

PACIFIC GAS AND ELECTRIC COMPANY
Wildfire Mitigation Plans Discovery 2023
Data Response

PG&E Data Request No.:	CalAdvocates_003-Q001		
PG&E File Name:	WMP-Discovery2023_DR_CalAdvocates_003-Q001		
Request Date:	February 7, 2023	Requester DR No.:	CalAdvocates-PGE-2023WMP-03
Date Sent:	March 10, 2023	Requesting Party:	Public Advocates Office
DRU Index #:	DRU11413	Requester:	Holly Wehrman

QUESTION 001

Provide an Excel table of all distribution circuits existing as of January 1, 2023 (as rows) that includes the following information in separate columns.

- a. Circuit name
- b. Circuit ID number
- c. Total circuit miles
- d. Circuit miles in Non-HFTD Areas
- e. Circuit miles in Other HFTD
- f. Circuit miles in HFTD Tier 2
- g. Circuit miles in HFTD Tier 3
- h. Circuit voltage
- i. Circuit SAIDI (System Average Interruption Duration Index) for 2021
- j. Circuit SAIDI (System Average Interruption Duration Index) for 2022
- k. Circuit SAIFI (System Average Interruption Frequency Index) for 2021
- l. Circuit SAIFI (System Average Interruption Frequency Index) for 2022
- m. Circuit MAIFI (Momentary Average Interruption Frequency Index) for 2021
- n. Circuit MAIFI (Momentary Average Interruption Frequency Index) for 2022
- o. Total customer-minutes of de-energization on the circuit due to PSPS events in 2021 (sum of customer-minutes across all PSPS events).
- p. Total customer-minutes of de-energization on the circuit due to PSPS events in 2022 (sum of customer-minutes across all PSPS events).
- q. Total customer-minutes of de-energization on the circuit due to fast-trip settings in 2021.
- r. Total customer-minutes of de-energization on the circuit due to fast-trip settings in 2022.
- s. Number of trees that were worked on for EVM in Non-HFTD in 2021
- t. Number of trees that were worked on for EVM in Non-HFTD in 2022

- u. Number of trees that were worked on for EVM in Other HFTD in 2021
- v. Number of trees that were worked on for EVM in Other HFTD in 2022
- w. Number of trees that were worked on for EVM in HFTD Tier 2 in 2021
- x. Number of trees that were worked on for EVM in HFTD Tier 2 in 2022
- y. Number of trees that were worked on for EVM in HFTD Tier 3 in 2021
- z. Number of trees that were worked on for EVM in HFTD Tier 3 in 2022
- aa. Miles of covered conductor installed in Non-HFTD in 2021
- bb. Miles of covered conductor installed in Non-HFTD in 2022
- cc. Miles of covered conductor installed in Other HFTD in 2021
- dd. Miles of covered conductor installed in Other HFTD in 2022
- ee. Miles of covered conductor installed in HFTD Tier 2 in 2021
- ff. Miles of covered conductor installed in HFTD Tier 2 in 2022
- gg. Miles of covered conductor installed in HFTD Tier 3 in 2021
- hh. Miles of covered conductor installed in HFTD Tier 3 in 2022
- ii. Number of poles replaced in Non-HFTD in 2021
- jj. Number of poles replaced in Non-HFTD in 2022
- kk. Number of poles replaced in Other HFTD in 2021
- ll. Number of poles replaced in Other HFTD in 2022
- mm. Number of poles replaced in HFTD Tier 2 in 2021
- nn. Number of poles replaced in HFTD Tier 2 in 2022
- oo. Number of poles replaced in HFTD Tier 3 in 2021
- pp. Number of poles replaced in HFTD Tier 3 in 2022
- qq. Miles of underground conductor installation in Non-HFTD in 2021
- rr. Miles of underground conductor installation in Non-HFTD in 2022
- ss. Miles of underground conductor installation in Other HFTD in 2021
- tt. Miles of underground conductor installation in Other HFTD in 2022
- uu. Miles of underground conductor installation in HFTD Tier 2 in 2021
- vv. Miles of underground conductor installation in HFTD Tier 2 in 2022
- ww. Miles of underground conductor installation in HFTD Tier 3 in 2021
- xx. Miles of underground conductor installation in HFTD Tier 3 in 2022
- yy. Miles of LiDAR inspection in Non-HFTD in 2021
- zz. Miles of LiDAR inspection in Non-HFTD in 2022
- aaa. Miles of LiDAR inspection in Other HFTD in 2021
- bbb. Miles of LiDAR inspection in Other HFTD in 2022

- ccc. Miles of LiDAR inspection in HFTD Tier 2 in 2021
- ddd. Miles of LiDAR inspection in HFTD Tier 2 in 2022
- eee. Miles of LiDAR inspection in HFTD Tier 3 in 2021
- fff. Miles of LiDAR inspection in HFTD Tier 3 in 2022
- ggg. Number of detailed overhead inspections in Non-HFTD in 2021
- hhh. Number of detailed overhead inspections in Non-HFTD in 2022
- iii. Number of detailed overhead inspections in Other HFTD in 2021
- jjj. Number of detailed overhead inspections in Other HFTD in 2022
- kkk. Number of detailed overhead inspections in HFTD Tier 2 in 2021
- lll. Number of detailed overhead inspections in HFTD Tier 2 in 2022
- mmm. Number of detailed overhead inspections in HFTD Tier 3 in 2021
- nnn. Number of detailed overhead inspections in HFTD Tier 3 in 2022
- ooo. Number of sectionalization devices installed in Non-HFTD in 2021
- ppp. Number of sectionalization devices installed in Non-HFTD in 2022
- qqq. Number of sectionalization devices installed in Other HFTD in 2021
- rrr. Number of sectionalization devices installed in Other HFTD in 2022
- sss. Number of sectionalization devices installed in HFTD Tier 2 in 2021
- ttt. Number of sectionalization devices installed in HFTD Tier 2 in 2022
- uuu. Number of sectionalization devices installed in HFTD Tier 3 in 2021
- vvv. Number of sectionalization devices installed in HFTD Tier 3 in 2022

