Verification for the Utility Wildfire Mitigation Maturity Survey

Upon completion of the electronic survey each utility must complete the following verification form and attach it to a PDF of the electronic survey responses being verified (combining them into one PDF with the verification form first). This verification form will be provided to each utility at the beginning of the electronic survey response period and again within two business days of the initial submission of the utility's survey responses.

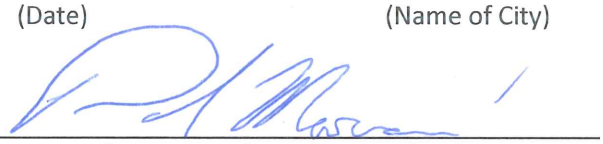
Complete the following verification form for the Utility Wildfire Mitigation Maturity Survey submission:

(See Rule 1.11)
(Where Applicant is a Corporation)

I am an officer of the applicant corporation herein and am authorized to make this verification on its behalf. The responses in the attached survey are true of my own knowledge.

I declare that the foregoing is true and correct.

Executed on January 19, 2022 (Date) at Big Bear Lake (Name of City), California.



(Signature of Corporate Officer)

Paul Marconi
(Printed Name of Corporate Officer)

President, Treasurer, & Secretary
(Title of Corporate Officer)

Bear Valley electric Service, Inc.
(Full Name of Utility)

We thank you for your time spent taking this survey.
Your response has been recorded.

Below is a summary of your responses

Download PDF

Purpose of Maturity Survey:

The Office of Energy Infrastructure Safety (Energy Safety, formerly the Wildfire Safety Division) will use this survey, in addition to other inputs, to evaluate the electrical corporation's (utility's) maturity level, establishing a present maturity level and a target maturity level for the beginning of 2023 (maturity expected as of January 1, 2023).

Energy Safety's assessment of the utility's maturity will also be informed by the utility's Wildfire Mitigation Plan submission, other supporting documents and disclosures, and audits of relevant inputs where deemed necessary.

Instructions for answering each of the survey questions:

Utilities shall answer survey questions by:

1. Indicating the most appropriate response option to each question based on the **presently employed practices and capabilities** of the utility.

2. Indicating the **most appropriate response to each question for the utility's expected capabilities as of January 1, 2023** based on its expected growth in maturity over the coming year.

Only one response option should be selected unless the question is specified as "select all that apply".

Utilities must indicate that they meet a given response option **only** if they meet **all** of the characteristics described within that response option, across **all instances** where that question is valid.

For example, if a utility meets all criteria for answer *ii* of a given question and all but one criterion for answer *iii*, that utility must select answer *ii*. Similarly, if a utility meets all criteria for answer *ii* of a given question over 60% of its territory but meets all criteria for answer *i* over 100% of its territory, the utility must select answer *i*.

Instructions for use of the electronic survey:

Please fill out the electronic survey in its entirety.

The unique link provided to you can be used on multiple devices. Please only access the link on a single device at a time. To avoid creation of any conflict copies, please allow 15 minutes to pass before switching between devices. For example, if passing the survey off to a colleague on a different machine please have the colleague wait for 15 minutes after you stop working to begin.

If you are completing the survey in multiple sittings, your progress will be saved. You may use the unique link provided to you to resume where you left off.

Confirmation of survey responses:

The main utility contact as designated in the electronic survey will receive a PDF of the utility's responses for final verification by email within two business days of completing and submitting the survey in its entirety. Please review that document, confirm all responses one final time, and provide a signature on the verification form as instructed in the PDF. Please return to Energy Safety the signed form along with the verified responses in one PDF document, putting the verification at the front of the combined PDF.

The utility's responses will be evaluated by Energy Safety following receipt of this final verification.

A. Risk mapping and simulation

A.I Climate scenario modeling and sensitivities

Capability 1

A.I.a How sophisticated is utility's ability to estimate the risk of weather scenarios?

Clarification: Determining wildfire risk requires the utility to understand the probability of ignition and the consequences of such an ignition while taking various conditions into account (e.g., weather, fuel levels, etc.). Categorizing level of risk requires a set of calculations and judgements to group areas by wildfire risk level whereas quantitatively estimating risk refers to accurately quantifying risk on a continuous spectrum based on a host of wildfire risk drivers (e.g., as a function of ignition probability, propagation scenarios, and communities located in the propagation path).

Your utility's responses last year were:

Present: **ii**

As of January 1, 2023: **iv**

	i. **No clear ability** to understand incremental risk under various weather scenarios	ii. Wildfire risk can be **reliably determined based on weather and its impacts**	iii. Weather scenarios can be reliably **categorized by level of risk**	iv. **Risk for various weather scenarios** can be reliably estimated	v. **Incremental risk** of foreseeable weather scenarios can be **accurately and quantitatively estimated**
Present	○	○	●	○	○
As of January 1, 2023	○	○	○	●	○

A.I.b How are scenarios assessed?

Clarification: Per the instructions, please only indicate that you meet a given response option if you meet all the characteristics described within that response option). For example, if you do support your scenarios assessment with historical data of incidents and near misses and conduct internal assessments, but don't have an independent expert assessment, you would select *ii*.

Your utility's responses last year were:

Present: **ii**

As of January 1, 2023: **iii**

iv. Independent expert assessment.

	i. **No formal assessment process**	ii. **Independent expert** assessment	iii. Independent expert assessment, **supported by historical data of incidents and near misses**	iv. Independent expert assessment, supported by historical data of incidents and near misses, **and updated based on real-time learning during weather event**
Present	○	●	○	○
As of January 1, 2023	○	○	●	○

A.I.c How granular is utility's ability to model scenarios?

Your utility's responses last year were:

Present: **ii**

As of January 1, 2023: **iii**

	i. Less granular than regional, or no tool at all	ii. Regional	iii. Circuit-based	iv. Span-based	v. Asset-based
Present	○	●	○	○	○
As of January 1, 2023	○	○	●	○	○

A.I.d How automated is the tool?

Clarification: For clarification on level of automation please refer to the information provided in Table 2 of the Maturity Model ("Illustrative descriptions that may represent typical maturity levels") in the row labeled "Level of systematization and automation." Response *i* in this case corresponds to level 0; response *ii* corresponds to level 1 or 2; response *iii* corresponds to level 3; and response *iv* corresponds to level 4.

Your utility's responses last year were:

Present: **ii**

As of January 1, 2023: **iii**

	i. Not automated	ii. Partially (<50%)	iii. Mostly (≥ 50%)	iv. Fully
Present	○	●	○	○
As of January 1, 2023	○	○	●	○

A.I.e What additional information is used to estimate model weather scenarios and their risk?

Your utility's responses last year were:

Present: **ii**

As of January 1, 2023: **iv**

	i. None	ii. **Weather, how weather effects failure modes and propagation**	iii. Weather, how weather effects failure modes and propagation, **existing hardware**	iv. Weather, **measured at the circuit level,** how weather effects failure modes and propagation, existing hardware	iv. Weather, measured at the circuit level, how weather effects failure modes and propagation, existing hardware, **level of vegetation**
Present	○	●	○	○	○
As of January 1, 2023	○	○	○	●	○

A.I.f To what extent is future change in climate taken into account for future risk estimation?

Your utility's responses last year were:

Present: **ii**

As of January 1, 2023: **iii**

	i. Future climate change not accounted for in estimating future weather and resulting risk	ii. Future risk estimates take into account generally higher risk across entire service territory due to changing climate	iii. Basic temperature modeling used to estimate effects of a changing climate on future weather and risk, taking into account difference in geography and vegetation	iv. Modeling with multiple scenarios used to estimate effects of a changing climate on future weather and risk, taking into account difference in geography and vegetation, and considering increase in extreme weather event frequency
Present	○	●	○	○
As of January 1, 2023	○	○	●	○

A.II Ignition risk estimation

Capability 2

A.II.a How is ignition risk calculated?

Your utility's responses last year were:

Present: **ii**

As of January 1, 2023: **iii**

				iv. Tools and processes **can quantitatively and**

	i. **No reliable tool or process** to estimate risk across the grid based on characteristics and condition of lines, equipment, and vegetation	ii. Tools and **processes can reliably categorize the risk of ignition** across the grid into at least two categories based on characteristics and condition of lines, equipment, surrounding vegetation, **and localized weather patterns**	iii. Tools and processes **can quantitatively and accurately assess the risk of ignition** across the grid based on characteristics and condition of lines, equipment, surrounding vegetation, and localized weather patterns	iv. Tools and processes **can quantitatively and accurately assess the risk of ignition** across the grid based on characteristics and condition of lines, equipment, surrounding vegetation, localized weather patterns, **and flying debris probability, with probability based on specific failure modes and top contributors to those failure modes**
Present	○	●	○	○
As of January 1, 2023	○	○	●	○

A.II.b How automated is the ignition risk calculation tool?

Clarification: For clarification on level of automation please refer to the information provided in Table 2 of the Maturity Model ("Illustrative descriptions that may represent typical maturity levels") in the row labeled "Level of systematization and automation." Response *i* in this case corresponds to level 0; response *ii* corresponds to level 1 or 2; response *iii* corresponds to level 3; and response *iv* corresponds to level 4.

Your utility's responses last year were:

Present: **ii**

As of January 1, 2023: **iii**

	i. Not automated	ii. Partially (<50%)	iii. Mostly (≥ 50%)	iv. Fully
Present	○	●	○	○
As of January 1, 2023	○	○	●	○

A.II.c How granular is the tool?

Your utility's responses last year were:

Present: **ii**

As of January 1, 2023: **iii**

	i. Less granular than regional, or no tool at all	ii. Regional	iii. Circuit-based	iv. Span-based	v. Asset-based
Present	○	●	○	○	○
As of January 1, 2023	○	○	●	○	○

	i. Less granular than regional, or no tool at all	ii. Regional	iii. Circuit-based	iv. Span-based	v. Asset-based
Present	○	●	○	○	○
As of January 1, 2023	○	○	●	○	○

A.II.d How is risk assessment confirmed? Select all that apply.

Your utility's responses last year were:

Present: **i,ii**

As of January 1, 2023: **i,ii,iii**

	i. By experts	ii. By historical data	iii. Through real-time learning	iv. None of the above
Present	■	■	☐	☐
As of January 1, 2023	■	■	■	☐

A.II.e What confidence interval, in percent, does the utility use in its wildfire risk assessments?

Your utility's responses last year were:

Present: **ii**

As of January 1, 2023: **iii**

	>60%, or no quantified confidence interval	>80%	>90%	>95%
Present	○	●	○	○
As of January 1, 2023	○	○	●	○

A.III Estimation of wildfire consequences for communities

Capability 3

A.III.a How is estimated consequence of ignition relayed?

Your utility's responses last year were:

Present: **ii**

As of January 1, 2023: **iii**

	i. **No translation** of ignition risk estimates to potential consequences for communities	ii. Ignition events **categorized as low or high risk to communities**	iii. Ignition events **categorized with 5 or more levels of risk to communities**	iv. Consequence of ignition events **quantitatively, accurately, and precisely estimated**
Present	○	○	●	○
As of January 1, 2023	○	○	○	●

i. **No translation** of

iv. Consequence of

A.III.b What metrics are used to estimate the consequence of ignition risk?

Your utility's responses last year were:

Present: **ii**

As of January 1, 2023: **iii**

	i. As a function of **at least one of the following:** structures burned, potential fatalities, or area burned	ii. As a function **of at least** potential fatalities, and one or both of structures burned, or area burned	iii. As a function of at least potential fatalities, structures burned, area burned, **monetary damages, impact on air quality, and impact on GHG reduction goals**
Present	○	●	○
As of January 1, 2023	○	●	○

A.III.c Is the ignition risk impact analysis available for all seasons?

Your utility's responses last year were:

Present: **i**

As of January 1, 2023: **ii**

	i. No	ii. Yes
Present	●	○
As of January 1, 2023	○	●

A.III.d How automated is the ignition risk estimation process?

Clarification: For clarification on level of automation please refer to the information provided in Table 2 of the Maturity Model (“Illustrative descriptions that may represent typical maturity levels”) in the row labeled “Level of systematization and automation.” Response *i* in this case corresponds to level 0; response *ii* corresponds to level 1 or 2; response *iii* corresponds to level 3; and response *iv* corresponds to level 4.

Your utility's responses last year were:

Present: **i**

As of January 1, 2023: **ii**

	i. Not automated	ii. Partially (<50%)	iii. Mostly (≥ 50%)	iv. Fully
Present	●	○	○	○
As of January 1, 2023	○	●	○	○

A.III.e How granular is the ignition risk estimation process?

Your utility's responses last year were:

Present: **ii**

As of January 1, 2023: **iii**

	i. Less granular than regional, or no tool at all	ii. Regional	iii. Circuit-based	iv. Span-based	v. Asset-based
Present	○	●	○	○	○
As of January 1, 2023	○	○	●	○	○

A.III.f How are the outputs of the ignition risk impact assessment tool evaluated?

Your utility's responses last year were:

Present: **ii**

As of January 1, 2023: **iii**

	i. Outputs **not evaluated**	ii. Outputs **independently assessed by experts**	iii. Outputs independently assessed by experts **and confirmed by historical data**	iv. Outputs independently assessed by experts **and confirmed based on real time learning, for example, using machine learning**
Present	○	●	○	○
As of January 1, 2023	○	○	●	○

A.III.g How other inputs are used to estimate impact?

Your utility's responses last year were:

Present: **ii**

As of January 1, 2023: **iii**

	i. Level and conditions **of vegetation and weather**	ii. Level and conditions of **vegetation and weather, including the vegetation specifies immediately surrounding the ignition site**	iii. Level and conditions of **vegetation and weather, including the vegetation specifies immediately surrounding the ignition site and up-to-date moisture content, local weather patterns**	iv. None of the above
Present	○	●	○	○

As of January 1, 2023	○	○	●	○	

iii. Level and conditions of

A.IV Estimation of wildfire and PSPS risk-reduction impact

Capability 4

A.IV.a How is risk reduction impact estimated?

