



October 13, 2022

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), adopted on July 20, 2018 and re-affirmed on April 6, 2021. 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.”

In addition to this report, the SFPUC also prepares a biennial report that describes complaints or disputes related to the Franchise Agreement between the City and PG&E, the most recent of which was sent to the Board on August 26, 2022.

BACKGROUND:

The SFPUC provides retail electric service from our Hetch Hetchy Power public utility (Hetchy) to over 4,000 accounts, relying on our Hetch Hetchy generation and other sources for supply. The City pays PG&E to provide transmission and distribution services regulated by FERC. The terms and conditions of the purchased distribution services are described in PG&E’s Wholesale Distribution Tariff (WDT).

In September 2020, PG&E filed an update to the WDT (WDT3) seeking to significantly increase wholesale distribution rates and amend the terms and conditions of service. San Francisco, 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. Despite these challenges, under FERC rules WDT3

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is now in effect. If FERC rejects any of PG&E's proposed revisions, it can order PG&E to provide refunds to the City and its other wholesale customers.

For several months, the City and PG&E's other wholesale customers (intervening parties) participated in settlement discussions with PG&E and reached a partial settlement agreement approved by FERC on June 2, 2022. The partial settlement largely concerned rate issues. The key non-rate issues outlined below remain unresolved and are being litigated at FERC in the WDT3 proceeding.

- **Elimination of unmetered load** – PG&E would require all unmetered load served by Hetchy, such as streetlights, traffic signals, and bus shelters, to install primary equipment or accept PG&E retail service to continue to receive electric service and function. While the transfer to retail service was expected to occur in July 2022, PG&E and the City have reached an interim waiver agreement where the City can continue serving existing unmetered load while PG&E and the City litigate this issue at FERC. Under the waiver agreement, however, new unmetered load served from the PG&E-owned grid will have to apply to PG&E directly for PG&E retail service. (See further discussion below regarding unmetered load.)
- **Elimination of any interconnections to PG&E's "downtown network"** – PG&E would prohibit 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** – PG&E would prohibit the connection of any loads at secondary despite the size. This prohibition will also apply to existing customers with secondary interconnections if the customer needs to modify the facilities for reasons such as building renovations or decarbonization (increased electrification) of existing buildings.

The City's protests over these matters is headed towards hearings at FERC in March 2023. PG&E filed its opening testimony on July 22, 2022, and the City filed its answering testimony on September 9, 2022. FERC trial staff will file its answering testimony on October 28, 2022, and PG&E will file its rebuttal on December 23, 2022. A FERC decision is not expected, at the earliest, until 2024.

VALUATION PETITION:

On July 27, 2021, the City submitted a petition to the California Public Utilities Commission (CPUC) requesting a formal determination of the value of PG&E's electric assets in San Francisco. This petition serves as the initial step in what will likely be a lengthy process to acquire PG&E's local electric infrastructure to complete the City's transition to full public power. Owning the grid would allow San Francisco to deliver clean, reliable and affordable electricity throughout the City. The City would have control over investment in achieving reliability, climate goals and equity in electric service, and in workforce development, while providing transparency and public accountability in rates, service and safety.

On September 14, 2021, PG&E filed a motion asking the CPUC to exercise its discretion to decline to hear the petition, which the City had vigorously opposed. On December 14, 2021, the CPUC held a prehearing conference ordering PG&E to appear before the Commission to show cause why the Commission should not proceed to hear the City's petition. At the hearing, PG&E and the City both addressed the scope of the proceeding, the proposed schedule, and other related matters. On June 24, 2022, the Assigned Commissioner issued a scoping memo and ruling outlining the scope of issues to be addressed and the proceeding schedule.

In response to a request from the Commission, CCSF, PG&E, and California Coalition of Utility Employees (CUE) filed briefs on August 23, 2022 to address the scope of the Commission's review of the acquisition under Public Utilities Code Section 851, which requires that the Commission approve sales of utility assets, in the event CCSF condemns PG&E's assets in San Francisco. The briefs also addressed the timing, process and other matters associated with such review. All parties filed reply briefs on September 13, 2022.

PG&E filed a concurrent motion to dismiss or stay the petition until CCSF completes an Environmental Impact Review. CCSF filed a response opposing this motion on September 9, 2022, while CUE filed a response generally supporting PG&E's motion. PG&E filed a reply brief on September 20, 2022.

STATUS OF THE CITY'S FERC COMPLAINTS ON APPEAL BEFORE THE DC CIRCUIT:

PG&E's interpretation of Grandfathering and Municipal Load Definition: 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 electrical 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 then filed petitions to review these FERC orders with the Court of Appeals for the District of Columbia Circuit ("D.C. Circuit").

PG&E requiring primary service for small loads: 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 filed petitions to review these FERC orders with the D.C. Circuit.

On January 25, 2022, the D.C. Circuit issued a single opinion that granted San Francisco's petitions for review of both of the FERC orders discussed above. The court vacated the FERC rulings and remanded the cases for further proceedings, finding that FERC's decisions "present a troubling pattern of inattentiveness to potential anti-competitive effects of PG&E's administration of its open-access Tariff."

FERC has not yet issued any orders following the remand of the matters from the D.C. Circuit, and there is no deadline for FERC to act on remand. We expect that FERC will soon issue orders specifying the procedures it will follow on the remanded cases.

In the interim, PG&E has relied on FERC's earlier rulings in its favor to file changes to its WDT in the WDT3 proceedings that reflect those rulings and impose even more obstacles to San Francisco receiving fair service. Those changes are in effect now while FERC reviews them. As a result, the D.C. Circuit remand provides no immediate relief to the City's electric operations or service to customers.

