

# WELCOME - HOUSEKEEPING

Thank you for joining us this evening.

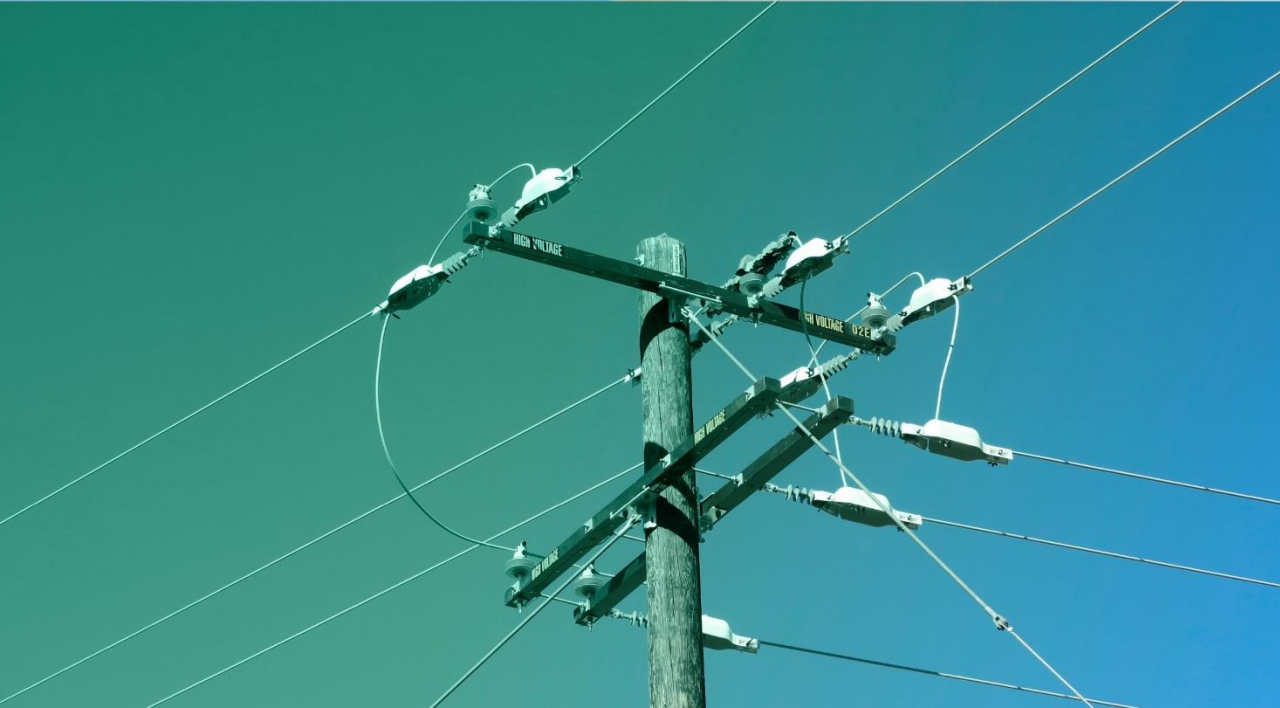
This meeting is being recorded.

Please note, your camera, microphone, and reactions are disabled for this meeting.

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.

To submit a question, use the **Q&A window** throughout the session.

Please only submit questions that are relevant to the presentation and topics being presented.



