PACIFIC GAS AND ELECTRIC COMPANY
Wildfire Mitigation Plans Discovery 2023-2025
Data Response

PG&E Data Request No.:	CalAdvocates_038-Q001		
PG&E File Name:	WMP-Discovery2023-2025_DR_CalAdvocates_038-Q001		
Request Date:	March 20, 2024	Requester DR No.:	CalAdvocates-PGE-2025WMP-02
Date Sent:	April 19, 2024	Requesting Party:	Public Advocates Office
PG&E Witness:		Requester:	Holly Wehrman

Please note that, for this data request, the geographical regions are mutually exclusive (i.e., "Other HFTD" excludes areas that are in either Tier 2 or Tier 3). Therefore, for any given circuit, the following relationships should hold:

- Tier 2 miles + Tier 3 miles + Other HFTD miles = total HFTD miles.
- Tier 2 miles + Tier 3 miles + Other HFTD miles + non-HFTD miles = total circuit miles.

QUESTION 001

Provide an Excel table of all distribution circuit-segments existing as of January 1, 2024 (as rows) that includes the below information in separate columns. If PG&E is unable to provide some or all of the requested information at the circuit-segment level, provide such data at the circuit level instead and explain why PG&E is unable to provide circuit-segment level data.

a) Circuit-segment name
b) Circuit name
c) Circuit ID number
d) Total circuit miles
e) Circuit miles in Non-HFTD
f) Circuit miles in Other HFTD
g) Circuit miles in HFTD Tier 2
h) Circuit miles in HFTD Tier 3
i) Circuit voltage
j) Circuit SAIDI (System Average Interruption Duration Index) for 2023
k) Circuit SAIFI (System Average Interruption Frequency Index) for 2023
l) Circuit MAIFI (Momentary Average Interruption Frequency Index) for 2023
m) Total customer-minutes of de-energization on the circuit due to PSPS events in 2023 (sum of customer-minutes across all PSPS events)
n) Total customer-minutes of de-energization on the circuit due to fast-trip settings in 2023

o) Miles of covered conductor installed in Non-HFTD in 2023
p) Miles of covered conductor installed in Other HFTD in 2023
q) Miles of covered conductor installed in HFTD Tier 2 in 2023
r) Miles of covered conductor installed in HFTD Tier 3 in 2023
s) Number of poles replaced in Non-HFTD in 2023
t) Number of poles replaced in Other HFTD in 2023
u) Number of poles replaced in HFTD Tier 2 in 2023
v) Number of poles replaced in HFTD Tier 3 in 2023
w) Miles of underground conductor installation in Non-HFTD in 2023
x) Miles of underground conductor installation in Other HFTD in 2023
y) Miles of underground conductor installation in HFTD Tier 2 in 2023
z) Miles of underground conductor installation in HFTD Tier 3 in 2023
aa) Miles of LiDAR inspection in Non-HFTD in 2023
bb) Miles of LiDAR inspection in Other HFTD in 2023
cc) Miles of LiDAR inspection in HFTD Tier 2 in 2023
dd) Miles of LiDAR inspection in HFTD Tier 3 in 2023
ee) Number of detailed ground-based inspections in Non-HFTD in 2023
ff) Number of detailed ground-based inspections in Other HFTD in 2023
gg) Number of detailed ground-based inspections in HFTD Tier 2 in 2023
hh) Number of detailed ground-based inspections in HFTD Tier 3 in 2023
ii) Number or miles of detailed aerial inspections in Non-HFTD in 2023 (specify units)
jj) Number or miles of detailed aerial inspections in Other HFTD in 2023 (specify units)
kk) Number or miles of detailed aerial inspections in HFTD Tier 2in 2023 (specify units)
ll) Number or miles of detailed aerial inspections in HFTD Tier 3 in 2023 (specify units)
mm) Number of sectionalization devices installed in Non-HFTD in 2023
nn) Number of sectionalization devices installed in Other HFTD in 2023
oo) Number of sectionalization devices installed in HFTD Tier 2 in 2023
pp) Number of sectionalization devices installed in HFTD Tier 3 in 2023
qq) Number of trees worked under VM for Operational Mitigations in Non-HFTD in 2023
rr) Number of trees worked under VM for Operational Mitigations in Other HFTD in 2023
ss) Number of trees worked under VM for Operational Mitigations in HFTD Tier 2 in 2023
tt) Number of trees worked under VM for Operational Mitigations in HFTD Tier 3 in 2023
uu) Number of trees worked under Focused Tree Inspections in Non-HFTD in 2023