PG&E's assignment and documentation of costs for facilities: In January 2020, the City and PG&E participated in an evidentiary hearing before a FERC Administrative Law Judge ("ALJ") in a dispute over service to an SFMTA substation at 6 Berry Street. The issues in that proceeding were: (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.

On January 28, 2022, FERC issued a decision that largely affirmed the ALJ's initial decision, and the City filed a petition for rehearing with FERC. The City also filed a petition for review of the FERC decision with the D.C. Circuit.

On June 16, 2022, FERC issued an order on rehearing that largely affirmed its initial decision. However, in the rehearing decision FERC included language making it clear that its decision in that case would not impact its decision in the WDT3 protest in which the City has raised similar issues about PG&E overcharging the City for upgrades to its system. In light of that decision, the City withdrew its appeal of the 6 Berry decision to the DC Circuit. The City also withdrew a protest it had filed over WDT service to the Golden Gate Park Tennis Center in which the City had raised similar issues about PG&E overcharging for its facilities. These matters will now be addressed and decided in the WDT3 hearings.

UNMETERED LOAD:

As noted earlier, under WDT3 PG&E will no longer offer secondary service to the City and other wholesale customers. This includes service to the City's unmetered loads, which consist primarily of streetlights, traffic signal lights, and similar small, predictable municipal loads that are billed based on agreed-upon, FERC-approved

usage formulas rather than metered usage. In order to continue to operate these City services, the City will either have to take PG&E retail service or spend in excess of \$1 billion for large primary equipment that is unnecessary for safety or reliability and perform City-wide disruptive construction.

On December 13, 2021, PG&E filed notices at FERC that would discontinue service to the City's unmetered load, effective January 31, 2022. The City protested and FERC issued an order suspending the effective date until July 12, 2022. Since the last report, the City and PG&E negotiated an interim tariff and service agreement waiver. Under this waiver agreement, the City will continue to serve its existing unmetered loads while PG&E and the City litigate this issue at FERC in the WDT3 proceeding.

Per the requirements of WDT3 that are now in effect, all new unmetered loads served from the PG&E-owned grid will be required to apply for PG&E retail service. These new unmetered loads are not part of the waiver agreement. Under PG&E's retail tariffs, PG&E will serve these new streetlights as unmetered load. All other new non-streetlight loads served from the PG&E-owned grid, such as traffic signals and bus shelters, will be required to be metered, at the City's cost.

As part of the waiver agreement, PG&E and the City have agreed that the prevailing party at FERC will be made "whole" at the conclusion of the FERC proceeding. This means that, should the City lose at FERC, we would have to pay PG&E the difference between the FERC distribution rates we had been paying for our existing, unmetered loads, and the PG&E retail rates the City should have been paying instead. Likewise, should the City prevail at FERC, PG&E will make the City whole by paying the City the difference between the higher PG&E retail rates and the lower wholesale rates we should have been paying instead.

In addition, the wireless industry filed a protest at FERC with regard to these changes and are seeking an interim solution similar to the waiver the City negotiated with PG&E. The City has licensed some of its streetlight poles and MUNI poles to wireless carriers to install antennas and related equipment. The City has been providing power to those facilities, which the SFPUC can no longer do under WDT3. The industry filed the protest because wireless carriers are concerned that the additional costs and delays that will occur if they must obtain electric service from PG&E will hinder their efforts to roll out 5G service in San Francisco. The parties are now in settlement discussions supervised by a FERC Administrative Law Judge.

REPORT SUMMARY:

As the City continues its efforts in fighting for fair access to the grid and decreasing dependence on PG&E, important City projects are still being delayed by PG&E's obstruction. PG&E continues to impose unnecessary requirements on projects resulting in delays and additional costs.

Since October 2018, the SFPUC has reported on 131 projects that have experienced obstruction by PG&E. The total cost impact (additional project costs and loss of revenue to the City) of PG&E's obstructions since October 2018 has been over \$28M.

For the reporting period of July 2022 through September 2022, the SFPUC has identified 52 projects that have experienced interconnection delays, arbitrary requests for additional and/or unnecessary information, or increased project costs, as listed in **Attachment A1**. Since the last quarterly report, nine projects have been added to the list and one project has been energized. Updates and changes to projects since the previous quarterly report are detailed in Column P of Attachment A1.

With the implementation of WDT3, many new City projects are not eligible for service from the SFPUC and must apply to PG&E for retail service and pay the higher PG&E retail rates for electric service. The seventeen projects that fall into this category are listed in **Attachment A2**. Four projects were added in this quarter.

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 for the sixty-nine projects featured in this report is more than \$16 million. Total costs do not include estimated costs for projects that are at a standstill as those costs are still to be determined.

Please find attached the following documents related to this report:

- **Attachment A1**: List of projects with active interconnection applications to PG&E for electric service as of September 2022
- **Attachment A2**: List of projects that were released to receive PG&E retail service as of September 2022
- **Attachment B**: Map of projects with PG&E power connection delays as of September 2022
- **Attachment C**: Cost impacts