Your utility's responses last year were:

Present: **iii**

As of January 1, 2023: **iv**

	i. **No clear estimation** of risk reduction potential across most initiatives	ii. Approach accurately **estimates risk reduction potential of initiatives** categorically **(e.g. High, Medium, Low)**	iii. Approach reliably **estimates risk reduction potential of initiatives,** on an ordinal scale (e.g. 1-5)	iv. Approach reliably **estimates risk reduction potential of initiatives** on an interval scale (e.g. specific quantitative units)	v. Approach reliably **estimates risk reduction potential of initiatives** on an interval scale (e.g. specific quantitative units) with a quantitative confidence interval
Present	○	○	●	○	○
As of January 1, 2023	○	○	○	●	○

A.IV.b How automated is your ignition risk reduction impact assessment tool?

Clarification: For clarification on level of automation please refer to the information provided in Table 2 of the Maturity Model (“Illustrative descriptions that may represent typical maturity levels”) in the row labeled “Level of systematization and automation.” Response *i* in this case corresponds to level 0; response *ii* corresponds to level 1 or 2; response *iii* corresponds to level 3; and response *iv* corresponds to level 4.

Your utility's responses last year were:

Present: **i**

As of January 1, 2023: **ii**

	i. Not automated	ii. Partially (<50%)	iii. Mostly (≥50%)	iv. Fully
Present	●	○	○	○
As of January 1, 2023	○	●	○	○

A.IV.c How granular is the ignition risk reduction impact assessment tool?

Your utility's responses last year were:

Present: **ii**

As of January 1, 2023: **iii**

	i. Less granular than regional, or no tool at all	ii. Regional	iii. Circuit-based	iv. Span-based	v. Asset-based
Present	○	●	○	○	○
As of January 1, 2023	○	○	●	○	○

A.IV.d How are ignition risk reduction impact assessment tool estimates assessed?

Your utility's responses last year were:

Present: **ii**

As of January 1, 2023: **iii**

	i. **No or limited formal evidence** or support for estimates	ii. With **evidence and logical reasoning**	iii. Independent **expert** assessment	iv. Independent expert assessment, **supported by historical data of incidents and near misses**
Present	○	●	○	○
As of January 1, 2023	○	○	●	○

A.IV.e What additional information is used to estimate risk reduction impact?

Your utility's responses last year were:

Present: **v**

As of January 1, 2023: **v**

	i. None	ii. **Existing hardware type and condition**	iii. Existing hardware type and condition, **including operating history**	iv. Existing hardware type and condition, including operating history; **level and condition of vegetation; weather**	v. Existing hardware type and condition, including operating history; level and condition of vegetation; weather; **and combination of initiatives already deployed**
Present	○	○	○	○	●
As of January 1, 2023	○	○	○	○	●

A.V Risk maps and simulation algorithms

Capability 5

Clarification on terminology: A risk map is a collection of data sufficient to represent the spatial distribution (e.g., across a geography) of a given type of risk (i.e., the probability of an event and its consequence) and the spatial representation thereof. Risk maps may include maps of the probability of ignition along the utility's grid and may represent the consequences given ignition at various points along the grid. Risk maps may also combine these factors to show a weighted probability and consequence risk level across the utility's grid. Data inputs should include the variables and conditions used to calculate risk for a given point, line, or polygon. The risk mapping algorithm is a methodology or formula for interpreting a risk calculation from these data inputs.

A.V.a What is the protocol to update risk mapping algorithms?

Your utility's responses last year were:

Present: **i**

As of January 1, 2023: **ii**

	i. **No defined process** for updating risk mapping algorithms	ii. Risk mapping algorithms **updated based on detected deviations of risk model** to ignitions and propagation	iii. Risk mapping algorithms **updated continuously in real time**
Present	●	○	○
As of January 1, 2023	○	●	○

A.V.b How automated is the mechanism to determine whether to update algorithms based on deviations?

Clarification: For clarification on level of automation please refer to the information provided in Table 2 of the Maturity Model ("Illustrative descriptions that may represent typical maturity levels") in the row labeled "Level of systematization and automation." Response *i* in this case corresponds to level 0; response *ii* corresponds to level 1 or 2; response*iii* corresponds to level 3; and response *iv* corresponds to level 4.

Your utility's responses last year were:

Present: **i**

As of January 1, 2023: **ii**

	i. Not automated	ii. Partially (<50%)	iii. Mostly (≥50%)	iv. Fully
Present	●	○	○	○

	i. Not automated	ii. Partially (<50%)	iii. Mostly (≥50%)	iv. Fully
As of January 1, 2023	○	●	○	○

A.V.c How are deviations from risk model to ignitions and propagation detected?

Your utility's responses last year were:

Present: **ii**

As of January 1, 2023: **iii**

	i. Not currently calculated	ii. Manually	iii. Semi-automated process	iv. Fully automated process
Present	○	●	○	○
As of January 1, 2023	○	○	●	○

A.V.d How are decisions to update algorithms evaluated?

Your utility's responses last year were:

Present: **ii**

As of January 1, 2023: **iii**

	i. Not currently evaluated	ii. Independently **evaluated by experts**	iii. Independently evaluated by experts **and historical data**
Present	○	●	○
As of January 1, 2023	○	○	●

A.V.e What other data is used to make decisions on whether to update algorithms?

Your utility's responses last year were:

Present: **iii**

As of January 1, 2023:

	i. **Historic ignition and propagation data**	ii. **Current** and historic ignition and propagation data	iii. Current and historic ignition and propagation data; **near-miss data**	iv. Current and historic ignition and propagation data; near-miss data; **data from other utilities and other sources**	v. None of the above
Present	○	○	●	○	○
As of January 1, 2023	○	○	○	●	○

B. Situational awareness and forecasting

B. Situational awareness and forecasting

B.I Weather variables collected

Capability 6

B.I.a What weather data is currently collected?

Your utility's responses last year were:

Present: iii

As of January 1, 2023: iv

	i. Wind data being collected is **insufficient** to properly understand wind related risks along grid	ii. **Wind being measured** accurately enough along the grid to estimate ignition probability	iii. **Range of accurate weather variables (e.g. humidity, precipitation, surface and atmospheric wind conditions)** that impact probability of ignition and propagation from utility assets	iv. Range of accurate weather variables that impact probability of ignition and propagation from utility assets; additional **data to measure physical impact of weather on grid collected** (e.g., sway in lines, sway in vegetation)
Present	○	○	●	○
As of January 1, 2023	○	○	●	○

B.I.b How are measurements validated?

Your utility's responses last year were:

Present: ii

As of January 1, 2023: iii

	i. Measurements **not currently validated**	ii. **Manual** field calibration measurements	iii. **Automatic** field calibration measurements
Present	○	●	○
As of January 1, 2023	○	●	○

B.I.c Are elements that cannot be reliably measured in real time being predicted (e.g., fuel moisture content)?

Your utility's responses last year were:

Present: ii

As of January 1, 2023: ii

	i. No	ii. Yes
Present	○	●
As of January 1, 2023	○	●

B.I.d How many sources are being used to provide data on weather metrics being collected?

Your utility's responses last year were:

Present: **iii**

As of January 1, 2023: **iii**

	i. None	ii. One	iii. More than one
Present	○	○	●
As of January 1, 2023	○	○	●

B.II Weather data resolution

Capability 7

B.II.a How granular is the weather data that is collected?

Your utility's responses last year were:

Present: **iii**

As of January 1, 2023: **iv**

	i. Weather data collected **does not accurately reflect local weather** conditions across grid infrastructure	ii. Weather data has sufficient granularity to **reliably measure weather conditions in HFTD areas**	iii. Weather data has sufficient granularity to reliably measure weather conditions in HFTD areas, **and along the entire grid and in all areas needed to predict weather on the grid**	iv. Weather data has sufficient granularity to reliably measure weather conditions in HFTD areas, and along the entire grid and in all areas needed to predict weather on the grid. **Also includes wind estimations at various atmospheric altitudes relevant to ignition risk**
Present	○	○	●	○
As of January 1, 2023	○	○	●	○

B.II.b How frequently is data gathered?

Your utility's responses last year were:

Present: **v**

As of January 1, 2023: **v**

	i. Less frequently than hourly	ii. At least hourly	iii. At least four times per hour	iv. At least six times per hour	v. At least sixty times per hour
Present	○	○	○	○	●
As of January 1, 2023	○	○	○	○	●

B.II.c How granular is the tool?

Your utility's responses last year were:

Present: **iii**

As of January 1, 2023: **iii**

	i. Less granular than regional, or no tool at all	ii. Regional	iii. Circuit-based	iv. Span-based	v. Asset-based
Present	○	○	●	○	○
As of January 1, 2023	○	○	●	○	○

B.II.d How automated is the process to measure weather conditions?

Clarification: For clarification on level of automation please refer to the information provided in Table 2 of the Maturity Model (“Illustrative descriptions that may represent typical maturity levels”) in the row labeled “Level of systematization and automation.” Response *i* in this case corresponds to level 0; response *ii* corresponds to level 1 or 2; response *iii* corresponds to level 3; and response *iv* corresponds to level 4.

Your utility's responses last year were:

Present: **iii**

As of January 1, 2023: **iv**

	i. Not automated	ii. Partially (<50%)	iii. Mostly (≥50%)	iv. Fully
Present	○	○	●	○
As of January 1, 2023	○	○	●	○

B.III Weather forecasting ability

Capability 8

B.III.a How sophisticated is the utility's weather forecasting ability?

Your utility's responses last year were:

Present: **ii**

As of January 1, 2023: **iii**

	i. **No reliable independent weather forecasting ability**	ii. Utility has independent weather forecasting ability **sufficiently accurate to fulfill PSPS requirements**	iii. Utility has the ability to **use a combination of accurate weather stations and external weather data** to make accurate forecasts	iv. Utility has the ability to use a combination of accurate weather stations and external weather data to make accurate forecasts, **and adjusts them in real time based on a learning algorithm and updated weather inputs**
Present	○	●	○	○
As of January 1, 2023	○	○	●	○

B.III.b How far in advance can accurate forecasts be prepared?

Your utility's responses last year were:

Present: **ii**

As of January 1, 2023: **iii**

	i. Less than two weeks in advance	ii. At least two weeks in advance	iii. At least three weeks in advance
Present	○	●	○
As of January 1, 2023	○	●	○

B.III.c At what level of granularity can forecasts be prepared?

Your utility's responses last year were:

Present: **ii**

As of January 1, 2023: **ii**

	i. Less granular than regional, or no forecasts at all	ii. Regional	iii. Circuit-based	iv. Span-based	v. Asset-based
Present	○	●	○	○	○
As of January 1, 2023	○	●	○	○	○

B.III.d How are results error-checked?

Your utility's responses last year were:

Present: **ii**

As of January 1, 2023: **iii**

	i. Results are **not error checked**	ii. Results are **error checked against historical weather patterns**	iii. Criteria for option (ii) met, and forecasted results are subsequently error **checked against measured weather data**
Present	○	●	○
As of January 1, 2023	○	○	●

B.III.e How automated is the forecast process?

Clarification: For clarification on level of automation please refer to the information provided in Table 2 of the Maturity Model ("Illustrative descriptions that may represent typical maturity levels") in the row labeled "Level of systematization and automation." Response *i* in this case corresponds to level 0; response *ii* corresponds to level 1 or 2; response*iii* corresponds to level 3; and response *iv* corresponds to level 4.

Your utility's responses last year were:

Present: **ii**

As of January 1, 2023: **iii**

	i. Not automated	ii. Partially (<50%)	iii. Mostly (≥50%)	iv. Fully
Present	○	●	○	○
As of January 1, 2023	○	●	○	○

B.IV External sources used in weather forecasting

Capability 9

B.IV.a What source does the utility use for weather data?

Your utility's responses last year were:

Present: **iv**

As of January 1, 2023: **iv**

	i. Utility **does not**	ii. External data used where direct measurements from **utility's own**	iii. Utility **uses a combination** of accurate weather stations and	iv. Utility uses a combination of accurate weather stations and external weather data, **and elects to use the data set, as a whole or in**

	i. Utility does not use external weather data	ii. External data used where direct weather stations are not available	iii. Utility **uses a combination** of external weather data	iv. Utility uses a **composite, that is most accurate** combination of accurate weather stations and external weather data, **and elects to**
Present	○	○	●	○
As of January 1, 2023	○	○	●	○

B.IV.b How is weather station data checked for errors?

Your utility's responses last year were:

Present: **ii**

As of January 1, 2023: **iii**

	i. Weather station data is **not checked for errors**	ii. **Mostly manual** processes for error checking weather stations with external data sources	iii. **Mostly automated** processes for error checking weather stations with external data sources	iv. **Completely automated** processes for error checking weather stations with external data sources	v. Completely automated processes for error checking weather stations with external data sources, **and where the utility builds new weather stations or calibrates existing stations, it is based on these error checking processes**
Present	○	●	○	○	○
As of January 1, 2023	○	●	○	○	○

B.IV.c For what is weather data used?

Your utility's responses last year were:

Present: **i**

As of January 1, 2023: **iii**

	i. Weather data is **used to make decisions**	ii. Weather data is **used to produce a combined weather map** that can be used to help make decisions	iii. Weather data is **used to create a single visual and configurable live map** that can be used to help make decisions
Present	●	○	○
As of January 1, 2023	○	●	○

B.V Wildfire detection processes and capabilities

Capability 10

B.V.a Are there well-defined procedures for detecting ignitions along the grid?

Your utility's responses last year were:

Present: **ii**

As of January 1, 2023: **ii**

	i. No	ii. Yes
Present	○	●
As of January 1, 2023	○	●

B.V.b What equipment is used to detect ignitions?

Your utility's responses last year were:

Present: **i**

As of January 1, 2023: **iii**

	i. **No consistent set of equipment** for detecting ignitions along grid	ii. **Well-defined equipment** for detecting ignitions along grid	iii. Well-defined equipment for detecting ignitions along grid, **including remote detection equipment** including cameras	iv. Well-defined equipment for detecting ignitions along grid, including remote detection equipment including cameras, **and satellite monitoring**
Present	●	○	○	○
As of January 1, 2023	○	○	●	○

B.V.c How is information on detected ignitions reported?

Your utility's responses last year were:

Present: **iii**

As of January 1, 2023: **iv**

	ii. **Procedure**	iii. Procedure exists for	iv. Procedure **automatically, accurately, and in real**	v. Procedure automatically, accurately, and in real time notifies suppression forces and key stakeholders, and tracks and reports propagation paths to

	i. Detected ignitions are **not reported**	**exists** for notifying suppression forces	notifying suppression forces **and key stakeholders**	**time notifies** suppression forces and key stakeholders	v. Procedure forces in automatically, accurately, and in real time notifies suppression forces and key stakeholders
Present	○	○	●	○	○
As of January 1, 2023	○	○	●	○	○

B.V.d What role does ignition detection software play in wildfire detection?

