

**BEFORE THE PUBLIC UTILITIES COMMISSION OF THE
STATE OF CALIFORNIA**

Order Instituting Rulemaking to Examine Electric
Utility De-Energization of Power Lines in
Dangerous Conditions.

Rulemaking 18-12-005

**SOUTHERN CALIFORNIA EDISON COMPANY'S (U 338-E) PUBLIC SAFETY
POWER SHUTOFF POST-EVENT REPORT FOR DECEMBER 9, 2024
DE-ENERGIZATION EVENT**

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Dated: **December 30, 2024**

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In compliance with California Public Utilities Commission Public Safety Power Shutoff (PSPS) Order Instituting Rulemaking Phase 1 Decision (D.) 19-05-042, Phase 2 D.20-05-051, Phase 3 D.21-06-034 and PSPS Order Instituting Investigation D.21-06-014, Southern California Edison Company (SCE) hereby submits its PSPS Post-Event Report for the December 9, 2024, 2024, de-energization event (Attachment A hereto). Pursuant to the October 14, 2021, email ruling of ALJ Valerie Kao, SCE hereby provides the following link to access and download the attachments and appendices to its PSPS Post-Event Report: on.sce.com/PSPSposteventreports.

Respectfully submitted,

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/s/ R. Olivia Samad

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Dated: **December 30, 2024**

Attachment A

SCE's PSPS Post-Event Report



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December 30, 2024

Leslie Palmer, Director
Safety Enforcement Division
California Public Utilities Commission
505 Van Ness Avenue
San Francisco, CA 94102

SUBJECT: SCE PSPS Post Event Report – December 7, 2024, to December 13,2024

Dear Director Palmer:

As required by Resolution ESRB-8 and in accordance with Ordering Paragraph 1 of California Public Utilities Commission (CPUC) Decision (D.) 19-05-042, Southern California Edison Company (SCE) respectfully submits a post-event report for the PSPS event initiated on **December 7, 2024** and concluded on **December 13,2024** .

This report has been verified by an SCE officer in accordance with Rule 1.11 of the Commission's Rules of Practice and Procedure.

If you have any questions, please do not hesitate to call.

Sincerely,

DocuSigned by:
Marissa Blunski
DDF576B774674B8...
/s/ Marissa Blunski

Marissa Blunski
Principal Manager, Regulatory Relations

cc: ESRB_CompplianceFilings@cpuc.ca.gov

**Southern California Edison
Public Safety Power Shutoff (PSPS) Post-Event Report
December 09, 2024**

**Filed with: The California Public Utilities Commission
Submitted to: Director of the Safety and Enforcement Division
Dated: December 30, 2024**

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Introduction

SCE submits this post-event report to demonstrate its compliance with California Public Utilities Commission’s (CPUC or Commission) PSPS guidelines including Resolution ESRB-8, PSPS Order Instituting Rulemaking (OIR) Phase 1 (Decision (D.) 19-05-042), Phase 2 (D.20-05-051), Phase 3 (D.21-06-034) and PSPS Order Instituting Investigation (OII) (D.21-06-014).¹

This report addresses the event that started on December 07, 2024, at 11:00 a.m. and ended on December 13, 2024, at 10:00 p.m. in Kern, Los Angeles, Orange, Riverside, San Bernardino, San Diego, and Ventura Counties, and 51,105 customers were de-energized during this event, including two PG&E customers. This report explains SCE’s decision to call, sustain, and conclude the de-energization event, and provides detailed information to facilitate the Commission’s evaluation of SCE’s compliance with applicable PSPS guidelines.

SCE recognizes de-energizations pose significant challenges and hardships for our customers and the public safety partners that provide services to the affected communities. SCE’s decision to activate its PSPS protocol is based on consideration and weighing of multiple factors, including forecasted weather, fuel conditions, infrastructure vulnerabilities, and potential impacts of PSPS on public safety partners and the communities we serve.

SCE is committed to continuously improving its PSPS processes and welcomes input from customers, public safety partners, community representatives, and local governments on ways to minimize the impact of PSPS events.

¹ This PSPS post-event report is based on the best information and data available as of the filing deadline for the report. SCE continues to gather, analyze, and validate some of the underlying data, and will supplement this report with updated information, as needed, in its annual post-season report. See D.21-06-014, Ordering Paragraph (OP) 66, p. 305 (directing SCE to “provide aggregate data . . . in an annual report, including aggregate data that may not have been available at the time the utility filed the 10-day post-event report”).

Section 1. Executive Summary

At A Glance							
Total customers notified	Total customers de-energized	List of counties in scope	List of counties de-energized	Total distribution circuits in scope	Total distribution circuits de-energized	# of damage/hazards found	Community resource centers (including CCVs)
275,289	51,105	Kern, Los Angeles, Orange, Riverside, San Bernardino, San Diego, and Ventura	Kern, Los Angeles, Orange, Riverside, San Bernardino, San Diego and Ventura	274	83	N/A	20

1. Brief description of the PSPS event starting from the time when the utility’s Emergency Operation Center is activated until service to all customers have been restored.

This event covered a single Period of Concern (POC) as a result of evolving weather forecasts. This resulted in 51,105 customers being de-energized during this event, including two PG&E customers in Kern, Los Angeles, Orange, Riverside, San Bernardino, San Diego and Ventura, during this event. A summary of the timeline for this event is provided below.

On December 7, 2024, SCE’s meteorologists identified the potential for dangerous fire weather conditions due to a moderate to locally strong Santa Ana wind event beginning on the evening of December 9 and continuing through December 10. The dry air and gusty winds would create widespread areas of elevated fire weather conditions across the mountains and valleys in portions of Los Angeles, Orange, Riverside, San Bernardino, San Diego, and Ventura Counties. Forecasts on December 8, 2024, resulted in the addition of Kern County to the event with the Period of Concern also extended into December 11 due to continued offshore flow. Forecasts on December 10 resulted in the extension of the Period of Concern through December 12 for portions of Los Angeles and San Bernardino Counties due to the arrival of onshore flow bringing gusty winds to the desert slopes of the San Bernardino and San Gabriel Mountains. A localized area of the Banning Pass in Riverside County was added to the event based on forecasts issued on December 11 for the Period of Concern on December 12. Given this forecast, SCE’s meteorology and fire science experts consulted the Geographic Area Coordination Center (GACC)² for forecast alignment to evaluate potential fire weather impacts. The GACC agreed with SCE’s forecast of elevated fire weather for this first Period of Concern of this PSPS event. The National Weather Service (NWS) also issued Red Flag Warnings for Los Angeles, Orange, Riverside, San Bernadino, San Diego, and Ventura Counties and High Wind Warnings or Wind Advisories for portions of Kern, Los Angeles, and Ventura Counties during portions of the Period of Concern.

In response to this forecasted fire weather, SCE activated its dedicated PSPS Incident Management Team (IMT) on December 07, 2024, at 11:00 a.m. to manage this event and began sending advance notifications of potential PSPS to Public Safety Partners, Critical Facilities and Infrastructure customers.

² SCE also coordinated with PG&E to dispatch notifications to the impacted PG&E customers.

² See Attachment C – PSPS Event Data Workbook for additional details related to customer notifications during this event.

This PSPS event concluded on December 13, 2024, at 10:00 p.m. after fire weather conditions were no longer forecasted to impact the SCE service area.

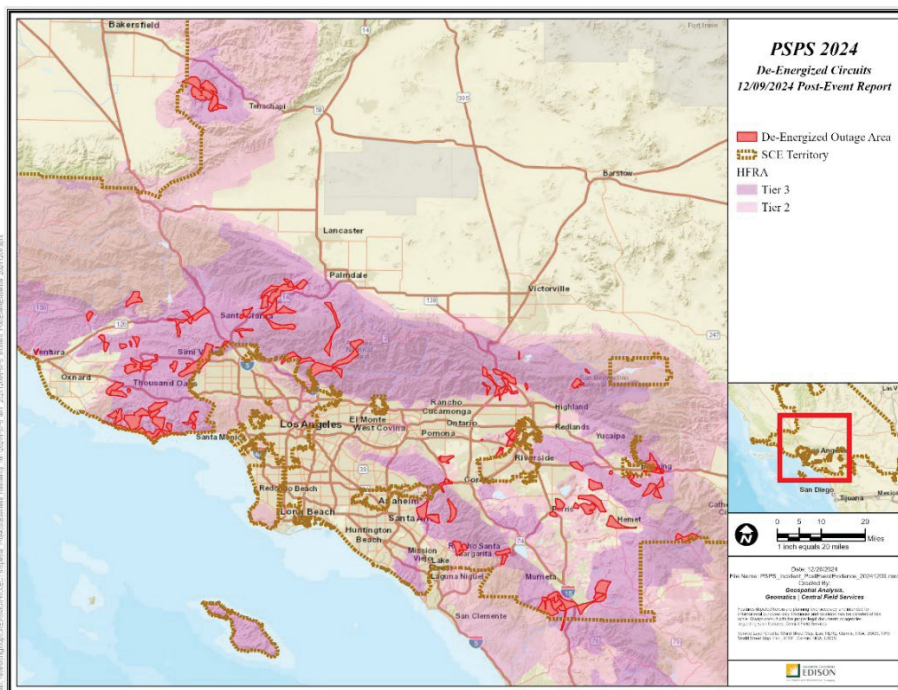
2. A table including the maximum number of customers notified and actually de-energized; number of counties de-energized; number of tribes de-energized; number of Medical Baseline customers de-energized; number of transmission and distribution circuits de-energized; damage/hazard count; number of critical facilities and infrastructure de-energized.

Table 1: PSPS Event Summary³

Total Customers			De-energized				Number of Circuits			Damage/Hazard Count
PSPS Notified	De-energized	Cancelled	MBL Customers	Number of Counties	Number of Tribes	Critical Facilities and Infrastructure	Transmission De-energized	Distribution Circuits in Scope	Distribution Circuits De-energized	
275289	51103	224400	1641	7	1	1313	0	274	83	0

Information related to PG&E Customers is included in Section 12.

3. A PDF map depicting the de-energized area(s)



³ “PSPS Notified” metric in Table 1 reflects the total number of unique customers that were sent a pre-event notification of potential de-energization during the PSPS event. “Cancelled” metric in Table 1 reflects the total number of unique customers that were sent a pre-event notification of potential de-energization, but not ultimately de-energized (regardless of whether those customers received a cancellation notice). Please see Section 5 of this report regarding missed notifications and cancellation notice metrics.

Section 2. Decision-Making Process

1. A table showing factors considered in the decision to shut off power for each circuit de-energized, including sustained and gust wind speeds, temperature, humidity, and moisture in the vicinity of the de-energized circuits.⁴

Table 2: Factors Considered in Decision to De-Energize ⁵ (Continued in Attachment C)

Factors Considered in Decision to De-Energize									
Circuit De-energized	Sustained Wind Speed			Gust Wind Speed			Fire Potential Index (FPI)		Firecast Output Ratio
	Activation Threshold	De-energization Threshold	Actual	Activation Threshold	De-energization Threshold	Actual	Threshold	Actual	
ACOSTA	40	36.00	30.02	58	52.20	51.95	13	13.87	134.7201
ALLVIEW (DS ROWCO)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ANGUS	31	31.00	21.45	46	46.00	41.72	12	12	50.461963
ANTON	31	40.00	15.10	46	58.00	33.17	12	11.08	719.48016
ATENTO	40	38.00	39.97	58	55.10	53.41	12	13.22	99.323659

2. Decision criteria and detailed thresholds leading to de-energization including the latest forecasted weather parameters versus actual weather. Also include a PSPS decision-making diagram(s)/flowchart(s) or equivalent along with narrative description.

SCE uses preset wind and gust thresholds for dangerous wind conditions that create increased fire potential (including wind speeds, humidity, fuel moisture levels and other factors as the basis for PSPS decision-making, as described in SCE’s technical paper).⁶ De-energization thresholds are determined separately for each circuit to prioritize circuits for de-energization based on the specific risks of the event. This is particularly important for large events where many circuits must be evaluated simultaneously. In addition, escalating weather conditions and operational complexities are considered when making de-energization decisions.

These thresholds are set for each of the circuits in SCE-designated high fire risk areas (HFRA) and are continuously reviewed to calibrate the risk of significant events against the potential for harm to

⁴ SCE calculates a Fire Potential Index (FPI) rating for each circuit in scope for de-energization. FPI estimates the likelihood of a spark turning into a major wildfire. FPI uses a whole-number scale with a range from 1 to 17; categorized as normal (1-11), elevated (12-14) and extreme (15+). FPI inputs include wind speed, dewpoint depression (which is a measure of how dry the air is), and various fuel moisture parameters, as detailed in Section 2-2 of this report. Other variables, such as temperature and humidity, while potential contributors to fire spread, are not direct inputs into the FPI calculation. Temperature and humidity are accounted for indirectly through the inclusion of dewpoint depression in the FPI rating. Because temperature, humidity, and moisture are not distinct “factors considered” in SCE’s de-energization decisions, they are not reported separately, but are reflected in the actual FPI rating for each de-energized circuit, as shown in Table 2. The notation “N/A” (Not Applicable) in Table 2 means that Sustained Wind Speed, Gust Wind Speed and Fire Potential Index (FPI) data is not available for downstream circuits which are included in Table 2 solely because these circuits are electrically connected to circuits in scope for potential de-energization. A downstream circuit would need to be de-energized if the parent circuit to which it is connected exceeds PSPS criteria. Factors considered in decision to de-energize customers on downstream circuits is already accounted for in the in Table 2 for the parent circuits.

⁵ Actual sustained and gust wind speeds in Table 2 are recorded at the time the decision was made to begin the de-energization process and do not reflect peak wind and gust speeds observed during the Period of Concern (which could be higher). De-energization of a circuit generally occurs when either sustained wind de-energization threshold or gust wind de-energization threshold is met, in tandem with the circuit’s FPI threshold.

⁶ SCE’s detailed technical paper, Quantitative and Qualitative Factors for PSPS Decision-Making, can be found at https://download.newsroom.edison.com/create_memory_file/?f_id=609d61cbb3aed37d0f3d5f6a&content_verified=True and in Attachment B of this report.

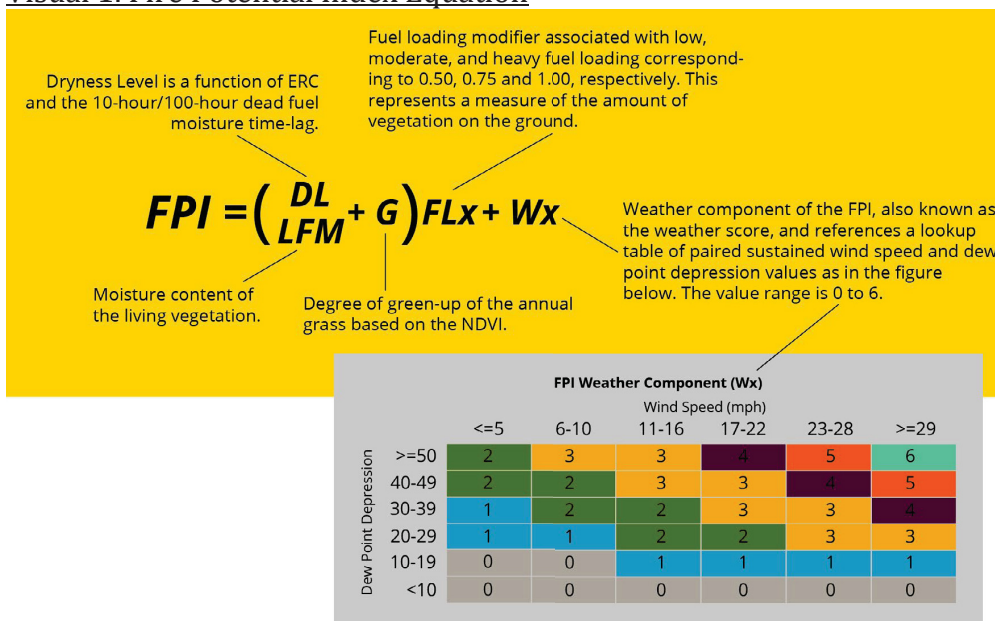
customers from the loss of power.

All circuits have an activation threshold, defined by the Fire Potential Index (FPI), and sustained and gust wind speeds at which they are considered at risk. Activation thresholds are computed for each circuit for the season.

FPI is calculated using the following inputs:

- Wind speed—Sustained wind velocity at 6 meters above ground level.
- Dew point depression—The dryness of the air as represented by the difference between air temperature and dew point temperature at 2 meters above ground level.
- Energy release component (ERC) — “The available energy (BTU) per unit area (square foot) within the flaming front at the head of a fire ... reflects the contribution of all live and dead fuels to potential fire intensity.”⁷
- 10-hour dead fuel moisture—A measure of the amount of moisture in ¼-inch diameter dead fuels, such as small twigs and sticks.
- 100-hour dead fuel moisture—A measure of the amount of moisture in 1- to 3-inch diameter dead fuels, i.e., dead, woody material such as small branches.
- Live fuel moisture—A measure of the amount of moisture in living vegetation.
- Normalized Difference Vegetation Index (NDVI)— “... used to quantify vegetation greenness and is useful in understanding vegetation density and assessing changes in plant health.”⁸

Visual 1. Fire Potential Index Equation⁹



⁷ U.S. Department of Agriculture. n.d. “Energy Release Component (ERC) Fact Sheet.” Forest Service. Accessed April 14, 2021. https://www.fs.usda.gov/Internet/FSE_DOCUMENTS/stelprdb5339121.pdf.

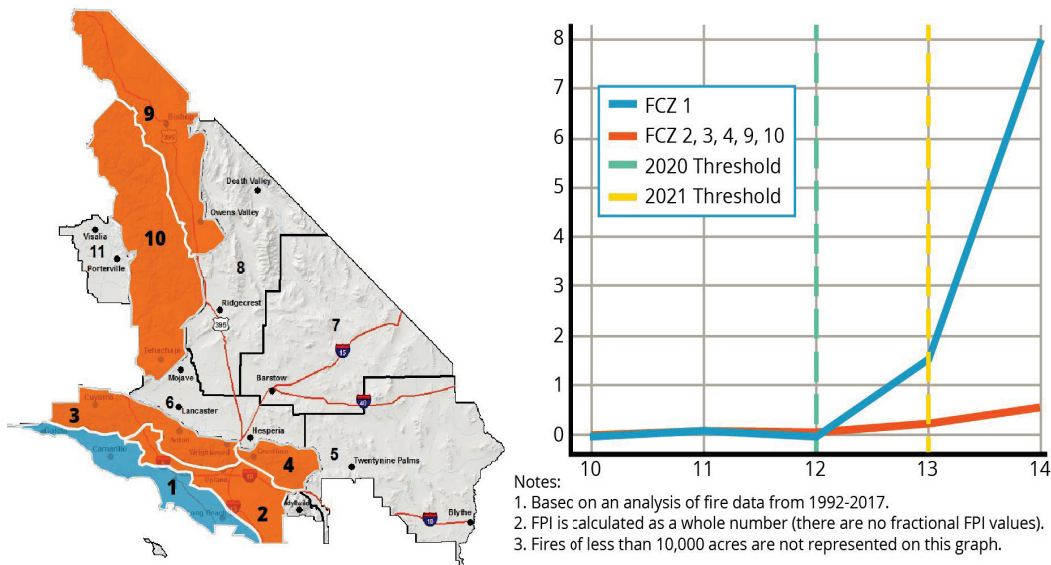
⁸ U.S. Department of the Interior. n.d. Landsat Normalized Difference Vegetation Index. Accessed May 15, 2024. https://www.usgs.gov/core-science-systems/nli/landsat/landsat-normalized-difference-vegetation-index?qt-science_support_page_related_con=0#qt-science_support_page_related_con.

⁹ For more information on SCE’s Fire Potential Index, including the insertion of the Live Fuel Moisture variable, please see SCE’s 2023-2025 Wildfire Mitigation Plan, available at <https://www.sce.com/sites/default/files/AEM/Wildfire%20Mitigation%20Plan/2023-2025/SCE%202023%20WMP%20R2-clean.pdf>, pp. 512-516).

Initially, SCE set the FPI threshold to 12 for all circuits in SCE’s high fire risk areas. Starting on Sept. 1, 2021, SCE raised the FPI to 13 for most areas and most events based on a risk analysis of historical fire data.¹⁰ Exceptions where the FPI threshold continued to be set at 12 include:

- Fire Climate Zone 1 (FCZ1) (Coastal region) — The threshold for FCZ1 is staying at 12 because probability calculations indicated a significantly higher ignition risk factor at an FPI threshold of 13 for this FCZ than for the other FCZs (2, 3, 4, 9 and 10). (Figure 2)
- Geographic Area Coordination Center (GACC) preparedness level of 4 or 5 — The GACC coordinates multiple federal, state, and regional fire suppression resources. It provides daily fire preparedness levels on a scale of 1-5. A high score signals that there is significant resource drawdown which could negatively impact fire response.
- Circuits located in an active Fire Science Area of Concern (AOC) — AOCs are areas within FCZs that are at high risk for fire with significant community impact. This designation is based on factors that are part of FPI, as well as egress, fire history and fire consequence. Further details about AOCs can be found in SCE’s Wildfire Mitigation Plan.¹¹

Visual 2. Probability of Wind-Driven Fires at 10,000 Acres at FPI 12 and 13¹²



In 2023, SCE identified certain remote and isolated areas (less than 1% of SCE’s high fire risk area) where an FPI threshold of 11 may be appropriate to mitigate additional fire risk created by unique factors such as extremely limited egress and constrained fire suppression capability. SCE does not anticipate a

¹⁰ Short, Karen C. 2017. Spatial wildfire occurrence data for the United States, 1992-2015 [FPA_FOD_20170508]. 4th Edition. Fort Collins, CO: Forest Service Research Data Archive <https://doi.org/10.2737/RDS-2013-0009.4> Supplemented with 2016-2017 ignition data supplied directly by CalFIRE via email.

¹¹ SCE’s 2023-2025 Wildfire Mitigation Plan Update dated April 2, 2024.

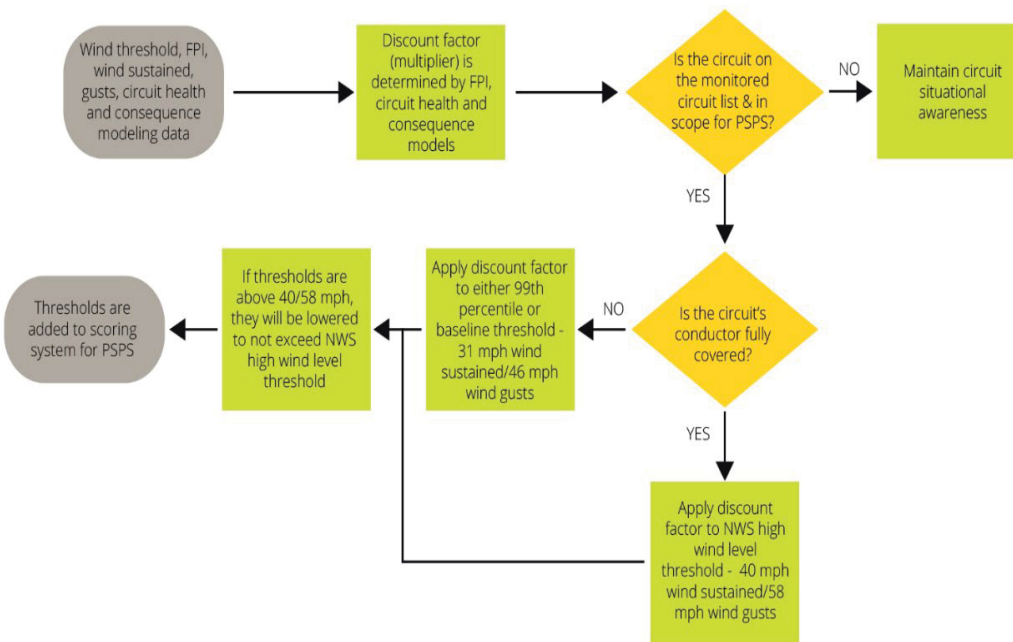
¹² Based on back cast FPI calculation.

significant increase in PSPS events as a result of lowering the FPI threshold in these areas.

For each PSPS event, every circuit also has a de-energization threshold. De-energization thresholds are determined separately for each circuit to prioritize circuits for de-energization based on the specific risks of the event. This is particularly important for large events where many circuits must be evaluated simultaneously. There are a handful of circuits that have legacy thresholds below the NWS advisory level because they have a history of local circuit outages at lower wind speeds.

De-energization thresholds account for circuit health, including any issues identified through patrols, and are also informed by a consequence score for each specific high fire risk area. The consequence score estimates the impact of an ignition on communities. The higher the score, the greater the risk to a particular location from wildfires. SCE’s process for calculating de-energization thresholds is outlined below.

Visual 3. PSPS Decision-Making Flowchart/Diagram



If actual conditions suggest more risk, or in complex, large-scale events when many circuits are under consideration for shutoffs, the de-energization thresholds may be lowered (discounted), meaning power on a circuit will be turned off at lower wind speeds. This step prioritizes the circuits that represent the highest risk to be evaluated for de-energization before circuits are at lower risk.