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

Sincerely,



Dennis J. Herrera
General Manager

Attachment A1: 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 (July 2022)		
1	N/A	Overlook Dr. - Recycled Water Pump	1	SFPUC	New secondary service	Delays caused by PG&E refusing to complete project.	Project is at a standstill.	IN FLIGHT (Prior to July 2015)	N/A	N/A	No	186 kW/Yes	PG&E is requiring this site to be connected at primary even though it was previously designed for secondary. Installing primary switchgear would result in an additional ~\$1M in costs. SF has proposed a solution that still connects at primary without incurring the excessive costs, but PG&E has denied this solution without providing any technical reason or safety concern.	No impacts update.	
2	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 not providing necessary cost detail to the Service Agreement (7 month delay).	No impacts update.
3	Several applications submitted	19th Avenue - Traffic Signals	4 & 7	SFMTA	New unmetered secondary services (several traffic signals)	Delays caused by PG&E cancelling the initial applications.	In construction	Various	3/14/2017	9/1/2019	No	N/A	PG&E delayed the project by cancelling the existing contracts even though we had completed and paid for the applications and paid for extensions. Project is looking to move forward to just reuse the existing service in an effort to not delay the project any further.	Project added.	
4	Several applications submitted	L Taraval - Streetlights	4	SFMTA	New unmetered secondary services (streetlights - over 20 locations)	Delays caused by PG&E being unresponsive. Now PG&E is causing further delays by requiring a redesign.	In construction	3/19/2019	4/27/2019	1/1/2020	No	N/A	Pedestrian and traffic safety is at risk as PG&E delays the energization of these streetlights. Delays continue as PG&E has cancelled these applications which will cause redesign and change orders. PG&E has again required redesigns - cost impacts TBD. These delays will impact the construction schedule.	Impacts updated to show further delays from PG&E.	
5	123223073	1360 43rd Ave - Francis Scott Key Educator Housing (Construction and Perm. Power)	4	MOHCD	New secondary service	Delays caused by dispute over primary vs. secondary. Project will be moving forward with secondary.	PG&E preparing Service Agreement.	3/30/2020 (temp) 2/24/2020 (perm)	3/31/2022	12/7/2020 (temp) 12/6/2021 (perm)	Yes	417 kW/Yes (temp) 678 kW/Yes (perm)	Project delayed - project was in dispute from Apr. 2020 to Sept. 2021 (15-16 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.	No impacts update.	
6	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)	Energized	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. Further cost and funding impacts as PG&E has sent a request to true-up project costs a year after the project is energized.	Project added back to the report to include details on PG&E's request to true-up project costs more than a year after project completion.
7	123182651	78 Haight Street - Affordable Housing (63 units)	5	MOHCD	New secondary service for perm. Construction power released to PG&E retail.	Delays caused by dispute over primary vs. secondary. Project will be moving forward with secondary.	Service Agreement returned with payment by SFPUC. PG&E performing engineering/design.	6/15/2020	3/22/2022	12/15/2021	Yes	315 kW/Yes	Project delayed - project was in dispute from Jun. 2020 to Sept. 2021 (14-15 months). 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.	No impacts update.	
8	Several applications submitted	Haight Street Traffic Signals	5	SFMTA	New unmetered secondary services (several traffic signals)	Delays caused by PG&E cancelling the initial applications.	In construction	4/22/2020	7/16/2020	11/30/2020	Yes	N/A	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 unmetered holiday lighting can be added to these poles.	No impacts update.	
9	Several applications submitted	Folsom Streetscape - Traffic Signals & Safety Streetlighting	6	SFMTA	New unmetered secondary services (several traffic signals)	Delays caused by PG&E cancelling applications and being unresponsive.	Ready for bid	7/23/2020	Various	Fall 2023	No	N/A	Delays continue as PG&E has cancelled some applications which will cause redesign and change orders - costs impact TBD. These delays will impact the construction schedule.	Project added.	
10	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 incurred delay claims costs from contractor due to PG&E's failure to approve design and equipment submittals. (actual costs are still to be determined) PG&E delayed the de-energizing the existing to-be-demolished substation which caused delays to the construction schedule.	No impacts update. Switchover to new connection is expected to happen in Oct.	
11	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)	Energized	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 - Redesign: \$67k, Construction:\$1.4M, Compensable Schedule Delay: \$598k (six-month delay for re-design)	No impacts update and will be removed off next quarter's report.	
12	115071498	555 Larkin (formerly 500 Turk) - Affordable Housing (108 units)	6	MOHCD	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	10/15/2018	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)	This project was energized on 9/2/22 and will be removed off next quarter's report.	
13	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.	Construction to commence soon (pending NTP)	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 was unresponsive in providing further cost explanation.	No impacts update.	
14	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. PG&E has also requested an additional ~\$5M from SF in an extremely late project true-up request. PG&E has yet to provide adequate justification for this amount.	Delays continue as PG&E has still not adequately responded to SF's questions regarding load calculations in the System Impact Study draft agreement.	
15	122798669	180 Jones Street - Affordable Housing (70 units)	6	MOHCD	New secondary service for perm. Construction power released to PG&E retail.	Delays caused by dispute over primary vs. secondary. Project will be moving forward with secondary.	Service Agreement returned with payment by SFPUC. PG&E performing engineering/design.	4/28/2020	1/21/2022	9/5/2022	Yes	576 kW/Yes	Project delayed - project was in dispute from May 2020 to Sept. 2021 (15-16 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.	No impacts update.	
16	PG&E withholding NN#	266 4th Street - Affordable Housing (70 units)	6	MOHCD	New secondary service	Delays caused by dispute over primary vs. secondary. Project will be moving forward with secondary.	SF to submit updated application for secondary later.	6/15/2020		12/1/2021	Yes	700 kW/Yes	Project delayed - project was in dispute from June 2020 to Sept. 2021 (14-15 months).	No impacts update.	