Your utility's responses last year were:

Present: i

As of January 1, 2023: iii

	i. Ignition detection software **not currently deployed**	ii. Ignition detection software in cameras **used to augment** ignition detection procedures	iii. Ignition detection software in cameras **operates automatically** as part of ignition detection procedures	iv. All criteria met for option iii., and software **automatically reports** any ignition event to suppression forces accurately and in real time
Present	●	○	○	○
As of January 1, 2023	●	○	○	○

C. Grid design and system hardening

Clarification: Here, ‘hardening’ refers to grid hardening as defined in the WMP Guidelines: [a]ctions (such as equipment upgrades, maintenance, and planning for more resilient infrastructure) taken in response to the risk of undesirable events (such as outages) or undesirable conditions of the electrical system in order to reduce or mitigate those events and conditions, informed by an assessment of the relevant risk drivers or factors.

C.I Approach to prioritizing initiatives across territory

Capability 11

C.I.a How are wildfire risk reduction initiatives prioritized?

Your utility's responses last year were:

Present: iii

As of January 1, 2023: v

	i. Plan **does not clearly prioritize** initiatives geographically to focus on highest risk areas	ii. Plan **prioritizes** risk reduction initiatives to **within only HFTD areas**	iii. Plan prioritizes wildfire risk reduction initiatives **based on local geography and conditions** within only HFTD areas	iv. Plan prioritizes wildfire risk reduction initiatives at the span level based on i) risk modeling driven by local geography and climate/weather conditions, fuel loads and moisture content and topography ii) detailed wildfire and PSPS risk simulations across individual circuits	v. Plan prioritizes wildfire risk reduction initiatives at the asset level based on i) risk modeling driven by local geography and climate/weather conditions, fuel loads and moisture content and topography ii) risk estimates across individual circuits, including estimates of actual consequence, and iii) taking power delivery uptime into account (e.g. reliability, PSPS, etc.)
Present	○	○	●	○	○
As of January 1, 2023	○	○	○	○	●

C.II Grid design for minimizing ignition risk

Capability 12

C.II.a Does grid design meet minimum G095 requirements and loading standards in HFTD areas?

Your utility's responses last year were:

Present: ii

As of January 1, 2023: iii

	i. No	ii. Yes	iii. Grid topology exceeds design requirements, designed based on accurate understanding of drivers of utility ignition risk
Present	○	●	○
As of January 1, 2023	○	○	●

C.II.b Does the utility provide micro-grids or islanding where traditional

C.II.b Does the utility provide micro grids or islanding where traditional grid infrastructure is impracticable and wildfire risk is high?

Your utility's responses last year were:

Present: i

As of January 1, 2023: ii

	i. No	ii. Yes
Present	●	○
As of January 1, 2023	●	○

C.II.c Does routing of new portions of the grid take wildfire risk into account?

Your utility's responses last year were:

Present: i

As of January 1, 2023: i

	i. Yes	ii. No
Present	●	○
As of January 1, 2023	●	○

C.II.d Are efforts made to incorporate the latest asset management strategies and new technologies into grid topology?

Your utility's responses last year were:

Present: iii

As of January 1, 2023: iii

	i. No	ii. Yes, some effort made in HFTD areas	iii. Yes, across the entire service area
Present	○	○	●
As of January 1, 2023	○	○	●

C.III Grid design for resiliency and minimizing PSPS

Capability 13

C.III.a What level of redundancy does the utility's transmission architecture have?

Your utility's responses last year were:

Present: ii

As of January 1, 2023: ii

	i. **Many single points of failure**	ii. **n-1 redundancy** for all circuits subject to PSPS
Present	○	●
As of January 1, 2023	○	●

C.III.b What level of redundancy does the utility's distribution architecture have?

Your utility's responses last year were:

Present: iii

As of January 1, 2023: iv

	i. **Many single points of failure**	ii. **n-1 redundancy** covering at least 50% of customers in HFTD	iii. **n-1 redundancy** covering at least 70% of customers in HFTD	iv. **n-1 redundancy** covering at least 85% of customers in HFTD
Present	○	○	●	○
As of January 1, 2023	○	○	●	○

C.III.c What level of sectionalization does the utility's distribution architecture have?

Your utility's responses last year were:

Present: iv

As of January 1, 2023: iv

	i. **Many single points of failure**	ii. **Switches** in HFTD areas to individually isolate circuits	iii. **Switches** in HFTD areas to individually isolate circuits, such that no more than 2000 customers sit within one switch	iv. **Switches** in HFTD areas to individually isolate circuits, such that no more than 1000 customers sit within one switch	v. **Switches** in HFTD areas to individually isolate circuits, such that no more than 200 customers sit within one switch
Present	○	○	○	●	○
As of January 1, 2023	○	○	○	●	○

C.III.d How does the utility consider egress points in its grid topology?

Your utility's responses last year were:

Present: ii

As of January 1, 2023: iii

	i. **Does not consider**	ii. Egress points used as an **input** for grid topology design	iii. Egress points **available** and **mapped** for each customer, and potential traffic mapped based on **traffic simulation** and taken into consideration for grid topology design	iv. Egress points available and mapped for each customer, with potential traffic simulated and taken into consideration for grid topology design, and **microgrids** or other means to reduce consequence for customers at frequent risk of PSPS
Present	○	●	○	○
As of January 1, 2023	○	●	○	○

C.IV Risk-based grid hardening and cost efficiency

Capability 14

C.IV.a Does the utility have an understanding of the risk-spend efficiency of hardening initiatives?

Clarification: Here, “hardening initiatives” refers to all grid hardening initiatives implemented by the utility or by other utilities in California. “Grid hardening” is defined in the WMP Guidelines as “[a]ctions (such as equipment upgrades, maintenance, and planning for more resilient infrastructure) taken in response to the risk of undesirable events (such as outages) or undesirable conditions of the electrical system in order to reduce or mitigate those events and conditions, informed by an assessment of the relevant risk drivers or factors.”

Your utility's responses last year were:

Present: ii

As of January 1, 2023: iii

	i. Utility has no clear understanding of the relative risk-spend efficiency of hardening initiatives	ii. Utility has an accurate understanding of the relative cost and effectiveness of different initiatives	iii. Utility has an accurate understanding of the relative cost and effectiveness of different initiatives, tailored to the circumstances of different locations on its grid
Present	○	●	○
As of January 1, 2023	○	○	●

C.IV.b At what level can estimates be prepared?

Your utility's responses last year were:

Your utility's responses last year were:

Present: ii

As of January 1, 2023: iii

	i. Less granular than regional, or not at all	ii. Regional	iii. Circuit-based	iv. Span-based	v. Asset-based
Present	○	●	○	○	○
As of January 1, 2023	○	○	●	○	○

C.IV.c How frequently are estimates updated?

Your utility's responses last year were:

Present: iii

As of January 1, 2023: iii

	i. Never	ii. Less frequently than annually	iii. Annually or more frequently
Present	○	○	●
As of January 1, 2023	○	○	●

C.IV.d What grid hardening initiatives does the utility include within its evaluation?

Clarification: Here, “hardening initiatives” refers to all hardening initiatives implemented by the utility or by other utilities in California. “Grid hardening” is defined in the WMP Guidelines as “[a]ctions (such as equipment upgrades, maintenance, and planning for more resilient infrastructure) taken in response to the risk of undesirable events (such as outages) or undesirable conditions of the electrical system in order to reduce or mitigate those events and conditions, informed by an assessment of the relevant risk drivers or factors.”

Your utility's responses last year were:

Present: iv

As of January 1, 2023: v

	i. None	ii. Some	iii. Most	iv. All	v. All, supported by independent testing
Present	○	○	○	●	○
As of January 1, 2023	○	○	○	●	○

C.IV.e Can the utility evaluate risk reduction synergies from combination of various initiatives?

Your utility's responses last year were:

Present: **ii**

As of January 1, 2023: **ii**

	i. No	ii. Yes
Present	○	●
As of January 1, 2023	○	●

C.V Grid design and asset innovation

Capability 15

C.V.a How are new hardening solution initiatives evaluated?

Your utility's responses last year were:

Present: **iii**

As of January 1, 2023: **iii**

	i. **No established program** for evaluating the risk-spend efficiency of new hardening initiatives	ii. **New initiatives evaluated based** on installation into grid and measuring direct reduction in ignition events	iii. New initiatives evaluated based on installation into grid and measuring direct reduction in ignition events, **and measuring reduction impact on near-miss metrics**	iv. New initiatives **independently** evaluated, **followed by field testing** based on installation into grid and measuring direct reduction in ignition events, and measuring reduction impact on near-miss metrics
Present	○	○	●	○
As of January 1, 2023	○	○	●	○

C.V.b Are results of pilot and commercial deployments, including project performance, project cost, geography, climate, vegetation etc. shared in sufficient detail to inform decision making at other utilities?

Your utility's responses last year were:

Present: **ii**

As of January 1, 2023: **iii**

	i. No	ii. **Yes, with limited partners**	iii. Yes, **extensively with industry, academia, and other utilities**
Present	○	●	○
As of January 1, 2023	○	○	●

C.V.c Is performance of new initiatives independently audited?

Your utility's responses last year were:

Present: i

As of January 1, 2023: ii

	i. No	ii. Yes
Present	●	○
As of January 1, 2023	○	●

D. Asset management and inspections

D.I Asset inventory and condition assessments

Capability 16

D.I.a What information is captured in the equipment inventory database?

Your utility's responses last year were:

Present: iii

As of January 1, 2023: iv

	i. There is **no service territory- wide inventory** of electric lines and equipment including their state of wear or disrepair	ii. There is an **accurate inventory of equipment** that may contribute to wildfire risk, including age, state of wear, and expected lifecycle	iii. There is an accurate inventory of equipment that may contribute to wildfire risk, including age, state of wear, and expected lifecycle, **including records of all inspections and repairs**	iv. There is an accurate inventory of equipment that may contribute to wildfire risk, including age, state of wear, and expected lifecycle, including records of all inspections and repairs **and up-to-date work plans on expected future repairs and replacements**	v. There is an accurate inventory of equipment that may contribute to wildfire risk, including age, state of wear, and expected lifecycle, including records of all inspections and repairs and up-to-date work plans on expected future repairs and replacements **wherein repairs and sensor outputs are independently audited**
Present	○	○	●	○	○
As of January 1, 2023	○	○	●	○	○

D.I.b How frequently is the condition assessment updated?

Your utility's responses last year were:

Present: ii

As of January 1, 2023: iii

	i. Never	ii. Annually	iii. Quarterly	iv. Monthly	v. Hourly
Present	○	●	○	○	○
As of January 1, 2023	○	●	○	○	○

D.I.c Does all equipment in HFTD areas have the ability to detect and respond to malfunctions?

Your utility's responses last year were:

Present: ii

As of January 1, 2023: iii

	i. **No system and approach are in place** to detect or respond to malfunctions	ii. A system and approach **are in place to reliably detect incipient malfunctions** likely to cause ignition	iii. **Sensorized, continuous monitoring equipment** is in place to determine the state of equipment and reliably detect incipient malfunctions likely to cause ignition	iv. Sensorized, continuous monitoring equipment is in place to determine the state of equipment and reliably detect incipient malfunctions likely to cause ignition, **with the ability to de-activate electric lines and equipment exhibiting such failure**
Present	○	●	○	○
As of January 1, 2023	○	●	○	○

D.I.d How granular is the inventory?

Your utility's responses last year were:

Present: iii

As of January 1, 2023: iii

	i. There is **no inventory**	ii. At the **span** level	iii. At the **asset** level
Present	○	○	●
As of January 1, 2023	○	○	●

D.II Asset inspection cycle

Capability 17

D.II.a How frequent are your patrol inspections?

Your utility's responses last year were:

Present: **iii**

As of January 1, 2023: **iii**

	i. **Less frequent** than regulations require	ii. **Consistent** with minimum regulatory requirements	iii. **Above** minimum regulatory requirements, with more frequent inspections for highest risk equipment
Present	○	○	●
As of January 1, 2023	○	○	●

D.II.b How are patrol inspections scheduled?

Your utility's responses last year were:

Present: **i**

As of January 1, 2023: **iii**

	i. Based on annual or periodic **schedules**	ii. Based on **up-to-date static maps** of equipment types and environment	iii. **Risk, as determined by predictive modeling** of equipment failure probability and risk causing ignition	iv. Risk, **independently determined** by predictive modeling of equipment failure probability and risk causing ignition
Present	●	○	○	○
As of January 1, 2023	○	○	●	○

D.II.c What are the inputs to scheduling patrol inspections?

Your utility's responses last year were:

Present: **i**

As of January 1, 2023: **ii**

	i. At least annually updated or verified	ii. **Predictive**	iii. Predictive modeling **supplemented**

	i. At least annually updated or verified **static maps** of equipment and environment	ii. **Predictive modeling** of equipment failure probability and risk	iii. Predictive modeling **supplemented with continuous monitoring by sensors**	iv. Outdated static maps
Present	●	○	○	○
As of January 1, 2023	○	●	○	○

D.II.d How frequent are detailed inspections?

Your utility's responses last year were:

Present: **ii**

As of January 1, 2023: **iii**

	i. **Less frequent** than regulations require	ii. **Consistent** with minimum regulatory requirements	iii. **Above** minimum regulatory requirements, with more frequent inspections for highest risk equipment
Present	○	●	○
As of January 1, 2023	○	●	○

D.II.e How are detailed inspections scheduled?

Your utility's responses last year were:

Present: **i**

As of January 1, 2023: **iii**

	i. Based on annual or periodic **schedules**	ii. Based on **up-to-date static maps** of equipment types and environment	iii. **Risk, as determined by predictive modeling** of equipment failure probability and risk causing ignition	iv. Risk, **independently determined** by predictive modeling of equipment failure probability and risk causing ignition
Present	●	○	○	○
As of January 1, 2023	○	○	●	○

D.II.f What are the inputs to scheduling detailed inspections?

