



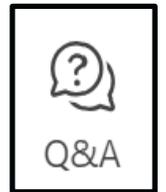
SOUTHERN CALIFORNIA
EDISON[®]

OUR
COMMITMENT
TO CALIFORNIA
KEEPING OUR
COMMUNITIES SAFE



WELCOME - HOUSEKEEPING

- Thank you for joining us this evening.
- This meeting is being recorded.
- Please note, the camera, microphone, and reaction settings are disabled for this event.
- To add closed captioning, please click the three dots found at the top right of the tool bar. In the dropdown menu, select turn on live captions.
- If you have any questions or technical issues, please email us at **SCE Wildfire Safety Outreach**: wildfireoutreach@sce.com
- To submit a question, Click the Q&A icon in ribbon and select "ask a question."



AGENDA

PROGRAM	TIME	TOPIC	PRESENTER
6:00 p.m.	3 min	Welcome Safety Introductions	Vice President, Customer Experience & Performance Christine Fanous
6:03 p.m.	2 min	Fire Chief Brief Welcome	Fire Chief, Orange County Fire Authority Brian Fennessy
6:05 p.m.	5 min	A Message From Our Leadership	Vice President, Customer Experience & Performance Christine Fanous
6:10 p.m.	10 min	Meteorology & Fire Science	Fire Science Expert, Meteorology Tom Rolinski
6:20 p.m.	15 min	PSPS Operations Update	Senior Advisor, Wildfire PSPS Response, Business Resiliency Jude Schneider
6:35 p.m.	10 min	Customer Programs & Resources	Senior Manager, Customer Support & Accessibility Rosa Perea
6:45 p.m.	15 min	Wildfire Safety Grid Hardening	Director, Asset & System Intelligence Raymond Fugere
7:00 p.m.	25 min	Q&A	Senior Manager, Customer Support & Accessibility Rosa Perea
7:25 p.m.	5 min	Closing Remarks	Vice President, Customer Experience & Performance Christine Fanous

FIRE CHIEF ORANGE COUNTY FIRE AUTHORITY

[Welcome Video](#)