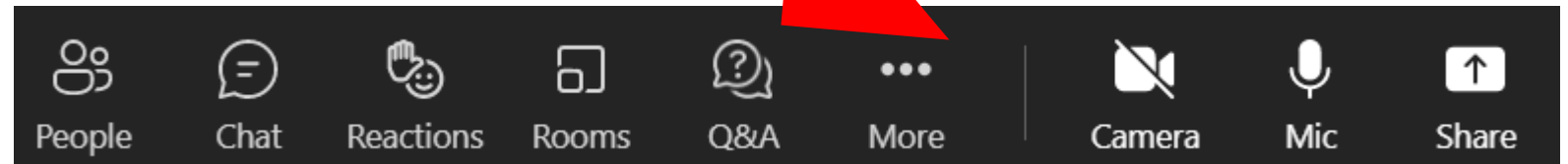
## **Our Commitment to California**

Keeping our communities safe from wildfires

# HOW TO SUBMIT A QUESTION

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# PRESENTERS



**Erik Takayesu**  
Senior Vice President  
Asset Strategy & Planning



**Sunny Chu**  
Principal Manager  
Wildfire Operations



**Cal Rossi**  
Government Relations Manager  
Local Public Affairs



**Valarie Hernandez**  
Principal Manager  
Customer Care

**Mikaela Torres**  
Emergency Services Manager  
Inyo County



**Ingrid Braun**  
Sheriff  
Mono County

# AGENDA

- **2021 Wildfire Season**
- **SCE's Wildfire Mitigation Activities**
- **Public Safety Power Shutoffs**
- **Reducing the Need for PSPS**
- **PSPS Communications**
- **Customer Programs & Resources**
- **Q&A**

# BE PREPARED FOR POTENTIAL EMERGENCIES



**An emergency can happen at any time.**

## **Have a Plan & Make a Kit**

You can help your family be prepared for any emergency situation with a safety preparedness plan, an emergency kit with some basic supplies and advance planning. Whether a storm, an earthquake, a wildfire or a flood comes our way, preparedness will help everyone cope better and stay safer. Learn more at [sce.com/beprepared](https://sce.com/beprepared).

## **Inyo County Safety Links:**

[OES Website](#)

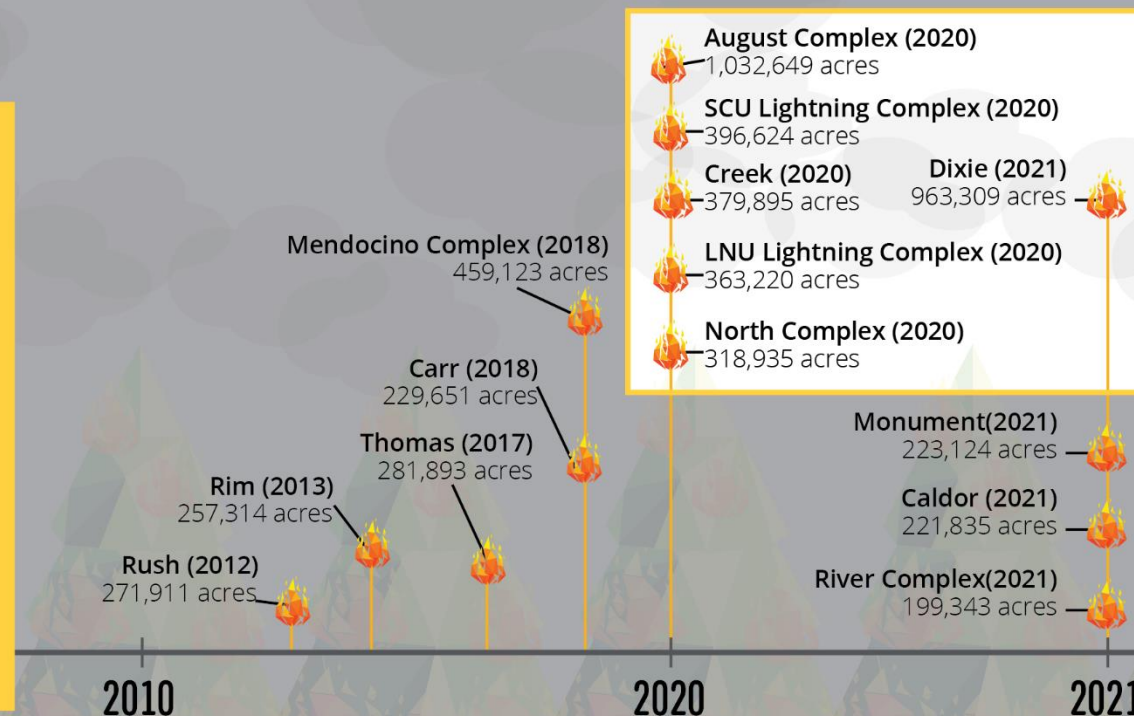
## **Mono County Safety Links:**

[monosheriff.org](https://monosheriff.org)