Your utility's responses last year were:

Present: **i**

As of January 1, 2023: **ii**

	i. At least annually updated or verified **static maps** of equipment and environment	ii. **Predictive modeling** of equipment failure probability and risk	iii. Predictive modeling **supplemented with continuous monitoring by sensors**	iv. Outdated static maps
Present	●	○	○	○
As of January 1, 2023	○	●	○	○

	i. At least annually updated or verified **static maps** of equipment and environment	ii. **Predictive modeling** of equipment failure probability and risk	iii. Predictive modeling **supplemented with continuous monitoring by sensors**	iv. Outdated static maps
Present	●	○	○	○
As of January 1, 2023	○	●	○	○

D.II.g How frequent are your other inspections?

Your utility's responses last year were:

Present: **iii**

As of January 1, 2023: **iii**

	i. **Less frequent** than regulations require	ii. **Consistent** with minimum regulatory requirements	iii. **Above** minimum regulatory requirements, with more frequent inspections for highest risk equipment
Present	○	○	●
As of January 1, 2023	○	○	●

D.II.h How are other inspections scheduled?

Your utility's responses last year were:

Present: **i**

As of January 1, 2023: **iii**

	i. Based on annual or periodic **schedules**	ii. Based on **up-to-date static maps** of equipment types and environment	iii. **Risk, as determined by predictive modeling** of equipment failure probability and risk causing ignition	iv. Risk, **independently determined** by predictive modeling of equipment failure probability and risk causing ignition
Present	●	○	○	○
As of January 1, 2023	○	○	●	○

D.II.i What are the inputs to scheduling other inspections?

Your utility's responses last year were:

Present: **i**

As of January 1, 2023: **ii**

	i. At least annually updated or verified **static maps** of	ii. **Predictive modeling** of	iii. Predictive modeling **supplemented with continuous**

	i. At least annually updated or verified **static maps** of equipment and environment	ii. **Predictive modeling** of equipment failure probability and risk	iii. Predictive modeling **supplemented with continuous monitoring by sensors**	iv. Outdated static maps
Present	●	○	○	○
As of January 1, 2023	○	●	○	○

D.III Asset inspection effectiveness

Capability 18

D.III.a What items are captured within inspection procedures and checklists?

Your utility's responses last year were:

Present: **ii**

As of January 1, 2023: **iii**

	i. Patrol, detailed, enhanced, and other inspection procedures and checklists **do not include all items required** by statute and regulations	ii. Patrol, detailed, enhanced, and other inspection procedures and checklists **include all items required** by statute and regulations	iii. Patrol, detailed, enhanced, and other inspection procedures and checklists include all items required by statute and regulations, **and includes lines and equipment typically responsible for ignitions and near misses**
Present	○	●	○
As of January 1, 2023	○	○	●

D.III.b How are procedures and checklists determined?

Your utility's responses last year were:

Present: **i**

As of January 1, 2023: **ii**

	i. Based on **statute and regulatory guidelines only**	ii. Based on **predictive modeling** based on vegetation and equipment type, age, and condition	iii. Based on predictive modeling based on equipment type, age, and condition **and validated by independent experts**	iv. Based on predictive modeling based on equipment type, age, and condition and validated by independent experts, **with dynamic adjustments in real time based on deficiencies found during inspection**
Present	●	○	○	○
As of January 1, 2023	○	●	○	○

D.III.c At what level of granularity are the depth of checklists, training, and procedures customized?

Your utility's responses last year were:

Present: i

As of January 1, 2023: iii

	i. Across the **service territory**	ii. Across a **region**	iii. At the **circuit** level	iv. At the **span** level	v. At the **asset** level
Present	●	○	○	○	○
As of January 1, 2023	○	○	●	○	○

D.IV Asset maintenance and repair

Capability 19

D.IV.a What level are electrical lines and equipment maintained at?

Your utility's responses last year were:

Present: iii

As of January 1, 2023: iii

	i. Electric lines and equipment **not consistently maintained** at required condition over multiple circuits	ii. Electrical lines and equipment **maintained as required by regulation**	iii. Electrical lines and equipment maintained as required by regulation, **and additional maintenance done in areas of grid at highest wildfire risk based on detailed risk mapping**
Present	○	○	●
As of January 1, 2023	○	○	●

D.IV.b How are service intervals set?

Your utility's responses last year were:

Present: ii

As of January 1, 2023: iii

	i. Based on wildfire risk in relevant **area**	ii. Based on wildfire risk in relevant **circuit**	iii. Based on wildfire risk in relevant circuit, **as well as real-time monitoring from sensors**	iv. None of the above
Present	○	●	○	○
As of January 1, 2023	○	●	○	○

As of January 1, 2023 iii. Based on

D.IV.c What do maintenance and repair procedures take into account?

Your utility's responses last year were:

Present: iii

As of January 1, 2023: iii

	i. Wildfire risk	ii. Wildfire risk, **performance history, and past operating conditions**	iii. None of the above
Present	●	○	○
As of January 1, 2023	○	●	○

D.V QA/QC for asset maintenance

Capability 20

D.V.a How is contractor activity audited?

Your utility's responses last year were:

Present: ii

As of January 1, 2023: iii

	i. **Lack of controls** for auditing work completed, including inspections, for employees or subcontractors	ii. Through an established and functioning audit process to manage and confirm work completed by subcontractors	iii. Through an established and demonstrably functioning audit process to manage and confirm work completed by subcontractors, **where contractor activity is subject to semi-automated audits using technologies capable of sampling the contractor's work** (e.g., LiDAR scans, photographic evidence)	iv. Through an established and demonstrably functioning audit process to manage and confirm work completed by subcontractors, where contractor activity is subject to **automated** audits **using technologies capable of sampling the contractor's work** (e.g., LiDAR scans, photographic evidence)
Present	○	●	○	○
As of January 1, 2023	○	○	●	○

D.V.b Do contractors follow the same processes and standards as utility's own employees?

Your utility's responses last year were:

Present: **ii**

As of January 1, 2023: **ii**

	i. No	ii. Yes
Present	○	●
As of January 1, 2023	○	●

D.V.c How frequently is QA/QC information used to identify deficiencies in quality of work performance and inspections performance?

Your utility's responses last year were:

Present: **iv**

As of January 1, 2023: **iv**

	i. Never	ii. Sporadically	iii. On an ad hoc basis	iv. Regularly	v. Real-time
Present	○	○	○	●	○
As of January 1, 2023	○	○	○	●	○

D.V.d How is work and inspections that do not meet utility-prescribed standards remediated?

Your utility's responses last year were:

Present: **iii**

As of January 1, 2023: **iv**

	i. **Lack of effective remediation** for ineffective inspections or low-quality work	ii. **QA/QC information is used to identify systemic deficiencies** in quality of work and inspections	iii. QA/QC information is used to identify systemic deficiencies in quality of work and inspections **and recommend training based on weaknesses**	iv. QA/QC information is used to identify systemic deficiencies in quality of work and inspections, **grade individuals**, and recommend **specific pre-made and tested** training based on weaknesses
Present	○	○	●	○
As of January 1, 2023	○	○	●	○

D.V.e Are workforce management software tools used to manage and confirm work completed by subcontractors?

Your utility's responses last year were:

Present: ii

As of January 1, 2023: ii

	i. No	ii. Yes
Present	○	●
As of January 1, 2023	○	●

E. Vegetation management and inspections

E.I Vegetation inventory and condition assessments

Capability 21

E.I.a What information is captured in the inventory?

Your utility's responses last year were:

Present: iii

As of January 1, 2023: iv

	i. There is **no vegetation inventory** sufficient to determine vegetation clearances across the grid at the time of the last inspection	ii. **Centralized inventory** of vegetation clearances based on most recent inspection	iii. Centralized inventory of vegetation clearances, **including predominant vegetation species and individual high risk-trees across grid**	iv. Centralized inventory of vegetation clearances, including **individual** vegetation species **and their expected growth rate**, as well as individual high risk-trees across grid	v. Centralized inventory of vegetation clearances, including individual vegetation species and their expected growth rate, as well as individual high risk-trees across grid. **Includes up-to- date tree health and moisture content to determine risk of ignition and propagation**
Present	○	○	●	○	○
As of January 1, 2023	○	○	○	●	○

E.I.b How frequently is the inventory updated?

Your utility's responses last year were:

Present: iv

As of January 1, 2023: **v**

	i. Never	ii. Annually	iii. Within 1 month of collection	iv. Within 1 week of collection	v. Within 1 day of collection
Present	○	○	○	●	○
As of January 1, 2023	○	○	○	●	○

E.I.c Are inspections independently verified by third party experts?

Your utility's responses last year were:

Present: **ii**

As of January 1, 2023: **ii**

	i. No	ii. Yes
Present	○	●
As of January 1, 2023	○	●

E.I.d How granular is the inventory?

Your utility's responses last year were:

Present: **iv**

As of January 1, 2023: **iv**

	i. Regional	ii. Circuit-based	iii. Span-based	iv. Asset-based
Present	○	○	○	●
As of January 1, 2023	○	○	○	●

E.II Vegetation inspection cycle

Capability 22

E.II.a How frequent are all types of vegetation inspections?

Your utility's responses last year were:

Present: **iii**

As of January 1, 2023: **iii**

	i. **Less frequent** than regulations require	ii. **Consistent** with minimum regulatory requirements	iii. **Above** minimum regulatory requirements, with more frequent inspections for highest risk areas
Present	○	○	●
As of January 1, 2023	○	○	●

E.II.b How are vegetation inspections scheduled?

Your utility's responses last year were:

Present: **ii**

As of January 1, 2023: **iii**

	i. Based on annual or periodic **schedules**	ii. Based on up-to- date **static maps** of predominant vegetation species and environment	iii. **Risk, as determined by predictive modeling** of vegetation growth and growing conditions	iv. **Need, as independently determined by predictive modeling** of vegetation growth and growing conditions
Present	○	●	○	○
As of January 1, 2023	○	○	●	○

E.II.c What are the inputs to scheduling vegetation inspections?

Your utility's responses last year were:

Present: **ii**

As of January 1, 2023: **iii**

	i. At least annually-updated **static maps** of vegetation and environment	ii. Up to date, static maps of vegetation and environment, **as well as data on annual growing conditions**	iii. **Predictive modeling** of vegetation growth	iv. Predictive modeling of vegetation growth **supplemented with continuous monitoring by sensors**	v. Predictive modeling of vegetation growth supplemented with continuous monitoring by sensors and **considering tree health and other vegetation risk factors for more frequent inspections in less healthy areas**
Present	○	●	○	○	○
As of January 1, 2023	○	○	●	○	○

E.III Vegetation inspection effectiveness

Capability 23

E.III.a What items are captured within inspection procedures and checklists?

Your utility's responses last year were:

Present: **ii**

As of January 1, 2023: **iii**

	i. Patrol, detailed, enhanced, and other inspection procedures and checklists **do not include all items required** by statute and regulations	ii. Patrol, detailed, enhanced, and other inspection procedures and checklists **include all items required** by statute and regulations	iii. Patrol, detailed, enhanced, and other inspection procedures and checklists include all items required by statute and regulations, **and includes vegetation types typically responsible for ignitions and near misses**
Present	○	●	○
As of January 1, 2023	○	○	●

E.III.b How are procedures and checklists determined?

Your utility's responses last year were:

Present: **i**

As of January 1, 2023: **iii**

	i. Based on **statute and regulatory guidelines only**	ii. Based on **predictive modeling** based on vegetation and equipment type, age, and condition	iii. Based on predictive modeling based on vegetation and equipment type, age, and condition **and validated by independent experts**	iv. Based on predictive modeling based on vegetation and equipment type, age, and condition and validated by independent experts, **with dynamic adjustments in real time based on deficiencies found during inspection**
Present	●	○	○	○
As of January 1, 2023	○	○	●	○

E.III.c At what level of granularity are the depth of checklists, training, and procedures customized?

Your utility's responses last year were:

Present: **ii**

As of January 1, 2023: **iii**

	i. Across the **service territory**	ii. Across a **region**	iii. At the **circuit** level	iv. At the **span** level	v. At the **asset** level

	i. Across the **service territory**	ii. Across a **region**	iii. At the **circuit** level	iv. At the **span** level	v. At the **asset** level
Present	○	●	○	○	○
As of January 1, 2023	○	●	○	○	○

E.IV Vegetation grow-in mitigation

Capability 24

E.IV.a How does utility clearance around lines and equipment perform relative to expected standards?

Your utility's responses last year were:

Present: **iii**

As of January 1, 2023: **iii**

	i. Utility often **fails to maintain minimum** statutory and regulatory clearances around all lines and equipment	ii. Utility **meet minimum** statutory and regulatory clearances around all lines and equipment	iii. Utility **exceeds minimum** statutory and regulatory clearances around all lines and equipment
Present	○	○	●
As of January 1, 2023	○	○	●

E.IV.b Does utility meet or exceed minimum statutory or regulatory clearances during all seasons?

Your utility's responses last year were:

Present: **ii**

As of January 1, 2023: **ii**

	i. No	ii. Yes
Present	○	●
As of January 1, 2023	○	●

E.IV.c What modeling is used to guide clearances around lines and equipment?

Your utility's responses last year were:

Present: **i**

As of January 1, 2023: **ii**

	i. Ignition risk modeling	ii. Ignition and propagation risk modeling	iii. None of the above
Present	●	○	○
As of January 1, 2023	●	○	○

ii. Ignition and propagation

E.IV.d What biological modeling is used to guide clearances around lines and equipment?

Your utility's responses last year were:

Present: ii

As of January 1, 2023: ii

	i. Species growth rates and species limb failure rates	ii. Species growth rates and species limb failure rates, cross referenced with local climatological conditions	iii. None of the above
Present	○	●	○
As of January 1, 2023	○	●	○

E.IV.e Are community organizations engaged in setting local clearances and protocols?

Your utility's responses last year were:

Present: ii

As of January 1, 2023: ii

	i. No	ii. Yes
Present	○	●
As of January 1, 2023	○	●

E.IV.f Does the utility remove vegetation waste along its right of way across the entire grid?

Your utility's responses last year were:

Present: ii

As of January 1, 2023: ii

	i. No	ii. Yes
Present	○	●
As of January 1, 2023	○	●

E.IV.g How long after cutting vegetation does the utility remove vegetation waste along right of way?