Chief Brian Fennessy

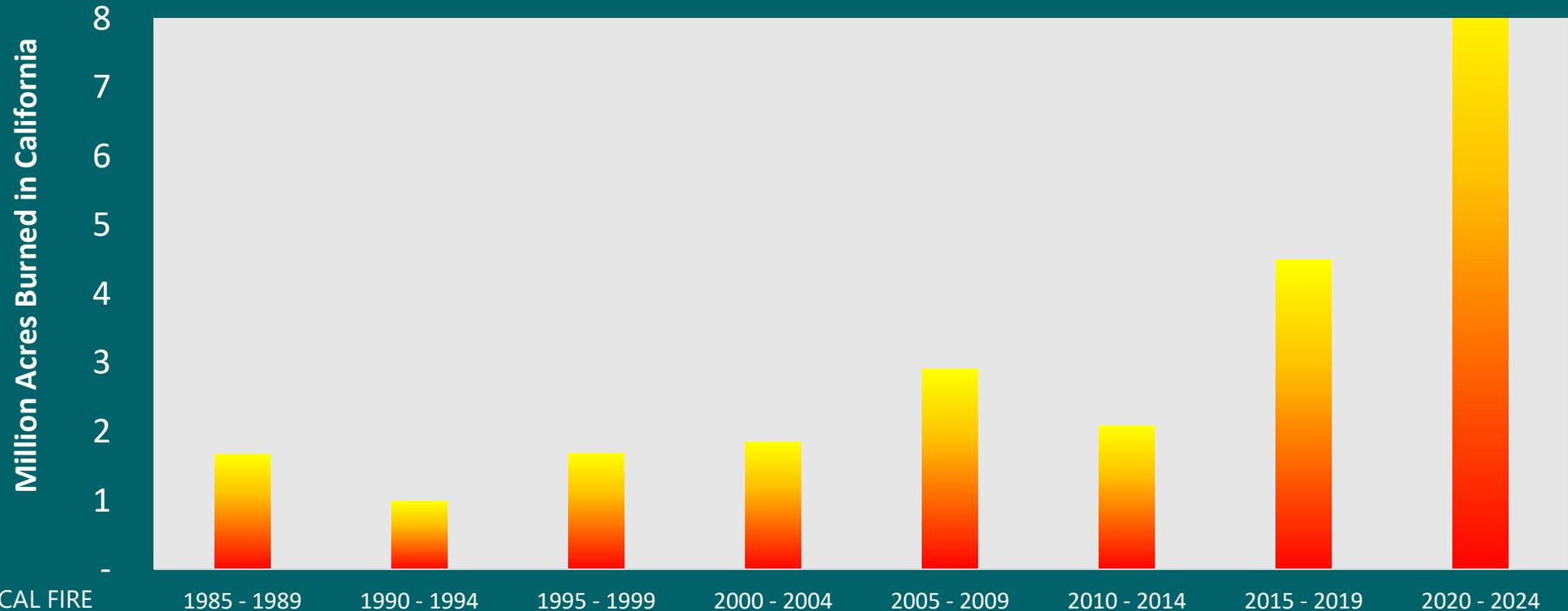
ABOUT PSPS

PSPS helps prevent wildfires during dangerous weather by reducing the risk associated with wind and flying debris hitting our power lines or damaging our equipment.

We base PSPS decisions on data gathered from fire scientists and meteorologists forecasting dangerous wildfire conditions (**strong winds, very dry plants and grass** and **low humidity**), and on real-time information from crews in the field.



ACRES BURNED IN CALIFORNIA HAVE SIGNIFICANTLY INCREASED OVER THE PAST 10 YEARS



Source: CAL FIRE

METEOROLOGY & FIRE SCIENCE

Tom Rolinski

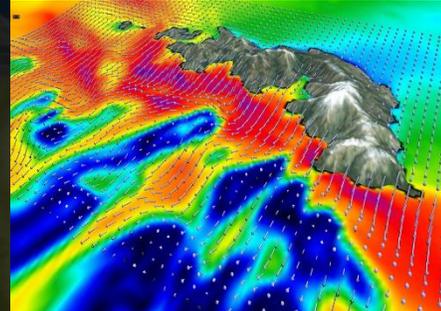
BOLSTERING SITUATIONAL AWARENESS CAPABILITIES



Weather Stations

sce.com/weatherstations

~1,870 weather stations provide wind speed, humidity and temperature data. Expanding artificial intelligence and machine learning capabilities for improved forecasting



Weather Modeling

Continuing to improve weather modeling and incorporating machine learning capabilities to weather stations to enhance weather forecasts



Fuel Sampling

fems.fs2c.usda.gov

16 fuel sampling sites measuring vegetation moisture biweekly and 3 sites quarterly to help determine dry fuel conditions. Using data to train fuel moisture model to enhance operations



Wildfire HD Cameras

ops.alertcalifornia.org

200 cameras that provide thorough visibility in high fire risk areas to monitor wildfire conditions. Equipping cameras with artificial intelligence capabilities to detect wildfires

MONITORING FOR PSPS CONDITIONS

More than **1,800** weather stations in and near HFRA



Circuits meeting wind speed and fire potential criteria are flagged for potential PSPS

SCE weather stations report weather conditions every 10 minutes

Meteorologists and the operations team monitor the weather stations for real-time information at the circuit and segment level

dps.alertcalifornia.org

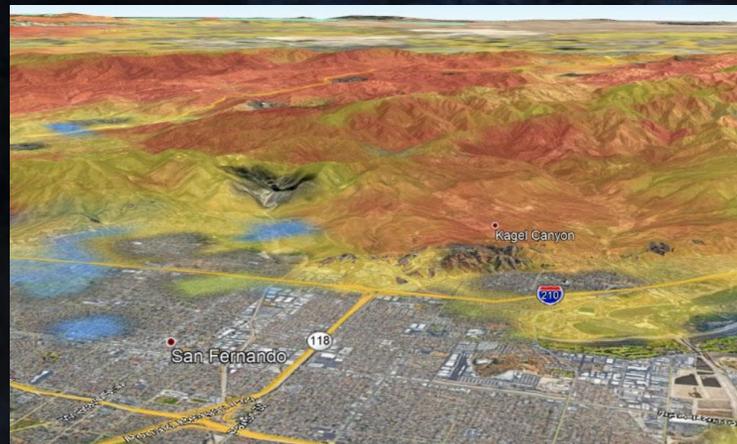
Segment Name	Limit	Timestamp	Wind Triqger	Gust Triqger	FPI Threshold	Wind Speed	Gust Speed	FPI
<input type="checkbox"/> Birchim_6	103.1%	2025-03-27 15:30:00	29.4	43.7	13	26.3	47.4	12.18
<input type="checkbox"/> Birchim_2	76.7%	2025-03-27 15:30:00	27.9	41.4	13	21.2	35.3	12.83
<input type="checkbox"/> Canebrake_5	119.4%	2025-03-27 15:27:00	31	46	13	37	52	6.04
<input type="checkbox"/> Birchim_4	112.9%	2025-03-27 15:30:00	29.4	43.7	13	30.8	52	11.84
<input type="checkbox"/> Rayburn_1	106.6%	2025-03-27 15:30:00	31	46	13	33	41.2	3.08
<input type="checkbox"/> Rayburn_3	106.6%	2025-03-27 15:30:00	31	46	13	33	41.2	3.08
<input type="checkbox"/> Rayburn_4	106.6%	2025-03-27 15:30:00	31	46	13	33	41.2	3.08
<input type="checkbox"/> Mcgee_2	102.6%	2025-03-27 15:30:00	31	46	13	30.9	47.2	10.97
<input type="checkbox"/> Mcgee_1	101.7%	2025-03-27 15:30:00	31	46	13	30.8	46.8	10.97