Attachment A: List of Interconnection Issues

ID	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 (July 2022)
						Delays caused by dispute over primary vs. secondary. Project is moving forward with primary.	PG&E reviewing application.								
17	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 moving forward with primary.	PG&E reviewing application.	11/9/2020		12/30/2021	Yes	258 kW/Yes		Project delayed - project was in dispute from Nov. 2020 to Aug. 2021 (8-9 months) Additional project costs - \$500k for primary service	Cost impacts updated to include costs of installing primary service (instead of secondary).
18	PG&E withholding NN#	600 7th Street - Affordable Housing (70 units)	6	MOHCD	New secondary service	Delays caused by dispute over primary vs. secondary. Project will be moving forward with secondary.	Service Agreement returned with payment by SFPUC. PG&E performing engineering/design.	1/19/2021	2/4/2022	5/21/2023	Yes	847 kW/Yes		Project delayed - project was in dispute from Feb. 2021 to Sept. 2021 (6-7 months). Temp. construction power service by PG&E at retail - \$191k in lost gross revenue to SFPUC. \$28k in additional power costs to the project due to PG&E's higher rates.	No impacts update.
19	122206857	270 6th Street - Gene Friend Rec Center	6	SFRPD	New primary service	Increased costs due to PG&E's primary requirements.	Service Agreement returned with payment by SFPUC. PG&E performing engineering/design.	8/16/2021		7/3/2023	Yes	348 kW/Yes		Additional project costs for primary service - \$500k for primary switchgear Accommodating primary service equipment and required clearances displaces critical site elements (storage and trash building cannot be in preferred location near street, service access to facility eliminated, and required utility space impinges on paved walking circuit and athletic court clearances). It also reduces the recreational value of park property.	No impacts update.
20	122362650	2814 Great Highway - Westside Pump Station	7	SFPUC	Remove one existing secondary service and replace with two (2) primary services. Due to PG&E's obstruction, the application has now changed to a relocation.	Delays caused by PG&E cancelling the original design and requiring SF to re-apply several times.	Project is in construction, but the electric portion remains unresolved.	8/8/2022 (application from 6/19/14 and 8/2/21 cancelled)	9/7/2022	9/27/2022	N/A	2,023 kW/No		Project delayed - cost impacts TBD. PG&E has already given SF notice that the project will be further delayed due to resource issues on PG&E's end. PG&E's proposed design required extensive trenching (10 miles combined for the primary and redundant service) for two new mainline connections. This work would delay the project significantly and PG&E has not adequately explained why this new design requires substantially more work and costs than the original design. PG&E's estimates showed SF paying PG&E ~\$40M, with the total construction costs being ~\$100M. Due to these excessive costs, SF has changed its application to a relocation of an existing secondary service. Since, PG&E no longer allows secondary, the service will be upgraded to primary, costs TBD.	Impacts updated to provide detail on how PG&E's excessive cost and equipment requirements have changed the project scope. Costs of this change are TBD.
21	Several applications submitted	15th Street Improvement Project - Traffic Signals	8 & 9	SFMTA	New unmetered secondary services (several traffic signals)	Delays caused by PG&E cancelling the initial applications.	In construction	Various	Jun-Jul 2017	1/1/2022	N/A	N/A		PG&E delayed the project by cancelling the existing contracts even though we had completed and paid for the applications and paid for extensions. Project is looking to move forward to just reuse the existing service in an effort to not delay the project any further.	Project added.
22	123635730	2500 Mariposa Street - Potrero Yard Modernization (Mixed Use)	9	SFMTA	New primary service	Potential delays caused by PG&E not providing the System Impact Study draft on time	PG&E to provide System Impact Study draft	12/10/2021	5/19/2022	6/1/2023	N/A	7,800 kW/No		Delays caused by PG&E not providing the System Impact Study report on time.	Project added.
23	123635632	2500 Mariposa Street - Potrero Yard Modernization (Industrial Use)	9	SFMTA	New primary service	Potential delays caused by PG&E not providing the System Impact Study draft on time	PG&E to provide System Impact Study draft	12/10/2021	5/19/2022	6/1/2023	N/A	6,5000 kW/No		Delays caused by PG&E not providing the System Impact Study report on time.	Project added.
24	112819432	102 Santa Marina Street - College Hill Reservoir	9	SFPUC	New secondary service	Delays caused by PG&E cancelling the project while it is in still in construction.	Project is at a standstill.	4/27/2017	9/24/2018	11/15/2017	No	45 kW/Yes		PG&E cancelled this project stating that it had not met the timeline for energization. However, PG&E caused a delay in relocation/re-arranging their trench route when there were existing utilities conflicting with their original design. If PG&E does not allow this project to connect, there will be a significant cost impact as construction of the secondary service connection is almost complete.	Project added.
25	115148446	3001-3021 24th Street - Affordable Housing (44 units)	9	MOHCD	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).	Project went to PG&E retail.
26	123044737	300 Bartlett Street - Mission Branch Library	9	SFPL	New secondary service	Delays caused by dispute over primary vs. secondary. Project is moving forward with primary. Further delays caused by PG&E requiring a re-design.	Service Agreement issued by PG&E.	2/26/2020	3/1/2022	8/1/2022	Yes	190 kW/Yes		Project delayed - project was in dispute from Feb. 2020 - Jun. 2021 (15-16 months). Further delays caused by PG&E requiring a redesign even though the design was agreed upon months ago. Additional project costs - \$250k for overhead primary service	Impacts updated to include PG&E causing more delays by asking for a redesign.
27	122207261/122207133	601 25th Street - Muni Metro East Expansion	10	SFMTA	An upgrade to existing primary service and a new primary service	PG&E's costs and timeline of required upgrades are not feasible for the project timeline.	PG&E performing Facilities Study.	7/27/2021	10/11/2021	7/1/2023	N/A	6.5 MW/Yes (split between 2 services)		Per PG&E's System Impact Study, PG&E wants to charge SF ~\$18M for upgrades to PG&E's existing substation and reinforcements of PG&E's distribution lines. This work would take over two years. PG&E's retail customers that are already connected to this substation will benefit from these upgrades that SF would pay for.	Project added.
28	111975801	800 Amador Street - Pier 94 - Backlands	10	SFPORT	New secondary service	PG&E required primary. Project was going to move forward with primary.	Project Canceled	8/19/2016	8/28/2018	2/1/2017	Yes	166 kW/Yes	X	Added costs for primary equipment (overhead) - \$500k Additional staff time for Port - \$50k Costs of redesign - \$50k	This location has been used for the emergency shelters for the homeless in response to COVID. The permanent power application has been canceled by PG&E and the project will re-apply at a different time. Since the project is cancelled, the Port is not seeking the cost reimbursement from 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 (July 2022)		