# 2021 WILDFIRE SEASON

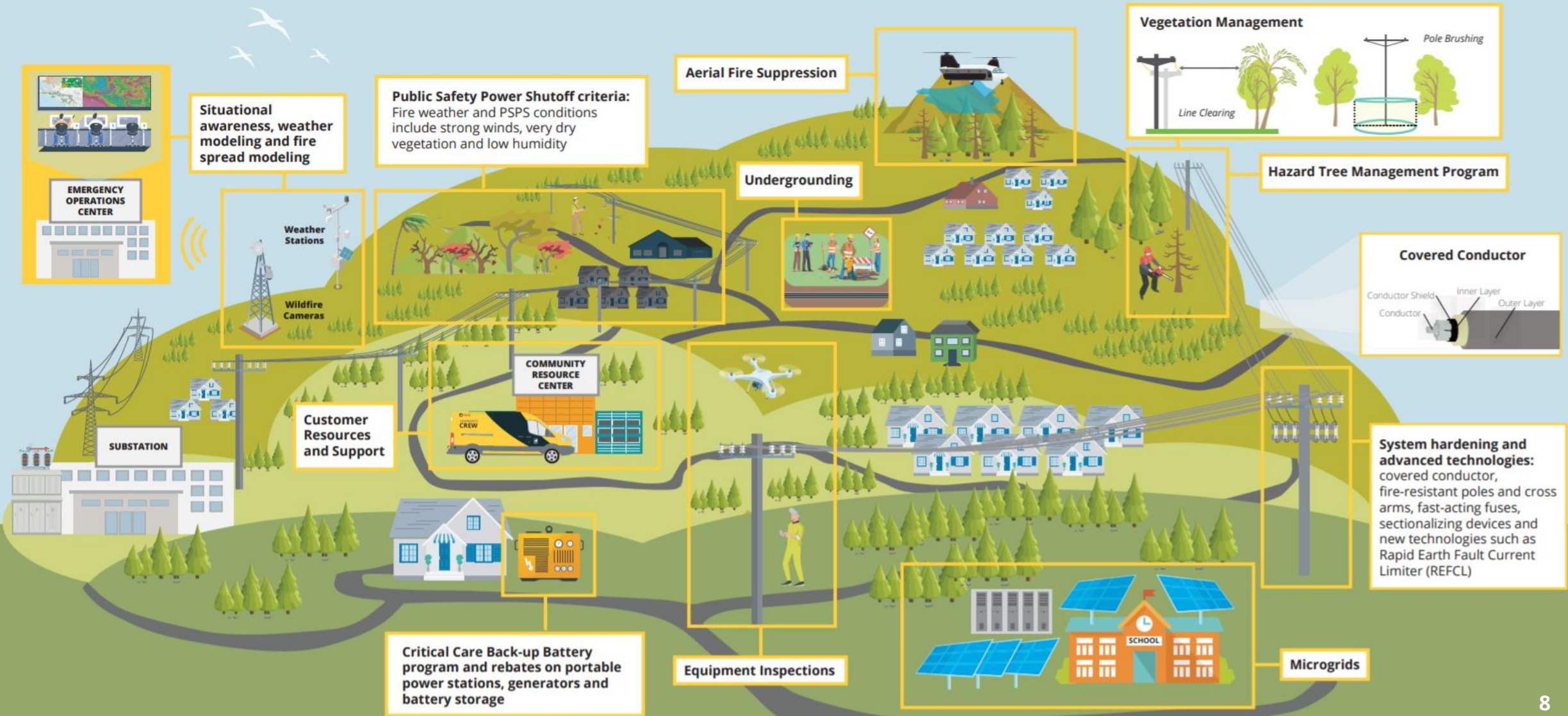
California experienced another year of extreme wildfire activity, exacerbated by intensifying drought. Dry vegetation and strong winds continue to threaten our communities during year-round fire season