FIRE SPREAD MODELING

SCE can simulate fire spread for current – or potential – incidents based on forecasted weather and fuels information. These simulations can help identify when certain assets may be affected by a fire, or what impacts a fire may have on nearby communities. In addition, fire size potential, risk, and consequence can be calculated across the SCE service area each day by running millions of fire simulations in a cloud environment.



Single Fire Simulation



Fire Size Potential



Buildings Impacted

PAST AND FUTURE WEATHER

2022

Intermittent precipitation decreased fire concerns

Fewer than average PSPS events:

Occasional precipitation throughout the summer and fall prevented the vegetation from becoming critically dry during the start of Santa Ana wind season.

2023

Higher than normal precipitation and lower than normal wind events

Fewer than average PSPS events:

Remnants of Hurricane Hillary brought record breaking rain at the end of August leading to much higher-than-normal moisture levels in the vegetation at the start of the Santa Ana wind season. In addition, there were fewer wind events in the fall.

2024

Drier than normal with average number of wind events

More PSPS than previous years:

The lack of precipitation throughout the year along with a greater than normal number of Santa Ana wind events in the fall.

Q1 2025

Windy and dry weather extended into the first part of the year

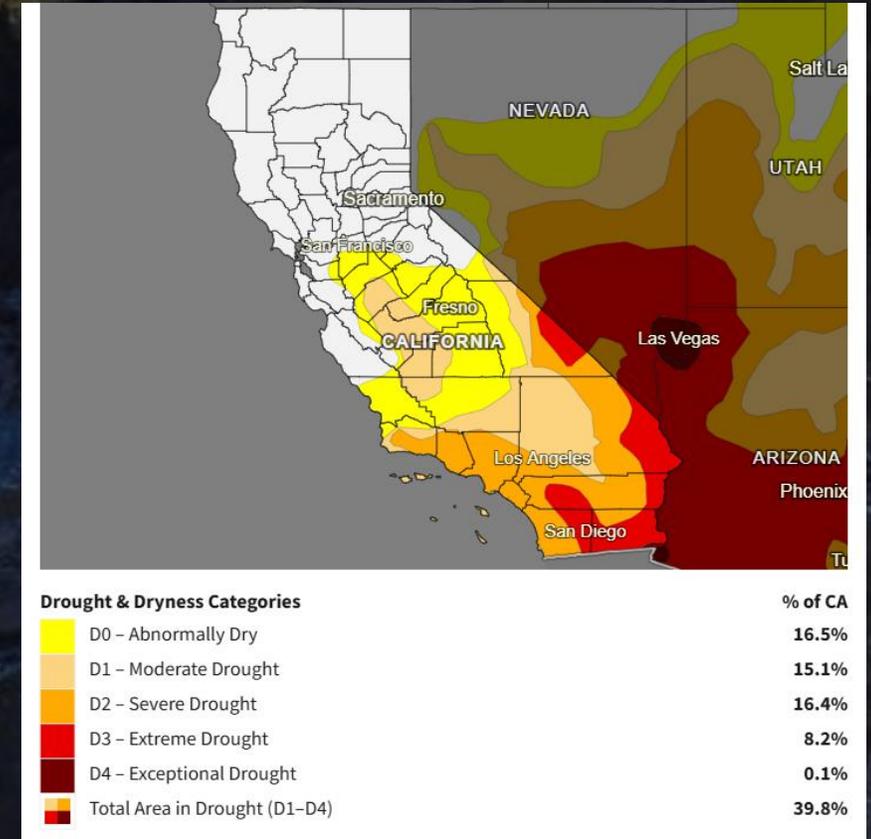
Continued PSPS season:

Dry and windy conditions at the start of 2025 led to the continuation of PSPS events.