ANSWER 001

PG&E is providing the requested distribution information at the circuit level in attachment “WMP-Discovery2023_DR_CalAdvocates_003-Q001Atch01.xlsx.” Included in the table below are notes that document assumptions in the methodology for data collection. Where we have not included any notes, the data provided did not require adaptations or assumptions in answering the request. For purposes of this request, “Other HFTD” refers to Zone 1 areas.

Asset data provided in response to this request was generated from PG&E’s Geographic Information Systems (GIS) and presented in a spreadsheet format. PG&E’s Electric Transmission GIS and Electric Distribution GIS mapping systems represent assets associated with construction work when that work has been received and mapped by electric GIS mapping technicians. Construction jobs that are partially complete or fully complete may be mapped in the GIS systems once construction “as-built” information has been submitted and accepted by the GIS Mapping Department. Prior to being received by the GIS Mapping Department, completed job packages must undergo several processing steps including clerical review, processing, and paperwork

scanning. Sometimes completed job packages require additional information from the field or post-estimating work. The processing steps take time to complete. Until a project is completed and mapped, detailed information remains in the design systems and paper job packages. Therefore, completed field work is not always reflected in the current GIS systems.

Once data is mapped in PG&E's GIS systems, it can be formatted to meet the requirements of the Office of Energy Infrastructure Safety (Energy Safety) File Geodatabase schema and included in our GIS Data Standard submissions.

Data	Question	Notes
Circuit Information	a-h	<p>Some circuits can have multiple voltages. Where this occurs, the Circuit Voltage in column g reflects the voltage of the majority of the circuit (based on circuit miles).</p> <p>Please note, Circuit IDs and Circuit Names representing idle circuits were not included in this response.</p>
SAIDI/SAIFI/MAIFI	i-n	<p>All transmission, substation, and distribution level outages as of February 22, 2023 were used to quantify the metric results as measured at the individual distribution circuit level and include Major Event Days (as defined in the IEEE 1366 Standard). The denominator used for each calculation is based on the number of customers served by each circuit (based on the system confirmation at the end of 2022 and may not represent the same circuit configuration at the time of each contributing outage event).</p>
De-Energization	o-r	<p>As previously stated in our PSPS Post Event De-Energization reports submitted to the CPUC: "The information, times and figures referenced in this report are based on the best available information available at the time of this report's submission. The information, times and figures herein are subject to revision based on further analysis and validation." As such, we note that there are some minor updated revisions in the data included in this submission, as compared to the data that may have been previously reported in previous submissions immediately following the events, due to further data reconciliation and analysis having been performed in the time which has elapsed between this report and any other previous submissions.</p> <p>In some circumstances, PG&E may conclude a PSPS event before all customers are restored. For example, when there is an ongoing fire that prohibits PG&E from restoring customers or extensive weather-related damages that require extended outages while crews safely repair the area. The outage durations for these customers are not included in Questions 1o-p and Questions 2i-j, as we do not have restoration dates and times for those customers. For information on which</p>

Data	Question	Notes
		<p>circuits were not restored prior to concluding the PSPS, please see the “Time, Place, Duration, and Affected Customers” appendix section of the PSPS Post-Event Reports.</p> <p>Please note that the sum of PSPS customer outage durations is rounded up to the whole minute for each circuit to be consistent with data included in past data responses.</p> <p>This data request response will reference all outages associated with a PSPS event, including those which are either indirect effects of the PSPS event and are not direct de-energizations, or brief outages occurring as a result of microgrid switching, or temporary generation used as part of PSPS mitigation solution. Most switching in a PSPS event to re-energize customers takes place, typically, between five minutes and one hour, and that re-energization occurring within four hours of de-energization or outages less than four hours, typically, can likely be attributed to switching.</p>
EVM	s-z	
Covered Conductor	aa-hh	
Number of Poles Replaced	ii-pp	PG&E’s system of record does not have a relationship between circuits and poles, and therefore we cannot provide this data in the format requested. However, we can provide the data for poles replaced in 2021 and 2022 by SAP Equipment ID. Please see “WMP-Discovery2023_DR_CalAdvocates_003-Q01Aatch02.xlsx.”
Underground Conductor Installation	qq-xx	<p>The information for underground miles provided is based on the distribution underground cable recorded in PG&E’s mapping system (EDGIS).</p> <p>The total miles installed are based on the “year installed” as recorded in EDGIS for each individual circuit then added together to provide the cumulative total.</p> <p>These underground miles are comprised primarily of new business, capacity, reliability, cable replacement, customer requested, Rule20, and fire hardening undergrounding work.</p>
LiDAR inspection	yy-fff	
Detailed Overhead Inspections	ggg-nnn	
Sectionalization Devices	ooo-vvv	Sectionalization devices include remotely operable SCADA sectionalizing devices and manually operated sectionalizing devices (i.e., reclosers, not fuses).