De-energization thresholds are raised for segments or circuits that have had covered conductor installed. The de-energization threshold for segments with covered conductor is 40 mph sustained/58 mph gusts, which aligns with the NWS high wind warning level for windspeeds at which infrastructure damage may occur.

The thresholds for the circuits in scope for potential de-energization during this event were set as follows:

Table 3: Circuit Thresholds¹³ (Continued in Attachment C)

Circuit Thresholds					
Circuit	FPI Threshold Rating	Wind Speed Activation Thresholds		De-Energization Thresholds	
		Sustained Wind	Gust Wind	Sustained Wind	Gust Wind
ACOSTA	13	40.00	58.00	36.00	52.20
ALLVIEW (DS ROWCO)	N/A	N/A	N/A	N/A	N/A
ANGUS	12	31.00	46.00	31.00	46.00
ANTON	12	31.00	46.00	40.00	58.00
ATENTO	12	40.00	58.00	38.00	55.10

Forecasted versus actual weather parameters for this event were as follows:

- Wind: Sustained winds of 25-to-50 mph and wind gusts of 45-to-70 mph were forecast for Kern, Los Angeles, Orange, Riverside, San Bernardino, San Diego, and Ventura Counties during this event, with isolated areas of higher gusts up to 90 mph. Peak observed wind speeds in areas of concern were 60 mph sustained and 93 mph gusts during this event
 - Relative humidity: Relative humidity during this event was forecast to be between 5% and 25% across Kern, Los Angeles, Orange, Riverside, San Bernardino, San Diego, and Ventura Counties concurrent with the strong winds. Actual observed relative humidity ranged from 1% to 15% during this event. As discussed in Section 2-1 above, relative humidity is just one of many variables that inform SCE’s FPI ratings.
- 3. A thorough and detailed description of the quantitative and qualitative factors SCE considered in calling, sustaining, or curtailing each de-energization event including any fire risk or PSPS risk modeling results, and a specification of the factors that led to the conclusion of the de-energization event.**

SCE’s PSPS decisions are based on quantitative analyses while accounting for qualitative factors such as societal and emergency management impacts. SCE utilizes proactive de-energization as a measure of last resort when all other alternatives to de-energization have been exhausted. The decision to de-energize customers during this PSPS event was based on considering and weighing the quantitative and qualitative factors detailed below:

- Consultation with the GACC regarding SCE’s forecast of elevated fire weather potential.
- Ongoing assessments before the Period of Concern from SCE’s in-house meteorologists using high-resolution weather models to determine the potential scope of the PSPS event, as well as real time weather data from SCE weather stations and publicly available weather stations during the Period of Concern to inform actual de-energization decisions.

¹³ The notation “N/A” (Not Applicable) in Table 3 means that Fire Potential Index (FPI) Threshold Rating, Wind Speed Activation Threshold, and De-Energization Threshold are not available for downstream circuits which are included in Table 3 solely because these circuits are electrically connected to circuits in scope for potential de-energization. A downstream circuit would need to be de-energized if the parent circuit to which it is connected exceeds PSPS criteria. Circuit threshold for customers on downstream circuits is already accounted for in Table 3 for the parent circuits.

- Fire spread modeling to identify areas having the greatest potential for significant fire activity. Results of this modeling by SCE identified the potential for fire during the Period of Concern in the:
 - Five thousand (5,000) to ten thousand (10,000)-acre range with many areas exceeding the ten thousand (10,000)-acre range and isolated areas reaching around the thirty-eight thousand (38,000)-acre range for the Santa Ana Wind prone areas
 - Two thousand (2,000) to eight thousand (8,000)-acre range in the remaining areas of concern
- Observed weather parameters for this PSPS event, including sustained and/or gust wind speeds and FPI ratings for the circuits in scope relative to the preset thresholds for this event.
- National Weather Service-issued watches and warnings for areas of concern in SCE service territory.

SCE considered the following factors when deciding to conclude this de-energization event:

- Weather modeling for the areas of concern. SCE’s meteorologists indicated elevated fire weather conditions would continue to abate below wind and FPI thresholds throughout the night on December 12 due to forecasted decreasing wind speeds and FPI.
 - Observed wind speeds and FPI ratings. Observed wind and FPI ratings for all circuits in scope no longer met de-energization threshold criteria as of Time 3:08 p.m. on December 12, 2024.
- 4. An explanation of how the utility determined that the benefit of de-energization outweighed potential public safety risks, and analysis of the risks of de-energization against not de-energizing. The utility must identify and quantify customer, resident, and the general public risks and harms from de-energization and clearly explain risk models, risk assessment processes, and how the power disruptions to customers, residents, and the general public is weighed against the benefits of a proactive de-energization.**

SCE assesses and compares potential public safety risks associated with proactive de-energization (PSPS risk) and simulated wildfire risk (PSPS benefit in avoiding a wildfire) for all circuits in scope for the Period of Concern, using its PSPS In-Event Risk Comparison Tool.¹⁴ Inputs into this tool include, among other factors, wildfire simulations, and circuit specific data. The results of these circuit specific assessments are displayed in the Central Data Platform and used by Incident Commanders to inform de-energization decisions, in conjunction with other relevant quantitative and qualitative factors described in Section 2 of this report. Incident Commanders consider these assessments in making de-energization decisions to ensure the wildfire risk (PSPS benefit in avoiding a wildfire) outweighs the risk associated with PSPS for each circuit in scope.

The circuit-specific criteria and data used in this assessment, include:

- **For PSPS Risk:** Customers served, estimated population, and the relative ranking of the circuits in

¹⁴ SCE will continue to refine the PSPS In-Event Risk Comparison Tool based on real-time experience, additional data, modeling enhancements, and ongoing benchmarking with other IOUs. Estimates and assumptions described herein are based on risk models reflecting current industry best practices (such as FireRisk (formally FireCast) and are subject to being updated as the modeling improves.

scope by the percentage of Access and Functional Needs (AFN) and Non-Residential Critical Infrastructure (NRCI) customers.

- **For Wildfire Risk:** Wildfire simulations (using Technosylva FireRisk¹⁵ modeling) for potential ignitions based on dynamic, in-event weather, and wind conditions in proximity to the circuits in scope for de-energization. These conditions are used to determine the extent of an estimated fire footprint (or fire shed). Within that fire shed, the risk of a wildfire is calculated based on the number of structures, population, and acres potentially threatened within the impacted area.

The resulting outputs of the PSPS In Event Risk Comparison Tool are used to calculate potential Safety, Financial, and Reliability impacts (or attributes) of: (1) a wildfire and (2) a proactive de-energization event, as summarized in the table below:

Risk Attribute	Wildfire Consequences	PSPS Consequences
Safety	SCE calculates the estimated number of fatalities and serious injuries based on a forecast of impacted population within the Technosylva wildfire consequence simulation. This number, in turn, is converted into the Safety index.	SCE leverages epidemiological studies and information drawn from past widespread power outage events including the 2003 Northeast Blackout, the 2011 Southwest Blackout, and the IOUs' 2019 PSPS post-event reports. ¹⁶ The resulting estimates of fatalities and serious injuries per customer minutes interrupted (CMI) are intended to approximate potential safety consequences due to the power outage, such as illnesses resulting from food spoilage or exacerbation of existing underlying health conditions. SCE enhanced the PSPS safety attribute through the application of a circuit-specific AFN/NRCI multiplier. This multiplier represents the relative ranking of each circuit based on the number of AFN and NRCI customers on the circuit.

¹⁵ Technosylva is a suite of wildfire simulation models or tools. While relying on a similar underlying fire propagation engine, each model is designed to support a unique use case. FireRisk (formally FireCast) is specifically designed to forecast ignition risk associated with electric utility assets over a 7-day horizon based on expected short-term weather conditions.

¹⁶ See, e.g., Anderson, G.B., Bell, M.B (2012). Lights Out: Impact of the August 2003 Power Outage on Mortality in New York, NY, *Epidemiology* 23(2) 189-193. doi: 10.1097/EDE.0b013e318245c61c.

Reliability	SCE assumes 24 hours without power per customer on each circuit in scope due to wildfire. This duration was used to maintain consistency with Technosylva 24-hour fire propagation simulation, as well as the PSPS impact duration.	SCE estimates the total customer minutes interrupted (CMI) due to proactive de-energization on a circuit. It is the product of the number of customers on a circuit and the total number of minutes of estimated interruption. SCE assumes 1,440 CMI per customer (24 hours x 60 minutes) to represent de-energization over a 24-hour period.
Financial	SCE calculates the financial impact of wildfire by assigning a dollar value to the buildings and acres within the fire shed potentially threatened by wildfire. For buildings, SCE uses a system average replacement value assumption. For acres, SCE uses assumed costs of suppression and restoration. ¹⁷	SCE conservatively assumes \$250 ¹⁸ per customer, per de-energization event to quantify potential financial losses for the purpose of comparing PSPS risk to wildfire risk. The figure represents potential customer losses, such as lost revenue/income, food spoilage, cost of alternative accommodations, and equipment/property damage. This value is based on a Value of Lost Load (VoLL), which is a widely accepted industry methodology to estimate a customer’s willingness to accept compensation for service interruption. VoLL is dependent on many factors, including the type of customer, the duration of the outage, the time of year, the number of interruptions a customer has experienced. SCE’s VoLL estimate is consistent with academic and internal studies to estimate VoLL for a single-family residential customer for a 24-hour period.

The resulting natural unit consequences for PSPS and wildfire risk are converted to unit-less risk scores —one for PSPS risks and one for wildfire risks¹⁹ using SCE Multi-Attribute Risk Score (MARS) framework.

¹⁷ Suppression costs are based on a five-year average of California’s reported wildfire suppression costs from 2016-2020. Restoration costs are assumed to be \$1,227/acre based on research papers published by the Bureau of Land Management.
¹⁸ SCE utilizes \$250 per customer, per de-energization event to approximate potential financial losses on average, recognizing that some customers may experience no financial impact, while other customers’ losses may exceed \$250. The \$250 value is a conservative assumption used for the limited purpose of estimating the potential financial consequences of PSPS as one of many inputs into SCE’s PSPS In-Event Risk Comparison Tool. It is not an acknowledgment that any given customer has or will incur losses in this amount, and SCE reserves the right to argue otherwise in litigation and other claim resolution contexts, as well as in CPUC regulatory proceedings.
¹⁹ MARS is SCE’s version of Multi-Attribute Value Function (MAVF). The MAVF was developed as part of the Safety Model Assessment (S-MAP) proceeding and is used in the utilities’ 2018 Risk Assessment Mitigation Phase (RAMP) Report (I.18-11006, pp. 1-28) filings to compare risks and mitigation alternatives. SCE has improved its MARS framework since first developing it for the 2018 RAMP. SCE MARS 2.0 attributes, units, weights, ranges, and scales are shown below, and are further described in SCE’s 2022 RAMP report See A.21-05-13, Chapter 2 – Risk Model and RSE Methodology.

Attribute	Unit	Weight	Range	Scaling
Safety	Index	50%	0 – 100	Linear
Reliability	CMI	25%	0 – 2 billion	Linear
Financial	\$	25%	0 – 5 billion	Linear

The use of a unit-less risk score allows SCE to compare the resulting risk scores to each other by dividing the wildfire risk score (*i.e.*, the potential benefit of PSPS) by the PSPS risk score (*i.e.*, the potential public harm of PSPS). The calculation results in an easily interpretable benefit/risk ratio for each circuit in scope.

If the resulting ratio is equal to 1, wildfire and PSPS risk are equal to one another. If the ratio is greater than one, wildfire risk exceeds PSPS risk (the higher the resulting number, the more the wildfire risk outweighs the PSPS risk). If the ratio is less than 1, PSPS risk outweighs the wildfire risk.

The table below displays circuit-specific inputs—including the number of customers on a circuit, AFN/NRCI multiplier, number of acres and buildings potentially threatened— all of which are used to calculate the PSPS and wildfire risk scores (shown in columns titled “PSPS Risk” and “Wildfire Risk”) These risk scores are then compared in the last column (highlighted in yellow) titled “FireRisk Output Ratio,” which shows the ratios of wildfire risk (corresponding to potential benefit of PSPS) to PSPS risk (corresponding to potential public harm from PSPS) for each circuit in scope. All ratios in the “FireRisk Output Ratio” column for are greater than 1, meaning that the wildfire risk exceeded PSPS risk for all circuits in scope. These results were presented to the Incident Commanders in advance of de-energization to inform PSPS decision-making.

Table 4: PSPS Risk vs. Benefit Comparison Tool (Continued in Attachment C)

PSPS Risk vs. Benefit Comparison Tool										
Circuit	All Customers	Population	AFN/NRCI Multiplier	24 Hour CMI (24 x 60)	Firecast Acres	Firecast Buildings	Firecast Population	PSPS Risk (24 hr Impact-PSPS Model)	Wildfire Risk (24hr Impact-PSPS Model)	Firecast Output Ratio
ACOSTA	2306	6918	1.24804107	1440	6926.7	825	3867	0.00048815	0.065764152	134.7201
ALLVIEW (DS ROWCO)	303	909	1.01196532	1440	N/A	N/A	N/A	0.00006304	N/A	N/A
ANGUS	1599	4797	1.2755989	1440	6763.9	205	266	0.00033917	0.017115064	50.461963
ANTON	298	894	1.21134165	1440	10007	563	1408	0.00006292	0.045266141	719.48016

For this de-energization event, the results of the PSPS Risk vs. Benefit Comparison Tool supported SCE’s decision to de-energize, indicating that all circuits de-energized during this event de-energization during this event²⁰ had a PSPS benefit/risk ratio greater than one (1). Thus, the estimated benefit of PSPS outweighed the estimated risk of PSPS for this event.

5. Explanation of alternatives to de-energization and other wildfire mitigation measures in de-energized areas; PSPS last resort analysis.

SCE deploys a suite of wildfire mitigation measures aimed at reducing the probability of ignitions

²⁰ The table showing the results of the PSPS Risk vs. Benefit Comparison Tool includes ratios for all de-energized circuits for this event, all of which indicate the benefit of wildfire avoidance (achieved through PSPS or other mitigation measures) exceeded PSPS risk. As noted above, the results of the Tool are among many quantitative and qualitative factors considered by SCE in its PSPS decision-making process. The notation “N/A” (Not Applicable) in Table 4 means that FireCast data for wildfire risk (Acres Impacted, Buildings Impacted, and Population Impacted) is not available for downstream circuits which are included in Table 4 solely because these circuits are electrically connected to circuits in scope for potential de-energization. A downstream circuit would need to be de-energized if the parent circuit to which it is connected exceeds PSPS criteria. PSPS risk for customers on downstream circuits is already accounted for in the ratios shown in Table 4 for the parent circuits. FireCast ratio for circuits that serve no customers is marked “INF” (Infinite) because these circuits have no associated PSPS risk but still have wildfire risk, so the ratio is weighted solely on wildfire risk.

associated with electrical infrastructure in high fire risk areas without resorting to PSPS. These activities include grid hardening measures such as installation of covered conductor, repair, or replacement of equipment on poles (e.g., crossarms, transformers), and installation of protective devices (e.g., fast acting fuses and relay settings).²¹ In addition, SCE has implemented operational practices including enhanced inspections, vegetation management, and fire climate zone operating restrictions²² in high fire risk areas. Certain protective measures such as fast curve settings and fire climate zone operating restrictions are applied to a majority of high fire risk circuits and are typically in effect for the duration of the fire season; others such as covered conductor are permanent and in place year-round. SCE's PSPS windspeed thresholds account for circuits or isolatable circuit segments that are fully hardened with covered conductor, thereby potentially limiting the duration and number of customers affected by PSPS during fire weather events. However, during severe fire weather conditions (dry and windy), there is a heightened risk of ignitions primarily due to wind-driven foreign objects or airborne vegetation coming into contact with SCE's equipment. Under these circumstances, the deployment of the above-described less disruptive measures may not sufficiently mitigate wildfire and public safety risk, and PSPS is necessary as a last resort mitigation measure to prevent ignitions that may lead to significant wildfires.

Leading up to and during a PSPS event, SCE utilizes real-time weather station data and, if available, information from field observers on the ground for enhanced situational awareness to forecast and monitor prevailing environmental conditions (e.g., wind gusts) that can lead to potential damage from airborne vegetation or flying debris, to inform de-energization decisions. For circuits that are in scope, SCE also conducts pre-patrols and visually inspects the entire length of each circuit or circuit segment to identify any imminent hazards or equipment vulnerabilities that require immediate remediation and provide additional up-to-date intelligence on field conditions. If such concerns are discovered on a circuit in scope, they are addressed before the impending wind event, if possible.

SCE makes every effort to limit the scope, duration, and impact of PSPS for as many customers as possible. This includes adjusting wind speed thresholds higher for circuits or segments that have covered conductor installed and leveraging sectionalization equipment to switch some customers to adjacent circuits not impacted by PSPS or otherwise remove them from scope. Starting with the initial weather (wind and relative humidity) and fuel moisture forecasts for the Period of Concern, SCE evaluates its current system configurations for downstream circuits, i.e., circuits receiving power from another circuit that is forecast to exceed de-energization thresholds. SCE seeks to identify any circuit segment or subset of customers that could safely be transferred from a circuit that is expected to exceed thresholds to another adjacent circuit that is not. See Section 10: Mitigation to Reduce Impact for additional details.

Based on weather forecast data, fire weather modeling information, and results of the PSPS Risk vs. Benefit Comparison Tool, SCE determined that the above-described precautionary measures alone would not sufficiently reduce the risk to public safety, and PSPS was necessary for some of the circuits and customers in scope.

²¹ Fast curve settings reduce fault energy release by increasing the speed with which a protective relay reacts to most fault currents. Fast curve settings can reduce heating, arcing, and sparking for many faults compared to conventional protection equipment settings. More details are in SCE's 2023-2025 Wildfire Mitigation Plan Update, initiative SH-6.

²² SCE's System Operating Bulletin No. 322 includes provisions for enabling fast curve settings on distribution line reclosers and circuit breakers, recloser blocking, line patrols and requirements for personnel to be physically present when operating air-break switching devices.

Section 3. De-Energized Time, Place, Duration and Customers

1. The summary of time, place, and duration of the event, broken down by phase if applicable.

This PSPS event began when SCE activated its Emergency Operations Center on December 07, 2024 at 11:00 a.m. and ended for all circuits in scope on December 13, 2024 at 10:00 p.m. by which time service was restored to all de-energized customers. During this event, shared circuits in scope resulted in the de-energization of customers within PG&E territory. This event encompassed impacted circuits in Kern, Los Angeles, Orange, Riverside, San Bernardino, San Diego, and Ventura Counties. *See*, also Section 1-1 above for additional information.

2. A zipped geodatabase file that includes PSPS event polygons of de-energized areas. The file should include items that are required in Section 3.3.

A zipped geodatabase file that includes all information in Section 3.3 is included with this filing.

3. A list of circuits de-energized, with the following information for each circuit. This information should be provided in both a PDF and excel spreadsheet.

The following table details the specified information for each circuit de-energized during this PSPS event and has also been included in the required PSPS Event Data Workbook filed with this report.

- County
- De-energization date/time
- Restoration date/time²³
- “All Clear” declaration date/time²⁴
- General Order (GO) 95, Rule 21.2-D Zone 1, Tier 2, or Tier 3 classification or non-High Fire Threat District
- Total customers de-energized²⁵
- Residential customers de-energized
- Commercial/Industrial customers de-energized

²³ Table 5 reflects de-energization data at the circuit level (rather than segment level) and shows first de-energization date/time and final restoration date/time for each circuit. During this event, SCE deployed segmentation to limit de-energization to specific circuit segments in the areas of concern.)

²⁴ SCE understands “All Clear” declaration date/time for each circuit in scope to refer to: (1) approval by the Incident Commander to begin patrols and restoration of power for any de-energized circuit or circuit segment, or (2) a final decision to remove a circuit or circuit segment from scope after the Period of Concern is over for that circuit or segment on the monitored circuit list that was not de-energized during the PSPS event.

²⁵ Whenever possible, SCE employs circuit-switching operations and/or sectionalization devices to minimize the number of customers in scope for proactive de-energization. As a result, some customers on a circuit in scope may briefly lose power while SCE switches them to an energized adjacent circuit or when SCE uses sectionalization devices to isolate portions of a circuit that can remain safely energized from de-energized segments of that same circuit or an adjacent circuit. The reported count of “total customers de-energized” does not include customers who experience a brief (30 minutes or less) power interruption during such switching and/or sectionalization operations, but who are not otherwise impacted by the proactive de-energization.

- Medical Baseline (MBL) customers de-energized
- AFN other than MBL customers de-energized²⁶
- Other Customers
- Distribution or transmission classification

Table 5: Circuits De-Energized ²⁷ (Continued in Attachment C)

Circuits De-Energized									
County	Circuit Name	De-energization Date	De-energization Time (2400)	All Clear Declaration Date	All Clear Declaration Time (2400)	Restoration Date	Restoration Time (2400)	GO 95, Tier HFTD Tier(s) 1,2,3	Distribution / Transmission Classification
SAN BERNARDINO	ACOSTA	12/10/2024	4:06	12/11/2024	9:55	12/11/2024	11:42	Non HFRA, T3, T2	Distribution
SAN BERNARDINO	ALLVIEW	12/9/2024	23:11	12/10/2024	19:13	12/10/2024	22:04	T3	Distribution
VENTURA	ANGUS	12/10/2024	6:11	12/11/2024	9:58	12/11/2024	15:25	Non HFRA, T3, T2	Distribution
VENTURA	ANTON	12/9/2024	23:17	12/11/2024	9:55	12/11/2024	12:19	T3	Distribution
ORANGE	ATENTO	12/10/2024	0:25	12/11/2024	9:55	12/11/2024	14:29	T3	Distribution

Circuits De-Energized (cont.)								
County	Circuit Name	Residential Customers De-energized	Commercial / Industrial customers De-energized	Medical Baseline customers De-energized	AFN other than MBL customers De-energized	Total customers De-energized	GO 95, Tier HFTD Tier(s) 1,2,3	Other Customers
SAN BERNARDINO	ACOSTA	3	4	0	0	7	Non HFRA, T3, T2	
SAN BERNARDINO	ALLVIEW	302	1	5	60	303	T3	
VENTURA	ANGUS	57	0	1	0	57	Non HFRA, T3, T2	
VENTURA	ANTON	66	8	2	9	74	T3	
ORANGE	ATENTO	20	5	0	1	25	T3	

Section 4. Damage and Hazards to Overhead Facilities

1. Description of all found wind-related damages or hazards to the utility’s overhead facilities in the areas where power is shut off.

N/A. No wind related damages or hazards were identified related to this de-energization event.

2. A table showing circuit name and structure identifier (if applicable) for each damage or hazard, county that each damage or hazard is located in, whether the damage or hazard is in a High Fire Threat District (HFTD) or non-HFTD and the type of damage/hazard.²⁸

²⁶ SCE maintains extensive data on customer populations that are included in the AFN definition referenced in CPUC decisions, with a focus on identifying AFN customers particularly vulnerable during PSPS events. In addition to AFN customers who have self-certified as sensitive (not enrolled in the MBL program), SCE identifies and tracks for PSPS reporting purposes the following categories of “AFN other than MBL customers”: senior citizens (65 and older), hearing-impaired, vision-impaired (communications provided in large font or Braille), income-qualified (enrolled in CARE or FERA), and non-English speakers. SCE also reports on impacted customers that provide shelter to the homeless population, as these entities are included among critical facilities and infrastructure.

²⁷ The sum of (i) residential customers de-energized, (ii) commercial/industrial customers de-energized, and (iii) other customers equals the total number of customers de-energized per circuit for this event. The count of “Residential Customers De-energized” includes sub-categories of “Medical Baseline customers De-energized” and “AFN other than MBL customers De-energized.”

²⁸ Hazards are conditions discovered during restoration patrolling or operations that might have caused damages or posed an electrical arcing or ignition risk had PSPS not been executed.

Table 6: Damage and Hazards

N/A. No wind related damages or hazards were identified related to this de-energization event.

- 3. A zipped geodatabase file that includes the PSPS event damage and hazard points. The file should include fields that are in the table above.**

N/A. No wind related damages or hazards were identified related to this de-energization event.

- 4. A PDF map identifying the location of each damage or hazard.**

N/A. No damages for this event.

Section 5. Notification

- 1. A description of the notice to public safety partners, local/tribal governments, paratransit agencies that may serve all the known transit or paratransit dependent persons that may need access to a community resource center, multi-family building account holders/building managers in the AFN community²⁹, and all customers, including the means by which utilities provide notice to customers of the locations/hours/services available for CRCs, and where to access electricity during the hours the CRC is closed.**

SCE includes paratransit agencies that may be de-energized in its PSPS notifications and classifies these agencies overall as critical facilities and infrastructure to ensure they receive priority notifications. All multi-family building SCE account holders receive customer notifications. In its customer notification, SCE directs potentially impacted customers to www.sce.com/psps for information related to the location, hours, and services available at Community Resource Centers. Instructions on where customers can access electricity during the hours the centers are closed have been made available on the SCE website. Please see the table below for a description of the types of notices provided during this de-energization event.