2025 WEATHER AND WILDFIRE FORECAST

Weather, Fuels, & Fire Potential Highlights

- No widespread significant precipitation is anticipated across the service area until late in the fall
- Drought conditions are expected to worsen and expand across more of the service area
- Thunderstorms could be more frequent and more numerous over the mountains and deserts this summer, but they are not expected to improve drought or fuel conditions
- Most vegetation types have dried out and will support larger fire activity.
- Fire activity will continue to increase across the region, with larger fires (multi-thousand acres) becoming more common by late June.
- We are already engaged in small/medium PSPS events.



PSPS OPERATIONS UPDATE

Jude Schneider

UPDATES TO PSPS PROGRAM

FPI AND WINDSPEED CRITERIA REFINEMENTS

- Updated criteria and windspeed thresholds
- More PSPS activations in 2025 likely
- Potentially 20-40% more PSPS activations in 2025 and outage events may be up to twice as large (assuming similar weather to 2024)

NEW HFRA CIRCUITS AND EXPANDED BOUNDARIES

- 32 new circuits and ~47,000 more customer accounts now in HFRA and in scope for PSPS
- Expanded precautionary boundaries around HFRA; up to ~123,000 more customer accounts could be in scope for PSPS
- Includes areas and customers that have not experienced PSPS in the past

24/7 MONITORING AND ALERT SYSTEM

- Capturing unexpected weather (outside of current PSPS activation) meeting PSPS de-energization thresholds
- Circuits could be de-energized immediately at any time, day or night
- IMT activation and notifications would follow

EXECUTING PSPS EFFECTIVELY: THRESHOLDS FOR ACTIVATION AND DE-ENERGIZATION

FIRE POTENTIAL INDEX (FPI)

Formula estimates the potential of fire ignition and spread



THRESHOLDS FOR DISTRIBUTION CIRCUITS

Currently set in the elevated range in most areas contingent on fire suppression resources availability

WINDSPEED THRESHOLD FOR ACTIVATION

Wind speeds at which our system is vulnerable to flying debris or that pose a risk to our infrastructure



Bare wire circuits: National Weather Service's Wind Advisory of sustained windspeeds of 31 mph or gusts of 46 mph.

Fully covered conductor circuits: National Weather Service's High Wind Warning of sustained windspeeds of 40 mph or gusts of 58 mph.

Wind speeds determined separately for each circuit based on specific risks of the event. If actual conditions suggest more risk, or in large-scale events when many circuits are under consideration for shutoffs, the de-energization thresholds will be lowered (discounted), meaning power on a circuit will be turned off at lower wind speeds.

Technical paper and fact sheet available at [sce.com/psps](https://www.sce.com/psps)

PSPS NOTIFICATION TIMELINE

**4-7 DAYS
AHEAD**

SCE begins planning for potential PSPS

**3 DAYS
AHEAD
WHEN
POSSIBLE**

SCE Incident Management Team activated.
Initial notification sent to all customers and Public Safety Partners

**2 DAYS
AHEAD**

Update notification sent

**1 DAY
AHEAD**

Update notification sent

**1-4 HOURS
BEFORE
SHUTOFF**

Expected shutoff notification



PLANNING AND MONITORING

**POWER
SHUTOFF**

Notification when authorized

**NOTICE
IMMEDIATELY
PRIOR TO FOR
RE-ENERGIZATION**

Notification before re-energization occurs

**POWER
RESTORATION**

Notification power restored after inspection



OUTAGE

FIELD OPERATIONS

Types of Field Deployment During a PSPS Activation:

Pre-Patrol

- Look for hazards that could present imminent danger to equipment or could be a potential fire risk
- Identify if equipment conditions are deteriorating

Live Field Observers (LFOs)

- Observe field conditions
- Monitor winds
- Assess damage

Up to 5 days
before the
period of
concern

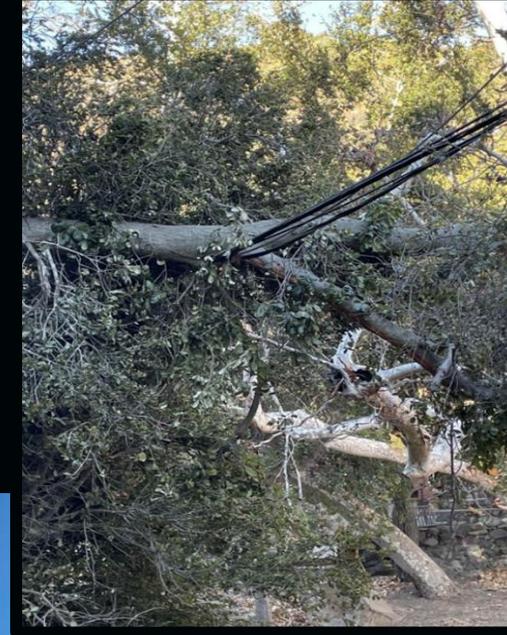
2 hours
prior and
during the
period of
concern



RESTORATION

Restoration typically takes up to 8 hours once a circuit is cleared for inspection. There could be delays if the conditions are dangerous, or if damage is found.