**6 OF THE 7  
LARGEST CALIFORNIA  
WILDFIRES  
HAVE HAPPENED SINCE  
2020\***



\*Source: [https://www.fire.ca.gov/media/4jandlhh/top20\\_acres.pdf](https://www.fire.ca.gov/media/4jandlhh/top20_acres.pdf)

# REDUCING WILDFIRE RISK IN OUR COMMUNITIES





# COVERED CONDUCTOR IS ONE OF THE MOST EFFECTIVE MEASURES TO REDUCE WILDFIRE & PSPS RISKS IN SCE'S SERVICE AREA

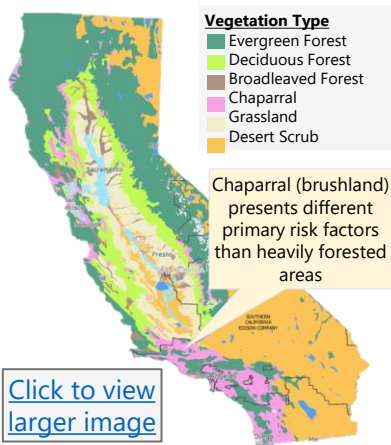
Covered conductor is a very valuable tool to expeditiously and cost-effectively reduce wildfire risk specific to SCE

## Undergrounding considered for certain locations based on risk profile

### Geography

Contact from vegetation and other objects is a key risk factor in much of SCE's area

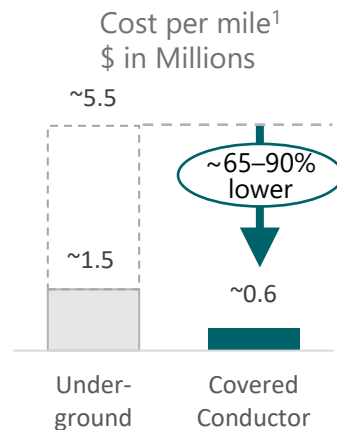
Covered conductor is very effective in mitigating these risks



### Cost to Implement

Covered conductor installation costs significantly lower than undergrounding

Undergrounding costs vary depending on construction methods, locational, and operational factors

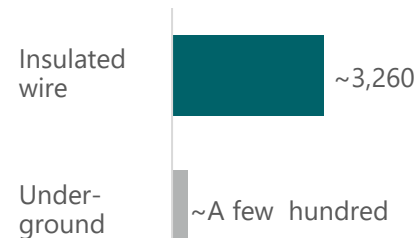


### Execution Speed

Covered conductor can be deployed within 16-24+ months, and sometimes faster

Undergrounding generally takes 25-48+ months

Actual installed miles of covered conductor<sup>2</sup> vs. hypothetical undergrounded miles<sup>3</sup>



### Unique Factors

Undergrounding is considered where there is:

- High burn frequency
- Limited egress
- Wind speeds exceeding covered conductor PSPS thresholds
- Exceptionally high potential consequence (>10,000 acres)

*Several hundred miles currently under consideration for additional enhanced mitigation, including undergrounding*

1. Based on data provided in SCE's 2022 WMP Update

2. Through March 31, 2022

3. Undergrounded miles is a hypothetical approximation of underground lines that could have been constructed through March 31, 2022, based on SCE's assumptions and experience with planning and executing undergrounding projects

# REDUCING WILDFIRE RISK & PSPS IMPACTS – BY THE NUMBERS

SCE estimates its wildfire mitigation and PSPS measures have reduced the risk of damage from catastrophic<sup>1</sup> wildfires by **65% to 70%**, relative to pre-2018 levels.