²⁹ SCE generally notifies multi-family building account holders along with other customers of record in scope for a potential de-energization. SCE does not currently have a way to identify which multi-family building account holders have residents in their buildings who may be members of the AFN community. SCE conducts PSPS-related outreach via flyers and trade publications to increase awareness of PSPS among building/property managers who are not account holders. SCE also instituted an address-level alert program, which allows non-SCE account holders (such as building/property managers) to sign up for PSPS alerts for specific addresses.

Notification Descriptions		
Type of Notification	Recipients	Description ³⁰
Advance Initial or Initial	Public Safety Partners and Critical Facilities & Infrastructure Customers (including local and Tribal governments, Community Choice Aggregators, hospitals, water/wastewater and telecommunications providers, CBOs and paratransit agencies serving the AFN community).	Initial notification of potential PSPS event when circuits are first identified for potential de-energization (72-48 hours before potential de-energization)
	Other Customers (including multi-family building account holders).	Initial notification of potential PSPS event (48-24 hours before potential de-energization).
Update	Public Safety Partners and Critical Facilities & Infrastructure Customers (including local and Tribal governments, Community Choice Aggregators, hospitals, water/wastewater and telecommunications providers, CBOs and paratransit agencies serving the AFN community).	PSPS event status update notification to alert for any changes or additions/deletions to current scope (timing varies and may also occur daily). Update notice to Public Safety Partners may also serve as cancellation notice if circuits are removed from scope.
	Other Customers (including multi-family building account holders).	
Expected	Public Safety Partners and all Critical Facilities & Infrastructure Customers (including local and Tribal governments, Community Choice Aggregators, hospitals, water/wastewater and telecommunications providers, CBOs and paratransit agencies serving the AFN community).	Power shutoff expected soon (1-4 hours before potential de-energization).

³⁰ SCE makes every effort to adhere to the notification timelines required by the CPUC. However, notifications may be delayed in some circumstances Please see Table 9 for more information specific to this event.

Notification Descriptions		
Type of Notification	Recipients	Description ³⁰
	Other Customers (including multi-family building account holders).	
Shutoff	Public Safety Partners and Critical Facilities & Infrastructure Customers (including local and Tribal governments, Community Choice Aggregators, hospitals, water/wastewater and telecommunications providers, CBOs and paratransit agencies serving the AFN community).	Power has been shut off (when de-energization is initiated).
	Other Customers (including multi-family building account holders).	
Prepare to Restore	Public Safety Partners and Critical Facilities & Infrastructure Customers (including local and Tribal governments, Community Choice Aggregators, hospitals, water/wastewater and telecommunications providers, CBOs and paratransit agencies serving the AFN community).	Inspection/patrols of de-energized circuits for PSPS restoration has begun and power will be restored shortly.
	Other Customers (including multi-family building account holders).	
Restored No Longer in Scope	Public Safety Partners and Critical Facilities & Infrastructure (including local and Tribal governments, Community Choice Aggregators, hospitals, water/wastewater and telecommunications providers, CBOs and paratransit agencies serving the AFN community).	Power has been restored and no longer in scope for this event.
	Other Customers (including multi-family building account holders).	

Notification Descriptions		
Type of Notification	Recipients	Description ³⁰
Restored In Scope	Public Safety Partners and Critical Facilities & Infrastructure Customers (including local and Tribal governments, Community Choice Aggregators, hospitals, water/wastewater and telecommunications providers, CBOs and paratransit agencies serving the AFN community). Other Customers (including multi-family building account holders).	Power has been temporarily restored, PSPS risk still remains.
Event Avoided Cancellation	Critical Facilities & Infrastructure (including Community Choice Aggregators, hospitals, water/wastewater, and telecommunications providers). Other Customers (including multi-family building account holders).	PSPS event cancelled-no de-energization expected.

Information related to PG&E Customers is included in Section 12.

2. Notification timeline including prior to de-energization, initiation, restoration, and cancellation, if applicable. The timeline should include the required minimum timeline and approximate time notifications were sent.

Throughout the PSPS event, SCE made significant effort to notify public safety partners, local/tribal governments, critical facilities and infrastructure, and customers in accordance with the minimum timelines set forth by the CPUC weather and other factors permitting. Table 07: Notification Timeline in Attachment C: PPS Event Data Workbook describes the notifications SCE sent for this event, including approximate time notifications were sent to local/tribal governments, public safety partners, critical facilities and infrastructure, and other customers prior to potential de-energization and after the decision to cancel the de-energization or remove from scope. The Notification Timeline for PG&E customers is included in Section 12.

3. For those customers where positive or affirmative notification was attempted, use the following table to report the accounting of the customers (which tariff and/or access and functional needs population designation), the number of notification attempts made, the timing of attempts, who made the notification attempt (utility or public safety partner) and the number of customers for whom positive notification was achieved. "Notification attempts made" and "Successful positive notification" must include the unique number of customer

counts. When the actual notification attempts made is less than the number of customers that need positive notifications, the utilities must explain the reason. In addition, the utilities must explain the reason of any unsuccessful positive notifications.

Table 8: Positive Notification³¹

Positive Notification					
Category	Total Number of Customers	Timing of Attempts	Notification Attempts	Successful Positive Notification	Who made the notification
Medical Baseline	8520	DAILY	8757	8517	SCE
Self Certified	1457	DAILY	1644	1456	SCE

Three medical baseline customers were not successfully contacted as a result of a sudden onset of weather conditions, and/or scope changes. One self-certified customer was not contacted due to a customer profile change in the system during the event.

- 4. A copy or scripts of all notifications with a list of all languages that each type of notification was provided in, the timing of notifications, the methods of notifications and who made the notifications (utility or public safety partners).**

Scripts of all notifications that SCE sends are attached hereto in Attachment A: Public Safety Partner/Customer Notification Scripts. SCE performs all primary customer notifications and encourages public safety partners to amplify PSPS messages on their platforms as appropriate. SCE offers all notifications in the following languages: English, Spanish, Cantonese, Mandarin, Vietnamese, Tagalog, and Korean, Khmer, Armenian, Farsi, Arabic, Japanese, Russian, Punjabi, Thai, Hmong, Portuguese, Hindi, French, German, Mixteco (indigenous - spoken only), Zapoteco (indigenous - spoken only), and Purapecha (indigenous - spoken only).

- 5. If the utility fails to provide notifications according to the minimum timelines set forth in D.19-05-042 and D.21-06-034, use the following table to report a breakdown of the notification failure and an explanation of what caused the failure.**

Throughout the PSPS event, SCE made significant effort to notify public safety partners, local/tribal governments, critical facilities and infrastructure, and customers in accordance with the minimum timelines set forth by the CPUC in PSPS Phase 1 Guidelines (D.19-05-042), weather and other factors permitting. Any missed notifications during the event are included in the following table.

³¹ The “Total Number of Customers” metric reflects the total number of MBL and Self-Certified customers in scope for the PSPS event. The “Notification Attempts” metric reflects the count of MBL and Self-Certified customers – both in scope and de-energized – whom SCE attempted to notify prior to de-energization. Notification attempts include automated notification, secondary verification by Consumer Affairs and escalated contact attempts, up to and including door rings, if necessary, to confirm successful delivery of notifications to Medical Baseline and Self-Certified customers. The “Successful Positive Notification” metric reflects the number of unique MBL and Self-Certified customers – both in scope and de-energized – who were successfully notified of the PSPS event prior to de-energization or anticipated de-energization.

Table 9: Breakdown of Notification Failure

Breakdown of Notification Failures			
Notifications sent to	Notification Failure Description	Number of Entities or Customer Counts	Explanation
Public Safety Partners excluding Critical Facilities and Infrastructure	Entities who did not receive 48-to 72-hour advance notification.	8	6 - missing authorized campaign/message sent error 2 - campaign authorized less than 48 hours, successfully sent
	Entities who did not receive 1-4-hour imminent notification. ³²	7	missing authorized campaign/message sent error
	Entities who did not receive any notifications before de-energization.	6	missing authorized campaign/message sent error
	Entities who were not notified immediately before re-energization.	6	missing authorized campaign/message sent error
	Entities who did not receive cancellation notification within two hours of the decision to cancel.	1	campaign authorized more than 2 hours, successful delivery
Critical Facilities and Infrastructure	Facilities who did not receive 48-72-hour advance notification.	101	100 - campaign authorized less than 48 hours, successfully sent 1 - missing authorized campaign
	Facilities who did not receive 1-4 hour of imminent notifications. ³³	93	84 - missing authorized campaign 9 - campaign authorized after de-energization
	Facilities who did not receive any notifications before de-energization.	1	missing authorized campaign
	Facilities who were not notified at de-energization initiation.	52	missing authorized campaign

³² Missed imminent (or 1-4 hour) notification is defined as failure to send the notification to an affected customer “1-4 hours in advance of anticipated time of de-energization, if possible.” D.19-05-042, Appendix A, p. A8 and n.5. SCE anticipates that de-energization will occur about four hours from when the Incident Commander determines, based on real-time weather data, that de-energization is likely, and the PSPS operations team authorizes the notification campaign. SCE reports as missed imminent notifications that are (i) not sent at all, (ii) sent prior to the authorization, or (iii) sent less than 1 hour before SCE’s anticipated time of de-energization, as defined above.

³³ Please refer back to footnote 32.

Breakdown of Notification Failures			
Notifications sent to	Notification Failure Description	Number of Entities or Customer Counts	Explanation
	Facilities who were not notified immediately before re- energization.	63	missing authorized campaign
	Facilities who were not notified when re-energization is complete.	51	missing authorized campaign
	Facilities who did not receive cancellation notification within two hours of the decision to cancel.	40	3 - missing authorized campaign 8 - received de-energization notifications, were not de-energized, missing authorized campaign 1 - no contact information / message send error 28 - campaign authorized more than 2 hours from decision
All other affected customers	Customers who did not receive 24-48-hour advance notifications.	574	350 - campaign authorized less than 48 hours, successfully sent 201 - no contact information / message send error 23 - missing authorized campaign
	Customers who did not receive 1-4-hour imminent notifications.³⁴	5987	5613 - missing authorized campaign 10 - campaign authorized after de-energization 364 - no contact information / message send error
	Customers who did not receive any notifications before de-energization.	212	22 - missing authorized campaign 190 - no contact information / message send error
	Customers who were not notified at de-energization initiation.	2137	1718 - missing authorized campaign

³⁴ Please refer back to footnote 32.

Breakdown of Notification Failures			
Notifications sent to	Notification Failure Description	Number of Entities or Customer Counts	Explanation
			419 - no contact information / message send error
	Customers who were not notified immediately before re-energization.	4833	4421 - missing authorized campaign 412 - no contact information / message send error
	Customers who were not notified when re-energization is complete.	1880	1705 - missing authorized campaign 175 - no contact information / message send error
	Customers who did not receive cancellation notification within two hours of the decision to cancel.	2749	80 - missing authorized campaign 21 - received de-energization notifications, were not de-energized, missing authorized campaign 1191 - no contact information / message send error 1457 - campaign authorized more than 2 hours from decision

A total of 2,469 notifications were either sent outside the defined time periods or not sent at all due to circuits not being forecasted in scope ahead of the Period of Concern or the sudden onset of stronger-than-expected winds. SCE is actively expanding its machine learning modeling capabilities to enhance forecast accuracy. Despite these advancements, weather forecasting remains inherently uncertain, particularly at a granular level.

System and process issues affected 13,289 notifications to customers, including Critical Infrastructure and Facilities customers. These issues included the following: To minimize customer impacts, two circuits were de-energized as part of switching operations to remove customers from scope. However, there were delays in reenergization due to technical issues encountered in the field, which were not communicated to the PSPS operations personnel. Customers on these circuits were not re-energized within the 30-minute window beyond which they were required to be notified with a complete suite of notifications. Hence certain customers missed shutoff, preparation to restore and restore notifications, while other customers missed imminent de-energization notifications on a different circuit. These same customers were also restored after a switching operation in the field

that was not communicated to the PSPS operations team, resulting in missed Re-energization notifications.

A system-to-system communication error masked customers on the end segment of one circuit, leading to missed notification for these customers for Imminent Shutoff, Shutoff, Preparation to Restore and Re-energization notifications.

SCE was unable to provide 2,881 notifications due to missing contact information. Notifications were not sent to 112 customers due to move-in/move-out activities over the course of this event. SCE is investigating alternative methods to obtain this information, including call center scripts, direct mailers, and other sources.

Eight Critical Facilities and 21 customers received de-energization notifications in error and were not de-energized. Consequently, these customers did not receive cancellation notifications.

We remain committed to conducting a thorough analysis, addressing identified issues, and enhancing our notification processes. Additional information related to PG&E Customers is included in Section 12.

6. Explain how the utility will correct the notification failures.

Please see the explanations above in section 5 for a description of how SCE will correct the notification failures.

7. Enumerate and explain the cause of any false communications citing the sources of changing data.

Missed/Insufficient Notification:

Please see Table 9 and sub-section 6 above for information on missed or insufficient notifications during this event.

Incorrect Notification:

See sub-section 6 above for information on incorrect notifications during this event.

Cancellation Notification:

Apart from any missed notifications described in table 9, if applicable, SCE sent cancellation notices to all other customers that were notified of potential de-energization but not ultimately de-energized during this event. SCE notifies customers on circuits in scope for potential de-energization ahead of the Period of Concern based on its assessment of the likelihood that winds will exceed PSPS thresholds. De-energization was not necessary for these customers because forecast fire weather conditions did not materialize in those areas, and the customers were notified of the cancellation after being removed from scope.

Section 6. Local and State Public Safety Partner Engagement

- 1. List the organization names of public safety partners including, but not limited to, local governments, tribal representatives, first responders, emergency management, and critical facilities and infrastructure the utility contacted prior to de-energization, the date and time on which they were contacted, and whether the areas affected by the de-energization are classified as Zone 1, Tier 2, or Tier 3 as per the definition in CPUC General Order 95, Rule 21.2-D.**

Please see Table 10: Public Safety Partners Contacted in Attachment C: PSPS Event Data Workbook for a list of local public safety partners that received notifications related to this event.

- 2. List the names of all entities invited to the utility's Emergency Operations Center for a PSPS event, the method used to make this invitation, and whether a different form of communication was preferred by any entity invited to the utility's emergency operation center.**

SCE extends a daily invitation for agency representatives to its Emergency Operations Center (currently virtual only) during agency coordination calls with public safety partners and critical infrastructure providers, as applicable during PSPS events. SCE also shares daily situational reports from these calls with all impacted public safety partners and critical infrastructure providers that includes contact information for requesting/receiving an agency representative to the Emergency Operations Center. No entities invited to the virtual Emergency Operations Center preferred a different form of communication during this event. Please see Table 11: Entities Invited to the Emergency Operations Center in Attachment C: PSPS Event Data Workbook for a list of agencies invited to the daily coordination calls.

- 3. A statement verifying the availability to public safety partners of accurate and timely geospatial information, and real time updates to the GIS shapefiles in preparation for an imminent PSPS event and during a PSPS event.**

After the EOC was activated, SCE provided geospatial information and near real-time updates to the SCE Representational State Transfer Service (REST) to public safety partners before and during the PSPS event. SCE also made this information available to customers at www.sce.com/psps and provided this information to public safety partners on its Public Safety Partner Portal (Portal).

- 4. A description and evaluation of engagement with local and state public safety partners in providing advanced outreach and notification during the PSPS event.**

SCE submitted the CalOES Notification form via the State Dashboard beginning on December 07, 2024, at 3:36 p.m. SCE conducted daily operational briefings with State and local public safety partners, as well as critical infrastructure entities, for the duration of this PSPS event to provide critical incident updates and a forum for resolving issues. See Table 10: Public Safety Partners Contacted in Attachment C: PSPS Event Data Workbook details a list of local public safety partners that received notifications related to this event.

Impacted State and County emergency management agencies and critical infrastructure customers are polled at the close of each event to provide feedback, however only one(1) partner responded to this survey and rated the engagement as good.

5. Specific engagement with local communities regarding the notification and support provided to the AFN community.

SCE provided notification of this PSPS event to the 211 California Networks, Regional Centers, Independent Living Centers, and American Red Cross chapters to alert them of potential PSPS outages in the areas that they serve. SCE also provided 24-hour contact information to these agencies if they needed to escalate any unidentified community issues. In partnership with the CBOs in each area of concern, SCE offered services to customers such as transportation, food support, and temporary accommodations.

6. Provide the following information on backup power (including mobile backup power) with the name and email address of a utility contact for customers for each of the following topics:

a) Description of the backup generators available for critical facility and infrastructure customers before and during the PSPS.

SCE maintains 10 mobile generators for use by critical facilities and infrastructure customers during PSPS events, as needed. SCE has contracts with vendors to lease additional units during emergency events when the need arises for critical care customers.

b) The capacity and estimated maximum duration of operation of the backup generators available for critical facility and infrastructure customers before and during the PSPS.

The generators SCE maintains for PSPS events are rated at 25-100 KW and have an estimated maximum duration of operation of 24-36 hours with a continuous fuel plan to ensure there is no interruption of power while the generators are deployed for usage.

c) The total number of backup generators provided to critical facility and infrastructure customer's site immediately before and during the PSPS.

SCE deployed six generators for Resiliency zones and resilient Community Resource Centers (CRCs) in scope for PSPS in Acton, Cabazon, and Santa Clarita.

d) How the utility deployed this backup generation to the critical facility and infrastructure customer's site.

SCE coordinated with United Rentals to deliver the generators prior to the start of the period of concern. The generators were then connected to manual bypass switches by SCE Qualified electrical Workers (QEWs). After the POC had elapsed, the generators were disconnected by SCE QEWs and then generator vendor picked the generators up from the sites.

e) An explanation of how the utility prioritized how to distribute available backup generation.

N/A. All generators deployed during this event were generators that SCE already had on rent with United Rentals specifically for the CRC and RZ locations. No other requests for generation were requested and there was no need to prioritize.

f) Identify the critical facility and infrastructure customers that received backup generation.

- Agua Dulce Hardware, Sweetwater Bar and Grill, and Bullwinkel's Gifts/Antiques, 33310-33314 Agua Dulce Canyon Road, Santa Clarita, CA 91390
- Well Water for Hardware, Bar & Grill, and Gifts, 33246 Agua Dulce Road, Santa Clarita, CA 91390-4622
- Peppertree Market & Gas Station, 9961 Sierra Highway, Santa Clarita, CA 91390
- Cabazon Fuel Center, 300 N Fern Street, Cabazon, CA 92230-3231
- Family Service Association (aka "James A Venable Community Center"), 50390 Carmen Avenue, Cabazon, CA 92230
- Acton Community Center, 3748 Nickels Avenue, Acton, CA 93510

Any questions related to the information under this item may be directed to SCE at the following e-mail address: SCECEDCustomerSupport@sce.com³⁵

³⁵ Although there is no designated contact person for questions, this e-mail inbox is monitored by SCE's Customer Engagement Division.

Section 7. Complaints and Claims

- 1. The number and nature of complaints received as the result of the de-energization event and claims that are filed against the utility because of de-energization. The utility must completely report all the informal and formal complaints, meaning any expression of grief, pain, or dissatisfaction, from various sources, filed either with CPUC or received by the utility as a result of the PSPS event.**

There were 646 reported complaints, and 62 claims associated with this PSPS event. SCE will include any complaints or claims related to this PSPS event received after the filing of date of this report in its annual post-season report.

Table 12: Count and Nature of Complaints Received

Count and Nature of Complaints Received	
Nature of Complaints	Number of Complaints
PSPS Frequency/Duration Including, but not limited to complaints regarding the frequency and/or duration of PSPS events, including delays in restoring power, scope of PSPS and dynamic of weather conditions.	212
Safety/Health Concern Including, but not limited to complaints regarding difficulties experienced by AFN/MBL populations, traffic accidents due to non-operating traffic lights, inability to get medical help, well water or access to clean water, inability to keep property cool/warm during outage raising health concern	64
Communications/Notifications Including, but not limited to complaints regarding lack of notice, excessive notices, confusing notice, false alarm notice, problems with getting up-to-date information, inaccurate information provided, not being able to get information in the prevalent languages and/or information accessibility, complaints about website, Public Safety Partner Portal, REST/DAM sites (as applicable)	29
Outreach/Assistance Including, but not limited to complaints regarding community resource centers, community crew vehicles, backup power, hotel vouchers, other assistance provided by utility to mitigate impact of PSPS	12
General PSPS Dissatisfaction/Other Including, but not limited to complaints about being without power during PSPS event and related hardships such as food loss, income loss, inability to work/attend school, plus any PSPS-related complaints that do not fall into any other category.	329
Total	646

Table 13: Count and Type of Claims Received

Count and Type of Claims Received	
Description of Claims	Number of Claims
Food loss only	53
Property Damage	3
Food loss and property damage	1
Evacuation Cost	0
Business Interruption / Economic Loss	0
Unspecified	5
Total	62

Section 8. Power Restoration Timeline

1. A detailed explanation of the steps the utility took to restore power, including the timeline for power restoration, broken down by phase if applicable.

SCE began the re-energization process after fire weather conditions subsided, there was no further threat of fire weather forecasted for the areas of concern, and the Incident Commander approved restoration operations. All circuit restoration during this event was guided by safety considerations, including safety risks associated with patrolling certain circuits at night.

Please see Table 5 for details related to customer re-energizations, including restoration date, restoration time, and total customer count by circuit.

Re-energization on these circuits occurred after the authorization to patrol and restore was declared by the Incident Commander. The Incident Commander made the decision to restore these customers based on a recommendation from Operations and input from Weather Services due to the observed improvement in weather conditions.

2. For any circuits that require more than 24 hours to restore, the utility shall use the following table to explain why it was unable to restore each circuit within this timeframe.

Table 14: Circuits Requiring More Than 24 Hours to Restore

N/A. No circuits required more than 24 hours to restore.

Section 9. Community Resource Centers

1. Using the following table, report information including the address of each location during a de-energization event, the location (in a building, a trailer, etc.), the assistance available at each location, the days, and hours that it was open, and attendance (i.e., number of visitors).

