risk as PG&E delays the energization of these lighting fixtures.	No impacts update.
31	110299505	4- 8 Guy Place - Guy Place Park	6	SFRPD	New secondary service	Delays caused by PG&E providing inconsistent information.	Energized	IN FLIGHT (Prior to July 2015)	N/A	N/A	No	N/A	Project delayed - impacts TBD.	No impacts update. Project was energized in June 2020 and will be removed on next quarter's report.
32	PG&E withholding NN#	180 Jones 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.	4/28/2020		9/5/2022	Yes	576 kW/Yes	Project delayed - project has been in dispute since May 2020 (2-3 months).	Project added.
33	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 (1-2 months).	Project added.
34	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 update - project is still at a standstill. PG&E is now threatening to cancel this project.
35	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.
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	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	114315107	4235 19th Street - Harvey Milk Civil Rights Academy	8	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)	Energized	2/12/2018	7/12/2019	9/1/2019	Yes	300 kW/Yes	Project delayed - project was in dispute from Feb. 2018 - Jun. 2018. (3-4 months). Safety improvements and the construction of a new building have been delayed as a result. Additional project costs - \$150k (2 interrupters, 2 #7 boxes, & installation) Further design delays will impact the project construction budget and timeline.	Impacts updated to include a second interrupter (an additional \$75k) required by PG&E. Project was energized in August 2020 and will be removed on next quarter's report.
38	114149145	1271 Treat Avenue - Garfield Pool	9	SFRPD	Upgrading and relocating existing secondary service	Delays caused by dispute over primary vs. secondary. Project moving forward with low-side metering. (See Note 1)	Energized	12/28/2017	8/17/2018	5/1/2018	Yes	200 kW/Yes	Project delayed - project was in dispute from Jan. 2018 - May 2018. (3-4 months) Additional project costs - \$250k (interrupter, #7 box, transformer, main switchboard, installation, & trenching)	No impacts update. Project was energized in April 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 (April 2020)
39	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.	In construction	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	Impacts updated to better represent actual costs instead of estimates.
40	114248007	1950 Mission Street - Affordable Housing (157 units)	9	MOHCD (BRIDGE & Mission Housing)	New secondary service	Delays caused by dispute over primary vs. secondary. Project moving forward with low-side metering. (See Note 1)	Energized	1/18/2018	3/11/2019	9/2/2019	Yes	617 kW/Yes	Project delayed - project was in dispute from Jan. 2018 - Sept. 2018 (8-9 months) PG&E retail temporary power for construction was also delayed by a few months. Costs for primary redesign (and then low-side metering)- \$45k Temp. construction power service by PG&E at retail - \$294k in lost gross revenue to SFPUC. \$81k in additional power costs to the project due to PG&E's higher rates. Additional project costs - \$150k (2 interrupters, 2 #7 boxes, & installation) 623,000 lbs. of CO ₂ emissions (construction period of 18 months) Generator costs (for temporary construction power): \$390k	No impacts update. Project was energized in July 2020 and will be removed on next quarter's report.
41	114232705	490 South Van Ness Avenue - Affordable Housing (81 units)	9	MOHCD (BRIDGE & Mission Housing)	New secondary service	Delays caused by dispute over primary vs. secondary. Project moving forward with low-side metering. (See Note 1)	Energized	1/16/2018	3/8/2019	10/1/2019	Yes	867 kW/Yes	Project delayed - project was in dispute from Feb. 2018 - Nov. 2018. (8-9 months) Costs for redesign (primary service with low-side metering) - \$15k Temp. construction power service by PG&E at retail - \$145k in lost gross revenue to SFPUC. \$43k in additional power costs to project due to PG&E's higher rates. 294,000 lbs. of CO ₂ emissions (construction period of 16 months) 740,000 lbs. of CO ₂ emissions from four months of generator use. Additional project costs - \$150k (2 interrupters, 2 #7 boxes, & installation) Generator costs - \$273k for fuel for first four months (if continues will be another \$50k/month)	No impacts update. Project was energized in May 2020 and will be removed on next quarter's report.
42	114671141	2060 Folsom Street - Affordable Housing (127 units)	9	MOHCD (MEDA)	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	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 - \$581k in lost gross revenue to SFPUC. \$8k in additional power costs to project due to PG&E's higher rates. Additional project costs - \$150k (2 interrupters, 2 #7 boxes, & installation) 922,000 lbs. of CO ₂ emissions (construction period of 22 months)	No impacts update.
43	PG&E withholding NN#	681 Florida Street - Affordable Housing (131 units)	9	MOHCD (MEDA)	New 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.	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 - \$657k in lost gross revenue to SFPUC. \$166k in additional power costs to project due to PG&E's higher rates. Additional project costs - \$150k (2 interrupters, 2 #7 boxes, & installation) 850,000 lbs. of CO ₂ emissions (construction period of 15 months)	Impacts updated to include cost of temp. power going to PG&E retail.
44	114345033	1990 Folsom Street - Affordable Housing (143 units)	9	MOHCD (MEDA)	New secondary service	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 - \$563k in lost gross revenue to SFPUC. \$29k in additional power costs to project due to PG&E's higher rates. Additional project costs - \$150k (2 interrupters, 2 #7 boxes, & installation) 927,000 lbs. of CO ₂ emissions (construction period of 22 months)	No impacts update.
45	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.
46	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 (5-6 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.
47	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.
48	113934715	2241 Jerrold Avenue - Ambulance Deployment Facility	10	SFPW for SFFD	New secondary service	Delays caused by dispute over primary vs. secondary. Project moving forward at low-side metering. (See Note 1)	Energized	3/9/2017	2/8/2018	1/1/2018	Yes	300 kW/Yes	Project delayed- project was in dispute from May 2017 - Nov 2017 (6 months). Construction plans for the new ambulance deployment facility have been delayed as a result. Additional project costs - \$75k (interrupter, #7 box, & installation) Costs of redesign - \$100k Costs of construction delays - \$250k Additional Staff Time for SFPW - \$100k Lost gross revenue to SFPUC due to delays: \$110k	No impacts update. Project was energized in August 2020.
49	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 CO ₂ 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.
50	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.