29	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 took PG&E retail service.	4/13/2017		6/1/2018	Yes	169 kW/Yes	X	Temp. construction power service by PG&E at retail - \$526k in lost gross revenue to SFPUC. \$245k in additional equipment, labor, and construction costs due to PG&E not providing retail power in a timely manner. \$281k in additional costs for a generator rental while waiting for PG&E retail temp power to be energized. \$22k in additional power costs to the project due to PG&E's higher rates. \$54,000 lbs. of CO2 emissions (construction period of 36 months)	No impacts update.
30	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.
31	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.
32	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 went to PG&E retail.	5/1/2019		6/1/2019	N/A	472 kW/Yes		Project delayed - project was in dispute from May 2019 to May 2021 (23-24 months). Temp. construction power service by PG&E at retail - \$2M in lost gross revenue to SFPUC. \$286k in additional power costs due to PG&E's higher rates. (assuming temp. power for 5 years)	No impacts update.
33	114919920	Harmonia Street - Sunnydale HOPE	10	SFPUC - Power	New primary service	Potential dispute over reserved capacity.	Service Agreement returned with payment by SFPUC. PG&E performing engineering/design.	8/16/2018	4/4/2019	8/1/2020	N/A	1000 kW/No		Delays caused by PG&E unilaterally significantly reducing the load requested and 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. Additionally, PG&E is requiring SF to construct offsite infrastructure for PG&E to serve the load that is typically done by PG&E - cost is TBD.	No impacts update.
34	115583820	1101 Connecticut Street - HOPE Potrero	10	SFPUC - Power	New primary service	Potential dispute over reserved capacity.	Service Agreement returned with payment by SFPUC. PG&E performing engineering/design.	12/13/2018	4/4/2019	6/1/2019	N/A	4000 kW/No		Delays caused by PG&E unilaterally significantly reducing the load requested and 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. Additionally, PG&E is requiring SF to construct offsite infrastructure for PG&E to serve the load that is typically done by PG&E - cost is TBD.	No impacts update.
35	TBD	603 Jamestown Avenue - Redevelopment Project	10	SFPUC - Power	New primary service	Delays caused by PG&E being late in providing Service Agreement. SF has now resubmitted a new application for the increased capacity.	PG&E performing System Impact Study Report.	6/13/2022		9/27/2024	N/A	10000 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.	No impacts update.
36	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 returned with payment by SFPUC. PG&E performing engineering/design.	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.	No impacts update.
37	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.
38	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.
39	122410259	1508 Bancroft Ave. - Sustainable Streets Shops	10	SFMTA	Request for information and shutdown	Delays caused by PG&E being unresponsive.	Shutdown scheduled for July	4/6/2018	N/A	10/21/2019	No	N/A		Potential power issue - SF could not confirm that the current power system is properly protected without PG&E's response to the information requested. Further delays caused by PG&E on SF's request for shutdown. (cost impact TBD, but construction schedule is now delayed).	No impacts update.
40	119140984	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.	Service Agreement returned with payment by SFPUC. PG&E performing engineering/design.	5/20/2020 (temp) 4/1/2020 (perm)	12/26/2020	1/1/2021	Yes	1356 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.
41	114529750	1920 Evans - Arborist Trailer/BUF Yard	10	DPW	New secondary service	Delays caused by issues with overhead poles.	In construction	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 was further when PG&E's re-design took several months.	No impacts update.
42	122625746	160 Hahn Street - Herz Recreation Center	10	SFRPD	New primary service	Increased costs due to PG&E's primary requirements	Service Agreement returned with payment by SFPUC. PG&E performing engineering/design.	11/10/2021	1/20/2022	1/3/2022	Yes	150 kW/Yes		Additional project costs for primary service - \$500k for primary switchgear. Accommodating primary service equipment and required clearances displaces critical site elements (parking spaces for staff, ADA parking, and a maintenance shed). It also reduces the recreational value of park property.	No impacts update.
43	122906585	4840 Mission Street - Affordable Housing (137 units) (Construction and Perm. power)	11	MOHCD	New secondary service for perm. Construction power released to PG&E retail.	Delays caused by dispute over primary vs. secondary. Project will be moving forward with secondary.	Service Agreement returned with payment by SFPUC. PG&E performing engineering/design.	2/5/2020	1/31/2022	11/1/2022	Yes	1621 kW/Yes		Project delayed - project was in dispute from Feb. 2020 to Sept. 2021 (18-19 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.	No impacts update.
44	121369756	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.	Service Agreement returned with payment by SFPUC. PG&E performing engineering/design.	6/1/2020	5/20/2021	3/8/2021	Yes	144 kW/Yes		Project delayed - project was in dispute from Jun. 2020 - Mar. 2020 (8-9 months).	No impacts update.
45	123379714	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 moving forward with primary.	Service Agreement returned with payment by SFPUC. PG&E performing engineering/design.	10/26/2020	1/28/2022	6/1/2021	Yes	305 kW/Yes		Additional project costs for primary service - \$500k for primary switchgear	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 (July 2022)	
46	123409909	2340 San Jose Ave. - Affordable Housing (138 units)	12	MOHCD	New secondary service	Delays caused by dispute over primary vs. secondary. Project will be moving forward with secondary.	Service Agreement returned with payment by SFPUC. PG&E performing engineering/design.	11/21/2019	4/25/2022	5/1/2020	Yes	800 kW/Yes	Project delayed - project was in dispute from Jan. 2020 to Sept. 2021 (20-21 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.	No impacts update.
47	Several applications submitted	Contract 65 - Traffic Signals	Various	SFMTA	New unmetered secondary services (several traffic signals)	Delays caused by PG&E cancelling applications and being un-responsive	In construction	1/16/2020	Various	Spring 2023	No	N/A	Delays continue as PG&E has cancelled some applications which will cause redesign and change orders - costs impact TBD. These delays will impact the construction schedule.	Project added.
48	N/A	1900 El Camino Real - Water Testing Equipment	N/A	SFPUC	New secondary service	Delays caused by PG&E not providing the Service Agreement within a reasonable timeframe.	Service Agreement returned with payment by SFPUC. PG&E performing engineering/design.	10/30/2020	3/1/3021	5/31/2019	No	2 kW/Yes	Project delayed - PG&E has been performing engineering/design since March 2022. PG&E's timeline for completion has been pushed back from July 2022 to October 2022.	Project added.
49	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.
50	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.
51	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 was released to PG&E retail service to avoid delays. Cost impacts and greenhouse gas emission impacts are TBD.
52	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.	SF reviewing Service Agreement.	11/20/2020	N/A	12/6/2021	Yes	50 kW/Yes	Project delayed - project was in dispute from Feb. - April 2021 (1-2 months).	No impacts update.