Table 15: Community Resource Centers

Community Resource Centers				
Address	Location Type	Describe the assistance available	Hours of Operations¹ (Date / Time)	Number of Visitors
Stallion Springs Community Center 27800 Stallion Springs Dr. Tehachapi, CA 93561	CRC- Indoor	Small portable device charging (such as a cell phone, laptop, and small medical devices), chairs, seasonal cooling, and heating, PSPS information, snacks, water, ice or ice vouchers, blankets, firewood, ADA compliant restrooms and customer Resiliency Kits.	12/9/2024 4PM to 10PM 12/10/2024 8AM to 10PM 12/11/2024 8AM to 2PM	13

Community Resource Centers				
Address	Location Type	Describe the assistance available	Hours of Operations¹ (Date / Time)	Number of Visitors
Courtyard by Marriott Santa Clarita Valencia 28523 Westinghouse Pl. Valencia, CA 91355	CRC- Indoor	Small portable device charging (such as a cell phone, laptop, and small medical devices), chairs, seasonal cooling, and heating, PSPS information, snacks, water, ice or ice vouchers, ADA compliant restrooms and customer Resiliency Kits.	12/9/2024 4PM to 10PM 12/10/2024 8AM to 10PM 12/11/2024 8AM to 6:30 PM	11
Dry Town Water Park - Break Room 3850-B E Avenue S Palmdale, CA 93550	CRC- Indoor	Small portable device charging (such as a cell phone, laptop, and small medical devices), chairs, seasonal cooling, and heating, PSPS information, snacks, water, ice or ice vouchers, blankets, ADA compliant restrooms and customer Resiliency Kits.	12/12/24 8AM to 3:30 PM	11
Juan Bautista de Anza Park Community Center 3701 Lost Hills Rd. Calabasas, CA 91301	CRC- Indoor	Small portable device charging (such as a cell phone, laptop, and small medical devices), chairs, seasonal cooling, and heating, PSPS information, snacks, water, ice or ice vouchers, ADA compliant restrooms and customer Resiliency Kits.	12/9/2024 4PM to 10PM 12/10/2024 8AM to 10PM 12/11/2024 8AM to 6:30 PM	21
Mayor's Discovery Park 1800 Foothill Blvd. La Canada, CA 91011	CCV	Small portable device charging (such as a cell phone, laptop, and small medical devices), chairs, seasonal cooling, and heating, PSPS information, snacks, water, ice or ice vouchers, ADA compliant restrooms and customer Resiliency Kits.	12/9/2024 4PM to 10PM 12/10/2024 8AM to 10PM 12/11/2024 8AM to 6:30 PM	15
Courtyard by Marriott 27492 Portola Pkwy. Foothill Ranch, CA 92610	CRC- Indoor	Small portable device charging (such as a cell phone, laptop, and small medical devices), chairs, seasonal cooling, and heating, PSPS information, snacks, water, ice or ice vouchers, ADA compliant restrooms and customer Resiliency Kits.	12/9/2024 4PM to 10PM 12/10/2024 8AM to 10PM 12/11/2024 8AM to 5:30 PM	0

Community Resource Centers				
Address	Location Type	Describe the assistance available	Hours of Operations¹ (Date / Time)	Number of Visitors
Cabazon Community Center/James A. Venable Community Center 50390 Carmen Ave. Cabazon, CA 92330	CRC-Indoor	Small portable device charging (such as a cell phone, laptop, and small medical devices), chairs, seasonal cooling, and heating, PSPS information, snacks, water, ice or ice vouchers, ADA compliant restrooms and customer Resiliency Kits.	12/9/2024 4PM to 10PM 12/10/2024 8AM to 10PM 12/11/2024 8AM to 3PM	45
Jurupa Valley Operations Center parking lot 5293 Mission Blvd. Jurupa Valley, CA 92509	CCV	Small portable device charging (such as a cell phone, laptop, and small medical devices), chairs, seasonal cooling, and heating, PSPS information, snacks, water, ice or ice vouchers, ADA compliant restrooms and customer Resiliency Kits.	12/9/2024 4PM to 10PM 12/10/2024 8AM to 10PM 12/11/2024 8AM to 3PM	66
Riverside County Firestation #3 parking lot 30515 10th St. Nuevo, CA 92567	CCV	Small portable device charging (such as a cell phone, laptop, and small medical devices), chairs, seasonal cooling, and heating, PSPS information, snacks, water, ice or ice vouchers, ADA compliant restrooms and customer Resiliency Kits.	12/10/2024 8AM to 10PM 12/11/2024 8AM to 6:30 PM	30
San Jacinto Community Center 625 S. Pico Ave. San Jacinto, CA 92583	CRC-Indoor	Small portable device charging (such as a cell phone, laptop, and small medical devices), chairs, seasonal cooling, and heating, PSPS information, snacks, water, ice or ice vouchers, ADA compliant restrooms and customer Resiliency Kits.	12/10/2024 8AM to 10PM 12/11/2024 8AM to 1PM	49
Cal State University San Bernardino parking lot C 5500 University Pkwy. San Bernardino, CA 92407	CCV	Small portable device charging (such as a cell phone, laptop, and small medical devices), chairs, seasonal cooling, and heating, PSPS information, snacks, water, ice or ice vouchers, ADA compliant restrooms and customer Resiliency Kits.	12/9/2024 4PM to 10PM 12/10/2024 8AM to 10PM 12/11/2024 8AM to 6:30 PM	16

Community Resource Centers				
Address	Location Type	Describe the assistance available	Hours of Operations¹ (Date / Time)	Number of Visitors
Forestry Station parking lot 34701 Mill Creek Rd. Mentone, CA 92359	CCV	Small portable device charging (such as a cell phone, laptop, and small medical devices), chairs, seasonal cooling, and heating, PSPS information, snacks, water, ice or ice vouchers, ADA compliant restrooms and customer Resiliency Kits.	12/10/2024 8AM to 10PM 12/11/2024 8AM to 3PM	35
Robert Hootman Senior / Community Center 2929 Running Springs Rd. Running Springs, CA 92391	CRC-Indoor	Small portable device charging (such as a cell phone, laptop, and small medical devices), chairs, seasonal cooling, and heating, PSPS information, snacks, water, ice or ice vouchers, blankets, firewood, ADA compliant restrooms and customer Resiliency Kits.	12/10/2024 8AM to 10PM 12/11/2024 8AM to 6:30 PM	169
Rolling Start 19555 Hunts Lane, #101 San Bernardino, CA 92408	CRC-Indoor	Small portable device charging (such as a cell phone, laptop, and small medical devices), chairs, seasonal cooling, and heating, PSPS information, snacks, water, ice or ice vouchers, ADA compliant restrooms and customer Resiliency Kits.	12/9/2024 4PM to 10PM 12/10/2024 8AM to 10PM 12/11/2024 8AM to 3PM	5
Rolling Start 16519 Victor St., #406 Victorville, CA 92395	CRC-Indoor	Small portable device charging (such as a cell phone, laptop, and small medical devices), chairs, seasonal cooling, and heating, PSPS information, snacks, water, ice or ice vouchers, blankets, ADA compliant restrooms and customer Resiliency Kits.	12/12/24 8AM to 3:30 PM	7
Twin Peaks Recreation Complex 675 Grandview Rd. Twin Peaks, CA 92391	CRC-Indoor	Small portable device charging (such as a cell phone, laptop, and small medical devices), chairs, seasonal cooling, and heating, PSPS information, snacks, water, ice or ice vouchers, blankets, firewood, ADA compliant restrooms and customer Resiliency Kits.	12/10/2024 8AM to 10PM 12/11/2024 8AM to 1:30 PM	7

Community Resource Centers				
Address	Location Type	Describe the assistance available	Hours of Operations¹ (Date / Time)	Number of Visitors
Arroyo Vista Recreation Center, Magnolia Room 4550 Tierra Rejada Rd. Moorpark, CA 93021	CRC- Indoor	Small portable device charging (such as a cell phone, laptop, and small medical devices), chairs, seasonal cooling, and heating, PSPS information, snacks, water, ice or ice vouchers, ADA compliant restrooms and customer Resiliency Kits.	12/9/2024 4PM to 10PM 12/10/2024 8AM to 10PM 12/11/2024 8AM to 5:30 PM	6
Fillmore Active Adult Center 533 Santa Clara Ave. Fillmore, CA 93015	CRC- Indoor	Small portable device charging (such as a cell phone, laptop, and small medical devices), chairs, seasonal cooling, and heating, PSPS information, snacks, water, ice or ice vouchers, ADA compliant restrooms and customer Resiliency Kits.	12/9/2024 4PM to 10PM 12/10/2024 8AM to 10PM 12/11/2024 8AM to 1PM	63
Simi Valley Senior Center 3900 Avenida Simi Simi Valley, CA 93063	CRC- Indoor	Small portable device charging (such as a cell phone, laptop, and small medical devices), chairs, seasonal cooling, and heating, PSPS information, snacks, water, ice or ice vouchers, ADA compliant restrooms and customer Resiliency Kits.	12/9/2024 4PM to 10PM 12/10/2024 8AM to 10PM 12/11/2024 8AM to 1PM	94
Thousand Oaks Inn 75 W Thousand Oaks Blvd. Thousand Oaks, CA 91360	CRC- Indoor	Small portable device charging (such as a cell phone, laptop, and small medical devices), chairs, seasonal cooling, and heating, PSPS information, snacks, water, ice or ice vouchers, ADA compliant restrooms and customer Resiliency Kits.	12/9/2024 4PM to 10PM 12/10/2024 8AM to 10PM 12/11/2024 8AM to 4:30 PM	16

2. Any deviations and explanations from the CRC requirement including operation hours, ADA accessibility, and equipment.

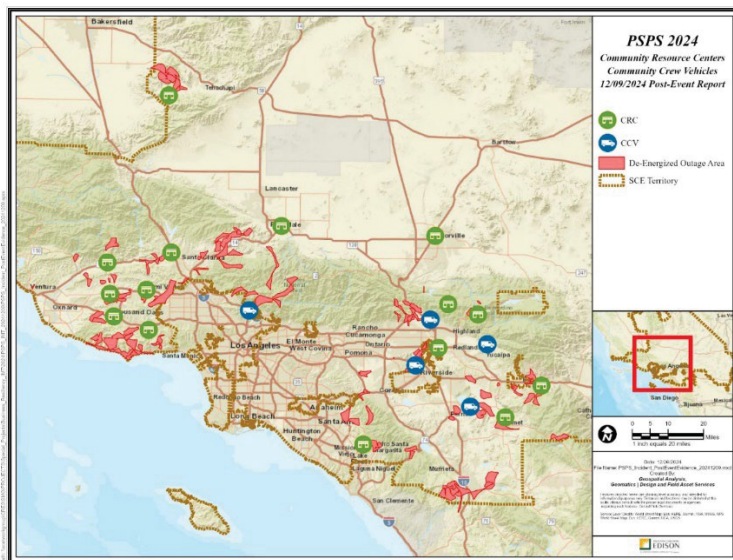
During this event, SCE deployed staff to provide community assistance at a total of twenty (20) locations in Kern, Los Angeles, Orange, Riverside, San Bernardino, and Ventura counties. The weather forecast on December 8th extended the event to Kern County and also extended the Period of Concern to December 12th. Eighteen of the 20 sites were opened from 12/9 – 12/11; two sites were opened on December 12, 2024. Site operating hours at times deviated from the standard 8:00 a.m. to 10:00 p.m.

duration to align with the Period of Concern (POC) and provide customer support to best meet the needs of the community more closely. Additionally, operating hours deviated when circuits were re-energized, the POC passed, and customer support was no longer necessary.

The site in Kern County closed at 2:00 p.m. on December 11th because the monitored circuits were removed from the event scope and customer support was no longer necessary. The sites in Riverside County closed at 1:00 p.m., 3:00 p.m. and 6:30 p.m., respectively on December 11th because circuits were removed from scope, the POC had passed, and all customer load had been restored removing the need for ongoing customer support in the County. In San Bernardino County, three of the five sites open on December 11th closed at 1:30 p.m., 3:00 p.m. and 3:30 p.m., respectively because the POC for the circuits surrounding the sites had passed. The other two sites in San Bernardino County closed at 6:30 p.m. after all customer load had been restored. Two sites in Ventura County closed at 1:00 p.m. on December 11th because the circuits supporting the deployment sites were removed from scope. The remaining two sites in Ventura County closed at 5:30 p.m. and 6:30 p.m. after all customer load had been restored. The sites in Orange and Los Angeles counties closed at 5:30 p.m. and 6:30 p.m., on December 11th because the POC had passed and all customer load in the counties had been restored.

SCE did not de-energize any circuits during the POC on 12/12/2024. As a result, the deployment sites in Los Angeles and San Bernardino Counties opened to support customers under consideration for PSPS during this POC closed at 3:30 p.m. after the POC had passed, circuits had been removed from the event scope and customer support was no longer required.

3. A map identifying the location of each CRC and the de-energized areas.



Section 10. Mitigation to Reduce Impact

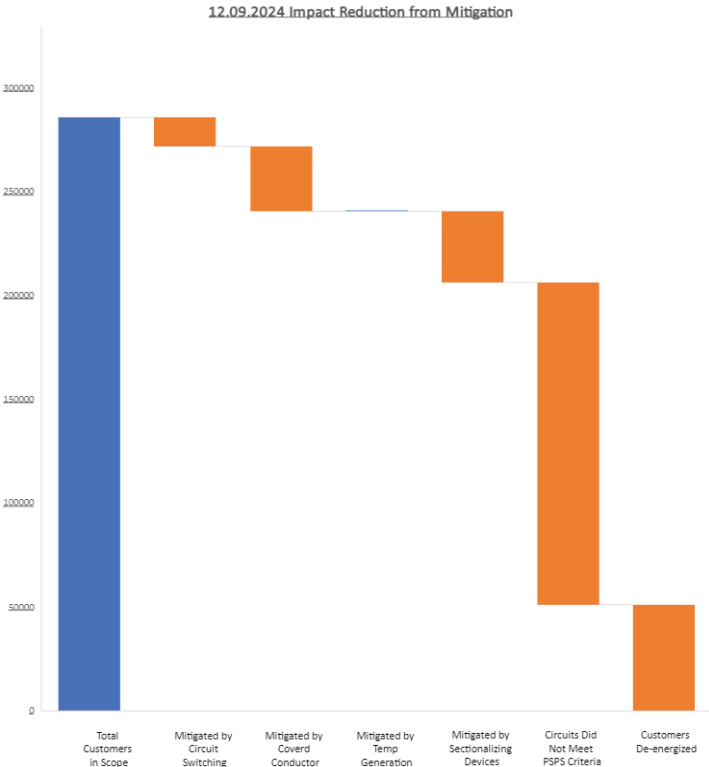
- 1. Mitigation actions and impacts including: sectionalization devices, temporary generation, microgrids, permanent backup generation, transmission switching, covered conductor, and any other grid hardening that mitigated the impact of the event.**

Prior to the Period of Concern, SCE used circuit playbooks to identify circuit switching that could reduce the number of customers in scope for potential de-energization. SCE transferred 13,985 customers from circuits on the monitored circuit list to adjacent circuits not in scope pursuant to the then-current forecast, thereby maintaining service to these customers throughout the event.

In addition, the replacement of bare wire with covered conductor allowed SCE to raise de-energization windspeed thresholds and thus reduced potential de-energization impacts to customers on portions of 88 circuits.

With the above-discussed mitigations in place, SCE was able to limit de-energization to 51,105 customers.

The waterfall graphs and maps below illustrate the impacts of SCE’s mitigation measures over the course of the PSPS event where circuit switching, covered conductor, and/or sectionalization devices were successfully deployed to limit the scope of potential or actual de-energization.³⁶



³⁶ “Circuits Did Not Meet PSPS Criteria” in the waterfall graph denotes customers on circuits in scope that were not ultimately de-energized. These customers were not switched to adjacent circuits, were not on circuits with covered conductor, and did not require the use of sectionalization devices.

Section 11. Lessons Learned

1. **Threshold analysis and the results of the utility's examination of whether its thresholds are adequate and correctly applied in the de-energized areas.**

The event's significant scale and complexity required adjustments to windspeed thresholds in alignment with established operational protocols. These adjustments accounted for circuit prioritization, emergent grid conditions, and the intricate interaction of weather systems across SCE's service territory.

This PSPS event covered a large area, with forecasts indicating variable wind behavior throughout its duration. Initial winds featured an onshore flow impacting a broad portion of SCE's territory. Peak observed wind speeds reached the upper range of SCE's forecast, with gusts exceeding predictions in some areas. Red Flag warnings were issued for Los Angeles, Orange, Riverside, San Bernardino, San Diego, and Ventura counties. Fire modeling during the event projected potential fire sizes ranging from 5,000 to 38,000 acres.

In response to the event's scale, speed, and complexity as outlined in Section 2.2, SCE adjusted de-energization thresholds to prioritize circuits based on specific risk factors such as wind speeds and gusts, fuel moisture levels, susceptibility to wind-related damage, and active wildfires. The Franklin Fire, which ignited during this event and burned approximately 4,037 acres, validated these models. Additionally, several SCE districts reported a significant increase in wind-related outages as dangerous, ignition-prone conditions developed.

The Geographic Area Coordination Center (GACC) preparedness level was set at two, indicating moderate strain on fire suppression resources. However, this level was not sufficient to warrant a reduction in SCE's Fire Potential Index (FPI) threshold.

To further refine the thresholds, SCE gathers data from restoration patrols conducted during every de-energization event and records any evidence of damage to SCE infrastructure during de-energization. These damage data points are incorporated into SCE's machine learning models which are used to predict the probability of failure for SCE assets. This model, along with fire consequence modelling, is the basis for SCE's Wildfire Mitigation Plan.

The probability of failure does not directly affect SCE's PSPS de-energization thresholds. SCE's PSPS de-energization thresholds are determined with the fundamental consideration that a fire in high wind and dry fuel conditions is not an acceptable risk for SCE, our customers, or our communities. Also, failing to find damage during a restoration patrol does not mean that the de-energization did not prevent a fire or that the thresholds were too low; wind-blown debris may result in faults that could be the source of an ignition if the lines were energized, but may not be observable during a restoration patrol if the debris subsequently blew out of the line or environmental conditions had otherwise changed.

Therefore, SCE believes its de-energization thresholds were appropriate for this event and functioned as intended. Additional details about SCE's thresholds can be found in Attachment B - Quantitative and Qualitative Factors in PSPS Decision-Making Technical Paper.

2. Any lessons learned that will lead to future improvement for the utility.

Lessons Learned		
Issue	Discussion	Resolution
SCE missed five notifications for PG&E shared customers due to internal miscommunication.	According to the JIOU Shared Customer Procedure, PG&E requested SCE to launch 48-24-hour notifications. Initially, SCE provided notification launch timestamps, but later identified that these notifications were not launched due to the need for a manual campaign. PG&E was informed of the missed notifications during the 4-1-hour notification window.	SCE has reviewed and update their internal processes to address the root cause of the miscommunication
Missed prep to restore and delayed Re-energization notifications for customers who were restored without PSPS Operations team visibility	PSPS operations team was unaware of actions taken in the field, including restoration of a circuit segment that had been de-energized for switching.	Education and outreach to emphasize the need for field teams to report any actions involving PSPS circuits during activation.

Section 12. Other Relevant Information

1. This section includes any other relevant information determined by the utility.

SCE includes information related to the PG&E Customers de-energized during the PSPS event below.

The figures below outlined pertinent details relevant to the event.

The figure below contains PSPS Event Summary Data for the PG&E Shared Customers.

PSPS Event Summary (PG&E Shared Customers)										
Total Customers			De-energized				Number of Circuits			Damage/Hazard Count
PSPS Notified	De-energized	Cancelled	MBL Customers	Number of Counties	Number of Tribes	Critical Facilities and Infrastructure	Transmission De-energized	Distribution Circuits in Scope	Distribution Circuits De-energized	
2	2	0	0	1	0	0	0	1	1	

The figure below contains the Circuits De-Energized for the PG&E Shared Customers.

Circuits De-Energized (PG&E Shared Customers)										
County	Circuit Name	De-energization Date	De-energization Time (2400)	All Clear Declaration Date	All Clear Declaration Time (2400)	Restoration Date	Restoration Time (2400)	GO 95, Tier HFTD Tier(s) 1,2,3	Distribution / Transmission Classification	
Kern	SCE Tehachapi 1101/Condor	12/10/2024	1:37	12/11/2024	07:59	12/11/2024	07:59	T3, T2	Distribution	

Circuits De-Energized (cont.) (PG&E Shared Customers)									
County	Circuit Name	Residential Customers De-energized	Commercial / Industrial customers De-energized	Medical Baseline customers De-energized	AFN other than MBL customers De-energized	Total customers De-energized	GO 95, Tier HFTD Tier(s) 1,2,3	Other Customers	
Kern	SCE Tehachapi 1101/Condor	1	1	0	0	2	T3, T2	NA	

Attachment A-Public Safety Partner and Customer Notification Scripts

Template language for all notifications (after notification language)

SCE Emergency Operations Center and IMT are activated. Contact information is provided below.

Message cadence: The SCE Liaison Officer provides a rolling three-day advance warning of potential PSPS events, when possible, and sends update notifications every day. We will also notify you with time-sensitive shutoff and restoration information at the circuit level. Sudden weather changes may impact SCE's ability to provide advanced notice: a shutoff could occur sooner than anticipated.

Spreadsheet content: All circuits currently on the watch list in your county are listed in the attached spreadsheet. As we get closer to the event and the weather forecast becomes more exact, additional circuits could be added or removed from our watch lists. Definitions are on the second tab of the spreadsheet.

Not all circuits on the watch list will have their power shut off. We are working to reduce the number of customers affected and weather patterns might change.

Customers on the affected circuits are being notified if they are within two days of the period of concern, or if there has been a change to their status.

Outage maps and other detailed information are available at the following locations:

Maps showing PSPS boundaries and locations of about Community Resource Centers and Community Crew Vehicles: <https://www.sce.com/outage-center/check-outage-status>

- Public Safety Partner Portal (for registered users)
 - Email publicsafetyportal@sce.com to request access.
- REST service (web-based password-protected access to GIS layers)
 - SCERestInfo@sce.com to request access.

SCE Contact Information for Public Officials only (DO NOT share with the public)

First Responders and Emergency Managers:

- Phone: Business Resiliency Duty Manager 24/7 hotline: (800) 674-4478
- Email: Business Resiliency Duty Manager/emergencies: BusinessResiliencyDutyManager@sce.com **Note: Only monitored during emergency activations.**
- **Government/tribal officials:**
 - Phone Liaison (government relations) 24/7 hotline: 800-737-9811. **Note: Only monitored during emergency activations.**
 - Email SCELiaisonOfficer@sce.com. **Note: Only monitored during emergency activations.**

- **Access and Functional Needs issues:**
 - Phone AFN Liaison Officer 24/7 hotline: 888-588-5552. **Only monitored during emergency activations.**
 - Email: AFNIMT@sce.com. **Note: Only monitored during emergency activations.**

Information available for the general public:

SCE Contact Information for the Public: (Please share via web and social media).

- Outage specific customer service issues: 800-611-1911
- Billing and service inquiries: 800-684-8123
- Maps showing PSPS boundaries and locations of about Community Resource Centers and Community Crew Vehicles: <https://www.sce.com/outage-center/check-outage-status>
- General information on PSPS: www.sce.com/pmps
- De-energization and restoration policies: sce.com/pmpsdecisionmaking
- Information on emergency preparedness, customer notifications, customer programs and other resources: www.sce.com/wildfire
- Seven-day PSPS forecasts <https://www.sce.com/wildfire/weather-awareness>
- Fire and weather detection [map https://www.sce.com/wildfire/situational-awareness](https://www.sce.com/wildfire/situational-awareness)

Advanced Initial (72-hour) LNO Notification (Advanced Initial)

Text Language: Important: SCE Advanced Initial Notice for PSPS Event in {County} CO on {Start POC Date}. Please see your inbox for more details.

Email Notification Subject Line and Message

Advanced Initial Notice for PSPS Event starting [start POC DATE] in [COUNTY NAME] as of [current date] [current time] .

COMMENTS:

Public Safety Power Shutoff initial notification for official use: Due to projected fire weather conditions, we may need to shut off power in high fire risk areas in COUNTY NAME. Please refer to the attached spreadsheet for status and periods of concern for specific circuits.

Recommended Language to Share with the Public: SCE has informed us they may be calling for a Public Safety Power Shutoff impacting (insert organization name) on (insert date). SCE will notify all customers who may be affected, including Critical Care and Medical Baseline customers. For more info: sce.com/pmps

When the weather improves, crews will inspect and repair the lines and restore power. Typically, this can take up to 8 hours. Updates to restoration information will be posted on www.sce.com/pmps and on the Public Safety Partner Portal.

Updated Conditions (Update) Notification

Text Language: Important: SCE Update/Initial Notice for PSPS Event in {County} CO. Please see your inbox for more details.

Notification Subject Line and Message:

SCE Update/Initial Notice for PSPS Event starting [start POC DATE] in [COUNTY NAME] as of [current date] [current time] .

COMMENTS:

Public Safety Power Shut-Off update notification for official use:

Due to projected fire weather conditions, we may need to shut off power in high fire risk areas, in COUNTY NAME. Please refer to the attached spreadsheet for status and periods of concern for specific circuits.

Recommended Language to Share with the Public: SCE has informed us there may be a Public Safety Power Shutoff impacting (insert organization name) on (insert date). SCE will notify all customers who may be affected, including Critical Care and Medical Baseline customers. For more info: sce.com/psps

Expected De-Energize Notification (previously: Imminent De-Energization) (PSPS Expected)

Text Language: Important: SCE Expected Shutoff Notice for PSPS Event on {Circuit(s)} Circuit in {County} CO. Please see your inbox for more details.

Email Notification Subject Line and Message:

SCE Expected Shutoff Notice for [CIRCUIT NAME] Circuit for PSPS Event starting [start POC DATE] in [COUNTY NAME] as of [current date] [current time] .

Public Safety Power Shutoff update notification for official use: SCE may need to shut off power in the next 4 hours to reduce the risk of wildfire ignition. Areas that may be impacted include:

- **Circuit:** [CIRCUIT name]
- **County:**
- **Segment:** [if listed]
- **Incorporated City of:**
- **Unincorporated County Area:**
- COMMENTS:

Shutoffs may occur earlier or later depending on actual weather conditions. This notice expires after 4 hours; however, the listed circuit(s) will remain on the watch list and will be subject to PSPS until the conclusion of this weather event.

Recommended Language to Share with the Public: SCE has informed us they are likely to call a Public Safety Power Shutoff impacting (insert organization name) within the next four hours. SCE will notify all customers who may be affected. For more info: sce.com/psps

PSPS Shutoff Notification (De-energization notification)

Text Language: Important: SCE PSPS Shutoff Notice for {Circuit(s)} Circuit in {County} CO. Please see your inbox for more details.

Email Notification Subject Line and Message:

SCE PSPS Shutoff Notice for [CIRCUIT NAME] Circuit for PSPS Event starting [start POC DATE] in [COUNTY NAME] as of [current date] [current time] .

Public Safety Power Shutoff update notification for official use: SCE is shutting off power to reduce the risk of wildfire ignition.

Impacted circuits and locations are:

- **Circuit:** [CIRCUIT name]
- **County:** [COUNTY NAME].
- **Segment:**
- **Incorporated City of:** [Incorporated City]
- **Unincorporated County Area:** [unincorporated area description]
- **Comment:**

When the weather improves, crews will inspect and repair the lines and restore power. Typically, this can take up to 8 hours. Updates to restoration information will be posted on www.sce.com/psps and on the Public Safety Partner Portal.

Recommended Language to Share with the Public: SCE has begun a Public Safety Power Shutoff. SCE notified customers who may be affected, including Critical Care and Medical Baseline customers. For more information visit sce.com/psps

(Preparation for Restoration)

Text Language: Important: SCE Preparation for Restoration {Circuit(s)} Circuit in {County}. Please see your inbox for more details.

