

PACIFIC GAS AND ELECTRIC COMPANY
Wildfire Mitigation Plans
Rulemaking 18-10-007
Data Response

PG&E Data Request No.:	WSD_013-Q01		
PG&E File Name:	WildfireMitigationPlans_DR_WSD_013-Q01		
Request Date:	April 2, 2021	Requester DR No.:	WSD_DR_08 Email Transmittal
Date Sent:	April 7, 2021	Requesting Party:	Wildfire Safety Division
PG&E Witness:		Requester:	Ryan Arba

QUESTION 01

On page 139 of its 2021 WMP Update, PG&E stated that they have “currently contracted Energy and Environmental Economics, Inc. to perform a review and validation of the modeling methodology, code, model results and application to be completed in the spring 2021.”

- a. PG&E shall provide: a) a table to display which specific models are being reviewed by Energy and Environmental Economics, Inc., b) the timeline of the review and validation including an end date, c) an itemized list with descriptions of specific areas to be reviewed and validated including categories for effectiveness, accuracy, areas of improvement, and d) a copy of the contract with Energy and Environmental Economics, Inc.
- b. As a part of this review and validation, will Energy and Environmental Economics, Inc. evaluate PG&E’s model inputs, as well as findings and assumptions related to inputs? (For example, the use of ignition data to train and test the model, the finding that wind speed is not a primary driver of the probability of ignition, etc.)

ANSWER 01

- a. and b.

The focus of the validation review being performed by E3 is the 2021 Wildfire Distribution Risk Model. This model includes the sub-models listed in the table below.

Wildfire Risk models for validation
2021 Wildfire Distribution Risk Model
Equipment Probability of Ignition Model
Vegetation Probability of Ignition Model
Wildfire Consequence Model

Timeline and itemized list of specific areas for review and validation:

Week	Task	Date
1	Review Data and Model: PG&E deliver to E3 all relevant data, applications and documentation of results and approach as well as any internal efforts at validation and testing. Any literature review completed by PG&E would be useful as well. Transfer of information would be completed in week 1 after the kickoff meeting.	3/17/2021
3	Virtual Q&A Meeting: E3 and PG&E Risk and Data Analytics teams meet (virtually) to discuss the model, approach, and answer E3 questions. This would occur in the 3rd week after receiving information in Task 1.	3/31/2021
6	Draft Findings: E3 produces draft deck and delivers this in electronic form and orally summarizes initial findings to PG&E Risk and Data Analytics Team. This would occur at the end of week 6.	4/23/2021
8	Final Findings: E3 produces a final deck and oral presentation that provides an assessment or evaluation report highlighting the capabilities and areas for future improvement from a predictive performance perspective. This would be completed at the end of week 8.	5/7/2021

As part of this review and validation, Energy and Environmental Economics, Inc will evaluate the 2021 Wildfire Distribution Risk Model inputs, assumptions, and findings.

Please see attached contract with Energy and Environmental Economics, Inc as "WildfireMitigationPlans_DR_WSD_013-Q01Atch01_CONF."