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. CO₂ 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 A2

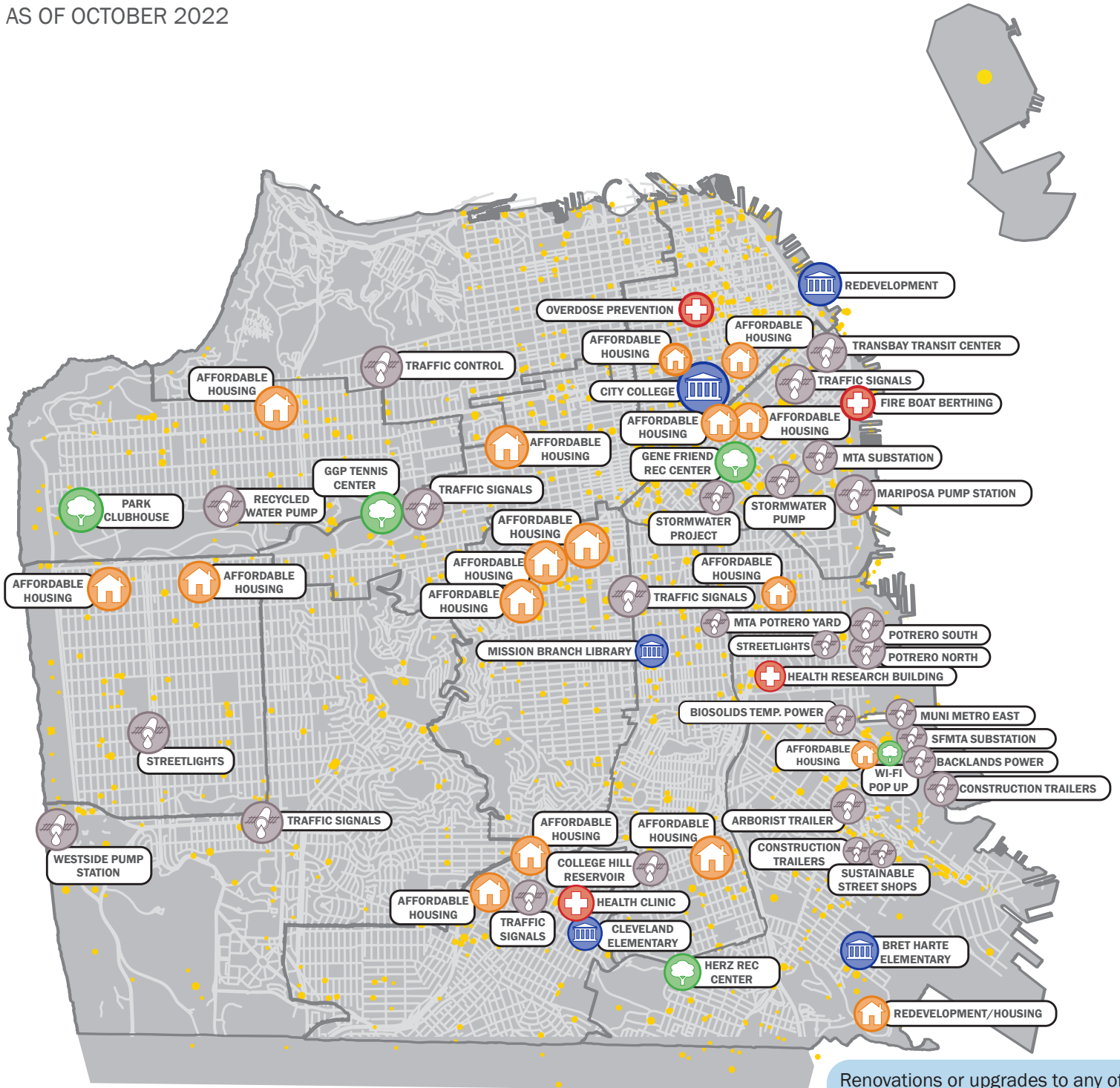
A	B	C	D	E	F	G
	Project Location	District #	Client Organization	Project Description (what SF applied for)	Impacts	Updates/Changes since Last Report (Sept.2021)
1	970 47th Ave. - Golden Gate Park Clubhouse (temporary trailer)	1	SFRPD	New temporary secondary service	Project has been delayed several months. SF originally applied for service before WDT3 and after months of back and forth, PG&E stated they could not provide the service. Temp. power service by PG&E at retail - estimated \$21k in lost gross revenue to SFPUC and \$33k in additional power costs to the project due to PG&E's higher rates.	No impacts update.
2	4200 Geary Blvd.- Affordable Housing (construction power)	1	MOHCD	New temporary secondary service	Temp. construction power service by PG&E at retail - \$45k in lost gross revenue to SFPUC. \$8k in additional power costs to the project due to PG&E's higher rates.	No impacts update.
3	822 Geary St. - Overdose Prevention and Crisis Stabilization	3	DPH	New permanent secondary service	\$151k/yr in lost gross revenue to SFPUC. \$8k/yr in additional power costs to the project due to PG&E's higher rates	Project added.
4	Seawall Lots 323 & 324 - Hotel & Theater (construction power)	3	Teatro Zinzanni	New temporary secondary service	Temp. construction power service by PG&E at retail - \$132k in lost gross revenue to SFPUC. \$4k in additional power costs to the project due to PG&E's higher rates.	No impacts update.
5	2550 Irving St. - Affordable Housing (construction power)	4	MOHCD	New temporary secondary service	Temp. construction power service by PG&E at retail - \$256k in lost gross revenue to SFPUC. \$30k in additional power costs to the project due to PG&E's higher rates.	Project added.
6	730 Stanyan St. - Affordable Housing (construction power)	5	MOHCD	New temporary secondary service	Temp. construction power service by PG&E at retail - \$148k in lost gross revenue to SFPUC. \$28k in additional power costs to the project due to PG&E's higher rates.	No impacts update.
7	16th St. & Harrison - Stormwater Project	6	SFPUC	New permanent secondary service	\$1k/yr in lost gross revenue to SFPUC. \$12/yr in additional power costs to the project due to PG&E's higher rates.	Project added.
8	202 Channel Street - Mission Bay Stormwater Pump Station	6	SFPUC	New permanent secondary service	\$113k/yr in lost gross revenue to SFPUC. \$6k/yr in additional power costs to the project due to PG&E's higher rates.	Project added.