Email Notification Subject Line and Message:

Preparation for Restoration [CIRCUIT NAME] Circuit Shutoff Notice for [CIRCUIT NAME] Circuit for PSPS Event starting [start POC DATE] in [COUNTY NAME] as of [current date] [current time] .

Public Safety Power Shutoff update notification for official use: SCE crews are inspecting the following circuits or circuit segments to restore power as soon as it is safe to do so:

- **Circuit:** [CIRCUIT name]
- **Segment(s):** *if entered in Foundry*
- **Incorporated City:** [incorporated city]
- **Unincorporated County Area:** [unincorporated area description]
- **Comments:**

Typically, power is restored in up to 8 hours. Exceptions include circuits requiring daylight for inspection and circuits that need repair. Restoration may be done in segments, meaning some parts of the circuit will be restored before others. Updates will be posted on www.sce.com/psps and the Public Safety Partner Portal.

Recommended Language to Share with the Public: SCE has begun patrolling circuits for damage before turning the power back on. It typically takes up to 8 hrs to restore power once the patrol begins. Restoration can be delayed if damage is found, or aerial patrol is needed. For more info visit sce.com/psps

Restore Notification (formerly: RE-ENERGIZE) Restoration Notification

Text Language: Important: SCE Restoration Notice for PSPS Event on {Circuit(s)} Circuit in {County} CO. Please see your inbox for more details.

Email Notification Subject Line and Message:

Important: SCE Restoration Notice for PSPS Event on [CIRCUIT NAME] Circuit Shutoff Notice for [CIRCUIT NAME] Circuit for PSPS Event starting [start POC DATE] in [COUNTY NAME] as of [current date] [current time] .

Public Safety Power Shutoff update notification for official use:

SCE crews have restored power on the following circuit or circuit segments:

- **Circuit:** [CIRCUIT name]
- **Segment(s):** *if entered in Foundry*
- **Incorporated City:** [incorporated city]
- **Unincorporated County Area:** [unincorporated area description]
- **Comment:**

Recommended Language to Share with the Public: SCE has begun turning power back on to circuits. Some areas may be restored sooner than others. For more info visit sce.com/psps

Cancellation no longer in scope

Description: *Sent within two hours after a circuit no longer in scope for PSPS*

Text Language: Important: SCE PSPS Cancellation {Circuit(s)} Circuit in {County} CO. Please see your inbox for more details.

Notification Subject Line and Message:

Important: SCE PSPS Cancellation as of {LNO Authorized Date} {LNO Authorized Time} for PSPS Event {Start POC Date} {Circuit(s)} Circuit in {County} CO.

Public Safety Power Shutoff update notification for official use: Due to improved conditions SCE is no longer planning to shut off power the circuit listed below.

- **Circuit:** [CIRCUIT name]
- **County:**
- **Segment:** [if listed]
- **Incorporated City of:**
- **Unincorporated County Area:**

Language to share with the public: Some customers in our area are no longer in scope for public safety power shutoffs. Check sce.com/outages for more information.

Event Concluded Notification

Text Language Important: SCE PSPS Event Concluded in {County} CO. Please see your inbox for more details.

Email Notification Subject Line and Message:

SCE PSPS Event Concluded in [COUNTY NAME].

Public Safety Power Shutoff update notification for official use:

If customers were de-energized, power has been restored and the PSPS event has concluded.

Recommended Language to Share with the Public: *The public safety power shutoff in your area has concluded. If your power is still out, please visit sce.com/outages for more information.*

Any circuit that was identified for potential PSPS is All Clear and will not be de-energized for this event

PSPS Variable Notification Templates

8/2/2024

1 | Advanced Initial [Typically 72 Hours Prior]

[Only for Public Safety Partners (Telecom/Water-Wastewater) and Critical Infrastructure]

TEXT/SMS

SCE Advanced PSPS Alert: High winds and fire conditions are forecast from ^Day of week^ ^morning/afternoon/evening^ through ^End Day of week^ ^morning/afternoon/ evening^. We may have to shut off power. Power restoration typically takes 8 hours, and will start after the wind subsides. Delays may occur if daylight is required for safe inspections. We are working to reduce the number of customers affected, and weather patterns might change, so not all notified customers will have their power shut off. For the latest updates, visit publicsafetyportal.sce.com, contact your assigned SCE account representative, or call 1-800-611-1911.

VOICE

SCE Advanced Public Safety Power Shutoff Alert: High winds and fire conditions are forecast from ^Day of week^ ^morning/afternoon/evening^ through ^End Day of week^ ^morning/afternoon/ evening^. We may have to shut off power. Power restoration typically takes 8 hours, and will start after the wind subsides. Delays may occur if daylight is required for safe inspections. We are working to reduce the number of customers affected, and weather patterns might change, so not all notified customers will have their power shut off. For the latest updates visit [publicsafetyportal dot sce dot com](https://publicsafetyportal.sce.com), contact your assigned SCE account representative, or call 1-800-611-1911

EMAIL

Subject: SCE Public Safety Power Shutoff (PSPS) Advanced Initial Alert

From: do_not_reply@scewebservices.com

Southern California Edison

High winds and fire conditions are forecast from ^Day of week^ ^morning/afternoon/evening^ through ^End Day of week^ ^morning/afternoon/evening^. We may need to shut off power to decrease the risk of dangerous wildfires. Power restoration typically takes 8 hours, and will start after the wind subsides. Delays may occur if daylight is required for safe inspections. We are working to reduce the number of customers affected, and weather patterns might change, so not all notified customers will have their power shut off.

This alert applies to the following address(es):

Customer Address

Service Account

Meter Number

Rate

For the latest updates and availability of community resources, visit <https://publicsafetyportal.sce.com/> if you are registered, contact your assigned SCE account representative, or call 1-800-611-1911.

2 | Initial Notification [48 HOURS BEFORE] ALERT

TEXT/SMS

SCE PSPS Alert: High winds and fire conditions are forecast from ^Day of week^ ^morning/afternoon/evening^ through ^End Day of week^ ^morning/afternoon/evening^. We may have to shut off your power to decrease risk during this time. Power restoration typically takes 8 hours, and will start after the wind subsides. Delays may occur if daylight is required for safe inspections. We are working to reduce the number of customers affected and will keep you updated. Visit sce.com/pmps for the latest information. For downed power lines, call 911. View in more languages: www.sce.com/PSPSInitial or view in ASL: <https://ahas.sce.com?id=pmps1>

VOICE

SCE Public Safety Power Shutoff Alert. To continue in English, press 1. [Spanish press 2], all other languages press 3.... High winds and fire conditions are forecast from ^Day of week^ ^morning/afternoon/evening^ through ^End Day of week^ ^morning/afternoon/evening^. We may have to shut off your power to decrease risk of dangerous wildfires. Power restoration typically takes 8 hours, and will start after the wind subsides. Delays may occur if daylight is required for safe inspections. We are working to reduce the number of customers affected and will keep you updated. Visit [sce dot com slash pmps](https://sce.com/pmps) for the latest information. If you see a downed power line call 911.

EMAIL

Subject: SCE Public Safety Power Shutoff Alert

From: do_not_reply@scewebservices.com

Southern California Edison

For more information on PSPS in your preferred language, click below:

[ESPAÑOL](#)

1-800-441-2233

[한국어](#)

1-800-628-3061

[中文](#)

1-800-843-8343

[TIẾNG VIỆT](#)

1-800-327-3031

[TAGALOG](#)

1-800-655-4555

[MORE LANGUAGES](#)

[View in ASL](#)

High winds and dangerous fire conditions are forecast from ^Day of week^ ^morning/afternoon/evening^ through ^End Day of week^ ^morning/afternoon/evening^. We may have to shut off your power to decrease risk of dangerous wildfires. Power restoration typically takes 8 hours, and will start after the wind subsides. Delays may occur if daylight is required for safe inspections. We are working to reduce the number of customers whose power will be shutoff and will keep you updated. For the latest updates, outage map, and information about customer care services, visit sce.com/psps.

Thank you for your patience as we work to keep your community safe!

This alert applies to the following address(es):

Customer Address

Service Account

Meter Number

Rate

- For information about preparing for a power outage, [visit sce.com/safety/family/emergency-tips](https://sce.com/safety/family/emergency-tips).
- REMEMBER: If you see a downed power line call 911 first, and then notify SCE at 1-800-611-1911.

3 | Update Notification [24 HOURS BEFORE] WARNING

TEXT/SMS

SCE PSPS Warning: High winds and fire conditions are forecast from ^Day of week^ ^morning/afternoon/evening^ through ^End Day of week^ ^morning/afternoon/evening^. We may have to shut off your power to decrease risk of wildfires. We are working to reduce the number of customers affected and will keep you updated. Visit sce.com/psps for the latest information and availability of community resources. For downed power lines, call 911. View in more languages: www.sce.com/PSPSUpdate or view in ASL: <https://ahas.sce.com?id=psps2>

VOICE

SCE Public Safety Power Shutoff warning. To continue in English, press 1. [Spanish press 2], all other languages press 3.... High winds and dangerous fire conditions are forecast from ^Day of week^ ^morning/afternoon/evening^ through ^End Day of week^ ^morning/afternoon/ evening^. We may have to shut off your power to decrease risk of wildfires. We are working to reduce the number of customers whose power will be shutoff and will keep you updated. Visit [sce dot com slash psps](http://sce.com/psps) for the latest information and availability of community resources. If you see a downed power line call 911.

EMAIL

Subject: SCE Public Safety Power Shutoff (PSPS) Warning

From: do_not_reply@scewebservices.com

Southern California Edison

For more information on PSPS in your preferred language, click below:

[ESPAÑOL](#)

1-800-441-2233

[한국어](#)

1-800-628-3061

[中文](#)

1-800-843-8343

[TIẾNG VIỆT](#)

1-800-327-3031

[TAGALOG](#)

1-800-655-4555

[MORE LANGUAGES](#)

[View in ASL](#)

High winds and dangerous fire conditions are forecast from ^Day of week^ ^morning/afternoon/evening^ through ^End day of week^ ^morning/afternoon/evening^. We may have to shut off your power to decrease risk of dangerous wildfires. We are working to reduce the number of customers whose power will be shut off and will keep you updated. For the latest updates, outage map, and availability of community resources, visit sce.com/psps.

This alert applies to the following address(es):

Customer Address

Service Account

Meter Number

Rate

- For information about preparing for a power outage, visit sce.com/safety/family/emergency-tips.

- REMEMBER: If you see a downed power line, call 911 first, and then notify SCE at 1-800-611-1911.

Thank you for your patience as we work to keep your community safe!

4 | CANCELLATION

(SENT AT ANY TIME WHEN CUSTOMER IS PERMANENTLY OUT OF SCOPE)

TEXT/SMS

SCE PSPS All-Clear: Due to improved weather, we did not shut off your power. We understand that planning around outages is inconvenient. Thanks for your patience as we work to keep our communities safe. If your power is off, please call 1-800-611-1911 or visit sce.com/psps. View in more languages: www.sce.com/PSPSAllClear or view in ASL: <https://ahas.sce.com?id=psps3>

VOICE

SCE PSPS All-clear: To continue in English, press 1. [Spanish press 2], all other languages press 3.... Due to improved weather, we did not shut off your power. We understand that planning around outages is inconvenient. Thank you for your patience as we work to keep our communities safe. If your power is off, please call 1-800-611-1911 or visit [sce dot com slash psps](https://sce.com/psps).

EMAIL

Subject: SCE Public Safety Power Shutoff (PSPS) All-clear

From: do_not_reply@scewebservices.com

Southern California Edison

For more information on PSPS in your preferred language, click below:

[ESPAÑOL](https://www.sce.com/PSPSAllClear)

1-800-441-2233

[한국어](https://www.sce.com/PSPSAllClear)

1-800-628-3061

[中文](https://www.sce.com/PSPSAllClear)

1-800-843-8343

[TIẾNG VIỆT](https://www.sce.com/PSPSAllClear)

1-800-327-3031

[TAGALOG](https://www.sce.com/PSPSAllClear)

1-800-655-4555

[MORE LANGUAGES](#)

[View in ASL](#)

Due to improved weather, we did not shut off your power. We understand that planning around outages is inconvenient. Thank you for your patience as we work to keep our communities safe.

This alert applies to the following address(es):

Customer Address

Service Account

Meter Number

Rate

If power is off, please call 1-800-611-1911 or visit sce.com/psps.

For more information about PSPS and wildfire safety, please visit sce.com/psps.

[Text Wrapping Break]

5| PSPS EXPECTED (1-4 HOURS BEFORE SHUTOFF WARNING)

TEXT/SMS

SCE PSPS Expected: It's likely we will shut off your power in the next 4 hours due to wind-driven fire conditions. Conditions could last through ^End Day of week^ ^morning /afternoon /evening^. We will notify you again if we shut power off. Weather could affect shutoff timing and wind-related outages may also occur. Visit sce.com/psps for the latest information and availability of community resources. For downed power lines, call 911. Thanks for your patience. View in more languages: www.sce.com/PSPSExpected or view in ASL: <https://ahas.sce.com?id=psps4>

VOICE

SCE PSPS Expected. To continue in English, press 1. [Spanish press 2], all other languages press 3.... It's likely we will shut off your power in the next 4 hours due to wind-driven fire conditions in your area. Conditions could last through ^End Day of week^ ^morning /afternoon /evening^. We will notify you again if we shut off your power. Weather could affect shutoff timing and wind-related outages may also occur. Visit [sce dot com slash psps](https://sce.com/psps) for the latest information and availability of community resources. If you see a downed power line, call 911. Thank you for your patience.

EMAIL

Subject: SCE Public Safety Power Shutoff (PSPS) Expected

From: do_not_reply@scewebsiteservices.com

Southern California Edison

For more information on PSPS in your preferred language, click below:

ESPAÑOL

1-800-441-2233

한국어

1-800-628-3061

中文

1-800-843-8343

TIẾNG VIỆT

1-800-327-3031

TAGALOG

1-800-655-4555

MORE LANGUAGES

[View in ASL](#)

It's likely we will shut off your power in the next 4 hours due to wind-driven fire conditions. Conditions could last through ^End Day of week^ ^morning /afternoon /evening^. We are working to reduce the number of customers affected. Weather could also affect shutoff timing and wind-related outages may occur. We will notify you again if we shut off your power. For the latest updates, outage map, and availability of community resources, visit sce.com/psps.

We appreciate your patience as we work to keep your community safe.

This alert applies to the following address(es):

Customer Address

Service Account

Meter Number

Rate

- For information about preparing for a power outage, visit sce.com/safety/family/emergency-tips
- REMEMBER: If you see a downed power line, call 911 first, and then notify SCE at 1-800-611-1911.

Thank you again for your continued patience as we work to keep your community safe!

6 | PSPS SHUTOFF

(SENT AT AUTHORIZATION TO DE-ENERGIZE)

SMS/TEXT

SCE PSPS Shutoff: We are shutting off your power due to wind-driven wildfire risk. High winds are forecast through ^End Day of week^ ^morning/ afternoon/ evening^. When weather improves, we will inspect our lines for damage before we restore power. This is expected to take up to 8 hours but could take longer if we need daylight for safe inspections or if we find damage. Visit [sce.com/pmps](https://www.sce.com/pmps) for the most up to date info on restoration timing and SCE community resources in your area. Remember to turn off/unplug appliances or equipment that could restart automatically. For downed power lines, call 911. Thanks for your patience. View in more languages: www.sce.com/PSPSShutoff or view in ASL: <https://ahas.sce.com?id=pmps5>

VOICE

SCE PSPS shutoff. To continue in English, press 1. [Spanish press 2], all other languages press 3.... We are shutting off your power due to current wind-driven wildfire risk. High winds are forecast through ^End Day of week^ ^morning/ afternoon/ evening^. When the weather improves, we will inspect our lines for damage before we restore power. This is expected to take up to 8 hours but could take longer if we need daylight for safe inspections or if we find damage. Remember to turn off or unplug appliances or equipment that could restart automatically. Visit [sce dot com slash pmps](https://www.sce.com/pmps) for the latest information on restoration timing and SCE community resources in your neighborhood. If you see a downed power line, call 911. Thank you for your patience.

EMAIL

Subject: SCE Public Safety Power Shutoff (PSPS)

From: do_not_reply@scewebservices.com

Southern California Edison

For more information on PSPS in your preferred language, click below:

[ESPAÑOL](#)

1-800-441-2233

[한국어](#)

1-800-628-3061

[中文](#)

1-800-843-8343

[TIẾNG VIỆT](#)

1-800-327-3031

[TAGALOG](#)

1-800-655-4555

[MORE LANGUAGES](#)

[View in ASL](#)

We are shutting off your power due to current high risk of wind-driven wildfire. High winds are forecast to last through ^End Day of week^ ^morning/ afternoon/ evening^. When the weather improves, we will inspect our lines for damage before we restore power. This is expected to take up to 8 hours but could take longer if we need daylight for safe inspections or if we find damage. We will update you as conditions change. Please remember to turn off or unplug appliances or equipment that may start automatically when power is restored.

Please visit sce.com/psps for the most up to date information, including outage map and restoration information, and availability of SCE community resources.

REMEMBER: If you see a downed power line, call 911 first, and then notify SCE at 1-800-611-1911. We understand this shutoff is inconvenient. We appreciate your continued patience as we work to keep your community safe.

This alert applies to the following address(es):

Customer Address

Service Account

Meter Number

Rate

7 | CONTINUED SHUTOFF - NEXT DAY SHUTOFF UPDATE

(SENT IN THE AM TO OVERNIGHT OUTAGES)

SMS/TEXT

SCE Continued PSPS Shutoff: Thank you for your continued patience during this Public Safety Power Shutoff. High winds could continue through ^End Day of week^ ^morning /afternoon/ evening^. Before we restore power, we will inspect our lines for damage. This is expected to take up to 8 hours but could take longer if we need daylight for safe inspections or if we find damage. Visit sce.com/psps for the latest info on restoration and SCE community resources in your area. For downed power lines, call 911. View in more languages: www.sce.com/PSPSContinuedShutoff or view in ASL: <https://ahas.sce.com?id=psps6>

VOICE

SCE Continued PSPS. To continue in English, press 1. [Spanish press 2], all other languages press 3.... Thank you for your continued patience during this Public Safety Power Shutoff. High winds are forecast to continue through ^End Day of week^ ^morning /afternoon/ evening^. Before we restore power, we will inspect our lines for damage. This is expected to take up to 8 hours but could take longer if we need daylight for safe inspections or if we find damage. Visit [sce dot com slash psps](https://sce.com/psps) for the latest information on restoration and availability of community resources in your area. For downed power lines, call 911.

EMAIL

Subject: SCE Continued Public Safety Power Shutoff (PSPS)

From: do_not_reply@scewebservices.com

Southern California Edison

For more information on PSPS in your preferred language, click below:

[ESPAÑOL](#)

1-800-441-2233

[한국어](#)

1-800-628-3061

[中文](#)

1-800-843-8343

[TIẾNG VIỆT](#)

1-800-327-3031

[TAGALOG](#)

1-800-655-4555

[MORE LANGUAGES](#)

[View in ASL](#)

Thank you for your continued patience during this Public Safety Power Shutoff. Wind-driven fire conditions could last through ^End Day of week^ ^morning /afternoon/ evening^. When the weather improves, we will inspect our lines for damage before we restore power. This is expected to take up to 8 hours but could take longer if we need daylight for safe inspections or if we find damage. Visit sce.com/psps for the latest information on restoration and SCE community resources in your area. We understand that any outage is an inconvenience. Thank you again for your continued patience as we work to keep your community safe!

REMEMBER: If you see a downed power line, call 911 first, and then notify SCE at 1-800-611-1911.

This alert applies to the following address(es):

Customer Address

Service Account

Meter Number

Rate

8 | PREPARE FOR RESTORATION

SMS/TEXT

SCE PSPS Update: Winds have died down and we are starting to inspect our lines for damage. Restoration is expected to take up to 8 hours but could take longer if we need daylight for safe inspections or find damage. For updated restoration estimates in your area and for location of SCE community resources visit sce.com/psps. Please turn off/unplug appliances or equipment that could restart automatically and inspect your property for downed power lines. Call 911 if you find a downed line. We will alert you again when we restore power. View in more languages: www.sce.com/PSPSPrepRestore or view in ASL: <https://ahas.sce.com?id=psps7>

VOICE

SCE PSPS Update. To continue in English, press 1. [Spanish press 2], all other languages press 3.... Winds have died down and we are starting to inspect our lines for damage. Restoration is expected to take up to 8 hours but could be delayed if we need daylight for safe inspections or if we find damage. Please turn off or unplug any appliances or equipment that could restart automatically and inspect your property for downed power lines. Call 911 if you find a downed line. We will alert you again when we restore power. For updated restoration estimates in your area, and for location of SCE community resources visit sce.com/psps

EMAIL

Subject: SCE Public Safety Power Shutoff Update

From: do_not_reply@scewebservices.com

Southern California Edison

For more information on PSPS in your preferred language, click below:

[ESPAÑOL](#)

1-800-441-2233

[한국어](#)

1-800-628-3061

[中文](#)

1-800-843-8343

[TIẾNG VIỆT](#)

1-800-327-3031

[TAGALOG](#)

1-800-655-4555

[MORE LANGUAGES](#)

[View in ASL](#)

Winds have died down and we are starting to inspect our lines for damage. Restoration is expected to take up to 8 hours but could take longer if we need daylight for safe inspections or if we find damage. For updated restoration estimates in your area, and for location of SCE community resources visit sce.com/psps. We will alert you again when your power comes back on. Please turn off or unplug any appliances or equipment that could restart automatically and inspect your property for downed power lines. If you see a downed power line, stay away and call 911 first, then report it to SCE at 1-800-611-1911.

We understand that Public Safety Power Shutoff events can be disruptive and thank you for your patience as we work to keep your community safe.

This alert applies to the following address(es):

Customer Address

Service Account

Meter Number

Rate

9 | RESTORED NO LONGER IN SCOPE (RESTORED & CANCELLATION [NO MORE RISK OF PSPS])

SMS/TEXT

SCE PSPS Ended: We have restored power in your area and ended the Public Safety Power Shutoff. If your power is still off, please call 1-800-611-1911 or visit sce.com/outage. We know that safety outages are inconvenient and thank you for your patience. View in more languages: www.sce.com/PSPSEnded or view in ASL: <https://ahas.sce.com?id=psps10>

VOICE

SCE PSPS Ended... To continue in English, press 1. [Spanish press 2], all other languages press 3.... We have restored power in your area and ended the Public Safety Power Shutoff due to improved weather conditions. If your power is still off, please call 1-800-611-1911 or visit [sce dot com slash outage](https://sce.com/outage). We understand that safety outages are inconvenient and thank you for your patience.

EMAIL

Subject: SCE Public Safety Power Shutoff Ended: All Power Restored

From: do_not_reply@scewebservices.com

Southern California Edison

For more information on PSPS in your preferred language, click below:

[ESPAÑOL](#)

1-800-441-2233

[한국어](#)

1-800-628-3061

[中文](#)

1-800-843-8343

[TIẾNG VIỆT](#)

1-800-327-3031

[TAGALOG](#)

1-800-655-4555

[MORE LANGUAGES](#)

[View in ASL](#)

We have restored power and ended the Public Safety Power Shutoff in your area due to improved weather conditions. If your power is still off, please call 1-800-611-1911 or visit sce.com/outage. We understand that safety outages are inconvenient and thank you for your patience.

This alert applies to the following address(es):

Customer Address

Service Account

Meter Number

Rate

For more information about PSPS and wildfire safety, please visit [sce.com/psps](https://www.sce.com/psps).

10 | RESTORED IN SCOPE – RISK OF PSPS REMAINS

SMS/TEXT

SCE PSPS Update: Winds have improved enough for us to restore power in your area. However, because high winds are still forecast through ^End Day of week^ ^morning/afternoon/evening^ we might have to shut off power again. We will update you as weather conditions change. If your power is still off, please call 1-800-611-1911 or visit [sce.com/psps](https://www.sce.com/psps). Thanks for your patience. View in more languages: www.sce.com/PSPSNotAllClear or view in ASL: <https://ahas.sce.com?id=psps11>

VOICE

SCE PSPS Update: To continue in English, press 1. [Spanish press 2], all other languages press 3.... Winds have improved enough for us to restore power in your area. However, because high winds are still forecast through ^End Day of week^ ^morning/afternoon/evening^ we may have to shut off your power again. We will keep you updated as weather conditions change. We understand that PSPS outages are inconvenient and thank you for your patience. If your power is still off, please call 1-800-611-1911 or visit [sce dot com slash psps](https://www.sce.com/psps).