Remote circuits require helicopter or foot patrols that can only be completed in daylight, which may lead to additional delays.



These photos are from the January 4, 2025, post-event report (PER) posted on the CPUC website. PERs can be found on the [CPUC's website](#)

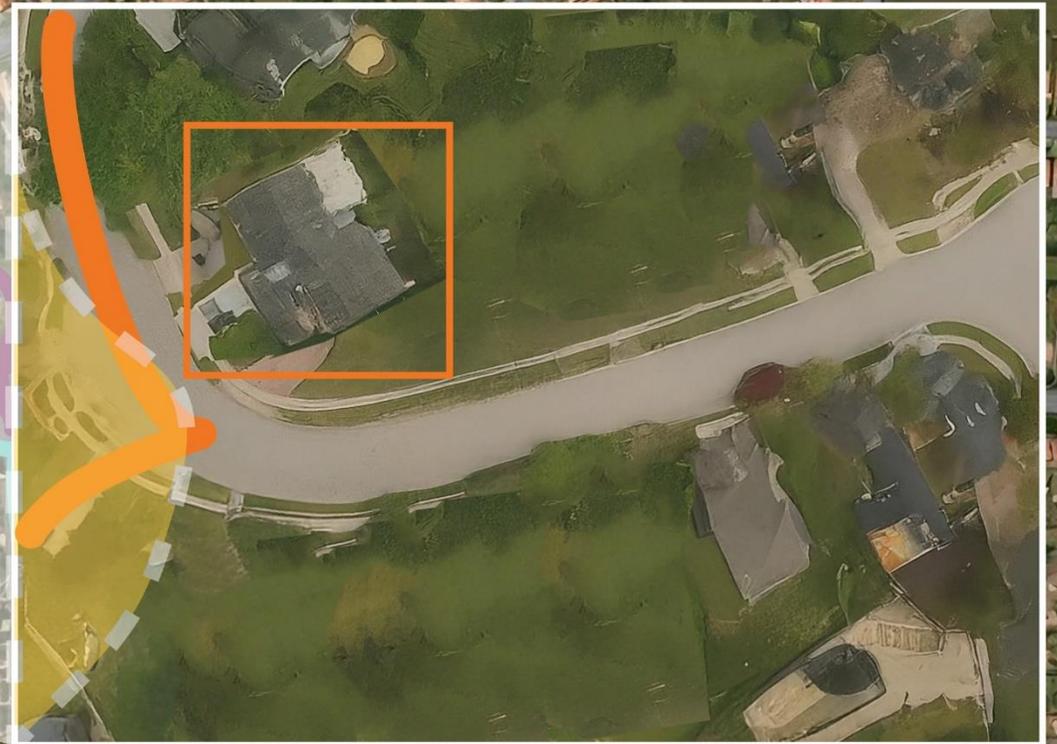


Video: [Re-Energizing Lines after a PSPS Activation](#)

WHY DOES MY NEIGHBOR HAVE POWER WHEN I DON'T?

Yellow shaded area is Tier 2 HFRA

AI-generated image for illustrative purposes



PARTNERING WITH LOCAL FIRE AGENCIES

- Year-round support for the quick reaction force of aerial firefighting assets in SCE's service area, including the world's largest helitankers
- Continued partnerships with Orange, Los Angeles and Ventura county fire agencies
- All jurisdictions in SCE's service area can request the support of the quick reaction force