9	240 Van Ness Ave. - Affordable Housing (construction power)	6	MOHCD	New temporary secondary service	Temp. construction power service by PG&E at retail - \$87k in lost gross revenue to SFPUC. \$15k in additional power costs to the project due to PG&E's higher rates.	No impacts update.
10	600 7th St. - Affordable Housing (construction power)	6	MOHCD	New temporary secondary service	Temp. construction power service by PG&E at retail - \$189k in lost gross revenue to SFPUC. \$20k in additional power costs to the project due to PG&E's higher rates.	No impacts update.
11	2530 18th St. - Homeless Prenatal Program Family Housing (construction power)	9	Homeless Prenatal Program/MOHCD	New temporary secondary service	Temp. construction power service by PG&E at retail - \$246k in lost gross revenue to SFPUC. \$93k in additional power costs to the project due to PG&E's higher rates.	
12	India Basin - 900 Innes (construction power)	10	SFRPD	New temporary secondary service	Temp. construction power using generators - costs TBD. Temp. power service from different source - estimated \$18k in lost gross revenue to SFPUC.	Impacts updated to show estimated lost gross revenue due to PG&E not letting SFPUC serve at secondary.
13	India Basin - Wi-fi Pop-Up	10	SFRPD	New temporary secondary service	Temp. power service currently using generators - costs TBD. Application has been submitted to PG&E retail for future service - \$15k in lost gross revenue to SFPUC. \$24k in additional power costs to the project due to PG&E's higher rates.	No impacts update.
14	1035 Gilman Ave - Bret Harte Elementary (temporary trailer)	10	SFUSD	New temporary secondary service	SF had initially applied to PG&E for temp. power service. PG&E was unable to meet the project's schedule, so the project team redesigned and revised the plans so that the project could connect to the portables to the existing service.	Impacts updated to show estimated lost gross revenue due to PG&E not letting SFPUC serve at secondary.
15	200 San Andreas Valley Rd. - Fiber Optic Amplifier	N/A	SFPUC	New permanent secondary service	\$700/yr in lost gross revenue to SFPUC. \$25/yr in additional power costs to the project due to PG&E's higher rates.	Project added.
16	Streetlights	N/A	SFPUC	New unmetered service	Cost impact TBD. New streetlights have had to apply to PG&E for retail service and will have to pay PG&E's higher rates.	No impacts update.
17	Traffic Controllers	N/A	SFMTA	New unmetered service	Cost impact TBD. New traffic controllers have had to apply to PG&E for retail service and will incur additional costs due to PG&E now requiring traffic controllers to have meters.	No impacts update.