vv) Number of trees worked under Focused Tree Inspections in Other HFTD in 2023

ww)Number of trees worked under Focused Tree Inspections in HFTD Tier 2 in 2023

xx) Number of trees worked under Focused Tree Inspections in HFTD Tier 3 in 2023.

ANSWER 001

PG&E is providing the requested distribution information at the circuit level in attachment "WMP-Discovery2023-2025_DR_CalAdvocates_038-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. Please note that our SAIDI, SAIFI, and MAIFI data is not available at this time. The data will be available following the finalization of our Annual Reliability Report on July 15, 2024.

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. Please note that circuit-segments are not defined on an enterprise level such that the asset information produced from EDGIS can be produced on a circuit-segment level.

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-i	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). Please note, Circuit IDs and Circuit Names representing idle circuits were not included in this response.
SAIDI/SAIFI/MAIFI	j-l	N/A
De-Energization - PSPS	m	Please see WMP-Discovery2023-2025_DR_CalAdvocates_038-Q001Atch02.xlsx for the

Data	Question	Notes
		requested information provided on a circuit-segment level. Please note that PSPS defines a "circuit segment" to be bounded by the nearest upstream and downstream protective devices. Circuit segments may change over time due to changes to our assets and protective devices. This data is provided using the circuit segments as they existed on January 1, 2024. For outage minutes not attributable to a circuit segment that existed as of January 1, 2024, circuit segments from the start of the month closest to the event were used. A [NULL] category is included to show PSPS outage minutes that cannot be attributed to circuit segments that existed as of January 1, 2024 or the start of the month closest to the event. 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. Please note that the sum of PSPS customer outage durations is rounded up to the whole minute for each circuit segment to be consistent with data included in past data responses. 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.
De-Energization - EPSS	n	Please see WMP-Discovery2023-2025_DR_CalAdvocates_038-Q001Atch03.xlsx for the requested information provided on a circuit-segment level. Please note, the circuit segment reported here reflects the circuit segment of the EPSS-enabled protective device the originating fault occurred on. Circuit segments may change over time due to changes to our assets and protective devices. This data is

Data	Question	Notes
		provided using the circuit segments as they existed on February 2, 2024.
Covered Conductor	o-r	
Number of Poles Replaced	s-v	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 2023 by SAP Equipment ID. Please see "WMP-Discovery2023-2025_DR_CalAdvocates_038-Q01Atch04xlxs."
Underground Conductor Installation	w-z	The information for underground miles provided is based on the distribution underground cable recorded in PG&E's mapping system (EDGIS). 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. These underground miles are comprised primarily of new business, capacity, reliability, cable replacement, customer requested, Rule20, and fire hardening undergrounding work.
LiDAR inspection	aa-dd	LiDAR is a supplemental source of data to support various lines of business including vegetation management, mapping, engineering, and inspections. Please note that the provided LiDAR data is associated only with PG&E's work on above-ground electric assets. Please note that LiDAR data is not stored or categorized by circuit-segment.
Detailed Ground Inspections	ee-hh	Please note that System Inspections data is not stored or categorized by circuit-segment.
Detailed Aerial Inspections	ii-ll	Please note that System Inspections data is not stored or categorized by circuit-segment.
Sectionalization Devices	mm-pp	Sectionalization devices include remotely operable SCADA sectionalizing devices and manually operated sectionalizing devices (i.e., reclosers, not fuses).
Tree Work under VM for Operational Mitigations	qq-tt	Please note that VM data is not stored or categorized by circuit-segment.
Tree Work under Focused Tree Inspections	uu-xx	Please note that VM data is not stored or categorized by circuit-segment.