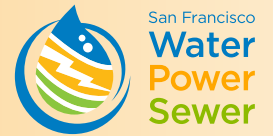
Attachment A: List of Interconnection Issues

	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 (April 2020)
51	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.
52	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.	Further delays incurred as PG&E was several months late in providing the Service Agreement.
53	112828717	2 Rankin Street - Central Bayside Pump Station	10	SFPUC- Wastewater	New primary service	Delays caused by PG&E failing to provide Service Agreement on time. Project Cancelled	5/1/2017	8/17/2017	6/1/2019	N/A	7000 kW/No		Project delayed - SF granted a time extension to PG&E of one extra month to provide Service Agreement. PG&E was late in providing a deemed complete date for the application and several months late in providing the Service Agreement. Service need date is jeopardized.	Project has been cancelled and will be removed on the next quarter's report.
54	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) Service agreement issued by PG&E.	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.	Delays continue as SF and PG&E continue to work out pole location issues.
55	110162018	750 Phelps - Southeast Plant	10	SFPUC- Wastewater	New primary service	Potential delay as PG&E is late in providing SIS agreement. PG&E working on Facility Study report.	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.	Delays continue as PG&E is several months late in providing the Facility Study report.
56	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)	Impacts updated to include the second interrupter that PG&E is requiring (an additional \$75k).
57	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	No impacts update.
58	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) SF working on updated application.	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.
59	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 is now threatening to cancel this project.
60	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.	Delays continue as PG&E has still not provided the Service Agreement.
61	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.
62	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.	Delays continue as PG&E has still not adequately responded to SF's questions regarding load calculations in the System Impact Study draft agreement.
63	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.	Delays continue as PG&E has still not adequately responded to SF's questions regarding load calculations in the System Impact Study draft agreement.
64	113804831	603 Jamestown Avenue - Redevelopment Project	10	SFPUC-Power	New primary service	Delays caused by PG&E being late in providing Service Agreement. Engineering estimation by PG&E.	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.	Delays continue as PG&E has still not provided the Service Agreement.
65	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. System Impact Study phase of engineering estimation by PG&E.	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.	Delays continue as PG&E is several months late in providing the Service Agreement (due date was end of May 2020).
66	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. Service Agreement returned with payment by SFPUC.	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.
67	117974199	901 Tennessee Street - Streetlights	10	SFMTA	New secondary service	Delays caused by PG&E providing the Service Agreement late. Engineering estimation by PG&E.	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.