EMAIL

Subject: SCE Public Safety Power Shutoff Update: Power restored; PSPS still in effect

From: do_not_reply@scewebservices.com

Southern California Edison

For more information on PSPS in your preferred language, click below:

ESPAÑOL

1-800-441-2233

한국어

1-800-628-3061

中文

1-800-843-8343

TIẾNG VIỆT

1-800-327-3031

TAGALOG

1-800-655-4555

MORE LANGUAGES

[View in ASL](#)

Winds have improved enough for us to restore power in your area. However, because high winds are still forecast through ^End Day of week^ ^morning/afternoon/evening^ we may have to shut off your power again. We will keep you updated as weather conditions change. If your power is still off, please call 1-800-611-1911 or visit [sce.com/psps](https://www.sce.com/psps).

We understand that safety outages are inconvenient and thank you for your continued patience.

This alert applies to the following address(es):

Customer Address

Service Account

Meter Number

Rate

For more information about PSPS and wildfire safety, please visit [sce.com/psps](https://www.sce.com/psps).

Attachment B-Quantitative and Qualitative Factors in PSPS Decision-Making Technical Paper



QUANTITATIVE AND QUALITATIVE FACTORS FOR PSPS DECISION-MAKING

Revision: November 6, 2023



As the severity and frequency of wildfires in California continues to grow,¹ the state's utilities, including Southern California Edison, have implemented Public Safety Power Shutoffs (PSPS) to reduce the risk of electrical infrastructure igniting a significant wildfire. SCE's core objective is to keep customers safely energized, which is why PSPS remains a tool of last resort. We forecast with as much granularity as possible and then work to reduce the number of customers impacted.

Customer impacts are reduced by de-energizing only when necessary, based on real-time weather reporting; isolating only those circuits that present significant risk; moving customers between circuits (sectionalization) and turning off specific segments while keeping other segments of the same circuit energized (segmentation).

We use preset thresholds for dangerous wind speeds, low humidity and dry fuels as the basis of our decision-making. These thresholds are set for each of the circuits in high fire risk areas (HFRAs) and are continuously reviewed to calibrate the risk of significant events against the potential for harm to customers from the loss of power.

In 2021, based on an examination of 26 years of historical fire activity, SCE updated its thresholds for all but one fire climate zone within our service area.

Simultaneously, grid hardening efforts, including replacing bare wire with covered conductor (see box, right), are reducing ignition risk and thereby allowing SCE to raise thresholds on many of the circuits most frequently impacted in the 2019 and 2020 fire seasons.*

REDUCING THE NEED FOR PUBLIC SAFETY POWER SHUTOFFS

Concurrent with the work that SCE is doing to reduce the number of customer impacts from PSPS, we are increasing grid resiliency in high fire risk areas through grid hardening measures. The more resilient grid (described in our [Wildfire Mitigation Plan](#)) will help reduce the risk of utility equipment sparking significant wildfires and the need for PSPS.

Since 2018, SCE has replaced more than 2,000 circuit miles of bare wire with covered conductor, with additional miles in progress. Covered conductor should prevent ignitions associated with objects or vegetation contacting power lines or conductor-to-conductor contact.

Additional grid hardening activities since 2018 include the installation of 100 sectionalizing devices, more than 7,500 fire-resistant poles and more than 13,000 fast-acting fuses.

* For simplicity, we are referring to the last fire season as the "2020 fire season" although it includes the PSPS event from Jan. 12 to 21, 2021.

DECISION-MAKING

PSPS decisions are based on quantitative analyses while accounting for qualitative factors such as societal and emergency management impacts.

SCE makes PSPS decisions predominantly at the distribution grid level. Decision-making for transmission-level de-energization is not covered in this paper.

THRESHOLDS

All circuits have an **activation threshold**, defined by the Fire Potential Index (FPI) and the wind speed at which they are considered at risk. Activation thresholds are computed for each circuit for the season. For each PSPS event, every circuit also has a **de-energization threshold**. De-energization thresholds are determined separately for each circuit to prioritize circuits for de-energization based on the specific risks of the event. This is particularly important for large events where many circuits must be evaluated simultaneously. The baseline activation thresholds for each of the high fire risk area circuits are included in the online appendix.

SCE PSPS TERMINOLOGY

Consequence score: Used to quantify risk in decision-making

Incident commanders: All decision-making in PSPS events is authorized by an incident commander, who represents the company and undergoes continuous training in PSPS response.

Incident Management Team: SCE follows principles of the National Incident Management System and components of the Standardized Emergency Management System during PSPS events. This includes using an Incident Management Team structure to execute PSPS events.

In-Event Risk Calculation: A decision-making tool that assesses and compares potential public safety risk (PSPS risk) and the benefit of de-energization (wildfire risk) 24 hours out from the start of the period of concern.

In scope: Circuits at risk are deemed to be in scope when they are at risk for reaching event risk thresholds.

Monitored circuit list: Circuits in scope are listed and prioritized and each circuit has a specific time range for which it is forecasted to be of concern.

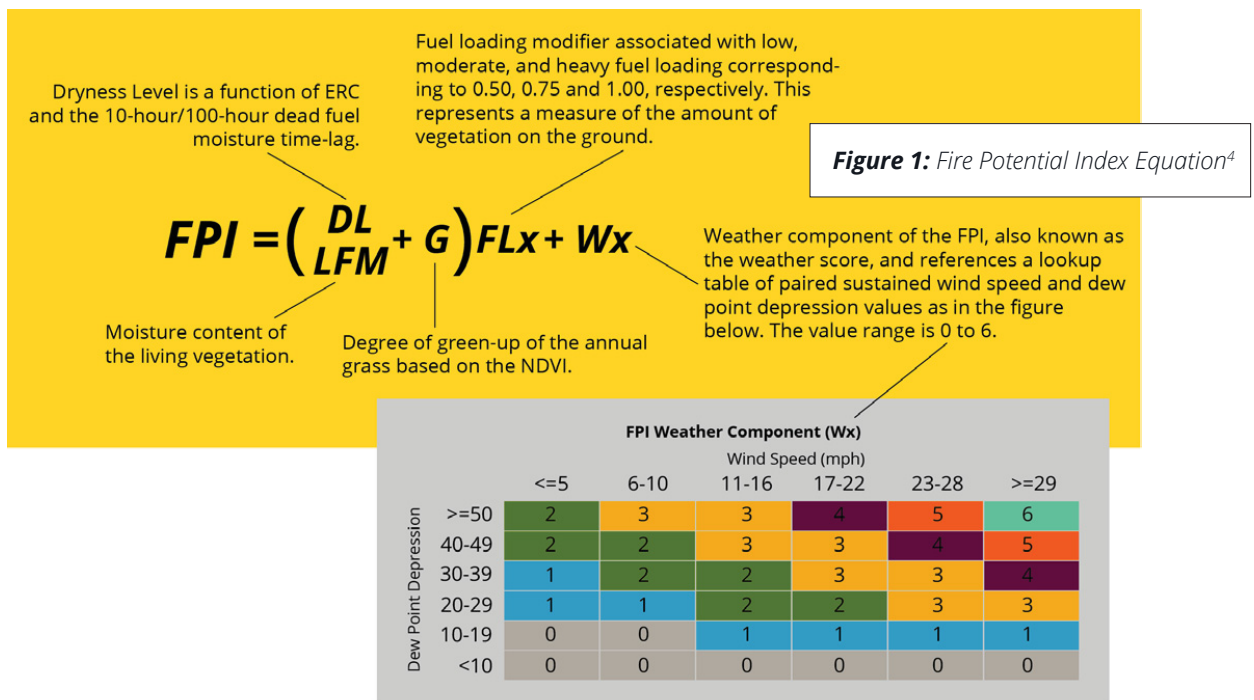
Period of concern: The forecasted period, including start and end time, as measured in three-hour time blocks.

REST Service (Representational state transfer): A software architecture we use to share GIS maps with public agencies.

FIRE POTENTIAL INDEX

FPI estimates the likelihood of a spark turning into a major wildfire. FPI uses a whole-number scale with a range from 1 to 17 and are categorized as normal (1-11), elevated (12-14) and extreme (15+). Historical FPI and state and federal fire data shows that the most severe fires in terms of number of acres damaged occur at the higher levels of FPI (FPI is calculated using the following inputs (Figure 1):

- **Wind speed**—Sustained wind velocity at 6 meters above ground level.
- **Dew point depression**—The dryness of the air as represented by the difference between air temperature and dew point temperature at 2 meters above ground level.
- **Energy release component (ERC)**—“The available energy (BTU) per unit area (square foot) within the flaming front at the head of a fire ... reflects the contribution of all live and dead fuels to potential fire intensity.”²
- **10-hour dead fuel moisture**—A measure of the amount of moisture in ¼-inch diameter dead fuels, such as small twigs and sticks.
- **100-hour dead fuel moisture**—A measure of the amount of moisture in 1-to 3-inch diameter dead fuels, i.e., dead, woody material such as small branches.
- **Live fuel moisture**—A measure of the amount of moisture in living vegetation.
- **Normalized Difference Vegetation Index (NDVI)**—“... used to quantify vegetation greenness and is useful in understanding vegetation density and assessing changes in plant health.”³



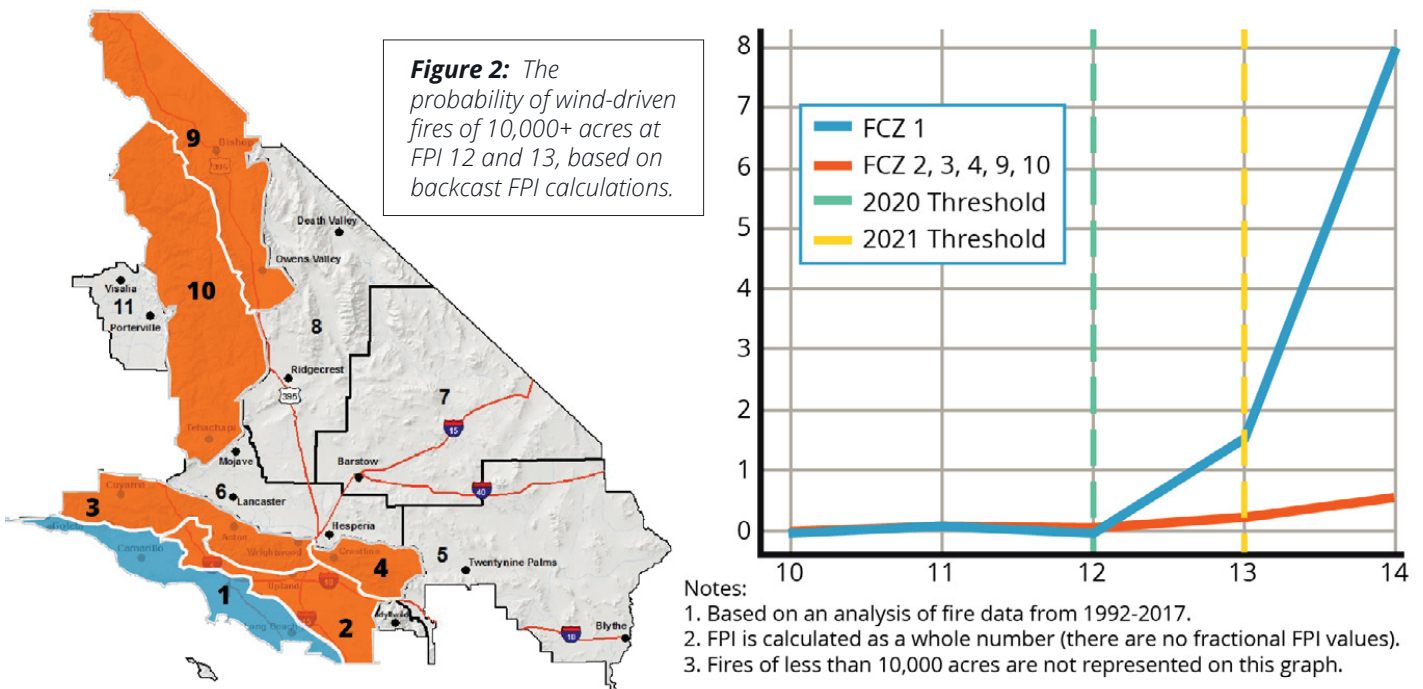
The variables used to generate the FPI score come from the Weather Research and Forecasting (WRF) model⁵, which has been customized for SCE to replicate our specific geography and weather conditions. Individual components of the FPI score are forecast hourly for each 2 km by 2 km grid cell. The model is run twice a day and provides an hourly forecast for five days forward. The forecasts associated with each of the FPI components for each grid cell are then summarized by circuit for three-hour intervals.

The forecasted FPI is further refined and calibrated by integrating model guidance from multiple public sources such as sampling from fire agencies and proprietary data. These refined FPI values are used to determine which circuits are forecast to breach PSPS thresholds during the event, and the values are recorded on SCE's monitored circuit list. In many cases, SCE's meteorologists and operations experts further refine these initial estimated FPI values in real time during the period of concern, based on actual weather observations.

Initially, SCE set the FPI threshold to 12 for all circuits in SCE's high fire risk areas. Starting on Sept. 1, 2021, SCE raised the FPI to 13 for most areas and most events based on a risk analysis of historical fire data.

Exceptions where the FPI threshold continued to be set at 12 include:

- **Fire Climate Zone 1 (FCZ1) (Coastal region)** — The threshold for FCZ1 is staying at 12 because probability calculations indicated a significantly higher ignition risk factor at an FPI threshold of 13 for this FCZ than for the other FCZs (2, 3, 4, 9 and 10). (Figure 2)
- **Geographic Area Coordination Center (GACC) preparedness level of 4 or 5** — The GACC coordinates multiple federal, state, and regional fire suppression resources. It provides daily fire preparedness levels on a scale of 1-5. A high score signals that there is significant resource drawdown which could negatively impact fire response.
- **Circuits located in an active Fire Science Area of Concern (AOC)** — AOCs are areas within FCZs that are at high risk for fire with significant community impact. This designation is based on factors that are part of FPI, as well as egress, fire history and fire consequence. Further details about AOCs can be found in SCE's Wildfire Mitigation Plan.⁷



In 2023, SCE identified certain remote and isolated areas (less than 1% of SCE's high fire risk area) where an FPI threshold of 11 may be appropriate to mitigate additional fire risk created by unique factors such as extremely limited egress and constrained fire suppression capability. SCE does not anticipate a significant increase in PSPS events as a result of lowering the FPI threshold in these areas.

WIND SPEED

SCE considers the lower of the National Weather Service's (NWS) wind advisory levels (defined as 31 mph sustained wind speed and 46 mph gust wind speed) or the 99th percentile of historical wind speeds to set activation thresholds for each circuit. The [wind advisory level](#) is chosen because debris or vegetation is likely to become airborne as described by the Beaufort Wind Scale,⁸ while a circuit's 99th percentile wind speeds represent extreme and unusual wind activity for the area.* There are a handful of circuits that have legacy thresholds below the NWS advisory level because they have a history of local circuit outages at lower wind speeds.

CALCULATING DE-ENERGIZATION THRESHOLDS

De-energization thresholds account for circuit health, including any outstanding maintenance and issues identified through patrols,⁹ and are also informed by a **consequence score** for each specific high fire risk area. The consequence score estimates the impact of an ignition on communities. The higher the score, the greater the risk to a particular location from wildfires. SCE's process for calculating de-energization thresholds is outlined in Figure 3 below.

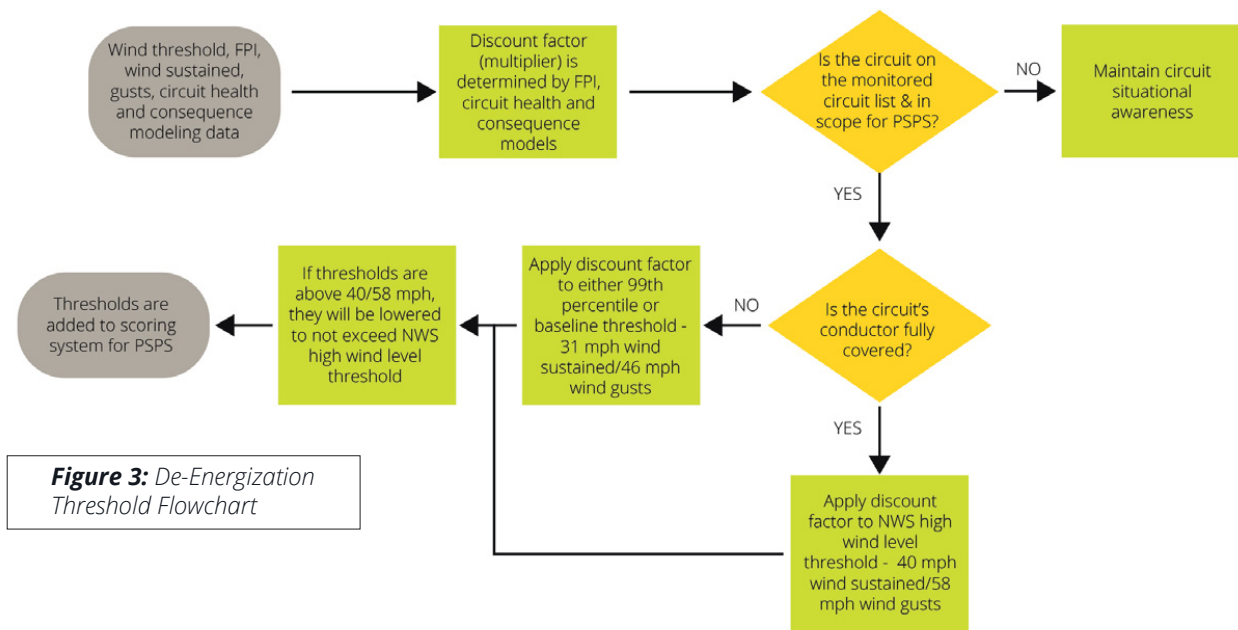


Figure 3: De-Energization Threshold Flowchart

If actual conditions suggest more risk, or in large-scale events when many circuits are under consideration for shutoffs, the de-energization thresholds may be lowered (discounted), meaning power on a circuit will be turned off at lower wind speeds. This step prioritizes the circuits that represent the highest risk to be evaluated for de-energization before circuits at lower risk.

* top 1% each year, based on 10 years of data

Conversely, de-energization thresholds are raised for segments or circuits that have had covered conductor installed. The de-energization threshold for segments with covered conductor is 40 mph sustained/58 mph gusts which aligns with the National Weather Service high wind warning level for windspeeds at which infrastructure damage may occur. Other factors, such as maintenance issues, could lower the thresholds for specific events.

TOOLS AND TECHNOLOGIES

To better inform PSPS decision-making, SCE has invested in tools, technologies and practices to improve forecasting. In 2020, two super computers produced twice-daily, high-resolution weather and fuel modeling forecasts for the more than 1,100 distribution circuits in SCE's high fire risk areas. (Two additional super computers and machine learning technology will improve forecasting accuracy in 2021.) The models resolve the complex flows that occur in California's mountainous topography.

PRE-PLANNING (PRIOR TO WILDFIRE SEASON)

PSPS preparedness activities take place year-round. Pre-planning work includes establishing circuit-specific FPI and wind speed thresholds for activation, reviewing circuits for fuel risk and developing process and tool enhancements, such as updating circuit switching plans for circuits in high fire risk areas.

CIRCUIT SEGMENT REVIEWS

We use an exception review process to remove circuit segments from consideration for PSPS when the wildfire risk is temporarily or permanently abated. An example would be a portion of a circuit traversing a recent burn scar where there is little or no vegetation remaining to pose an ignition risk. Circuit segment exceptions are identified when SCE begins preparing detailed designs for grid hardening activities or through specific feedback received from the field. This process is further informed by field teams who have current knowledge of changing conditions in specific areas.

A review team composed of SCE experts from PSPS operations, fire science and risk management evaluates each circuit segment's unique characteristics (e.g., construction type, outage history) and location characteristics (e.g., fuel quantity, fuel type, fuel dryness, fuel age and history of fires in the area) to assess the fire risks associated with that segment. Through the circuit exception review process, SCE has removed more than 31,000 customers on 26 circuits from consideration for PSPS in 2020 that had been at risk in 2019. We are continuing to review circuits to further reduce PSPS impacts as part of our PSPS Action Plan for 2021.

SWITCHING PLAN DEVELOPMENT

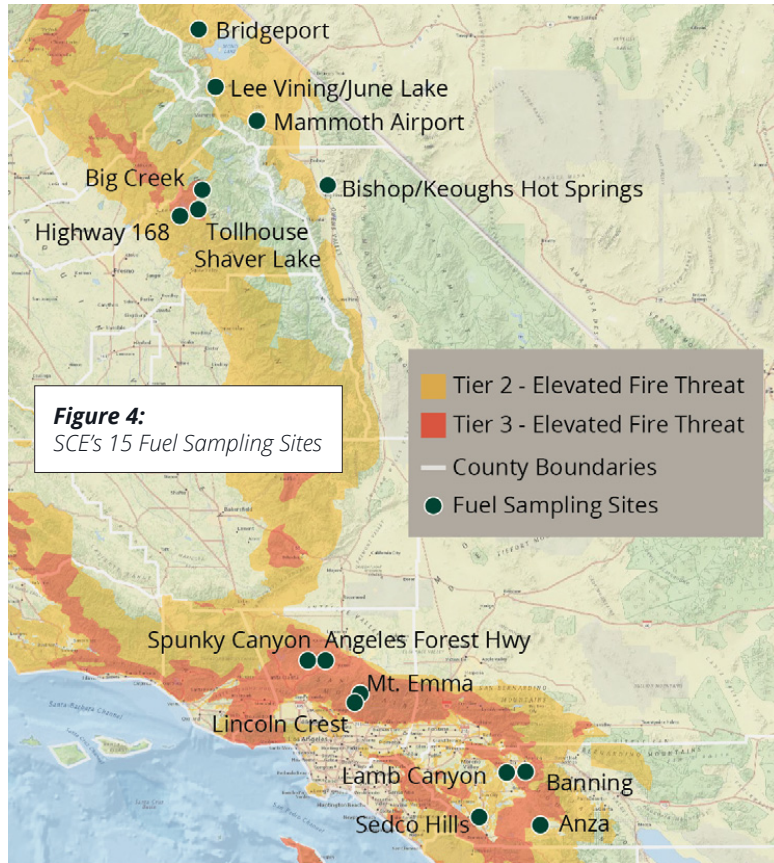
Every circuit in SCE's high fire risk area has ties to other circuits. This provides flexibility to potentially isolate customers from high fire risk areas to minimize customer impacts to the smallest extent possible. SCE develops switching plans to determine whether circuit segments could be transferred using field isolation devices. Individual circuits could have one or more switching plans to account for different weather conditions. These switching plans are used for all circuits under consideration in an event and customers can be switched both before and during events. Switching plans can be used in some situations to remove critical infrastructure from circuits under consideration for shutoff.

The switching plans include mapping the location of isolation devices, associated weather stations, mapping of any underground circuit sections and description of areas of the circuit where circuit exceptions may be applied where the conditions are not conducive to a fire start (e.g., area has covered conductor, paved roadways or no vegetation).

FUEL MOISTURE ANALYSIS

Live fuel moisture observations are obtained biweekly, year-round (weather permitting) to determine inputs for FPI calculations. Fifteen sites are sampled in four fire-prone geographic areas: the eastern Sierra (along Highway 395), the western Sierra, northern Los Angeles County and the Inland Empire (Figure 4).

Samples of native vegetation from each of the 15 sites are weighed, dried and then weighed again to determine the vegetation's moisture content. This field research targets the areas that have the greatest fire potential. The data from this fuel sampling program is used to develop and train machine-learning models to estimate live fuel moisture, which serves as one of the inputs into the FPI. SCE also uses the data to calibrate FPI by improving the accuracy of the high-resolution weather and fuel modeling output from weather vendor American Digital Systems.



Dead fuel moisture factors into the dryness level in the FPI in both 10-hour and 100-hour measures. It is calculated twice daily using the field sample data and a series of mathematical algorithms that account for precipitation as well as the diurnal variability that occurs with temperature and relative humidity.

EVENT PLANNING (FOUR TO FIVE DAYS PRIOR TO POTENTIAL SHUTOFF)

At five days before potential weather events, the meteorologists and fire science team can review the first model run of twice-daily weather and fuel forecasts from SCE's super computers to determine if established thresholds are expected to be breached.

No customers are notified at this point, given the uncertainty of longer-range forecasting.

IMT ACTIVATION (ONE TO THREE DAYS PRIOR TO EXPECTED SHUTOFF)

If forecasts predict that thresholds will be breached within one to three days, the team facilitates a forecast weather call to activate the IMT under the authorization of the incident commander.

The meteorologists produce a monitored circuit list and an associated period of concern table. The table includes a specific forecast start and end time for each circuit, broken down in three-hour time blocks.

Additional quantitative and qualitative factors are monitored in real time once circuits are identified.

As the event gets closer, the initial monitored circuit list and period of concern table are validated by the meteorologists and the fire science team. They improve the raw model using forecasting experience, other weather models and pattern recognition.