Your utility's responses last year were:

Present: iv

As of January 1, 2023: iv

	i. Not at all	ii. Longer than 1 week	iii. Within 1 week or less	iv. On the same day
Present	○	○	○	●
As of January 1, 2023	○	○	○	●

E.IV.h Does the utility work with local landowners to provide a cost-effective use for cutting vegetation?

Your utility's responses last year were:

Present: ii

As of January 1, 2023: ii

	i. No	ii. Yes
Present	○	●
As of January 1, 2023	○	●

E.IV.i Does the utility work with partners to identify new cost-effective uses for vegetation, taking into consideration environmental impacts and emissions of vegetation waste?

Your utility's responses last year were:

Present: ii

As of January 1, 2023: ii

	i. No	ii. Yes
Present	○	●
As of January 1, 2023	○	●

E.V Vegetation fall-in mitigation

Capability 25

E.V.a Does the utility have a process for treating vegetation outside of right of ways?

Your utility's responses last year were:

Present: ii

As of January 1, 2023: iv

	i. Utility **does not remove** vegetation outside of right of way	ii. Utility **removes some** vegetation outside of right of ways	iii. Utility **systematically removes** vegetation outside of right of way	iv. Utility **systematically removes** vegetation outside of right of way, informing relevant communities of removal
Present	○	●	○	○
As of January 1, 2023	○	○	○	●

E.V.b How is potential vegetation that may pose a threat identified?

Your utility's responses last year were:

Present: **ii**

As of January 1, 2023: **iii**

	i. **No specific process** in place to systematically identify trees likely to pose a risk	ii. **Based on the height of trees** with potential to make contact with electric lines and equipment	iii. **Based on the probability and consequences of impact** on electric lines and equipment as **determined by risk modeling**	iv. Based on the probability and consequences of impact on electric lines and equipment as determined by risk modeling, **as well as regular and accurate systematic inspections for high-risk trees outside the right of way or environmental and climatological conditions contributing to increased risk**
Present	○	●	○	○
As of January 1, 2023	○	●	○	○

E.V.c Is vegetation removed with cooperation from the community?

Your utility's responses last year were:

Present: **ii**

As of January 1, 2023: **ii**

	i. No	ii. Yes
Present	○	●
As of January 1, 2023	○	●

E.V.d Does the utility remove vegetation waste outside its right of way across the entire grid?

across the entire grid?

Your utility's responses last year were:

Present: ii

As of January 1, 2023: ii

	i. No	ii. Yes
Present	○	●
As of January 1, 2023	○	●

E.V.e How long after cutting vegetation does the utility remove vegetation waste outside its right of way?

Your utility's responses last year were:

Present: iv

As of January 1, 2023: iv

	i. Not at all	ii. Longer than 1 week	iii. Within 1 week or less	iv. On the same day
Present	○	○	○	●
As of January 1, 2023	○	○	○	●

E.V.f Does the utility work with local landowners to provide a cost-effective use for cutting vegetation?

Your utility's responses last year were:

Present: ii

As of January 1, 2023: ii

	i. No	ii. Yes
Present	○	●
As of January 1, 2023	○	●

E.V.g Does the utility work with partners to identify new cost-effective uses for vegetation, taking into consideration environmental impacts and emissions of vegetation waste?

Your utility's responses last year were:

Present: ii

As of January 1, 2023: ii

	i. No	ii. Yes

	i. No	ii. Yes
Present	○	●
As of January 1, 2023	○	●

E.VI QA/QC for vegetation maintenance

Capability 26

E.VI.a How is contractor and employee activity audited?

Your utility's responses last year were:

Present: **iii**

As of January 1, 2023: **iii**

	i. **Lack of controls** for auditing work completed, including inspections, for employees or subcontractors	ii. Through an established and functioning audit process to manage and confirm work completed by subcontractors	iii. Through an established and demonstrably functioning audit process to manage and confirm work completed by subcontractors, **where contractor activity is subject to semi-automated audits using technologies capable of sampling the contractor's work** (e.g., LiDAR scans, photographic evidence)	iv. Through an established and demonstrably functioning audit process to manage and confirm work completed by subcontractors, where contractor activity is subject to **automated** audits **using technologies capable of sampling the contractor's work** (e.g., LiDAR scans, photographic evidence)
Present	○	○	●	○
As of January 1, 2023	○	○	●	○

E.VI.b Do contractors follow the same processes and standards as utility's own employees?

Your utility's responses last year were:

Present: **ii**

As of January 1, 2023: **ii**

	i. No	ii. Yes
Present	○	●
As of January 1, 2023	○	●

E.VI.c How frequently is QA/QC information used to identify deficiencies in quality of work performance and inspections performance?

Your utility's responses last year were:

Present: iv

As of January 1, 2023: iv

	i. Never	ii. Sporadically	iii. On an ad hoc basis	iv. Regularly	v. Real-time
Present	○	○	○	●	○
As of January 1, 2023	○	○	○	●	○

E.VI.d How is work and inspections that do not meet utility-prescribed standards remediated?

Your utility's responses last year were:

Present: ii

As of January 1, 2023: iv

	i. **Lack of effective remediation** for ineffective inspections or low-quality work	ii. **QA/QC information is used to identify systemic deficiencies** in quality of work and inspections	iii. QA/QC information is used to identify systemic deficiencies in quality of work and inspections, **and recommend training based on weaknesses**	iv. QA/QC information is used to identify systemic deficiencies in quality of work and inspections, **grade individuals**, and recommend **specific pre-made and tested** training based on weaknesses
Present	○	●	○	○
As of January 1, 2023	○	○	●	○

E.VI.e Are workforce management software tools used to manage and confirm work completed by subcontractors?

Your utility's responses last year were:

Present: ii

As of January 1, 2023: ii

	i. No	ii. Yes
Present	○	●
As of January 1, 2023	○	●

F. Grid operations and protocols

F.I Protective equipment and device settings

F. Protective equipment and device settings

Capability 27

F.I.a How are grid elements adjusted during high threat weather conditions?

Your utility's responses last year were:

Present: **iii**

As of January 1, 2023: **iv**

	i. Utility **does not make changes to adjustable equipment** in response to high wildfire threat conditions	ii. Utility **increases sensitivity of risk reduction elements** during high threat weather conditions	iii. Utility increases sensitivity of risk reduction elements during high threat weather conditions **and monitors near misses**	iv. Utility increases sensitivity of risk reduction elements during high threat weather conditions **based on risk mapping** and monitors near misses
Present	○	○	●	○
As of January 1, 2023	○	○	○	●

F.I.b Is there an automated process for adjusting sensitivity of grid elements and evaluating effectiveness?

Clarification: For clarification on level of automation please refer to the information provided in Table 2 of the Maturity Model (“Illustrative descriptions that may represent typical maturity levels”) in the row labeled “Level of systematization and automation.” Response *i* in this case corresponds to level 0; response *ii* corresponds to level 1 or 2; response *iii* corresponds to level 3; and response *iv* corresponds to level 4.

Your utility's responses last year were:

Present: **ii**

As of January 1, 2023: **ii**

	i. No automated process	ii. Partially automated process	iii. Fully automated process
Present	○	●	○
As of January 1, 2023	○	●	○

F.I.c Is there a predetermined protocol driven by fire conditions for adjusting sensitivity of grid elements?

Your utility's responses last year were:

Present: **ii**

Present:

As of January 1, 2023: ii

	i. No	ii. Yes
Present	○	●
As of January 1, 2023	○	●

F.II Incorporating ignition risk factors in grid control

Capability 28

F.II.a Does the utility have a clearly explained process for determining whether to operate the grid beyond current or voltage designs?

Your utility's responses last year were:

Present: ii

As of January 1, 2023: ii

	i. No	ii. Yes
Present	●	○
As of January 1, 2023	●	○

F.II.b Does the utility have systems in place to automatically track operation history including current, loads, and voltage throughout the grid at the circuit level?

Your utility's responses last year were:

Present: ii

As of January 1, 2023: ii

	i. No	ii. Yes
Present	○	●
As of January 1, 2023	○	●

F.II.c Does the utility use predictive modeling to estimate the expected life and make equipment maintenance, rebuild, or replacement decisions based on grid operating history, and is that model reviewed?

Your utility's responses last year were:

Present: i

As of January 1, 2023: ii

iii. Modeling is used, **and**

	i. **Modeling is not used**	ii. **Modeling is used,** but not evaluated by external experts	iii. Modeling is used, **and the model is evaluated by external experts and verified by historical data**
Present	●	○	○
As of January 1, 2023	●	○	○

F.II.d When does the utility operate the grid above rated voltage and current load?

Your utility's responses last year were:

Present: **iii**

As of January 1, 2023: **iii**

	i. During any conditions	ii. Only in conditions that are unlikely to cause wildfire	iii. Never
Present	○	○	●
As of January 1, 2023	○	○	●

F.III PSPS op. model and consequence mitigation

Capability 29

F.III.a How effective is PSPS event forecasting?

Your utility's responses last year were:

Present: **iv**

As of January 1, 2023: **iv**

	i. PSPS event **frequently forecasted incorrectly**	ii. PSPS event **generally forecasted accurately with fewer than 50% of predictions being false positives**	iii. PSPS event generally forecasted accurately with **fewer than 33%** of predictions being false positives	iv. PSPS event generally forecasted accurately with **fewer than 25%** of predictions being false positives
Present	○	○	○	●
As of January 1, 2023	○	○	○	●

F.III.b What share of customers are communicated to regarding forecasted PSPS events?

Your utility's responses last year were:

Present: **iv**

As of January 1, 2023: **iv**

As of January 1, 2023: iv

	i. Affected customers are **poorly communicated to**, with a significant portion not communicated to at all	ii. PSPS event are communicated to **>95% of affected customers and >99% of medical baseline customers** in advance of PSPS action	iii. PSPS event are communicated to **>98% of affected customers and >99.5% of medical baseline customers** in advance of PSPS action	iv. PSPS event are communicated to **>99% of affected customers and >99.9% of medical baseline customers** in advance of PSPS action
Present	○	○	○	●
As of January 1, 2023	○	○	○	○

	v. PSPS event are communicated to **>99.9% of affected customers and 100% of medical baseline customers** in advance of PSPS action
Present	○
As of January 1, 2023	●

F.III.c During PSPS events, what percent of customers complain?

Your utility's responses last year were:

Present: iii

As of January 1, 2023: iii

	i. 1% or more	ii. Less than 1%	ili. Less than 0.5%
Present	○	○	●
As of January 1, 2023	○	○	●

F.III.d During PSPS events, does the utility's website go down?

Your utility's responses last year were:

Present: i

As of January 1, 2023: i

	i. No	ii. Yes
Present	●	○
As of January 1, 2023	●	○

F.III.e During PSPS events, what is the average downtime per customer?

Your utility's responses last year were:

Present: v

As of January 1, 2023: **v**

	i. More than 1 hour	ii. Less than 1 hour	iii. Less than 0.5 hours	iv. Less than 0.25 hours	v. Less than 0.1 hours
Present	○	○	○	○	●
As of January 1, 2023	○	○	○	○	●

F.III.f Are specific resources provided to customers to alleviate the impact of the power shutoff (e.g., providing backup generators, supplies, batteries, etc.)?

Your utility's responses last year were:

Present: **i**

As of January 1, 2023: **i**

	i. No	ii. Yes
Present	○	●
As of January 1, 2023	○	●

F.IV Protocols for PSPS invitation

Capability 30

F.IV.a Does the utility have explicit thresholds for activating a PSPS?

Your utility's responses last year were:

Present: **iii**

As of January 1, 2023: **iii**

	i. Utility has **no clearly explained threshold** for PSPS activation	ii. Utility **has explicit policies and explanation** for the thresholds above which PSPS is activated as a measure of last resort	iii. Utility has explicit policies and explanation for the thresholds above which PSPS is activated, **but maintains grid in sufficiently low risk condition to not require any PSPS activity, though may de-energize specific circuits upon detection of damaged condition of electrical lines and equipment, or contact with foreign objects**
Present	○	○	●
As of January 1, 2023	○	○	●

F.IV.b Which of the following does the utility take into account when making PSPS decisions? Select all that apply.

Your utility's responses last year were:

Present:

As of January 1, 2023:

	i. SME opinion	ii. A partially automated system which recommends circuits for which PSPS should be activated and is validated by SMEs
Present	■	☐
As of January 1, 2023	■	☐

F.IV.c Under which circumstances does the utility de-energize circuits? Select all that apply.

Your utility's responses last year were:

Present: **i,ii,iii,iv**

As of January 1, 2023: **i,ii,iii,iv**

	i. Upon detection of damaged conditions of electric equipment	ii. When circuit presents a safety risk to suppression or other personnel	iii. When equipment has come into contact with foreign objects posing ignition risk	iv. Additional reasons not listed
Present	■	■	■	■
As of January 1, 2023	■	■	■	■

F.IV.d Given the condition of the grid, with what probability does the utility expect any large scale PSPS events affecting more than 10,000 people to occur in the coming year?

Clarification: In your responses to this question, please give your current assessment of probability of large scale PSPS events ("Present") and what you expect the probability to be at the end of 2022 ("As of January 1, 2023").

Your utility's responses last year were:

Present: **i**

As of January 1, 2023: **i**

	i. Less than 5 % - Grid is in sufficiently low risk condition that PSPS events will not be required, and the only circuits which may require de- energization have sufficient redundancy that energy supply to customers will not be disrupted	ii. Greater than 5% - Grid condition paired with risk indicates that PSPS may be necessary in some areas

Present	i. Less than 5 % - Grid is in sufficiently low risk condition that PSPS events will not be required, and the only circuits which may require de- energization have	ii. Greater than 5% - Grid condition
As of January 1, 2023		

F.V Protocols for PSPS re-energization

Capability 31

F.V.a Is there a process for inspecting de-energized sections of the grid prior to re- energization?

Your utility's responses last year were:

Present: **ii**

As of January 1, 2023: **ii**

	i. **Inadequate process** for inspecting de- energized sections of the grid prior to re- energization	ii. **Existing process** for accurately inspecting de-energized sections of the grid prior to re-energization	iii. Existing process for accurately inspecting de-energized sections of the grid prior to re-energization, **augmented with sensors and aerial tools**
Present	○	●	○
As of January 1, 2023	○	●	○

F.V.b How automated is the process for inspecting de-energized sections of the grid prior to re-energization?