Attachment A: List of Interconnection Issues

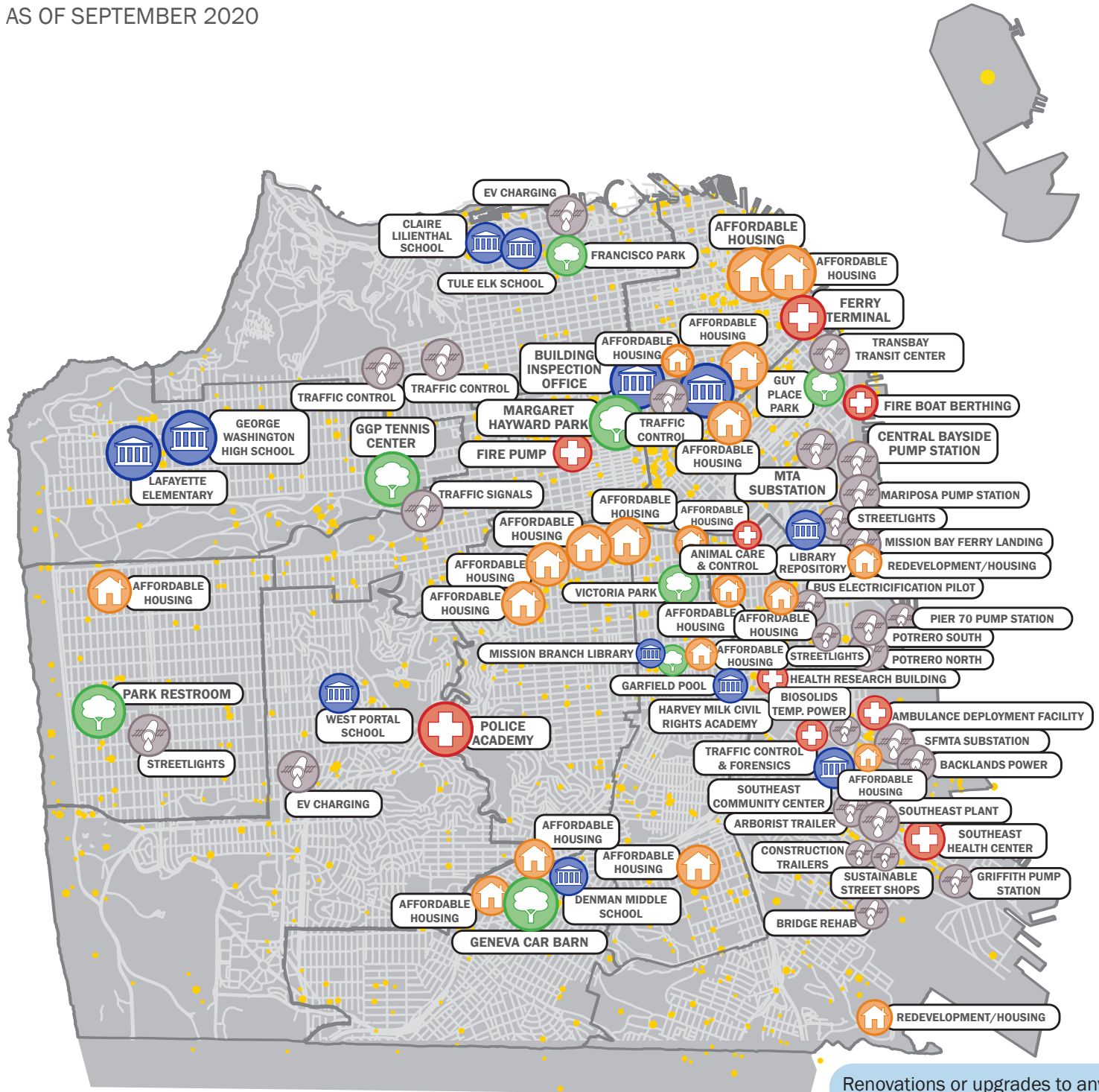
	PG&E NN#	Project Location	District #	Client Organization	Project Description (what SF applied for)	Project Status		Initial Application Submittal Date	App Deemed Complete Date	Initial Service Need Date	Did PG&E require Primary?	Load Size/Can Be Served at Secondary	PG&E committed to work w/ SF to energize in 2018	Impacts	Updates/Changes since Last Report (April 2020)
68	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.	Project is on hold as SF is waiting for PG&E response.	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.
69	Several applications submitted	Mission Bay Loop - Streetlights	10	SFMTA	New secondary service (several streetlights)	Delays caused by PG&E being unresponsive.	Energized	9/27/2019	8/6/2019	12/17/2019	No	9.6 kW (per service point)/Yes		Pedestrian and traffic safety is at risk as PG&E delays the energization of these streetlights.	No impacts update. Project is energized and will be removed on next quarter's report.
70	PG&E withholding NN#	1001 Potrero Avenue - UCSF/SFGH Research & Academic Building Construction and Perm Power	10	UCSF/SFGH	New secondary service (for construction) New primary service (for permanent)	Delays caused by dispute over primary vs. secondary. Project is still in dispute.	Construction power is at a standstill. Perm. power is moving forward.	5/20/2020 (temp) 4/1/2020 (perm)		1/1/2021	Yes	417 kW/Yes		Project delayed - project has been in dispute since Jun. 2020 (1-2 months).	Project added.
71	114529750	1920 Evans - Arborist Trailer/BUF Yard	10	DPW	New secondary service	Delays caused by issues with overhead poles.	Service Agreement issued 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.	Project added.
72	PG&E withholding NN#	4840 Mission Street - Affordable Housing (Construction and Perm. power)	11	MOHCD (BRIDGE Housing)	New secondary service (one for construction and for permanent power)	Delays caused by dispute over primary vs. secondary. Project is still in dispute.	Project is at a standstill. (both Construction and Perm. Power)	2/5/2020		11/1/2022	Yes	1621 kW/Yes		Project delayed - project has been in dispute since Feb. 2020 (4-5 months). PG&E is requiring primary for the construction power and the permanent service.	Delays continue as PG&E is still requiring primary switchgear for this project.
73	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 still in dispute.	Project is at a standstill.	6/1/2020		6/7/2021	Yes	144 kW/Yes		Project delayed - project has been in dispute since Jun. 2020 (1-2 months)	Project added.
74	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)	PG&E working on System Impact Study.	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)	No impacts update.
75	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 (6-7 months)	Delays continue as PG&E is still requiring primary switchgear for this project.
76	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.
77	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.
78	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.

