

**PACIFIC GAS AND ELECTRIC COMPANY
Wildfire Mitigation Plans Discovery 2022
Data Response**

PG&E Data Request No.:	CalAdvocates_016-Q06		
PG&E File Name:	WMP-Discovery2022_DR_CalAdvocates_016-Q06		
Request Date:	March 18, 2022	Requester DR No.:	CalAdvocates-PGE-2022WMP-16
Date Sent:	March 23, 2022	Requesting Party:	Public Advocates Office
PG&E Witness:		Requester:	Dillon Copa

The following questions relate to your 2022 WMP Update submission.

QUESTION 06

Section 7.3.5.7 of PG&E's 2022 WMP discuss remote sensing inspections of vegetation around distribution electric lines and equipment.

- a) Please describe the circumstances in which PG&E employs ground-based LiDAR inspections.
- b) Please describe the circumstances in which PG&E employs aerial LiDAR inspections.
- c) If PG&E uses ground-based LiDAR inspections more often than aerial LiDAR, please explain why.
- d) What is the approximate total cost per circuit-mile to perform ground-based LiDAR inspections on distribution circuits?
- e) What is the approximate total cost per circuit-mile to perform aerial LiDAR inspections on distribution circuits?
- f) When PG&E performs ground-based LiDAR inspections, is this work performed at the same time as VM patrols, inspection patrols, or other patrol work, in order to minimize costs? Please explain your response.

ANSWER 06

- a) Ground Based LiDAR (GBL) is employed for vegetation management (VM) inspections on selected HFTD road-access distribution lines on a VM Routine Project basis. The specific VM Projects in scope for the 2022 year will be determined by their estimated risk, mileage, program mileage commitment, and Routine VM schedule.
- b) Aerial LIDAR collections is not part of the current or expected scope of WMP Initiative 7.3.5.7.
- c) The current use case for VM Distribution LIDAR is tied to the VM Routine Program. LIDAR collection in line with the VM Routine schedule requires more agility than is currently possible with aerial LIDAR collections.

- d) GBL scanning costs are approximately \$400 per mile, including scanning, data processing and electrical asset and vegetation feature extraction.
- e) Past, large scale aerial collections averaged approximately \$450 per mile for collection and data processing. This average cost results from collection of hundreds of miles per day and several thousand total miles and thus is incompatible with the current use case.
- f) LIDAR data collections are collected by a Vendor hired vehicle and are scheduled to occur approximately 4 months following Routine PI Inspections. This allows time for the majority of seasonal tree work to be completed before the LIDAR collection. This collection cannot be combined with other VM patrols.