The Advanced Circuit Evaluation (ACE) team — a team of SCE engineers and analysts — develops individual de-energization thresholds for each circuit segment for the event based on the pre-assigned activation thresholds. The team assesses circuit conditions and identifies any potential issues that need to be resolved.*

EVENT MANAGEMENT PLANNING

The IMT, under the incident commander, makes staffing and resource decisions (See Complexity Factors, Table 1) and develops a unique event management plan. The plan details the de-energization thresholds and cadence of decision-making based on the complexity of the event and situational information. Managing to the plan allows the PSPS team sufficient time to process simultaneous de-energizations when multiple circuits might approach de-energization thresholds in parallel. For small scale events (up to 30 circuits in scope and limited complexity), an event management plan allows us the flexibility to make individual segment decisions as late as possible.

Table 1: Complexity Factors

Criteria	Impacts
Number of distribution circuits in scope (primary circuits)	Increased number of customer and public safety partner notifications requires coordination to ensure alignment between functional groups.
Sub-transmission circuits in scope	De-energizing sub-transmission circuits could potentially create significant customer impacts and local SCE-system reliability issues.
Transmission circuits in scope	Potential for significant customer impacts and reliability issues.
Significant number of circuits forecasted to exceed de-energization thresholds	<ol style="list-style-type: none"> 1. Requires additional staffing to support higher volume of individual de-energization decisions at the circuit segment level. 2. Stresses resource availability to manage restoration in the field.
Large number of counties/ large geographic spread	Increases resource needs. Overextends customer care resources.
Large customer count	Increases demand on customer care resources.
Customer demographics	A high number of access and functional needs customers and/or critical infrastructure providers increases level of support provided by SCE.
Complex/concurrent incidents	Intersecting impacts such as fires, extreme heat or wind-related outages require increased coordination with public safety partners.
Multi-day events	Multi-day events are a significant burden on impacted customers. Providing temporary relief requires planning and significant resources in the field.
Number of circuits close to (below) MCL criteria threshold	Risk of additional circuits that could potentially come into scope and rapidly.

* There is a small subset of circuits with 99th percentile wind speed values that are significantly higher than the NWS wind advisory cap. In instances where wind speeds are forecast to exceed the activation threshold but are not expected to come within proximity of the 99th percentile value, the incident commander may elect not to activate the PSPS protocol. We may dispatch field crews to observe the circuits for possible debris fly-ins but may not activate PSPS due to the low probability of reaching de-energization threshold values.

PRE-PATROLS IN THE FIELD

Where possible, every circuit in scope is patrolled before the arrival of the forecasted weather, unless it was already patrolled within the previous seven days. Crews visually inspect the entire length of each circuit to find any imminent hazards that require immediate remediation and provide additional up-to-date intelligence on field conditions. If maintenance concerns are discovered on a circuit in scope, repairs are expedited (if possible) before the impending wind event.

COORDINATION

SCE meets with local governments, the emergency management community and first responders to inform them about the event, including the location of circuits in scope in their jurisdictions, and to discuss any public safety concerns that should be taken into account.

Situational awareness notifications are sent to local and county jurisdictions, public safety partners and critical infrastructure providers starting at three days out.

CUSTOMER NOTIFICATIONS

Customer notifications begin 24-48 hours ahead of the forecasted weather event. Because these notifications are based on two-day-ahead forecasting at the circuit level, they lack the precision of later, in-event notifications, which will be based on real-time weather readings at the segment level. They also do not reflect in-event efforts to sectionalize circuits to reduce customer de-energizations.

IN-EVENT RISK CALCULATION

A new in-event calculator provides an event-based quantitative comparison of risk scores to inform de-energization decision making. The PSPS risk and the benefit of de-energization (wildfire risk) are modeled independently and provided to incident commanders 24 hours in advance of the period of concern. This calculator is also documented in the post-event reports required by Resolution ESRB-8.

IN-EVENT DECISION-MAKING

Three to six hours before the winds are forecasted to meet de-energization thresholds, the PSPS IMT moves from forecasting to real-time weather monitoring, using SCE's 1,050 field weather stations and other public weather stations. Every 10 minutes, SCE weather station readings are updated for each circuit. Meteorologists compare the forecast conditions to the actual conditions to identify trends that could suggest whether wind speeds are increasing or decreasing.

LIVE FIELD OBSERVATIONS

Live field observers are stationed at every circuit in scope, at least two hours before the forecasted start of the event (when feasible). Observers are trained SCE employees who monitor circuits for any possible signs of failure and for environmental conditions that could accelerate the need to turn off power, such as potential for damage from wind gusts, airborne vegetation or other flying debris. Field crews also use handheld weather stations to provide field condition readings to supplement information from fixed weather stations.

“The wildfire risks that are reduced through PSPS must be balanced against the potential public safety risks that are introduced by a temporary loss of power. SCE maintains transparent coordination with emergency management officials and other public safety partners leading up to and during PSPS events.”

ACE TEAM DECISION-MAKING PROCESS

The ACE team activates circuit switching plans to reduce the number of customers who lose power.

In-event data is gathered on a master database populated with the de-energization threshold of each circuit segment and auto-populated every 10 minutes with updated wind speeds from circuit-specific weather stations. Field input is provided to the team in real time to inform decisions. As a circuit, or segment of a circuit approaches its de-energization threshold, this team will recommend shutoffs. The incident commander will review each unique recommendation and validate using additional data, such as field reports, if necessary, before approving the decision.

IMMINENT DE-ENERGIZATION NOTIFICATIONS

In addition to other notification requirements, CPUC guidelines require notifying all customers one to four hours in advance of power shutoffs, if possible. Predicting when this window will occur in advance of changing weather conditions can be challenging. Notifying customers too early may result in over-notification: customers may receive a warning of de-energization but not lose power if wind speeds do not reach forecasted conditions. Conversely, waiting until wind speeds pick up significantly can result in missing this window and not providing customers advance notice before a power shutoff. For the 2021 fire season, we continue to refine the timing and content of our notifications to be more effective.

ADDRESSING PUBLIC SAFETY CONCERNS

The wildfire risks that are reduced through PSPS must be balanced against the potential public safety risks that are introduced by a temporary loss of power. SCE maintains transparent coordination with emergency management officials and other public safety partners leading up to and during PSPS events. The PSPS team considers how best to manage de-energizations that may impact public safety and determines if any mitigating actions can be taken to reduce the associated risk. Mitigating actions may include sectionalizing lines to minimize the amount of the line that is de-energized or temporarily providing a backup generation source to a critical facility.

Information is provided to public safety partners through a notification sequence managed by the liaison officers and enhanced by access to REST service maps. Starting in June 2021, an online public safety partner portal will provide these partners with enhanced and simplified access to information. Public safety partners have been consulted on the development of the new public safety partner portal.

Requests to delay de-energization or re-energize circuits are addressed on a case-by-case basis. Potential reasons to delay the de-energization of a circuit could include the need to power water pumps for fire suppression, evacuations in progress and critical facilities that are not equipped with sufficient backup generation.* These requests may come from fire agencies or from other emergency management agencies during an event. The incident commander has the final authority to determine a response for SCE.

PATROL AND RE-ENERGIZATION

The ACE team continues to monitor all circuits that are de-energized and watches for winds to decrease below thresholds, which will trigger patrol for reenergization. For multiday events, with gaps of even a few hours, field crews will attempt to restore customers before the second period of concern begins, even if this will require a repeat de-energization.

In most cases, field crews are standing by for patrol, which is typically accomplished within eight hours (for more than 90% of circuits). Some circuits will require foot or helicopter patrol. If possible, customers on difficult-to-patrol circuits are switched to more accessible circuits for restoration, so that circuits with no customers on them will be the last in line for restoration.

*Many critical infrastructure customers are required by law or industry standard to have back-up generation in place to sustain critical operations during a power outage, regardless of outage type. Other customers not required to have back-up generation are encouraged to consider adding this capability to meet critical needs that require electricity during a power outage.

NEXT STEPS FOR PSPS DECISION-MAKING

Lessons learned, customer feedback and the 2021 PSPS Action Plan are informing SCE's plans for improving decision-making to better serve our customers and our communities for the 2021 fire season. SCE will:

- Use fire spread predictions to estimate how large fires may grow and what their subsequent impact on nearby communities may be. Following evaluation, we will incorporate these estimations to clarify the PSPS geographic coverage to reflect true fire weather conditions more accurately.
- Improve in-house forecasting capabilities to reduce the variance between the customers who are notified of potential de-energization and the customers who are actually de-energized due to the onset of increased fire danger conditions, as well as the number of customers who lose power without prior notification.
- Acquire more computing power to increase resolution of weather and fire potential predictions. This will include doubling the forecast resolution from 2 km to 1 km, which will allow for more precise weather and fuels forecasts.

These improvements should result in adjustments to the activation and de-energization thresholds, resulting in fewer customers losing power because of PSPS. Grid hardening efforts should also reduce the number of customers who experience a PSPS outage assuming the same weather conditions as 2020.

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Online appendix (including May 2021 draft) is available at [SCE.com/PSPSDecisionmakingAppendices](https://www.sce.com/PSPSDecisionmakingAppendices)



Attachment C-PSPS Event Data Workbook



SCE Post-Event Report Data

December 07, 2024 to December 13, 2024

FILE DESCRIPTION

This file includes all tables from the Post Event Report submitted following the De-energization Event.

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SCE Post-Event Report Data

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SECTION 02: Decision Making Process

Factors Considered in Decision to De-Energize

Circuit De-energized	Sustained Wind Speed			Gust Wind Speed			Fire Potential Index (FPI)		Firecast Output Ratio
	Activation Threshold	De-energization Threshold	Actual	Activation Threshold	De-energization Threshold	Actual	Threshold	Actual	
ACOSTA	40	36.00	30.02	58	52.20	51.95	13	13.87	134.7201
ALLVIEW (DS ROWCO)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ANGUS	31	31.00	21.45	46	46.00	41.72	12	12	50.461963
ANTON	31	40.00	15.10	46	58.00	33.17	12	11.08	719.48016
ATENTO	40	38.00	39.97	58	55.10	53.41	12	13.22	99.323659
BALCOM	40	38.00	34.43	58	55.10	44.57	12	13.12	82.536458
BELPAC	33	32.90	29.42	42	42.42	43.55	12	12.12	25.774622
BIG ROCK	40	38.00	28.31	58	55.10	52.97	12	13.13	106.76441
BLACKHILLS	39	38.88	30.20	50	50.03		13	13.15	46.632129
BLUE CUT	31	29.45	24.42	46	43.70		12	12.03	883.22212
BOOTLEGGER	40	38.00	31.36	58	55.10	59.04	13	13.01	206.09925
BRENNAN	40	38.00	27.70	58	55.10	51.15	12	13.13	76.194553
BROADCAST	31	27.59	31.53	46	41.40	38.72	13	13.06	1045.9023
CABANA	40	36.00	32.79	58	52.20	46.11	13	14.05	6.7869228
CALAMAR (DS LUISENO)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
CALGROVE	40	40.00	3.41	58	58.00	15.78	12	10.09	217.64437
CALSTATE	40	36.00	33.03	58	52.20	51.07	12	13.81	252.7383
CARANCHO	28	28.14	12.58	43	43.26	22.80	12	11.25	686.18422
CASTRO	30	26.84	27.28	46	41.40	40.26	12	12.97	50.649293
CHEVELLE	40	36.00	32.77	58	52.20	48.74	13	13.78	124.01057
CONDOR	40	36.00	35.52	58	52.20	51.15	13	13.89	372.12391
CUTHBERT	38	36.50	31.90	51	48.59	45.81	12	12.54	87.02403
DALBA (DS ROWCO)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
DAVENPORT	40	38.00	30.83	58	55.10	50.20	13	13.12	288.49201
DEACON	28	26.60	24.65	40	38.30	35.29	13	13.04	28.043842
DELUZ (DS LUISENO)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
DUKE	40	38.00	28.80	58	55.10	50.49	13	13.2	134.55691
DYSART	40	36.00	31.45	58	52.20	48.30	13	14.17	3523.3466
ENERGY	40	38.00	28.31	58	55.10	52.97	12	13.13	390.64468
FINGAL (DS STUBBY)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
FIREBIRD	40	36.00	32.77	58	52.20	48.74	13	13.73	60.265519
GALAHAD	40	36.00	30.08	58	52.20	48.59	12	14.14	99.005686
GALENA	40	36.00	34.36	58	52.20	47.79	13	14.15	39.794765
GINGER	28	27.06	21.18	40	38.47	40.11	13	12.18	99.348665
GNATCATCHER	40	36.00	36.90	58	52.20	48.00	13	13.89	248.27883
GUITAR	40	38.00	31.99	58	55.10	55.31	12	13.04	925.91075
HELICOPTER	28	28.06	25.80	40	40.07	35.58	13	13.23	49.986956
HIGHBALL	31	27.90	23.57	46	41.40	38.21	13	13.16	36.577493
HILLFIELD	40	38.00	32.65	58	55.10	52.83	13	13.09	61.361649
HOOIGAN	31	29.45	20.92	46	43.70	39.89	12	12.16	32.060643
HORNTOAD	31	27.90	29.28	46	41.40	39.09	12	13.2	109.19281
LARCH	40	38.00	34.84	58	55.10	48.81	13	13.16	3686.8178
LAUDA	31	29.38	25.76	44	41.98	38.14	12	12.28	40702.563
LIMITED	31	29.45	26.54	46	43.70	36.83	12	12.24	82.211443
LIMONITE	40	37.76	34.84	51	48.77	48.81	13	13.12	12140.973
LOUCKS (DS DAVENPORT)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
LUISENO	31	27.62	23.10	44	39.54	35.58	12	13.3	21087.987
LURING (DS ROWCO)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
MAGUIRE	31	27.64	23.44	46	41.40	38.43	12	13.12	321.20509
MAMBA	31	31.00	10.18	46	46.00	24.99	13	11.17	72.013357
MERLIN	31	27.90	29.71	46	41.40	39.24	12	13.13	207.74799
METTLER	40	36.00	35.52	58	52.20	51.15	13	13.89	297.12678
MORELAND	31	29.45	20.40	46	43.70	40.92	12	12.12	32.27687
MORGANSTEIN	40	38.00	27.70	58	55.10	51.15	12	13.13	116.45124
MULHOLLAND	31	27.90	24.74	46	41.40	39.75	12	13.19	63.054657
NICHOLAS	31	31.00	28.86	46	46.00	43.99	12	11.58	54.469744
NORTH PARK	40	36.00	30.00	58	52.20	49.00	12	13.66	115.11433
ONBORD	31	29.45	21.12	46	43.70	46.25	12	12.15	210.34284
PATRIOT	31	27.90	26.24	45	40.29	37.26	12	13.22	64.141257
PENSTOCK	40	40.00	42.13	58	58.00	55.24	12	12.04	91.034443
PICONI	29	26.40	23.10	42	37.81	35.58	13	13.3	339.02046
PLATEAU	31	29.45	23.38	46	43.70	38.98	12	12.21	50.286054
PURCHASE	31	31.00	28.45	46	46.00	50.42	13	11.105	5453.6283
RAINBOW	40	40.00	40.19	58	58.00	51.59	12	11.0825	349.11062
RED BOX (DS BROADCAST)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
REIADA	31	27.90	31.03	46	41.40	46.91	12	14.14	413.9173
RESORT	29	24.39	30.00	46	39.10	47.00	12	14.06	11550.176
RICARDO	40	38.00	36.30	58	55.10	49.47	12	12.51	18.095324
ROWCO	31	29.45	27.39	46	43.70	42.89	12	12.89	29.862507
RUSTIC	31	27.90	24.73	46	41.40	38.94	12	12.96	113.90974
SAND CANYON	40	40.00	46.96	58	58.00	70.51	13	13.16	151.30257
SHOVEL	40	38.00	35.05	58	55.10	45.59	13	13.05	732.74436
STEEL (DS LAUDA)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
STORES (DS STUBBY)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
STUBBY	40	38.00	28.45	58	55.10	50.42	13	13.19	123992.24
TAGGERT	31	26.35	29.51	46	39.10	45.59	13	13.92	89.173756
TAHQUITZ	31	27.90	29.05	46	41.40	42.09	13	13.05	673.38169
TAIWAN	31	29.45	21.02	46	43.70	39.53	12	12.21	133.57675
VENGEANCE	29	25.90	27.96	44	39.63	38.43	13	13.24	52.55153
VERDUGO	31	29.45	27.40	46	43.70	48.08	13	12.07	89.397472
WINNEBAGO (DS LIMONITE)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
WOBEGONE	28	25.35	24.53	40	36.41	34.93	13	13.28	196.63952
ZONE	40	38.00	26.51	58	55.10	49.69	12	13.14	159.52503



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SECTION 02: Decision Making Process

Circuit Thresholds

Circuit	FPI Threshold Rating	Wind Speed Activation Thresholds		De-Energization Thresholds	
		Sustained Wind	Gust Wind	Sustained Wind	Gust Wind
ACOSTA	13	40.00	58.00	36.00	52.20
ALLVIEW (DS ROWCO)	N/A	N/A	N/A	N/A	N/A
ANGUS	12	31.00	46.00	31.00	46.00
ANTON	12	31.00	46.00	40.00	58.00
ATENTO	12	40.00	58.00	38.00	55.10
BALCOM	12	40.00	58.00	38.00	55.10
BELPAC	12	32.90	42.42	32.90	42.42
BIG ROCK	12	40.00	58.00	38.00	55.10
BLACKHILLS	13	38.88	50.03	38.88	50.03
BLUE CUT	12	31.00	46.00	29.45	43.70
BOOTLEGGER	13	40.00	58.00	38.00	55.10
BRENNAN	12	40.00	58.00	38.00	55.10
BROADCAST	13	30.65	46.00	27.59	41.40
CABANA	13	40.00	58.00	36.00	52.20
CALAMAR (DS LUISENO)	N/A	N/A	N/A	N/A	N/A
CALGROVE	12	40.00	58.00	40.00	58.00
CALSTATE	12	40.00	58.00	36.00	52.20
CARANCHO	12	28.14	43.26	28.14	43.26
CASTRO	12	29.82	46.00	26.84	41.40
CHEVELLE	13	40.00	58.00	36.00	52.20
CONDOR	13	40.00	58.00	36.00	52.20
CUTHBERT	12	38.42	51.15	36.50	48.59
DALBA (DS ROWCO)	N/A	N/A	N/A	N/A	N/A
DAVENPORT	13	40.00	58.00	38.00	55.10
DEACON	13	28.00	40.32	26.60	38.30
DELUZ (DS LUISENO)	N/A	N/A	N/A	N/A	N/A
DUKE	13	40.00	58.00	38.00	55.10
DYSART	13	40.00	58.00	36.00	52.20
ENERGY	12	40.00	58.00	38.00	55.10
FINGAL (DS STUBBY)	N/A	N/A	N/A	N/A	N/A
FIREBIRD	13	40.00	58.00	36.00	52.20
GALAHAD	12	40.00	58.00	36.00	52.20
GALENA	13	40.00	58.00	36.00	52.20
GINGER	13	28.48	40.49	27.06	38.47
GNATCATCHER	13	40.00	58.00	36.00	52.20
GUJAR	12	40.00	58.00	38.00	55.10
HELICOPTER	13	28.06	40.07	28.06	40.07
HIGHBALL	13	31.00	46.00	27.90	41.40
HILLFIELD	13	40.00	58.00	38.00	55.10
HOOLIGAN	12	31.00	46.00	29.45	43.70
HORNTOAD	12	31.00	46.00	27.90	41.40
LARCH	13	40.00	58.00	38.00	55.10
LAUDA	12	30.93	44.19	29.38	41.98
LIMITED	12	31.00	46.00	29.45	43.70
LIMONITE	13	39.75	51.34	37.76	48.77
LOUCKS (DS DAVENPORT)	N/A	N/A	N/A	N/A	N/A
LUISENO	12	30.69	43.93	27.62	39.54
LURING (DS ROWCO)	N/A	N/A	N/A	N/A	N/A
MAGUIRE	12	30.71	46.00	27.64	41.40
MAMBA	13	31.00	46.00	31.00	46.00
MERLIN	12	31.00	46.00	27.90	41.40
METTLER	13	40.00	58.00	36.00	52.20
MORELAND	12	31.00	46.00	29.45	43.70
MORGANSTEIN	12	40.00	58.00	38.00	55.10
MULHOLLAND	12	31.00	46.00	27.90	41.40
NICHOLAS	12	31.00	46.00	31.00	46.00
NORTHPARK	12	40.00	58.00	36.00	52.20
ONBORD	12	31.00	46.00	29.45	43.70
PATRIOT	12	31.00	44.77	27.90	40.29
PENSTOCK	12	40.00	58.00	40.00	58.00
PICONI	13	29.33	42.01	26.40	37.81
PLATEAU	12	31.00	46.00	29.45	43.70
PURCHASE	13	31.00	46.00	31.00	46.00
RAINBOW	12	40.00	58.00	40.00	58.00
RED BOX (DS BROADCAST)	N/A	N/A	N/A	N/A	N/A
REJADA	12	31.00	46.00	27.90	41.40
RESORT	12	28.69	46.00	24.39	39.10
RICARDO	12	40.00	58.00	38.00	55.10
ROWCO	12	31.00	46.00	29.45	43.70
RUSTIC	12	31.00	46.00	27.90	41.40
SAND CANYON	13	40.00	58.00	40.00	58.00
SHOVEL	13	40.00	58.00	38.00	55.10
STEEL (DS LAUDA)	N/A	N/A	N/A	N/A	N/A
STORES (DS STUBBY)	N/A	N/A	N/A	N/A	N/A
STUBBY	13	40.00	58.00	38.00	55.10
TAGGERT	13	31.00	46.00	26.35	39.10
TAHQUITZ	13	31.00	46.00	27.90	41.40
TAIWAN	12	31.00	46.00	29.45	43.70
VENGEANCE	13	28.78	44.04	25.90	39.63
VERDUGO	13	31.00	46.00	29.45	43.70

WINNEBAGO (DS LIMONITE)	N/A	N/A	N/A	N/A	N/A
WOBEGONE	13	28.17	40.45	25.35	36.41
ZONE	12	40.00	58.00	38.00	55.10



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SECTION 02: Decision Making Process