Clarification: For clarification on level of automation please refer to the information provided in Table 2 of the Maturity Model (“Illustrative descriptions that may represent typical maturity levels”) in the row labeled “Level of systematization and automation.” Response *i* in this case corresponds to level 0; response *ii* corresponds to level 1 or 2; response *iii* corresponds to level 3; and response *iv* corresponds to level 4.

Your utility's responses last year were:

Present: **ii**

As of January 1, 2023: **iii**

	i. Manual process, not automated at all	ii. Partially automated (<50%)	iii. Mostly automated (≥50%)	iv. Primarily automated, minimal manual inputs
Present	○	●	○	○
As of January 1, 2023	○	●	○	○

F.V.c What is the average amount of time that it takes you to re-energize your grid from a PSPS once weather has subsided to below your de-

energization threshold?

Your utility's responses last year were:

Present: **v**

As of January 1, 2023: **v**

	i. Longer than 24 hours	ii. Within 24 hours	iii. Within 18 hours	iv. Within 12 hours	v. Within 8 hours
Present	○	○	○	○	●
As of January 1, 2023	○	○	○	○	●

F.V.d What level of understanding of the probability of ignitions after PSPS events does the utility have across the grid?

Your utility's responses last year were:

Present: **ii**

As of January 1, 2023: **ii**

	i. No probability estimate of after event ignitions	ii. Some probability estimates exist	iii. Utility has accurate quantitative understanding of ignition risk following re-energization, by asset, validated by historical data and near misses
Present	○	●	○
As of January 1, 2023	○	●	○

F.VI Ignition prevention and suppression

Capability 32

F.VI.a Does the utility have defined policies around the role of workers in suppressing ignitions?

Your utility's responses last year were:

Present: **ii**

As of January 1, 2023: **iii**

	i. Utility has **no policies** governing what crews' roles are in suppressing ignitions	ii. Utilities have **explicit policies** about the role of crews at the site of ignition	iii. Utilities have explicit policies about the role of crews, **including contractors and subcontractors**, at the site of ignition
Present	○	●	○
As of January 1, 2023	○	●	○

F.VI.b What training and tools are provided to workers in the field?

Your utility's responses last year were:

Present: **ii**

As of January 1, 2023: **v**

	i. Crews are **untrained**	ii. **Training and communications tools** are provided to **immediately report ignitions** caused by workers or in immediate vicinity of workers are provided	iii. All criteria in option (ii) met; In addition, **suppression tools** and training to **suppress small ignitions** caused by workers or in immediate vicinity of workers are provided	iv. All criteria in option (iii) met; In addition, communication tools function without cell reception and training **by suppression professionals** is provided	v. All criteria in option (iv) met and apply to contractors as well as utility workers
Present	○	●	○	○	○
As of January 1, 2023	○	○	●	○	○

F.VI.c In the events where workers have encountered an ignition, have any Cal/OSHA reported injuries or fatalities occurred in the last year?

Clarification: For the first response (“Present”), please respond whether the utility had any Cal/OSHA reported injuries or fatalities (yes or no) in 2021. For the second response (“As of January 1, 2023”), please specify whether you think there is a chance the utility may have Cal/OSHA reported injuries or fatalities (yes or no) in 2022.

Your utility's responses last year were:

Present: **i**

As of January 1, 2023: **i**

	i. No	ii. Yes
Present	●	○
As of January 1, 2023	●	○

F.VI.d Does the utility provide training to other workers at other utilities and outside the utility industry on best practices to minimize, report and suppress ignitions?

Clarification: An example of workers outside the utility industry might be workers at a vegetation management company who prune trees near utility equipment.

Your utility's responses last year were:

Present: i

As of January 1, 2023: ii

	i. No	ii. Yes
Present	●	○
As of January 1, 2023	○	●

G. Data governance

G.I Data collection and curation

Capability 33

G.I.a Does the utility have a centralized database of situational, operational, and risk data?

Clarification: This question is asking whether the utility centralizes most of its situational, operational, and risk data in a single database.

Your utility's responses last year were:

Present: i

As of January 1, 2023: ii

	i. No	ii. Yes
Present	●	○
As of January 1, 2023	○	●

G.I.b Is the utility able to use advanced analytics on its centralized database of situational, operational, and risk data to make operational and investment decisions?

Clarification: Here, "advanced analytics" refers to analysis integrating different types of data from this centralized database in a sufficiently reliable way to create a detailed, quantitative and holistic picture of tradeoffs to be weighed in operational or investment decisions.

Your utility's responses last year were:

Present: i

As of January 1, 2023: iii

	i. No	ii. Yes, **but only for short term decision making**	iii. Yes, **for both short term and long-term decision making**
Present	●	○	○
As of January 1, 2023	○	○	●

	i. No	ii. Yes, but only for short term decision making	iii. Yes, for both short term and long-term decision making
As of January 1, 2023	○	○	●

G.I.c Does the utility collect data from all sensored portions of electric lines, equipment, weather stations, etc.?

Your utility's responses last year were:

Present: **ii**

As of January 1, 2023: **ii**

	i. No	ii. Yes
Present	○	●
As of January 1, 2023	○	●

G.I.d Is the utility's database of situational, operational, and risk data able to ingest and share data using real-time API protocols with a wide variety of stakeholders?

Your utility's responses last year were:

Present: **i**

As of January 1, 2023: **ii**

	i. No	ii. Yes
Present	●	○
As of January 1, 2023	●	○

G.I.e Does the utility identify highest priority additional data sources to improve decision making?

Your utility's responses last year were:

Present: **ii**

As of January 1, 2023: **iii**

	i. No	ii. Yes	iii. Yes, with plans to incorporate these into centralized database of situational, operational and risk data
Present	○	●	○
As of January 1, 2023	○	○	●

G.I.f Does the utility share best practices for database management and use with other utilities in California and beyond?

Your utility's responses last year were:

Present: i

As of January 1, 2023: iii

	i. No	ii. Yes	iii. Yes, with specific processes to do so in place
Present	●	○	○
As of January 1, 2023	○	○	●

G.II Data transparency and analytics

Capability 34

G.II.a Is there a single document cataloguing all fire-related data and algorithms, analyses, and data processes?

Your utility's responses last year were:

Present: i

As of January 1, 2023: ii

	i. No	ii. Yes
Present	●	○
As of January 1, 2023	○	●

G.II.b Is there an explanation of the sources, cleaning processes, and assumptions made in the single document catalog?

Your utility's responses last year were:

Present: i

As of January 1, 2023: ii

	i. No	ii. Yes
Present	●	○
As of January 1, 2023	○	●

G.II.c Are all analyses, algorithms, and data processing explained and documented? Is there a system for sharing data in real time across multiple levels of permissions?

Your utility's responses last year were:

Present: i

As of January 1, 2023: iii

	i. Analyses, algorithms, and data processing **are not** documented	ii. Analyses, algorithms, and data processing **are** documented	iii. Analyses, algorithms, and data processing are documented **and explained**	iv. Analyses, algorithms, and data processing are documented and explained, **including sensitivities for each type of analysis and data**
Present	●	○	○	○
As of January 1, 2023	○	●	○	○

G.II.d Is there a system for sharing data in real time across multiple levels of permissions?

Your utility's responses last year were:

Present: i

As of January 1, 2023: ii

	i. No system capable of sharing data in real time across multiple levels of permissions	ii. System is capable of sharing across at least two levels of permissions, including a.) utility-regulator permissions, and b.) first responder permissions	iii. System is capable of sharing across at least three levels of permissions, including a.) utility- regulator permissions, b.) first responder permissions, and c.) public data sharing
Present	●	○	○
As of January 1, 2023	○	●	○

G.II.e Are the most relevant wildfire related data algorithms disclosed?

Clarification: This question is asking whether all algorithms or decision-making processes used to inform decision making around investment choices, risk mitigation choices, and emergency response are disclosed.

Your utility's responses last year were:

Present: ii

As of January 1, 2023: iii

	i. No	ii. **Yes, disclosed to regulators and other relevant stakeholders upon request**	iii. Yes, **disclosed publicly in WMP upon request**	iv. Disclosed publicly **as information becomes available (regardless of regulatory request)**

Present	○	●	○	○
As of January 1, 2023	○	○	●	○

iv. Disclosed publicly **as information becomes**

ii. **Yes, disclosed**

G.III Near-miss tracking

Capability 35

G.III.a Does the utility track near-miss data for all near misses with wildfire ignition potential?

Clarification: Note that the WMP Guidelines have changed the term “near miss” to “risk event” with the following definition: “an event with probability of ignition, including wires down, contacts with objects, line slap, events with evidence of significant heat generation, and other events that cause sparking or have the potential to cause ignition.”

Your utility's responses last year were:

Present: **ii**

As of January 1, 2023: **ii**

	i. No	ii. Yes
Present	○	●
As of January 1, 2023	○	●

G.III.b Based on near-miss data captured, is the utility able to simulate wildfire potential given an ignition based on event characteristics, fuel loads, and moisture?

Your utility's responses last year were:

Present: **i**

As of January 1, 2023: **ii**

	i. No	ii. Yes
Present	●	○
As of January 1, 2023	○	●

G.III.c Does the utility capture data related to the specific mode of failure when capturing near-miss data?

Your utility's responses last year were:

Present: **ii**

As of January 1, 2023: **ii**

	i. No	ii. Yes
Present	○	●
As of January 1, 2023	○	●

G.III.d Is the utility able to predict the probability of a near miss in causing an ignition based on a set of event characteristics?

Your utility's responses last year were:

Present: i

As of January 1, 2023: ii

	i. No	ii. Yes
Present	●	○
As of January 1, 2023	○	●

G.III.e Does the utility use data from near misses to change grid operation protocols in real time?

Your utility's responses last year were:

Present: i

As of January 1, 2023: ii

	i. No	ii. Yes
Present	●	○
As of January 1, 2023	○	●

G.IV Data sharing with the research community

Capability 36

G.IV.a Does the utility make disclosures and share data?

Clarification: In this question, “disclosures” refers to disclosures to Energy Safety and to the public.

Your utility's responses last year were:

Present: ii

As of January 1, 2023: iii

	i. Utility **fails to make disclosures**	ii. Utility **makes required disclosures**, but does not share data beyond what is required	iii. Utility makes required disclosures **and shares data beyond what is required**
Present	○	●	○
As of January 1, 2023	○	○	●

G.IV.b Does the utility in engage in research?

Clarification: Here, “research” broadly refers to collaborative research (e.g., with other utilities, academics, or the government) or to independent research where the findings are made available to outside parties (such as academics, other utilities, the government, or the public).

Your utility's responses last year were:

Present: **ii**

As of January 1, 2023: **ii**

	i. Utility **does not participate** in collaborative research	ii. Utility **participates** in collaborative research	iii. Utility **funds** and participates in both independent and collaborative research	iv. Utility funds and participates in both independent and collaborative research, **and ensures that research, where possible, is abstracted and applied to other utilities**
Present	○	●	○	○
As of January 1, 2023	○	●	○	○

G.IV.c What subjects does utility research address?

Your utility's responses last year were:

Present: **ii**

As of January 1, 2023: **ii**

	i. Utility ignited wildfires	ii. Utility ignited wildfires **and risk reduction initiatives**	iii. None of the above
Present	○	●	○
As of January 1, 2023	○	●	○

G.IV.d Does the utility promote best practices based on latest independent scientific and operational research?

Clarification: Promoting best practices could take various forms, for example writing and publicly releasing a report or detailing results achieved when a new method of tool was piloted, including which techniques were more or less effective.

Your utility's responses last year were:

Present: **ii**

As of January 1, 2023: **ii**

	i. No	ii. Yes
Present	○	●
As of January 1, 2023	○	●

H. Resource allocation methodology

H.I Scenario analysis across different risk levels

Capability 37

H.I.a For what risk scenarios is the utility able to provide projected cost and total risk reduction potential?

Your utility's responses last year were:

Present: **ii**

As of January 1, 2023: **iii**

	i. Utility does not project proposed initiatives or costs across different levels of risk scenarios	ii. Utility provides an accurate high- risk reduction and low risk reduction scenario, and the projected cost and total risk reduction potential	iii. Utility provides an accurate high- risk reduction and low risk reduction scenario, in addition to its proposed scenario, and the projected cost and total risk reduction potential
Present	○	●	○
As of January 1, 2023	○	●	○

H.I.b For what level of granularity is the utility able to provide projections for each scenario?

Your utility's responses last year were:

Present: **ii**

As of January 1, 2023: **iii**

	i. Territory-level or greater	ii. Region level	iii. Circuit level	iv. Span level	v. Asset level
Present	○	●	○	○	○
As of January 1, 2023	○	○	●	○	○

H.I.c Does the utility include a long term (e.g., 6-10 year) risk estimate taking into account macro factors (climate change, etc.) as well as planned risk reduction initiatives in its scenarios?

Your utility's responses last year were:

Present: ii

As of January 1, 2023: ii

	i. No	ii. Yes
Present	○	●
As of January 1, 2023	○	●

H.I.d Does the utility provide an estimate of impact on reliability factors in its scenarios?

Clarification: Here, “reliability factors” refer to factors impacting the reliability of service to customers.

Your utility's responses last year were:

Present: ii

As of January 1, 2023: ii

	i. No	ii. Yes
Present	○	●
As of January 1, 2023	○	●

H.II Presentation of relative risk-spend efficiency for portfolio of initiatives

Capability 38

H.II.a Does the utility present accurate qualitative rankings for its initiatives by risk-spend efficiency?

Your utility's responses last year were:

Present: ii

As of January 1, 2023: ii

	i. No	ii. Yes
Present	○	●
As of January 1, 2023	○	●

H.II.b What initiatives are captured in the ranking of risk-spend efficiency?

Your utility's responses last year were:

Present: iii

As of January 1, 2023: iii

	i. Common commercial initiatives	ii. All commercial initiatives	iii. All commercial initiatives and emerging initiatives	iv. None of the above
Present	○	●	○	○
As of January 1, 2023	○	●	○	○

H.II.c Does the utility include figures for present value cost and project risk reduction impact of each initiative, clearly documenting all assumptions (e.g. useful life, discount rate, etc.)?