UNIQUE NIGHT-TIME FIREFIGHTING CAPABILITY



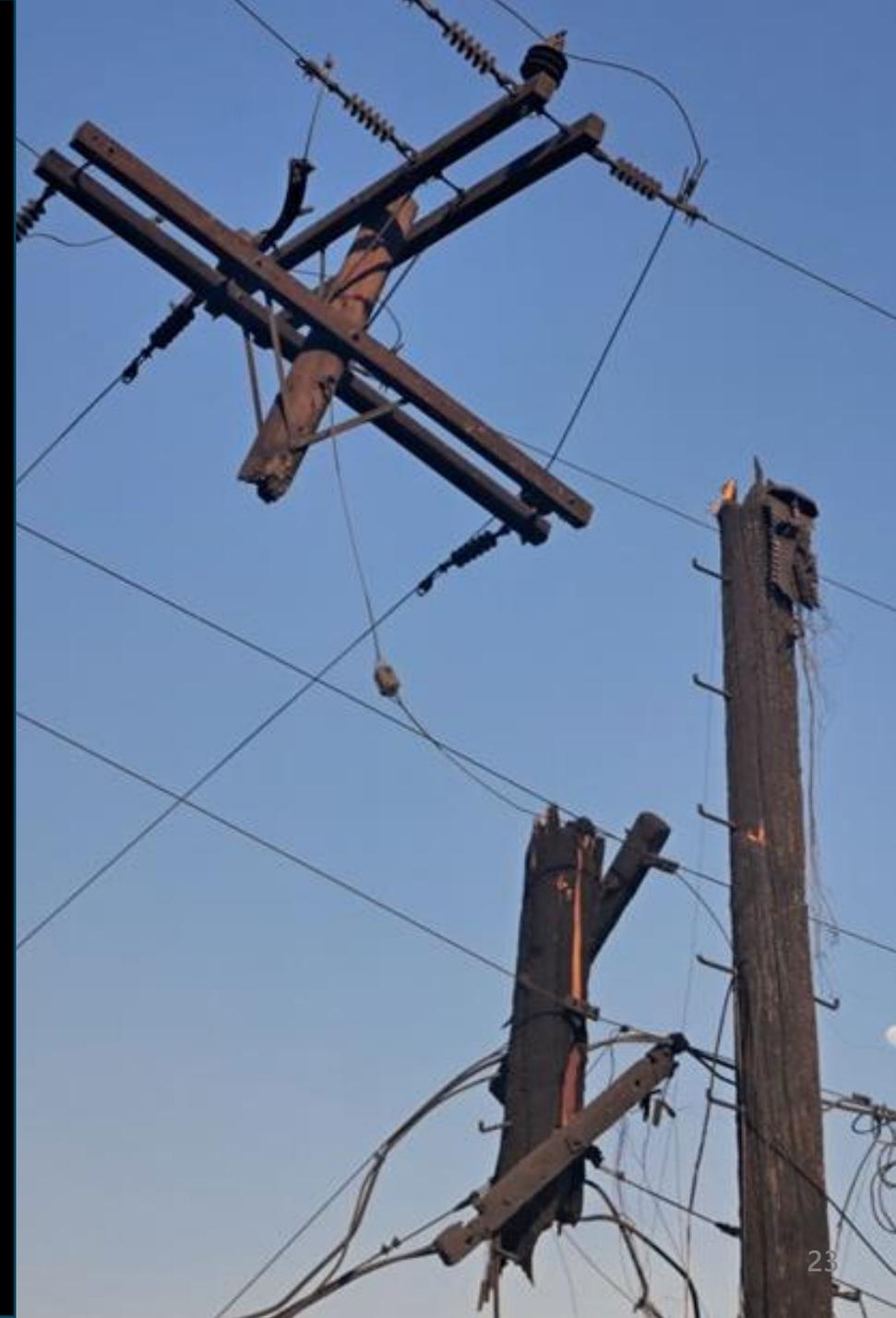
CUSTOMER PROGRAMS & RESOURCES

Rosa Perea

PARTNERING FOR PREPAREDNESS

How we can work together to improve community resiliency:

- Learn about and share information about available customer support programs
- Improve your personal and commercial resiliency and emergency preparedness
- Update household and emergency contact information
- Stay informed:
 - Visit [sce.com/PSPS](https://www.sce.com/PSPS) during PSPS events
 - Attend wildfire safety community meetings
 - Look for our annual PSPS newsletter sent to all customers in HFRA



PSPS CUSTOMER PROGRAMS & RESOURCES

IN-EVENT CUSTOMER PROGRAMS

- Community Resource Centers offer information, mobile and portable medical device charging, PSPS outage alert enrollment support, access to water, snacks, ice and insulated cold bags for medications
- Referrals to 211 and food banks for customers with access and functional needs
- Disability Disaster Access and Resources (DDAR) to help elderly customers or those with disabilities to find hotels or rides
- Secondary notification, for all medical baseline and critical care customers (who cannot be reached through their provided contact information)



RESILIENCY PROGRAMS

- DDAR provides support for customers before, during, and after PSPS
- Critical Care Backup Battery (CCBB) program provides eligible customers with a portable backup battery to power a medical device during a PSPS event
- In-Event Loan Battery Pilot supports customers during PSPS activation that have not enrolled in CCBB
- Rebates on portable batteries and generators for customers residing in high fire risk areas are available on marketplace.sce.com

