PACIFIC GAS AND ELECTRIC COMPANY
Wildfire Mitigations Plans Discovery 2026-2028
Data Response

PG&E Data Request No.:	OEIS_001-Q022
PG&E File Name:	WMP-Discovery2026-2028_DR_OEIS_001-Q022
Request Date:	April 8, 2025
Requester DR No.:	OEIS-P-WMP_2025-PGE-001
Requesting Party:	Office of Energy Infrastructure Safety
Requester:	Nathan Poon
Date Sent:	April 11, 2025

SUBJECT: REGARDING REAL TIME SENSORS

QUESTION 022

On page 237 of its 2026-2028 Base WMP, PG&E states that it is piloting real time sensors that may collect data that in the future can be used in lieu of aerial scan inspections.

a. Provide a list of sensors that are being/will be piloted from 2026-2028.

b. For each sensor provide the following information

   i. Manufacturer

   ii. Model number/series

   iii. Data the sensor records/transmits (voltage, current, power quality, temperature, vibration, etc.)

   iv. Current phase of pilot (planning, execution, evaluation, scaling)

   v. Estimated completion date of pilot evaluation phase

Answer 022

PG&E is still early in exploring the relationship between grid sensors' continuous monitoring capabilities and how they may be used to supplement electrical asset inspections. Information on our current distribution grid sensor technologies follows below.

a. During the 2026-2028 period, we anticipate scaling deployment of Early Fault Detection (EFD) sensors, Distribution Fault Anticipator (DFA) sensors, and Gridscope sensors.

b. Please see below for the requested information on sensor technology. As these sensors are beyond pilot phase, we are also providing the approximate number of sensors we have installed to date.

Sensor	EFD	DFA	Gridscope
Manufacturer	IND Technologies	Power Solutions / Texas A&M University	Gridware
Approximate Number Installed	203	96	10,000
Model Number / Series	EFD G4; EFD.Tap	R5A1-0	Gridscope
Data the sensor records/transmits (voltage, current, power quality, temperature, vibration, etc.)	Radio frequency detections, temperature	Voltage, current	Vibration, acceleration, inclination, electric field voltage, infrared readings, temperature, barometric pressure, particulate matter, humidity, audio, images
Current phase of pilot (planning, execution, evaluation, scaling)	Scaling	Scaling	Scaling
Estimated completion date of pilot evaluation phase	The pilot evaluation phase is now complete. We plan to scale deployment of this technology in a manner that supports reliability improvements, optimization of inspection and maintenance work, and wildfire situational awareness.	The pilot evaluation phase is now complete. We plan to scale deployment of this technology in a manner that supports reliability improvements, optimization of inspection and maintenance work, and wildfire situational awareness.	The pilot evaluation phase is now complete. We plan to scale deployment of this technology in a manner that supports reliability improvements, optimization of inspection and maintenance work, and wildfire situational awareness.