Your utility's responses last year were:

Present: ii

As of January 1, 2023: ii

	i. No	ii. Yes
Present	○	●
As of January 1, 2023	○	●

H.II.d Does the utility provide an explanation of its investment in each particular initiative?

Your utility's responses last year were:

Present: ii

As of January 1, 2023: iii

	i. No	ii. **Yes, including the expected overall reduction in risk**	iii. Yes, including the expected overall reduction in risk **and estimates of impact on reliability factors**
Present	○	●	○
As of January 1, 2023	○	●	○

H.II.e At what level of granularity is the utility able to provide risk efficiency figures?

Your utility's responses last year were:

Present: ii

As of January 1, 2023: iii

| | i. Territory-level or greater | ii. Region level | iii. Circuit level | iv. Span level | v. Asset level |

	i. Territory-level or greater	ii. Region level	iii. Circuit level	iv. Span level	v. Asset level
Present	○	●	○	○	○
As of January 1, 2023	○	○	●	○	○

H.III Process for determining risk-spend efficiency of vegetation management initiatives

Capability 39

H.III.a How accurate of a risk-spend efficiency calculation can the utility provide?

Your utility's responses last year were:

Present: **iii**

As of January 1, 2023: **iv**

	i. Utility has **no clear understanding** of the relative risk-spend efficiency of various clearances and types of vegetation management initiatives	ii. Utility has **an accurate relative understanding** of the cost and effectiveness to **produce a reliable risk-spend efficiency estimate**	iii. Utility has accurate **quantitative** understanding of cost and effectiveness to produce a reliable risk-spend efficiency estimate	iv. Utility has accurate quantitative understanding of cost, **including sensitivities** and effectiveness to produce a reliable risk-spend efficiency estimate
Present	○	○	●	○
As of January 1, 2023	○	○	●	○

H.III.b At what level can estimates be prepared?

Your utility's responses last year were:

Present: **ii**

As of January 1, 2023: **iii**

	i. Less granular than regional, or not at all	ii. Regional	iii. Circuit-based	iv. Span-based	v. Asset-based
Present	○	●	○	○	○
As of January 1, 2023	○	○	●	○	○

H.III.c How frequently are estimates updated?

Your utility's responses last year were:

Present: **iii**

As of January 1, 2023: **iii**

	i. Never	ii. Less frequently than annually	iii. Annually or more frequently
Present	○	○	●
As of January 1, 2023	○	○	●

H.III.d What vegetation management initiatives does the utility include within its evaluation?

Your utility's responses last year were:

Present: **iv**

As of January 1, 2023: **v**

	i. None	ii. Some	iii. Most	iv. All	v. All, supported by independent testing
Present	○	○	○	●	○
As of January 1, 2023	○	○	○	●	○

H.III.e Can the utility evaluate risk reduction synergies from combination of various initiatives?

Your utility's responses last year were:

Present: **i**

As of January 1, 2023: **ii**

	i. No	ii. Yes
Present	●	○
As of January 1, 2023	○	●

H.IV Process for determining risk-spend efficiency of system hardening initiatives

Capability 40

H.IV.a How accurate of a risk-spend efficiency calculation can the utility provide?

Your utility's responses last year were:

Present: **iii**

As of January 1, 2023: **iv**

	ii. Utility has an	iii. Utility has	iv. Utility has accurate

	i. Utility has **no clear understanding** of the relative risk-spend efficiency of hardening initiatives	ii. Utility has an accurate **relative understanding** of the cost and effectiveness to **produce a reliable risk-spend efficiency estimate**	iii. Utility has accurate **quantitative** understanding of cost and effectiveness to produce a reliable risk-spend efficiency estimate	iv. Utility has accurate, quantitative understanding of cost, **including sensitivities** and effectiveness to produce a reliable risk-spend efficiency estimate
Present	○	○	●	○
As of January 1, 2023	○	○	●	○

H.IV.b At what level can estimates be prepared?

Your utility's responses last year were:

Present: **ii**

As of January 1, 2023: **iii**

	i. Less granular than regional, or not at all	ii. Regional	iii. Circuit-based	iv. Span-based	v. Asset-based
Present	○	●	○	○	○
As of January 1, 2023	○	○	●	○	○

H.IV.c How frequently are estimates updated?

Your utility's responses last year were:

Present: **iii**

As of January 1, 2023: **iii**

	i. Never	ii. Less frequently than annually	iii. Annually or more frequently
Present	○	○	●
As of January 1, 2023	○	○	●

H.IV.d What grid hardening initiatives are included in the utility risk-spend efficiency analysis?

Your utility's responses last year were:

Present: **iv**

As of January 1, 2023: **v**

	ii. **Some commercially available** grid	iii. **Most** commercially available grid	iv. **All** commercially available grid	v. All commercially available grid hardening initiatives, **as well as those**

	i. None	ii. **Some commercially available** grid hardening initiatives	iii. **Most** commercially available grid hardening initiatives	iv. **All** commercially available grid hardening initiatives	v. **All commercially available grid hardening initiatives, as well as those initiatives that are lab-tested**
Present	○	○	○	●	○
As of January 1, 2023	○	○	○	●	○

H.IV.e Can the utility evaluate risk reduction effects from the combination of various initiatives?

Your utility's responses last year were:

Present: **i**

As of January 1, 2023: **ii**

	i. No	ii. Yes
Present	●	○
As of January 1, 2023	○	●

H.V Portfolio-wide initiative allocation methodology

Capability 41

H.V.a To what extent does the utility allocate capital to initiatives based on risk-spend efficiency (RSE)?

Your utility's responses last year were:

Present: **iv**

As of January 1, 2023: **iv**

	i. Utility does not base capital allocation on RSE	ii. Utility considers estimates of RSE when allocating capital	iii. Accurate RSE estimates for all initiatives are used to determine capital allocation within categories only (e.g. to choose the best vegetation management management and initiative)	iv. Accurate RSE estimates for all initiatives are used to determine capital allocation across portfolio (e.g. prioritizing between vegetation management and grid hardening)
Present	○	○	○	●
As of January 1, 2023	○	○	○	●

H.V.b What information does the utility take into account when generating RSE estimates?

Your utility's responses last year were:

Present: **ii**

As of January 1, 2023: iii

	i. Average estimate of RSE by initiative category	ii. Specific information by initiative, including state of equipment and location where initiative will be implemented	iii. Specific information by initiative at the asset level, including state of specific assets and location where initiative will be implemented
Present	○	●	○
As of January 1, 2023	○	●	○

H.V.c How does the utility verify RSE estimates?

Your utility's responses last year were:

Present: ii

As of January 1, 2023: iii

	i. Utility does not verify RSE estimates	i. RSE estimates are verified by historical or experimental pilot data	iii. RSE estimates are verified by historical or experimental pilot data and confirmed by independent experts or other utilities in CA
Present	○	●	○
As of January 1, 2023	○	○	●

H.V.d Does the utility take into consideration impact on safety, reliability, and other priorities when making spending decisions?

Your utility's responses last year were:

Present: ii

As of January 1, 2023: ii

	i. No	ii. Yes
Present	○	●
As of January 1, 2023	○	●

H.VI Portfolio-wide innovation in new wildfire initiatives

Capability 42

H.VI.a How does the utility develop and evaluate the efficacy of new wildfire initiatives?

Your utility's responses last year were:

Present: iii

As of January 1, 2023: iv

	i. No program in place	ii. Utility uses **pilots and measures** direct reduction in ignition events	iii. Utility uses **pilots and measures** direct reduction in ignition events and near-misses.	iv. Utility uses pilots, followed by in-field testing, measuring reduction in ignition events and near-misses.
Present	○	○	●	○
As of January 1, 2023	○	○	○	●

H.VI.b How does the utility develop and evaluate the risk-spend efficiency of new wildfire initiatives?

Clarification: In response *ii* below, “total cost of ownership” is the cost over the expected useful life of an asset, including purchase, operation and maintenance, and here refers in particular to the spend portion used in the evaluation of risk-spend efficiency, while risk reduction is evaluated separately.

Your utility's responses last year were:

Present: ii

As of January 1, 2023: ii

	i. No program in place	ii. Utility uses **total cost of ownership**
Present	○	●
As of January 1, 2023	○	●

H.VI.c At what level of granularity does the utility measure the efficacy of new wildfire initiatives?

Your utility's responses last year were:

Present: ii

As of January 1, 2023: iii

	i. None	ii. Entire territory	iii. Circuit	iv. Span	v. Asset
Present	○	●	○	○	○
As of January 1, 2023	○	○	●	○	○

H.VI.d Are the reviews of innovative initiatives audited by independent parties?

Clarification: Here, “reviews” refers to findings evaluating innovative initiatives which would assist another utility in making a decision about whether to implement that initiative and help it determine

how to do so effectively. Criteria might include but are not limited to the following: technical feasibility, effectiveness, risk-spend efficiency, ease of implementation, and comparison to alternative options.

Your utility's responses last year were:

Present: i

As of January 1, 2023: ii

	i. None	ii. Yes
Present	●	○
As of January 1, 2023	○	●

H.VI.e Does the utility share the findings of its evaluation of innovative initiatives with other utilities, academia, and the general public?

Your utility's responses last year were:

Present: ii

As of January 1, 2023: ii

	i. None	ii. Yes
Present	○	●
As of January 1, 2023	○	●

I. Emergency planning and preparedness

I.I Wildfire plan integrated with overall disaster/ emergency plan

Capability 43

I.I.a Is the wildfire plan integrated with overall disaster and emergency plans?

Clarification: If the utility's Wildfire Mitigation Plan is an integrated component of an overall disaster and emergency plan, then the overall plan considers at least the compound effects of risks in both directions. For example, the plan considers the additional risk of fire posed by an earthquake and how to manage any compounding effects.

Your utility's responses last year were:

Present: iii

As of January 1, 2023: iii

	i. No	ii. **Wildfire plan is a component of overall plan**	iii. Wildfire plan is an **integrated component** of overall plan
Present	○	○	●
As of January 1, 2023	○	○	●

I.I.b Does the utility run drills to audit the viability and execution of its wildfire plans?

Your utility's responses last year were:

Present: ii

As of January 1, 2023: ii

	i. No	ii. Yes
Present	○	●
As of January 1, 2023	○	●

I.I.c Is the impact of confounding events or multiple simultaneous disasters considered in the planning process?

Your utility's responses last year were:

Present: ii

As of January 1, 2023: ii

	i. No	ii. Yes
Present	○	●
As of January 1, 2023	○	●

I.I.d Is the plan integrated with disaster and emergency preparedness plans of other relevant stakeholders (e.g., CAL FIRE, Fire Safe Councils, etc.)?

Your utility's responses last year were:

Present: ii

As of January 1, 2023: ii

	i. No	ii. Yes
Present	○	●
As of January 1, 2023	○	●

I.I.e Does the utility take a leading role in planning, coordinating, and integrating plans across stakeholders?

Your utility's responses last year were:

Present: ii

As of January 1, 2023: ii

	i. No	ii. Yes
Present	○	●
As of January 1, 2023	○	●

I.II Plan to restore service after wildfire related outage

Capability 44

I.II.a Are there detailed and actionable procedures in place to restore service after a wildfire related outage?

Your utility's responses last year were:

Present: ii

As of January 1, 2023: ii

	i. No	ii. Yes
Present	○	●
As of January 1, 2023	○	●

I.II.b Are employee and subcontractor crews trained in, and aware of, plans?

Your utility's responses last year were:

Present: ii

As of January 1, 2023: ii

	i. No	ii. Yes
Present	○	●
As of January 1, 2023	○	●

I.II.c To what level are procedures to restore service after a wildfire-related outage customized?

Your utility's responses last year were:

Present: iii

Present: iii

As of January 1, 2023: iii

	i. Territory-wide	ii. Region level	iii. Circuit level	iv. Span level	v. Asset level
Present	○	○	●	○	○
As of January 1, 2023	○	○	●	○	○

I.II.d Is the customized procedure to restore service based on topography, vegetation, and community needs?

Your utility's responses last year were:

Present: ii

As of January 1, 2023: ii

	i. No	ii. Yes
Present	○	●
As of January 1, 2023	○	●

I.II.e Is there an inventory of high risk-spend efficiency resources available for repairs?

Clarification: This question is asking whether the resources, components, and tools that the utility has available for repairs, maintenance, and unexpected replacement are the most risk-spend efficient options on the market.

Your utility's responses last year were:

Present: ii

As of January 1, 2023: ii

	i. No	ii. Yes
Present	○	●
As of January 1, 2023	○	●

I.III Emergency community engagement during and after wildfire

Capability 45

I.III.a Does the utility provide clear and substantially complete communication of available information relevant to affected customers?

Clarification: Does the utility provide all available information which could be relevant to affected customers such that customers can receive it in real time and easily understand it?

Your utility's responses last year were:

Present: **iii**

As of January 1, 2023: **iii**

	i. No	ii. Yes	iii. Yes, **along with referrals to other agencies**
Present	○	○	●
As of January 1, 2023	○	○	●

I.III.b What percent of affected customers receive complete details of available information?

Your utility's responses last year were:

Present: **v**

As of January 1, 2023: **v**

	i. ≤95% of customers	ii. >95% of customers	iii. >98% of customers	iv. >99% of customers	v. >99.9% of customers
Present	○	○	○	○	●
As of January 1, 2023	○	○	○	○	●

I.III.c What percent of affected medical baseline customers receive complete details of available information?

Your utility's responses last year were:

Present: **v**

As of January 1, 2023: **v**

	i. ≤99% of medical baseline customers	ii. >99% of medical baseline customers	iii. >99.5% of medical baseline customers	iv. >99.9% of medical baseline customers	v. 100% of medical baseline customers
Present	○	○	○	○	●
As of January 1, 2023	○	○	○	○	●

I.III.d How does the utility assist where helpful with communication of information related to power outages to customers?

Your utility's responses last year were:

Present: **ii**

As of January 1, 2023: **ii**

	i. Through availability of relevant evacuation information and links on website and toll-free telephone number	ii. Through availability of relevant evacuation information and links on website and toll-free telephone number, **and assisting disaster response professionals as requested**	iii. None of the above
Present	●	○	○
As of January 1, 2023	●	○	○

I.III.e How does the utility engage with other emergency management agencies during emergency situations?