ATTACHMENT B – MAP OF INTERCONNECTION ISSUES



Services of the San Francisco Public Utilities Commission

AS OF OCTOBER 2022



Renovations or upgrades to any of these service points could trigger service disputes and delays.



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
	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	35 Overlook Dr. - Recycled Water Pump						\$ -		
2	3455 Van Ness Avenue - AWSS Pump Station No. 2	\$ 75,000					\$ 75,000		
3	19th Avenue - Traffic Signals						\$ -		
4	L Taraval - Streetlights						\$ -		
5	1351 42nd Street - Affordable Housing (Francis Scott Key Educator Housing)			\$ 25,000			\$ 25,000	\$ 118,000	
6	50 Bowling Green Drive - GGP Tennis Center	\$ 150,000	\$ 275,000				\$ 425,000		
7	78 Haight Street - Affordable Housing			\$ 6,000			\$ 6,000	\$ 38,000	
8	Haight Street - Traffic Signals						\$ -		
9	Folsom Streetscape - Traffic Signals						\$ -		
10	6 Berry Street - Substation						\$ -		
11	399 The Embarcadero - Fire Boat #35	\$ 67,000	\$ 1,400,000		\$ 598,000		\$ 2,065,000		
12	555 Larkin (formerly 500 Turk Street) - Affordable Housing	\$ 150,000		\$ 24,000			\$ 174,000	\$ 196,000	243,000
13	Market St. & 7th St. - BMS Switch						\$ -		
14	Transbay Transit Center - Transbay Joint Powers Authority*		\$ 5,000,000				\$ 5,000,000		
15	180 Jones Street - Affordable Housing			\$ 20,000			\$ 20,000	\$ 89,000	
16	266 4th Street - Affordable Housing						\$ -		
17	750 Eddy Street - City College (Alemany)	\$ 500,000					\$ 500,000		
18	600 7th Street - Affordable Housing			\$ 28,000			\$ 28,000	\$ 191,000	
19	270 6th Street - Gene Friend Rec Center	\$ 500,000					\$ 500,000		
20	2814 Great Highway - Westside Pump Station						\$ -		
21	16th Street Improvement - Traffic Signals						\$ -		
22	2500 Mariposa St - Potrero Yard Modernization (Industrial)						\$ -		
23	2500 Mariposa St - Potrero Yard Modernization (Mixed-Use)						\$ -		
24	102 Santa Marina Street - College Hill Reservoir						\$ -		
25	3001-3021 24th Street - Affordable Housing						\$ -		
26	300 Bartlett Street - Mission Branch Library	\$ 250,000					\$ 250,000		
27	601 25th Street - Muni Metro East Expansion						\$ -		
28	800 Amador Street - Pier 94 - Backlands	\$ 50,000	\$ 500,000			\$ 50,000	\$ 600,000		
29	Illinois St. & Terry Francois - Mariposa Pump Station		\$ 245,000	\$ 303,000			\$ 548,000	\$ 526,000	554,000
30	684 23rd Street - Potrero North						\$ -		
31	638 23rd Street - Potrero South						\$ -		
32	1150 Phelps - Construction Trailers			\$ 286,000			\$ 286,000	\$ 2,000,000	
33	Harmonia Street - Sunnysdale HOPE						\$ -		
34	1101 Connecticut Street - HOPE Potrero						\$ -		

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	
35	603 Jamestown Avenue - Redevelopment Project						\$ -			
36	702 Phelps Street - SFMTA Substation						\$ -			
37	1800 Jerrold Avenue - Biosolids (Temp. Power)						\$ -			
38	901 Tennessee Street						\$ -			
39	1508 Bancroft Avenue - Sustainable Streets Shop						\$ -			
40	1001 Potrero Avenue - UCSF/SFGH Research & Academic Building Construction and Permanent Power			\$ 30,000			\$ 30,000	\$ 287,000		
41	1920 Evans - Arborist Trailer/BUF Yard						\$ -			
42	160 Hahn Street - Herz Recreation Center	\$ 500,000					\$ 500,000			
43	4840 Mission Street - Affordable Housing			\$ 47,000			\$ 47,000	\$ 301,000		
44	35-45 Onondaga Avenue - Health Clinic						\$ -			
45	455 Athens Street - Cleveland Elementary School									
46	2340 San Jose Avenue - Affordable Housing			\$ 35,000			\$ 35,000	\$ 191,000		
47	Contract 65 - Traffic Signals (Various locations)									
48	1900 El Camino Real - Water Testing Equipment									
49	Multiple Locations - Guy Wires (Franchise Issue)						\$ -			
50	Multiple Service Transfers						\$ -			
51	10501 Warnerville Road - Substation Rehabilitation Project						\$ -			
52	951 Antoinette Lane - Well Pump & Control Panel						\$ -			
53	970 47th Avenue - Golden Gate Park Clubhouse (Temp)			\$ 33,000			\$ 33,000	\$ 21,000		
54	4200 Geary Blvd.- Affordable Housing (construction)			\$ 8,000			\$ 8,000	\$ 45,000		
55	822 Geary St. - Overdose Prevention and Crisis Stabilization			\$ 8,000			\$ 8,000	\$ 151,000		
56	Seawall Lots 323 & 324 - Hotel & Theater (construction)			\$ 4,000			\$ 4,000	\$ 132,000		
57	2550 Irving St. - Affordable Housing (construction)			\$ 30,000			\$ 30,000	\$ 256,000		
58	730 Stanyan St. - Affordable Housing (construction)			\$ 28,000			\$ 28,000	\$ 148,000		
59	16th St. & Harrison - Stormwater Project			\$ 12			\$ 12	\$ 1,000		
60	202 Channel St. - Mission Bay Stormwater Pump Station			\$ 6,000			\$ 6,000	\$ 113,000		
61	240 Van Ness Ave. - Affordable Housing (construction)			\$ 15,000			\$ 15,000	\$ 87,000		
62	2530 18th St. - Homeless Prenatal/Affordable Housing (construction)			\$ 93,000			\$ 93,000	\$ 246,000		
63	India Basin - 900 Innes (construction power)						\$ -	\$ 18,000		
64	India Basin - Wi-fi Pop-Up			\$ 24,000			\$ 24,000	\$ 15,000		
65	1035 Gilman Ave - Bret Harte Elementary (temporary trailer)						\$ -			
66	200 San Andreas Valley Rd. - Fiber Optic Amplifier			\$ 25			\$ 25	\$ 700		
67	Streetlights						\$ -			
68	Traffic Controllers						\$ -			
TOTAL		\$ 117,000	\$ 2,625,000	\$ 6,920,000	\$ 1,053,037	\$ 598,000	\$ 50,000	\$ 11,363,037	\$ 5,170,700	\$ 797,000

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

Total Additional Project Costs	\$ 11,363,037.00
Total Lost Gross Revenue to SFPUC	\$ 5,170,700.00
Total Cost Impact to SF (Project Costs + Lost Revenue)	\$ 16,533,737.00
Total CO2 Emissions (lbs.)	797,000

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

*The costs for #11 Transbay Transit Center are still being verified. See Attachment A for more details.