ATTACHMENT B – MAP OF INTERCONNECTION ISSUES



Services of the San Francisco Public Utilities Commission

AS OF SEPTEMBER 2020



HOUSING



INFRASTRUCTURE



HEALTH AND SAFETY



INSTITUTION



RECREATION



SFPUC METERED SERVICE POINT

Attachment C: Cost Impacts

A	B	C	D	E	F	G	H	I	J
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
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						\$ -		
4	3455 Van Ness Avenue - AWSS Pump Station No. 2	\$ 75,000					\$ 75,000		
5	2110 Greenwich Street - Tule Elk Elementary	\$ 150,000					\$ 150,000		
6	2445 Hyde Street - Francisco Park	\$ 75,000			\$ 168,000		\$ 243,000		
7	102 Marina Boulevard - Fort Mason (EVGo)						\$ -		
8	Ferry Terminal	\$ 32,000	\$ 75,000			\$ 96,000	\$ 203,000		
9	950 Golden Gate Avenue - Margaret Hayward Park	\$ 150,000			\$ 330,000		\$ 480,000		
10	88 Broadway - Affordable Housing	\$ 150,000		\$ 79,000			\$ 229,000	\$ 618,000	1,090,000
11	735 Davis - Affordable Housing	\$ 150,000		\$ 18,000			\$ 168,000	\$ 335,000	554,000
12	Lake Merced Blvd & Sunset Blvd - Restroom						\$ -		
13	L Taraval - Streetlights						\$ -		
14	1351 42nd Street - Affordable Housing (Francis Scott Key Educator Housing)						\$ -		
15	49 South Van Ness Avenue - Building Inspection Office						\$ -		
16	50 Bowling Green Drive - GGP Tennis Center	\$ 150,000	\$ 275,000				\$ 425,000	\$ 1,000	
17	1251 Turk Street - Affordable Housing Fire Pump		\$ 250,000				\$ 250,000		
18	1805 Geary Blvd. - Streetlights and Traffic Signal						\$ -		
19	78 Haight Street - Affordable Housing						\$ -		
20	Haight Street Traffic Signals						\$ -		
21	6 Berry Street - Substation						\$ -		
22	750 Brannan - Main Library Repository						\$ -		
23	399 The Embarcadero - Fire Boat #35	\$ 150,000	\$ 1,800,000		\$ 500,000		\$ 2,450,000		
24	16th & Terry Francois Blvd. - Mission Bay Ferry Landing	\$ 30,000	\$ 150,000			\$ 70,000	\$ 250,000		
25	555 Larkin (formerly 500 Turk Street) - Affordable Housing	\$ 150,000		\$ 9,000			\$ 159,000	\$ 402,000	643,000
26	Market St. & 7th St. - BMS Switch						\$ -		
27	1064 Mission Street - Affordable Housing	\$ 150,000		\$ 89,000			\$ 239,000	\$ 986,000	1,681,000
28	Transbay Transit Center - Transbay Joint Powers Authority						\$ -		
29	Mission Rock & Terry Francois Blvd. - Redevelopment Project						\$ -		
30	16 Sherman Street - Victoria Park Lighting						\$ -		
31	4-8 Guy Place - Guy Place Park						\$ -		
32	180 Jones Street - Affordable Housing						\$ -		
33	266 4th Street - Affordable Housing						\$ -		
34	2685 Ocean Ave. - EV Charging Station						\$ -		
35	5 Lenox Way - West Portal Elementary School	\$ 150,000					\$ 150,000		
36	350 Amber Drive - Police Academy	\$ 75,000					\$ 75,000		
37	4235 19th Street - Harvey Milk Civil Rights Academy	\$ 150,000					\$ 150,000		
38	1271 Treat Avenue - Garfield Pool	\$ 250,000					\$ 250,000		