PSPS PREPAREDNESS

IMPORTANT TIPS & REMINDERS

- Learn if you or your family members qualify for Medical Baseline or Critical Care programs
- Keep important phone numbers nearby (hospital, doctor, relatives, etc.)
- Learn how to manually open automatic garage doors or gates
- Familiarize yourself with your home's utility boxes and how to turn them off
- Consult with a licensed electrician before installing a home generator
- Create a family safety preparedness plan

DOWNLOADABLE EMERGENCY PREPAREDNESS GUIDES

- sce.com > Outage Center > Outage Tips > Outage Information Kit
- Redcross.org – American Red Cross
- Caloes.ca.gov – California Governor's Office of Emergency Services
- Ready.gov – US Department of Homeland Security



First Aid Kit

Remember to include prescription medications and check the expiration dates



Bottled Water

At least a gallon per person per day



Flashlights

Store them where you can easily find them



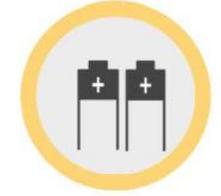
External Rechargeable Battery Pack

These can be used to charge cell phones and other electronic devices



Battery-Operated or Hand-Crank Radio

Radios can be used to access news reports during an emergency event



Fresh Batteries

Have extra batteries for all battery-powered equipment



Non-perishable Food

Choose items that don't require cooking or heating, and have a manual can opener



Special-Needs Items

This includes items for infants, the elderly, the disabled, or pets



Coolers or Ice Chests

Have a few to store ice in case of a lengthy outage

PSPS COMMUNICATIONS

Notifications

- SCE provides PSPS notifications through various communication channels
 - SCE account holders (email, text, and voice call)
 - Address level alerts
- Manage outage notifications and ensure information is current in the customer preference center
- Non-customers can sign up for PSPS address alerts at scepss.com

SCE Outage Map

- Consolidated outage map that incorporates PSPS outages at sce.com/outagemap

WILDFIRE MITIGATION & GRID HARDENING

Ray Fugere

HARDENING ELECTRIC GRID & INFRASTRUCTURE



COVERED CONDUCTOR

Replacing bare wire with covered conductor to reduce faults and ignition risk from contact from objects as well as safely raise windspeed thresholds for PSPS in targeted areas. More than 6,450 miles of covered conductor installed since 2018.



FIRE RESISTANT POLES & WRAPS

Installing mix of composite poles and wooden poles with fire-resistant wrap to reduce risk of damaged poles during an emergency. Expanding the deployment of fire-resistant wrap on structures.



PROTECTIVE DEVICES

Using faster grid protection settings to interrupt electric current more quickly when there's an electrical fault, remote-controlled sectionalizing devices to segment and isolate portions of circuits during PSPS events and deploying Rapid Earth Fault Current Limiter (REFCL) to instantly reduce energy released from a downed line.



TARGETED UNDERGROUNDING

Undergrounding in targeted high fire areas and based on risk criteria and feasibility, nearly eliminating wildfire and PSPS risks associated with electric facilities. About 40 miles of undergrounding completed since 2021.



TRANSMISSION HARDENING

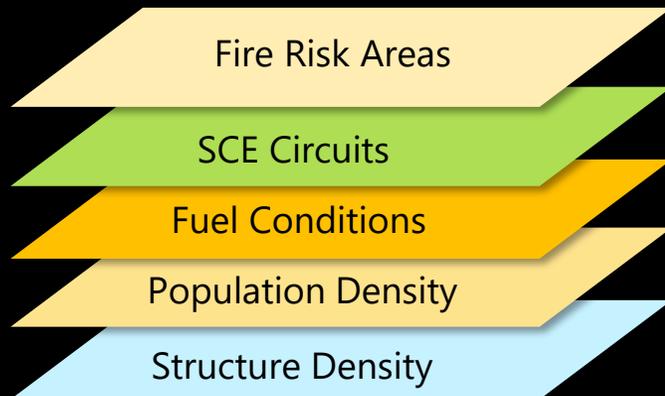
Expanding and evaluating strategies to address ignition risks on the higher voltage transmission system and increase system robustness.