PSPS Risk vs. Benefit Comparison Tool

Circuit	All Customers	Population	APN/NRI/ Multiplier	24 Hour CWI (24 x 60)	Firecast Acres	Firecast Buildings	Firecast Population	PSPS Risk (24 hr Impact- PSPS Model)	Wildfire Risk (24hr Impact- PSPS Model)	Firecast Output Ratio
ACOSTA	2306	6918	1.24804107	1440	6926.7	825	3867	0.00048815	0.065764152	134.7201
ALIVEW (DS ROWCO)	303	909	1.01196532	1440	N/A	N/A	N/A	0.00006304	N/A	N/A
ANGUS	1599	4797	1.2755989	1440	6763.9	205	266	0.00033917	0.017115064	50.461963
ANTON	298	894	1.21131615	1440	10007	563	1408	0.00006292	0.042366141	719.48016
ATEANTO	2293	6976	1.34013026	1440	1932.9	586	2439	0.00048844	0.048513168	99.333959
BALCOM	2076	6228	1.06021695	1440	12427	434	507	0.00041347	0.035777122	82.536458
BELPAC	3204	9612	1.04256754	1440	7204.7	202	1026	0.00066813	0.017220758	25.774622
BIG ROCK	2451	7353	1.15464204	1440	6465.4	688	1365	0.00051533	0.055018815	106.76441
BLACKHILLS	1808	5424	1.18887478	1440	671.1	222	1334	0.00038109	0.017770961	46.632129
BLUE CUT	298	894	1.37537111	1440	11461	701	1431	0.00006367	0.056231755	883.22122
BOOTLEGGER	1612	4836	1.15355645	1440	15492	866	1341	0.00033890	0.069847103	206.09925
BRENNAN	2498	7494	1.13875084	1440	2814	501	1135	0.00052460	0.039971717	76.194553
BROADCAST	17	51	1.7500000	1440	5914	41	129	0.00000945	0.003901259	1045.8403
CHERRAN	2483	7449	1.10216532	1440	270.91	39	436	0.00052005	0.003525966	6.7889228
CALAMAR (DS LUSENO)	171	513	1.17923772	1440	N/A	N/A	N/A	0.00003601	N/A	N/A
CALOROVE	1179	3537	1.19456477	1440	3984.2	683	2205	0.00024861	0.054108899	217.64437
CALSTATE	608	1824	1.14396544	1440	4869.2	404	2062	0.00012773	0.032283221	292.7381
CARANCHO	516	1548	1.03729084	1440	25620	904	554	0.00010756	0.073805526	686.18422
CASTRO	2404	7212	1.24248929	1440	12603	305	598	0.00054332	0.025765005	50.649293
CHEVELLE	2249	6747	1.2019044	1440	15398	724	2128	0.00047449	0.058842075	124.01057
CONDOR	1499	4497	1.59338324	1440	13300	1524	2076	0.00032528	0.121046303	372.1291
CUTHBERT	2406	7218	1.07752528	1440	1354.2	552	706	0.00050302	0.04377440	87.02403
DALBA (DS ROWCO)	595	1785	1.10853369	1440	N/A	N/A	N/A	0.00012468	N/A	N/A
DAVENPORT	1464	4392	1.15375776	1440	17756	1105	2598	0.00031381	0.08678195	288.49201
DEACON	1977	5931	1.1058115	1440	3970	138	583	0.00041419	0.011613443	28.083842
DELIZ (DS LUSENO)	248	744	1.05423896	1440	N/A	N/A	N/A	0.00005176	N/A	N/A
DUKE	1148	3444	1.11569676	1440	10271	396	789	0.00024068	0.032385509	134.55691
DYSART	73	219	1.36463614	1440	15212	679	1305	0.00001558	0.054908304	3523.3466
ENERGY	1784	5352	1.30144801	1440	14752	1867	2661	0.00037912	0.148100204	390.64468
FINGAL (DS STUBBY)	845	2535	1.34932122	1440	N/A	N/A	N/A	0.00018019	N/A	N/A
FIREBIRD	2770	8310	1.0000000	1440	6168.9	428	1603	0.00057581	0.034701714	60.265519
GALAHAD	2221	6663	1.15933894	1440	6079.2	577	801	0.00046713	0.046248738	99.005686
GALENA	1999	5997	1.21505704	1440	1435.8	208	692	0.00042215	0.016799433	39.794765
GINGER	949	2847	1.35961515	1440	6031	246	806	0.00020252	0.020120139	99.348665
GNATCATCHER	1498	4494	1.52421362	1440	13985	1003	1329	0.00031370	0.080363121	248.79883
GUITAR	246	738	1.19826425	1440	19795	584	2434	0.00005189	0.048042856	925.91075
HELICOPTER	1796	5388	1.18539446	1440	465.21	237	792	0.00037846	0.018918208	49.986956
HIGHBALL	1672	5016	1.13318923	1440	2169.2	157	1000	0.00035094	0.012834486	36.577493
HILLFIELD	2087	6261	1.0956455	1440	1937.8	335	1762	0.00043690	0.02680916	61.361649
HOOIGAN	3209	9627	1.1502603	1440	12750	250	733	0.00067448	0.021624406	32.006643
HORNTOAD	1473	4419	1.41956453	1440	6874	427	1326	0.00031570	0.03447238	109.19281
LARCH	13	39	1.63157895	1440	1524.5	131	865	0.00064443	0.010428577	3686.8178
LAUDA	2	6	2.0000000	1440	2883.7	228	525	0.00001087	0.018173684	40702.563
LIMITED	2114	6342	1.0960735	1440	21586	428	1731	0.00044257	0.036384352	82.2114443
LIMONITE	3	9	1.0000000	1440	1180	95	307	0.00094624	0.007571445	32140.973
LOUCKS (DS DAVENPORT)	57	171	1.01236994	1440	N/A	N/A	N/A	0.00001186	N/A	N/A
LUSENO	21	63	1.95657895	1440	14032	1239	2887	0.00009244	0.098570113	21087.987
LURING (DS ROWCO)	368	1104	1.1605997	1440	N/A	N/A	N/A	0.00007741	N/A	N/A
MAGUIRE	699	2097	1.2462608	1440	3257.1	601	772	0.00014795	0.047522685	321.20509
MAMBA	2165	6495	1.09385723	1440	8156.8	400	2334	0.00045317	0.032634551	72.013357
MERLIN	1000	3000	1.12842197	1440	2019.3	552	706	0.00020986	0.043599004	207.74799
METTLER	832	2496	1.20315625	1440	13292	645	4207	0.00017555	0.052160837	297.12678
MORELAND	2075	6225	1.07113696	1440	3434.5	169	505	0.00043361	0.013995578	32.27687
MORGANSTEIN	1779	5337	1.14926006	1440	5673.8	544	1171	0.00037389	0.043540226	116.45124
MULHOLLAND	655	1965	1.29328339	1440	1073.3	109	233	0.00013909	0.008770369	63.094657
NICHOLAS	2220	6660	1.19911162	1440	3310.2	316	426	0.00046828	0.02550702	54.489744
NORTHARK	2253	6759	1.15145391	1440	4482.2	685	1331	0.00047359	0.054516846	115.11433
ONBORD	1336	4008	1.20163598	1440	12584	736	3732	0.00028186	0.059287824	210.34284
PATRIOT	2658	7974	1.0398987	1440	10209	433	752	0.00055416	0.035544549	64.141257
PENSTOCK	2129	6387	1.32160113	1440	5994.6	514	1107	0.00045309	0.041247066	91.034443
PICONI	1243	3729	1.1735578	1440	5540.3	1123	2473	0.00026171	0.088723522	339.02046
PLATEAU	2111	6333	1.22158222	1440	3243.7	277	443	0.00044602	0.022428649	50.286654
PURCHASE	97	291	1.09924828	1440	10768	1408	2888	0.00002031	0.111423485	5485.6281
RAINBOW	389	1167	1.15518071	1440	8109.4	352	895	0.00008179	0.028542799	349.11062
RED BOX (DS BROADCAST)	27	81	1.25888738	1440	N/A	N/A	N/A	0.00000572	N/A	N/A
REIDA	464	1392	1.06039458	1440	5057.4	504	1087	0.00009688	0.040102317	413.9171
RICARDO	3458	10374	1.05534807	1440	1336.8	157	957	0.00072177	0.013060742	18.095324
RESORT	6	18	1.9500000	1440	8633	55	84	0.00003000	0.005312083	3979.4239
ROWCO	1273	3819	1.43160465	1440	2886.5	97	185	0.00053820	0.008154626	29.862507
RUSTIC	3098	9294	1.20202664	1440	7766.2	933	3955	0.00065362	0.074453642	113.90974
SAND CANYON	2193	6579	1.18320018	1440	13786	868	2738	0.00046205	0.069908883	151.30257
SHOVEL	721	2163	1.1683234	1440	9141.9	1406	1454	0.00051574	0.111189416	732.74436
STEEL (DS LAUDA)	36	108	1.26122664	1440	N/A	N/A	N/A	0.00000763	N/A	N/A
STORES (DS STUBBY)	718	2154	1.10264755	1440	N/A	N/A	N/A	0.00013039	N/A	N/A
STUBBY	7	21	1.84661891	1440	1139	2403	6693	0.00057137	0.189318477	123992.24
TAGERT	633	1899	1.28051454	1440	4452.3	145	178	0.00022979	0.011977268	89.173756
TAHQUITZ	140	420	1.04411527	1440	18754	223	251	0.00002920	0.019661034	673.38169
TANWAN	688	2064	1.36908158	1440	8897.1	236	837	0.00014692	0.019625382	133.57675
VENGEANCE	1284	3852	1.09007028	1440	2370.3	174	774	0.00026869	0.014120051	52.55153
VERDUGO	3042	9126	1.09581293	1440	9875.3	706	1775	0.00063684	0.056931617	89.397472
WINNEBAGO (DS LIMONITE)	1297	3891	1.13565577	1440	N/A	N/A	N/A	0.00027232	N/A	N/A
WOBEGONE	1195	3585	1.28777105	1440	5321.1	627	1670	0.00025370	0.049888703	196.63952
ZONE	952	2856	1.17041565	1440	3644.8	401	886	0.00020039	0.03196744	159.52503

EDISON SCE Post-Event Report Data
 December 07, 2024 to December 11, 2024

SECTION 28 - De-energized Time, Phase, Duration and Customers

Event ID	Event Name	Start Time (MM/DD/YYYY)	End Time (MM/DD/YYYY)	Phase	Duration (Hours)	Customers Affected	Customers Restored	Notes
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Event ID	Event Name	Start Time (MM/DD/YYYY)	End Time (MM/DD/YYYY)	Phase	Duration (Hours)	Customers Affected	Customers Restored	Notes
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SCE Post-Event Report Data

December 07, 2024 to December 13, 2024

SECTION 05: Notifications

Breakdown of Notification Failures

Notifications sent to	Notification Failure Description	Number of Entities or Customer Counts	Explanation
Public Safety Partners excluding Critical Facilities and Infrastructure	Entities who did not receive 48-to 72-hour advance notification.	8	6 - missing authorized campaign/message sent error 2 - campaign authorized less than 48 hours, successfully sent
	Entities who did not receive 1–4-hour imminent notification.	7	missing authorized campaign/message sent error
	Entities who did not receive any notifications before de-energization.	6	missing authorized campaign/message sent error
	Entities who were not notified immediately before re-energization.	6	missing authorized campaign/message sent error
	Entities who did not receive cancellation notification within two hours of the decision to cancel.	1	campaign authorized more than 2 hours, successful delivery
Critical Facilities and Infrastructure	Facilities who did not receive 48–72-hour advance notification.	101	100 - campaign authorized less than 48 hours, successfully sent 1 - missing authorized campaign
	Facilities who did not receive 1-4 hour of imminent notifications.	93	84 - missing authorized campaign 9 - campaign authorized after de-energization
	Facilities who did not receive any notifications before de-energization.	1	missing authorized campaign
	Facilities who were not notified at de-energization initiation.	52	missing authorized campaign
	Facilities who were not notified immediately before re-energization.	63	missing authorized campaign
	Facilities who were not notified when re-energization is complete.	51	missing authorized campaign
All other affected customers	Customers who did not receive 24–48-hour advance notifications.	574	350 - campaign authorized less than 48 hours, successfully sent 201 - no contact information / message send error 23 - missing authorized campaign
	Customers who did not receive 1–4-hour imminent notifications.	5987	5613 - missing authorized campaign 10 - campaign authorized after de-energization 364 - no contact information / message send error
	Customers who did not receive any notifications before de-energization.	212	22 - missing authorized campaign 190 - no contact information / message send error
	Customers who were not notified at de-energization initiation.	2137	1718 - missing authorized campaign 419 - no contact information / message send error
	Customers who were not notified immediately before re-energization.	4833	4421 - missing authorized campaign 412 - no contact information / message send error
	Customers who were not notified when re-energization is complete.	1880	1705 - missing authorized campaign 175 - no contact information / message send error
All other affected customers	Customers who did not receive cancellation notification within two hours of the decision to cancel.	2749	80 - missing authorized campaign 21 - received deen notificaitons, was not deen, missing authorized campaign 1191 - no contact information / message send error 1457 - campaign authorized more than 2 hours from decision

Breakdown of Notification Failures (PG&E Shared Customers)

Notifications sent to	Notification Failure Description	Number of Entities or Customer Counts	Explanation
Public Safety Partners excluding Critical Facilities and Infrastructure	Entities who did not receive 48-to 72-hour advance notification.	N/A	
	Entities who did not receive 1–4-hour imminent notification.	N/A	
	Entities who did not receive any notifications before de-energization.	N/A	
	Entities who were not notified immediately before re-energization.	N/A	
	Entities who did not receive cancellation notification within two hours of the decision to cancel.	N/A	
Critical Facilities and Infrastructure	Facilities who did not receive 48–72-hour advance notification.	N/A	
	Facilities who did not receive 1-4 hour of imminent notifications.	N/A	
	Facilities who did not receive any notifications before de-energization.	N/A	
	Facilities who were not notified at de-energization initiation.	N/A	
	Facilities who were not notified immediately before re-energization.	N/A	
	Facilities who were not notified when re-energization is complete.	N/A	
All other affected customers	Customers who did not receive 24–48-hour advance notifications.	0	
	Customers who did not receive 1–4-hour imminent notifications.	0	
	Customers who did not receive any notifications before de-energization.	0	
	Customers who were not notified at de-energization initiation.	0	
	Customers who were not notified immediately before re-energization.	0	
	Customers who were not notified when re-energization is complete.	0	
All other affected customers	Customers who did not receive cancellation notification within two hours of the decision to cancel.	0	

SCC Post-Event Report Data	
Prepared by: 2014-01-20 10:00:00	



SCE Post-Event Report Data

December 07, 2024 to December 13, 2024

SECTION 07: Complaints and Claims

Count and Nature of Complaints Received

Nature of Complaints	Number of Complaints
PSPS Frequency/Duration Including, but not limited to complaints regarding the frequency and/or duration of PSPS events, Including delays in restoring power, scope of PSPS and dynamic of weather conditions.	212
Safety/Health Concern Including, but not limited to complaints regarding difficulties experienced by AFN/MBL populations, traffic accidents due to non-operating traffic lights, inability to get medical help, well water or access to clean water, inability to keep property cool/warm during outage raising health concern	64
Communications/Notifications Including, but not limited to complaints regarding lack of notice, excessive notices, confusing notice, false alarm notice, problems with getting up-to-date information, inaccurate information provided, not being able to get information in the prevalent languages and/or information accessibility, complaints about website, Public Safety Partner Portal, REST/DAM sites (as applicable)	29
Outreach/Assistance Including, but not limited to complaints regarding community resource centers, community crew vehicles, backup power, hotel vouchers, other assistance provided by utility to mitigate impact of PSPS	12
General PSPS Dissatisfaction/Other Including, but not limited to complaints about being without power during PSPS event and related hardships such as food loss, income loss, inability to work/attend school, plus any PSPS-related complaints that do not fall into any other category.	329
Total	646



SOUTHERN CALIFORNIA
EDISON[®]

SCE Post-Event Report Data

December 07, 2024 to December 13, 2024

SECTION 07: Complaints and Claims

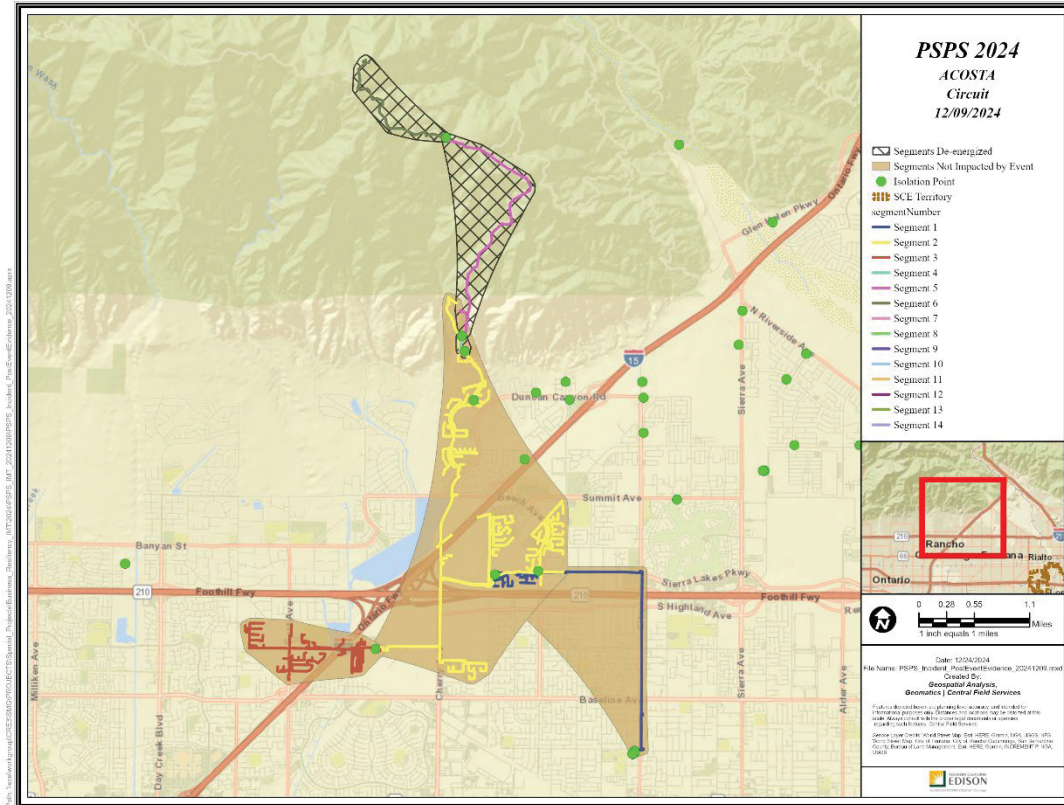
Count and Type of Claims Received

Description of Claims	Number of Claims
Food loss only	53
Property Damage	3
Food loss and property damage	1
Evacuation Cost	0
Business Interruption / Economic Loss	0
Unspecified	5
Total	62


SCE Post-Event Report Data
 December 07, 2024 to December 13, 2024

SECTION 09: Community Resource Centers					
Community Resource Center Address					
Address	Location Type	Description of the available available	Hours of Operation	Number of	Number of
				Vehicles	Vehicles
Redden Springs Community Center 27800 Redden Springs Dr. Redwood, CA 95562	CRC-Indoor	Small portable device charging (such as cell phones, laptop, and small medical devices), chairs, seasonal cooling and heating, PPS, information, snacks, water, ice or ice machines, blankets, firewood, ADA compliant restrooms and customer Restroom Facility.	12/07/2024 8PM to 10PM 12/08/2024 8AM to 10PM 12/09/2024 8AM to 10PM	15	15
Courtyard by Marriott Santa Clarita Valencia 20121 Santa Clarita Blvd Valencia, CA 91355	CRC-Indoor	Small portable device charging (such as cell phones, laptop, and small medical devices), chairs, seasonal cooling and heating, PPS, information, snacks, water, ice or ice machines, ADA compliant restrooms and customer Restroom Facility.	12/07/2024 8PM to 10PM 12/08/2024 8AM to 10PM 12/09/2024 8AM to 6:30 PM	11	11
City Town Water Park - Break Room 8010 W. Franklin St Palmdale, CA 91350	CRC-Indoor	Small portable device charging (such as cell phones, laptop, and small medical devices), chairs, seasonal cooling and heating, PPS, information, snacks, water, ice or ice machines, ADA compliant restrooms and customer Restroom Facility.	12/12/2024 8AM to 6:30 PM	11	11
Ryan Boutique de Arroyo Park Community Center 3702 San Luis Rd Cubana, CA 91301	CRC-Indoor	Small portable device charging (such as cell phones, laptop, and small medical devices), chairs, seasonal cooling and heating, PPS, information, snacks, water, ice or ice machines, ADA compliant restrooms and customer Restroom Facility.	12/07/2024 8PM to 10PM 12/08/2024 8AM to 10PM 12/09/2024 8AM to 6:30 PM	21	21
Majors Discovery Park 1800 Discovery Blvd. La Canada, CA 91011	CV	Small portable device charging (such as cell phones, laptop, and small medical devices), chairs, seasonal cooling and heating, PPS, information, snacks, water, ice or ice machines, ADA compliant restrooms and customer Restroom Facility.	12/07/2024 8PM to 10PM 12/08/2024 8AM to 10PM 12/09/2024 8AM to 6:30 PM	15	15
Courtyard by Marriott 27462 Redden Springs Redwood, CA 95562	CRC-Indoor	Small portable device charging (such as cell phones, laptop, and small medical devices), chairs, seasonal cooling and heating, PPS, information, snacks, water, ice or ice machines, ADA compliant restrooms and customer Restroom Facility.	12/07/2024 8PM to 10PM 12/08/2024 8AM to 10PM 12/09/2024 8AM to 6:30 PM	8	8
Calabasas Community Center (James A. VanDine Community Center) 20390 Camarillo Rd Calabasas, CA 91301	CRC-Indoor	Small portable device charging (such as cell phones, laptop, and small medical devices), chairs, seasonal cooling and heating, PPS, information, snacks, water, ice or ice machines, ADA compliant restrooms and customer Restroom Facility.	12/07/2024 8PM to 10PM 12/08/2024 8AM to 10PM 12/09/2024 8AM to 6:30 PM	45	45
North Valley Operations Center parking lot 2020 Mission Blvd. San Diego, CA 92109	CV	Small portable device charging (such as cell phones, laptop, and small medical devices), chairs, seasonal cooling and heating, PPS, information, snacks, water, ice or ice machines, ADA compliant restrooms and customer Restroom Facility.	12/07/2024 8PM to 10PM 12/08/2024 8AM to 10PM 12/09/2024 8AM to 6:30 PM	66	66
Riverdale County Recreation #6 parking lot 18511 10th St. Newes, CA 92567	CV	Small portable device charging (such as cell phones, laptop, and small medical devices), chairs, seasonal cooling and heating, PPS, information, snacks, water, ice or ice machines, ADA compliant restrooms and customer Restroom Facility.	12/07/2024 8AM to 10PM 12/08/2024 8AM to 6:30 PM	30	30
San Jacinto Community Center 825 S. Pico Ave. San Jacinto, CA 92533	CRC-Indoor	Small portable device charging (such as cell phones, laptop, and small medical devices), chairs, seasonal cooling and heating, PPS, information, snacks, water, ice or ice machines, ADA compliant restrooms and customer Restroom Facility.	12/07/2024 8AM to 10PM 12/08/2024 8AM to 10PM	68	68
Cal State University San Bernardino parking lot C 5000 University Plaza San Bernardino, CA 92407	CV	Small portable device charging (such as cell phones, laptop, and small medical devices), chairs, seasonal cooling and heating, PPS, information, snacks, water, ice or ice machines, ADA compliant restrooms and customer Restroom Facility.	12/07/2024 8PM to 10PM 12/08/2024 8AM to 10PM 12/09/2024 8AM to 6:30 PM	10	10
Forestry Station parking lot 18705 Hill Crest Rd Menlo Park, CA 94028	CV	Small portable device charging (such as cell phones, laptop, and small medical devices), chairs, seasonal cooling and heating, PPS, information, snacks, water, ice or ice machines, ADA compliant restrooms and customer Restroom Facility.	12/07/2024 8AM to 10PM 12/08/2024 8AM to 10PM	35	35
Robert F. Johnson Senior / Community Center 9200 Redwood Springs Rd. Redwood Springs, CA 92381	CRC-Indoor	Small portable device charging (such as cell phones, laptop, and small medical devices), chairs, seasonal cooling and heating, PPS, information, snacks, water, ice or ice machines, ADA compliant restrooms and customer Restroom Facility.	12/07/2024 8AM to 10PM 12/08/2024 8AM to 6:30 PM	168	168
Hedding Court 19555 Hutton Lane, #101 San Bernardino, CA 92408	CRC-Indoor	Small portable device charging (such as cell phones, laptop, and small medical devices), chairs, seasonal cooling and heating, PPS, information, snacks, water, ice or ice machines, ADA compliant restrooms and customer Restroom Facility.	12/07/2024 8PM to 10PM 12/08/2024 8AM to 10PM 12/09/2024 8AM to 6:30 PM	5	5
Hedding Court 10100 Hutton Ln., #108 Victorville, CA 92395	CRC-Indoor	Small portable device charging (such as cell phones, laptop, and small medical devices), chairs, seasonal cooling and heating, PPS, information, snacks, water, ice or ice machines, ADA compliant restrooms and customer Restroom Facility.	12/07/24 8AM to 2:30 PM	7	7
Fair Peaks Recreation Complex 271 Gardenia Rd. Fair Peaks, CA 92331	CRC-Indoor	Small portable device charging (such as cell phones, laptop, and small medical devices), chairs, seasonal cooling and heating, PPS, information, snacks, water, ice or ice machines, ADA compliant restrooms and customer Restroom Facility.	12/07/2024 8AM to 10PM 12/08/2024 8AM to 1:30 PM	7	7
Arroyo Vista Recreation Center, Magistrate Room 10100 Sierra Blvd #101 Menlo Park, CA 94021	CRC-Indoor	Small portable device charging (such as cell phones, laptop, and small medical devices), chairs, seasonal cooling and heating, PPS, information, snacks, water, ice or ice machines, ADA compliant restrooms and customer Restroom Facility.	12/07/2024 8PM to 10PM 12/08/2024 8AM to 10PM 12/09/2024 8AM to 6:30 PM	6	6
Fillmore Active Adult Center 1313 Santa Clara Ave. Fillmore, CA 93015	CRC-Indoor	Small portable device charging (such as cell phones, laptop, and small medical devices), chairs, seasonal cooling and heating, PPS, information, snacks, water, ice or ice machines, ADA compliant restrooms and customer Restroom Facility.	12/07/2024 8PM to 10PM 12/08/2024 8AM to 10PM 12/09/2024 8AM to 10PM	61	61
San Valley Senior Center 6000 Avenida Loma San Valley, CA 93043	CRC-Indoor	Small portable device charging (such as cell phones, laptop, and small medical devices), chairs, seasonal cooling and heating, PPS, information, snacks, water, ice or ice machines, ADA compliant restrooms and customer Restroom Facility.	12/07/2024 8PM to 10PM 12/08/2024 8AM to 10PM 12/09/2024 8AM to 10PM	94	94
Thousand Oaks, 108 75 W. Thousand Oaks Blvd. Thousand Oaks, CA 91320	CRC-Indoor	Small portable device charging (such as cell phones, laptop, and small medical devices), chairs, seasonal cooling and heating, PPS, information, snacks, water, ice or ice machines, ADA compliant restrooms and customer Restroom Facility.	12/07/2024 8PM to 10PM 12/08/2024 8AM to 10PM 12/09/2024 8AM to 6:30 PM	16	16

Attachment D-PSPS Maps of Mitigated Circuits (Continued in Separate PDF)



Officer Verification

I am an officer of the applicant corporation herein and am authorized to make this verification on its behalf. I am informed and believe that the matters stated in the foregoing document are true.

I declare under penalty of perjury that the foregoing is true and correct. Executed this 27th day of December 2024 in La Canada, California.

DocuSigned by:

F364FA6A2912409... _____

Shinjini Menon

Senior Vice President,

System Planning & Engineering