Your utility's responses last year were:

Present: **iii**

As of January 1, 2023: **iii**

	i. Utility does not engage with other agencies	ii. **Utility engages with other agencies in an ad hoc manner**	iii. Utility **has detailed and actionable established protocols for engaging** with emergency management organizations
Present	○	○	●
As of January 1, 2023	○	○	●

I.III.f Does the utility communicate and coordinate resources to communities during emergencies (e.g., shelters, supplies, transportation etc.)?

Your utility's responses last year were:

Present: **ii**

As of January 1, 2023: **ii**

	i. No	ii. Yes
Present	○	●
As of January 1, 2023	○	●

I.IV Protocols in place to learn from wildfire events

Capability 46

I.IV.a Is there a protocol in place to record the outcome of emergency events and to clearly and actionably document learnings and potential process improvements?

Your utility's responses last year were:

Present: ii

As of January 1, 2023: ii

	i. No	ii. Yes
Present	○	●
As of January 1, 2023	○	●

I.IV.b Is there a defined process and staff responsible for incorporating learnings into emergency plan?

Your utility's responses last year were:

Present: ii

As of January 1, 2023: ii

	i. No	ii. Yes
Present	○	●
As of January 1, 2023	○	●

I.IV.c Once updated based on learnings and improvements, is the updated plan tested using "dry runs" to confirm its effectiveness?

Your utility's responses last year were:

Present: ii

As of January 1, 2023: ii

	i. No	ii. Yes
Present	○	●
As of January 1, 2023	○	●

I.IV.d Is there a defined process to solicit input from a variety of other stakeholders and incorporate learnings from other stakeholders into the emergency plan?

Your utility's responses last year were:

Present: ii

As of January 1, 2023: ii

	i. No	ii. Yes
Present	○	●
As of January 1, 2023	○	●

i. No ii. Yes

I.V Processes for continuous improvement after wildfire and PSPS events

Capability 47

I.V.a Does the utility conduct an evaluation or debrief process after a wildfire?

Your utility's responses last year were:

Present: **ii**

As of January 1, 2023: **ii**

	i. No	ii. Yes
Present	○	●
As of January 1, 2023	○	●

I.V.b Does the utility conduct a customer survey and utilize partners to disseminate requests for stakeholder engagement?

Your utility's responses last year were:

Present: **iii**

As of January 1, 2023: **iii**

	i. No	ii. One or the other	iii. Both
Present	○	○	●
As of January 1, 2023	○	○	●

I.V.c In what other activities does the utility engage?

Your utility's responses last year were:

Present: **iii**

As of January 1, 2023: **iv**

	i. None	ii. Public listening sessions	iii. Debriefs with partners	iv. Public listening sessions, debriefs with partners, and others
Present	○	○	●	○
As of January 1, 2023	○	○	○	●

I.V.d Does the utility share with partners findings about what can be improved?

Your utility's responses last year were:

Present: ii

As of January 1, 2023: ii

	i. No	ii. Yes
Present	○	●
As of January 1, 2023	○	●

I.V.e Are feedback and recommendations on potential improvements made public?

Your utility's responses last year were:

Present: ii

As of January 1, 2023: ii

	i. No	ii. Yes
Present	○	●
As of January 1, 2023	○	●

I.V.f Does the utility conduct proactive outreach to local agencies and organizations to solicit additional feedback on what can be improved?

Your utility's responses last year were:

Present: ii

As of January 1, 2023: ii

	i. No	ii. Yes
Present	○	●
As of January 1, 2023	○	●

I.V.g Does the utility have a clear plan for post-event listening and incorporating lessons learned from all stakeholders?

Your utility's responses last year were:

Present: ii

As of January 1, 2023: ii

	i. No	ii. Yes
Present	○	●
As of January 1, 2023	○	●

I.V.h Does the utility track the implementation of recommendations and report upon their impact?

Clarification: Here, “recommendations” refers to recommendations received from customers, local agencies, organizations, and other stakeholders following a wildfire or PSPS event.

Your utility's responses last year were:

Present: ii

As of January 1, 2023: ii

	i. No	ii. Yes
Present	○	●
As of January 1, 2023	○	●

I.V.i Does the utility have a process to conduct reviews after wildfires in other the territory of other utilities and states to identify and address areas of improvement?

Your utility's responses last year were:

Present: ii

As of January 1, 2023: ii

	i. No	ii. Yes
Present	○	●
As of January 1, 2023	○	●

J. Stakeholder cooperation and community engagement

J.I Cooperation and best practice sharing with other utilities

Capability 48

J.I.a Does the utility actively work to identify best practices from other utilities through a clearly defined operational process?

Your utility's responses last year were:

Present: iii

As of January 1, 2023: iii

	i. No	ii. Yes, from other California utilities	ii. Yes, from other global utilities
Present	○	○	●
As of January 1, 2023	○	○	●

J.I.b Does the utility successfully adopt and implement best practices identified from other utilities?

Your utility's responses last year were:

Present: **ii**

As of January 1, 2023: **ii**

	i. No	ii. Yes
Present	○	●
As of January 1, 2023	○	●

J.I.c Does the utility seek to share best practices and lessons learned in a consistent format?

Your utility's responses last year were:

Present: **ii**

As of January 1, 2023: **ii**

	i. No	ii. Yes
Present	○	●
As of January 1, 2023	○	●

J.I.d Does the utility share best practices and lessons via a consistent and predictable set of venues/media?

Your utility's responses last year were:

Present: **ii**

As of January 1, 2023: **ii**

	i. No	ii. Yes
Present	○	●
As of January 1, 2023	○	●

J.I.e Does the utility participate in annual benchmarking exercises with other utilities to find areas for improvement?

Your utility's responses last year were:

Present: ii

As of January 1, 2023: ii

	i. No	ii. Yes
Present	○	●
As of January 1, 2023	○	●

J.I.f Has the utility implemented a defined process for testing lessons learned from other utilities to ensure local applicability?

Your utility's responses last year were:

Present: ii

As of January 1, 2023: ii

	i. No	ii. Yes
Present	○	●
As of January 1, 2023	○	●

J.II Engagement with communities on utility wildfire mitigation initiatives

Capability 49

J.II.a Does the utility have a clear and actionable plan to develop or maintain a collaborative relationship with local communities?

Your utility's responses last year were:

Present: ii

As of January 1, 2023: ii

	i. No	ii. Yes
Present	○	●
As of January 1, 2023	○	●

J.II.b Are there communities in HFTD areas where meaningful resistance is expected in response to efforts to mitigate fire risk (e.g. vegetation clearance)?

Your utility's responses last year were:

Present: ii

As of January 1, 2023: ii

	i. No	ii. Yes
Present	○	●
As of January 1, 2023	○	●

J.II.c What percent of landowners are non-compliant with utility initiatives (e.g., vegetation management)?

Your utility's responses last year were:

Present: v

As of January 1, 2023: v

	i. More than 5%	ii. Less than 5%	iii. Less than 2%	iv. Less than 1%	v. Less than 0.5%
Present	○	○	○	○	●
As of January 1, 2023	○	○	○	○	●

J.II.d What percent of landowners complain about utility initiatives (e.g., vegetation management)?

Your utility's responses last year were:

Present: v

As of January 1, 2023: v

	i. More than 5%	ii. Less than 5%	iii. Less than 2%	iv. Less than 1%	v. Less than 0.5%
Present	○	○	○	○	●
As of January 1, 2023	○	○	○	○	●

J.II.e Does the utility have a demonstratively cooperative relationship with communities containing >90% of the population in HFTD areas (e.g. by being recognized by other agencies as having a cooperative relationship with those communities in HFTD areas)?

Your utility's responses last year were:

Present: ii

As of January 1, 2023: ii

	i. No	ii. Yes
Present	○	●
As of January 1, 2023	○	●

J.II.f Does the utility have records of landowners throughout communities containing >90% of the population in HFTD areas reaching out to notify the utility of risks, dangers or issues in the past year?

Clarification: For the first response (“Present”), please respond whether the utility had records as described (yes or no) in 2021. For the second response (“As of January 1, 2023”), please specify whether you expect the utility to have records as described (yes or no) in 2022.

Your utility's responses last year were:

Present: ii

As of January 1, 2023: ii

	i. No	ii. Yes
Present	○	●
As of January 1, 2023	○	●

J.III Engagement with LEP and AFN populations

Capability 50

J.III.a Can the utility provide a plan to partner with organizations representing Limited English Proficiency (LEP) and Access & Functional Needs (AFN) communities?

Your utility's responses last year were:

Present: i

As of January 1, 2023: ii

	i. No	ii. Yes
Present	●	○
As of January 1, 2023	○	●

J.III.b Can the utility outline how these partnerships create pathways for implementing suggested activities to address the needs of these communities?

Your utility's responses last year were:

Present: i

As of January 1, 2023: ii

	i. No	ii. Yes
Present	●	○
As of January 1, 2023	○	●

i. No ii. Yes

J.III.c Can the utility point to clear examples of how those relationships have driven the utility's ability to interact with and prepare LEP & AFN communities for wildfire mitigation activities?

Your utility's responses last year were:

Present: **i**

As of January 1, 2023: **ii**

	i. No	ii. Yes
Present	●	○
As of January 1, 2023	○	●

J.III.d Does the utility have a specific annually-updated action plan further reduce wildfire and PSPS risk to LEP & AFN communities?

Your utility's responses last year were:

Present: **ii**

As of January 1, 2023: **ii**

	i. No	ii. Yes
Present	○	●
As of January 1, 2023	○	●

J.IV. Collaboration with emergency response agencies

Capability 51

J.IV.a What is the cooperative model between the utility and suppression agencies?

Your utility's responses last year were:

Present: **iii**

As of January 1, 2023: **iii**

	i. Utility **does not sufficiently cooperate** with suppression agencies	ii. Utility **cooperates with suppression agencies** by notifying them of ignitions	iii. Utility cooperates with suppression agencies by **working cooperatively with them to detect ignitions**, in addition to notifying them of ignitions as needed
Present	○	●	○

			iii. Utility cooperates with suppression agencies by
As of January 1, 2023	○	●	○

J.IV.b In what areas is the utility cooperating with suppression agencies?

Your utility's responses last year were:

Present: iii

As of January 1, 2023: iii

	i. High risk areas	ii. All areas under utility control	iii. Throughout utility service areas	iv. None of the above
Present	○	○	●	○
As of January 1, 2023	○	○	●	○

J.IV.c Does the utility accurately predict and communicate the forecasted fire propagation path using available analytics resources and weather data?

Your utility's responses last year were:

Present: ii

As of January 1, 2023: ii

	i. No	ii. Yes
Present	○	●
As of January 1, 2023	○	●

J.IV.d Does the utility communicate fire paths to the community as requested?

Your utility's responses last year were:

Present: ii

As of January 1, 2023: ii

	i. No	ii. Yes
Present	○	●
As of January 1, 2023	○	●

J.IV.e Does the utility work to assist suppression crews logistically, where possible?

Your utility's responses last year were:

Present: ii

As of January 1, 2023: **ii**

	i. No	ii. Yes
Present	○	●
As of January 1, 2023	○	●

J.V. Collaboration on wildfire mitigation planning with stakeholders

Capability 52

J.V.a Where does the utility conduct substantial fuel management?

Your utility's responses last year were:

Present: **ii**

As of January 1, 2023: **iii**

	i. Utility **does not conduct** fuel management	ii. Utility conducts fuel management **along rights of way**	iii. Utility conducts fuel management throughout **service area**
Present	○	●	○
As of January 1, 2023	○	●	○

J.V.b Does the utility engage with other stakeholders as part of its fuel management efforts?

Your utility's responses last year were:

Present: **ii**

As of January 1, 2023: **v**

	i. Utility **does not coordinate** with broader fuel	ii. Utility **shares fuel management**	iii. Utility shares fuel management plans with other stakeholders **and works with other stakeholders conducting**	iv. Utility shares fuel management plans with other stakeholders, **and coordinates fuel management activities, including adjusting plans, to cooperate with other stakeholders state-wide to focus on areas that would have the biggest**	v. Utility shares fuel management plans with other stakeholders, and **pro-actively** coordinates fuel management activities, including adjusting plans, to cooperate with other stakeholders state-wide to focus on areas that would have the

	iii. Utility shares fuel management plans with other stakeholders, **and**	iv. Utility shares fuel management plans with other stakeholders, and **pro-**
Present	○	○
As of January 1, 2023	○	○

	management efforts by other stakeholders	**plans** with other stakeholders	**fuel management concurrently**	**impact in reducing wildfire risk**	biggest impact in reducing wildfire risk
Present	○	●	○	○	○
As of January 1, 2023	○	○	●	○	○

J.V.c Does the utility cultivate a native vegetative ecosystem across territory that is consistent with lower fire risk?

Your utility's responses last year were:

Present: **ii**

As of January 1, 2023: **ii**

	i. No	ii. Yes
Present	○	●
As of January 1, 2023	○	●

J.V.d Does the utility fund local groups (e.g., fire safe councils) to support fuel management?

Your utility's responses last year were:

Present: **ii**

As of January 1, 2023: **ii**

	i. No	ii. Yes
Present	○	●
As of January 1, 2023	○	●

J.V.e Do you have any additional comments?

Your utility's responses last year was:

The BVES service territory is very small, roughly 32 square miles in the mountain resort community of Big Bear Lake, California, with approximately 24,500 customers (services). "Service area" and "region" are the same geographically. Also, the entire BVES service area is in the High Fire Threat District (HFTD); mostly Tier 2 (90%) and some Tier 3 (10%). BVES has no services (customers) in the HFTD Tier 3. BVES does not have any non-HFTD areas or facilities in non-HFTD areas.

The BVES service territory is very small, roughly 32 square miles in the mountain resort community of Big Bear Lake, California, with approximately 24,500 customers (services). "Service area" and "region" are the same geographically. Also, the entire BVES service area is in the High Fire Threat District (HFTD); mostly Tier 2 (90%) and some Tier 3 (10%). BVES has no services (customers) in the HFTD Tier 3. BVES does not have any non-HFTD areas or facilities in non-HFTD areas. To date, BVES has not had occasion to execute a PSPS. Additionally, BVES has not experienced a reportable ignition in over 10 years. BVES has no record of its assets causing a wildfire during its history of operations

reportable ignition in over 10 years. BVES has no record of its assets causing a wildfire during its history of operations.