INTEGRATED WILDFIRE MITIGATION STRATEGY PROCESS FLOW

SCE MODEL IDENTIFIES POTENTIAL OUTCOMES IF A FIRE IS IGNITED

Potential outcomes include extent a fire will spread and safety, financial and other impacts

Information used in model includes:



CONSEQUENCE MODEL IDENTIFIES AND PRIORITIZES RISKIEST AREAS

Severe Risk Area: Exit, entry constraints; extreme high wind area; extreme consequence areas

High Consequence: Locations that meet 300-acre consequence threshold at 8 hours or at risk of Public Safety Power Shutoff

Other HFRA: Locations that are not in a Severe Risk Area and do not meet High Consequence criteria

VALIDATE/REVISE MITIGATION SELECTION THROUGH EXPERT REVIEWS

Mitigation selection based on: Inspection photos, satellite images, other data

Location specific conditions: Weather conditions, terrain, topography, community factors

Scope prioritization relies on: Risk, including likelihood of ignition, consequence, PSPS risk

Operations: Timeline to deploy mitigation, resource availability

REDUCING WILDFIRE RISKS & PSPS IMPACTS – BY THE NUMBERS

6,450+ MILES
OF COVERED CONDUCTOR



2.5 MILLION+
TRIMS AND REMOVALS



1.5 MILLION+
HFRA INSPECTIONS



~1,870
WEATHER STATIONS

~200
HD CAMERAS



Completed in high fire risk areas since 2018



IMPROVED PSPS EXECUTION & CUSTOMER SUPPORT

- **70** Community Resource Centers locations and **8** Community Crew Vehicles available
- Deployed **17,200+** Critical Care Back-up batteries to Medical Baseline customers

Q & A

Review Questions In the Chat

HELPFUL INFORMATION & RESOURCES

SCE Wildfire Webpage – [sce.com/wildfire](https://www.sce.com/wildfire)
PSPS Webpage – [sce.com/psps](https://www.sce.com/psps)

SCE Notifications

- Sign up for PSPS alerts – [sce.com/pspsalerts](https://www.sce.com/pspsalerts)
- Sign up for the Energized by Edison Wildfire Mitigation Newsletter – energized.edison.com/newsletter

Situational Awareness

- SCE outage map – [sce.com/outagemap](https://www.sce.com/outagemap)
- PSPS information – [sce.com/psps](https://www.sce.com/psps)
- PSPS decision making – [sce.com/pspsdecisionmaking](https://www.sce.com/pspsdecisionmaking)
- Role of weather in PSPS – [sce.com/fireweather](https://www.sce.com/fireweather)
- Weather awareness for PSPS – [sce.com/wildfire/weather-awareness](https://www.sce.com/wildfire/weather-awareness)
- Weather & fire detection map – [sce.com/wildfire/situational-awareness](https://www.sce.com/wildfire/situational-awareness)
- Wildfire cameras – alertcalifornia.org
- Weather stations – [sce.com/weatherstations](https://www.sce.com/weatherstations)
- CPUC high fire threat district maps – ia.cpuc.ca.gov/firemap/

Preparedness

- SCE emergency preparedness – [sce.com/safety/family/emergency-tips](https://www.sce.com/safety/family/emergency-tips)
- CAL FIRE preparedness – readyforwildfire.org

Vegetation Management

- Vegetation Management – [sce.com/safety/power-lines](https://www.sce.com/safety/power-lines); contact 1-800-655-4555 or safetrees@sce.com

Targeted Undergrounding

- Targeted Undergrounding – [sce.com/tug](https://www.sce.com/tug); contact 1-888-331-0010 or SCEprojects@sce.com

Customer Programs & Rebates

- SCE Customer Programs & Resources – [sce.com/customerresources](https://www.sce.com/customerresources)
- SCE Marketplace (rebates and programs) – marketplace.sce.com
- SCE Critical Care Backup Battery Program – [sce.com/ccbb](https://www.sce.com/ccbb)
- SCE Access & Functional Needs Resources – [sce.com/afn](https://www.sce.com/afn)
- SCE Medical Baseline Program – [sce.com/medicalbaseline](https://www.sce.com/medicalbaseline)
- Self Generation Incentive Program (SGIP) – [sce.com/sgip](https://www.sce.com/sgip) or selfgenca.com
- SCE Income Qualified Programs: [sce.com/iqp](https://www.sce.com/iqp)
- SCE Customer Support: 1-800-655-4555

Community Meetings

- Join SCE's wildfire safety community meetings – [sce.com/wildfiresafetymeetings](https://www.sce.com/wildfiresafetymeetings)

Energized by Edison

- Stories and videos on SCE's wildfire safety efforts – [edison.com/wildfire-safety](https://www.edison.com/wildfire-safety)
- Corrections to recent articles & online content - [edison.com/edison-for-the-record](https://www.edison.com/edison-for-the-record)

THANK YOU

Please take a moment
to fill out our brief survey.



Contact Email:
SCE Wildfire Safety Outreach
wildfireoutreach@sce.com

Have a great evening!