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
39	1419 Bryant Street - Animal Care & Control	\$ 23,000	\$ 353,000	\$ 150,000				\$ 526,000		
40	1950 Mission Street - Affordable Housing	\$ 45,000	\$ 150,000		\$ 81,000	\$ 390,000		\$ 666,000	\$ 294,000	623,000
41	490 South Van Ness Avenue - Affordable Housing	\$ 15,000	\$ 150,000		\$ 43,000	\$ 273,000		\$ 481,000	\$ 145,000	1,034,000
42	2060 Folsom Street - Affordable Housing	\$ 2,000	\$ 150,000		\$ 8,000			\$ 160,000	\$ 581,000	922,000
43	681 Florida Street - Affordable Housing		\$ 150,000		\$ 166,000			\$ 316,000	\$ 657,000	180,000
44	1990 Folsom Street - Affordable Housing	\$ 2,000	\$ 150,000		\$ 29,000			\$ 181,000	\$ 563,000	927,000
45	3001-3021 24th Street - Affordable Housing							\$ -		
46	300 Bartlett Street - Mission Branch Library							\$ -		
47	800 Amador Street - Pier 94 - Backlands	\$ 50,000	\$ 500,000				\$ 50,000	\$ 600,000		
48	2241 Jerrold Avenue - Ambulance Deployment Facility	\$ 100,000	\$ 75,000			\$ 250,000	\$ 100,000	\$ 525,000	\$ 110,000	
49	Illinois St. & Terry Francois - Mariposa Pump Station				\$ 22,000	\$ 100,000		\$ 122,000	\$ 588,000	554,000
50	684 23rd Street - Potrero North							\$ -		
51	638 23rd Street - Potrero South							\$ -		
52	1001 22nd Street - Bus Electrification Pilot							\$ -		
53	2 Rankin Street - Central Bayside Pump Station							\$ -		
54	1995 Evans - Traffic Controls and Forensics		\$ 75,000		\$ 578,000			\$ 653,000		
55	750 Phelps - Southeast Plant							\$ -		
56	2401/2403 Keith Street - Southeast Health Center		\$ 150,000					\$ 150,000		
57	1550 Evans Ave - Southeast Community Center		\$ 500,000					\$ 500,000		
58	Islais Creek Bridge Rehab (3rd Street)		\$ 75,000					\$ 75,000		
59	1150 Phelps - Construction Trailers							\$ -		
60	480 22nd Street - Pier 70 Pump Station							\$ -		
61	1601 Griffith Street - Griffith Pump Station				\$ 27,000			\$ 27,000		
62	Harmonia Street - Sunnydale HOPE							\$ -		
63	1101 Connecticut Street - HOPE Potrero							\$ -		
64	603 Jamestown Avenue - Redevelopment Project							\$ -		
65	702 Phelps Street - SFMTA Substation							\$ -		
66	1800 Jerrold Avenue - Biosolids (Temp. Power)							\$ -		
67	901 Tennessee Street							\$ -		
68	1508 Bancroft Avenue - Sustainable Sreets Shop							\$ -		
69	Mission Bay Loop - Streetlights							\$ -		
70	1001 Potrero Avenue - UCSF/SFGH Research & Academic Building Construction and Permanent Power							\$ -		
71	1920 Evans - Arborist Trailer/BUF Yard							\$ -		
72	4840 Mission Street - Affordable Housing							\$ -		
73	35-45 Onondaga Avenue - Health Clinic							\$ -		
74	241 Oneida Avenue - Denman Middle School		\$ 75,000					\$ 75,000		
75	2340 San Jose Avenue - Affordable Housing							\$ -		
76	Multiple Locations - Guy Wires (Franchise Issue)							\$ -		
77	Multiple Service Transfers							\$ -		

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
10501 Warnerville Road - Substation Rehabilitation Project							\$ -		
TOTAL	\$ 299,000	\$ 4,903,000	\$ 3,475,000	\$ 1,180,000	\$ 2,011,000	\$ 316,000	\$ 12,184,000	\$ 5,294,000	8,258,000

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Total Additional Project Costs	\$ 12,184,000.00
Total Lost Gross Revenue to SFPUC	\$ 5,294,000.00
Total Cost Impact to SF (Project Costs + Lost Revenue)	\$ 17,478,000.00
Total CO2 Emissions (lbs.)	8,258,000

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 will face financial impacts that are TBD depending on how long they will be delayed and how they will move forward.