## ONGOING WILDFIRE MITIGATION EFFORTS

~**34%** of overhead wire in high fire risk areas replaced with covered conductor<sup>2</sup>

**Suite of mitigations** include system hardening, annual equipment inspections, vegetation management and situational awareness measures



## IMPROVED PSPS EXECUTION & CUSTOMER SUPPORT

**73% reduction** in PSPS outage time in 2021 on frequently impacted circuits<sup>3</sup>

**81,000 customers** removed from scope from exceptions and switching protocols

**64 Community Resource Centers** available



## AERIAL FIRE SUPPRESSION SUPPORT

**Contributed \$18 million** for the creation of the quick reaction force of the world's largest helitankers

**Used on more than 50 fires in 2021**, helping to suppress fires in its early stages

1. A wildfire directly causing one or more deaths, damaging or destroying more than 500 structures, or burning more than 140,000 acres of land

2. Through March 31, 2022

3. Based on 2021 weather and fuel conditions

# PUBLIC SAFETY POWER SHUTOFFS

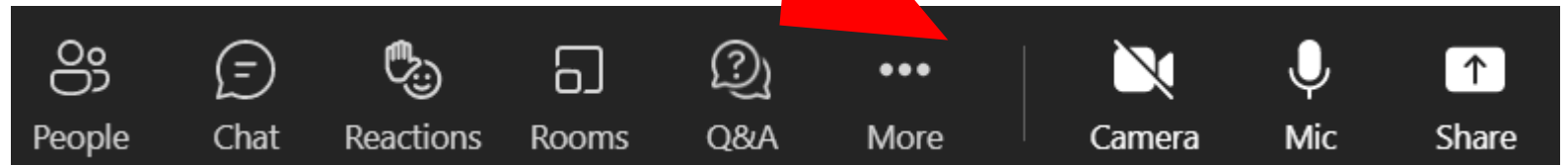
- A tool of last resort used during dangerous fire conditions (weather and fuels)
- De-energizing lines to prevent a spark from our equipment starting a significant wildfire
- Primarily impacts circuits in high fire risk areas
- Use of multiple methods to notify customers and partners in affected areas before, during and after a PSPS event
- In 2021, continued PSPS improvements and reduced frequency, scope and duration of PSPS



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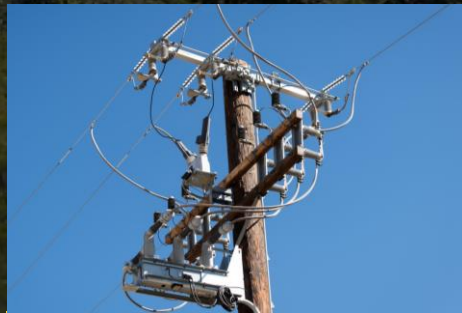
# REDUCING THE NEED FOR PSPS

## 2021 ACHIEVEMENTS AND 2022 PLANS



### Covered Conductor

Replaced an additional **1,500** miles of bare wire with covered conductor; **700** miles of expedited grid hardening to raise PSPS threshold prior to peak wind season. Plan to replace **1,100** miles in 2022; **270** miles of expedited grid hardening



### Segmentation

Installed **23** additional remote-controlled sectionalizing devices to segment and isolate circuits during PSPS. Plan to add **15** devices in 2022.



### Weather Stations

Installed **400** additional weather stations for improved forecasting and accuracy of PSPS operations. Plan to add **150** weather stations in 2022.



### Switching Protocols

Removed **81,000** customers from PSPS scope through exceptions and switching protocols



### Operational Protocols

Utilized up-to-date information on ground conditions (e.g., lack of vegetation) to assess wildfire threat and the need for PSPS

# 2021 PSPS EVENTS

## Service Area Compared to 2020

Statistics	Customers Interrupted	Circuit Interruptions	Customer Minutes of Interruption
2020 Fire Season	~348K	~584	~388M
2021 Fire Season	~85K	~124	~105M
Delta	↓76%	↓79%	↓73%

## Inyo / Mono County Compared to 2020

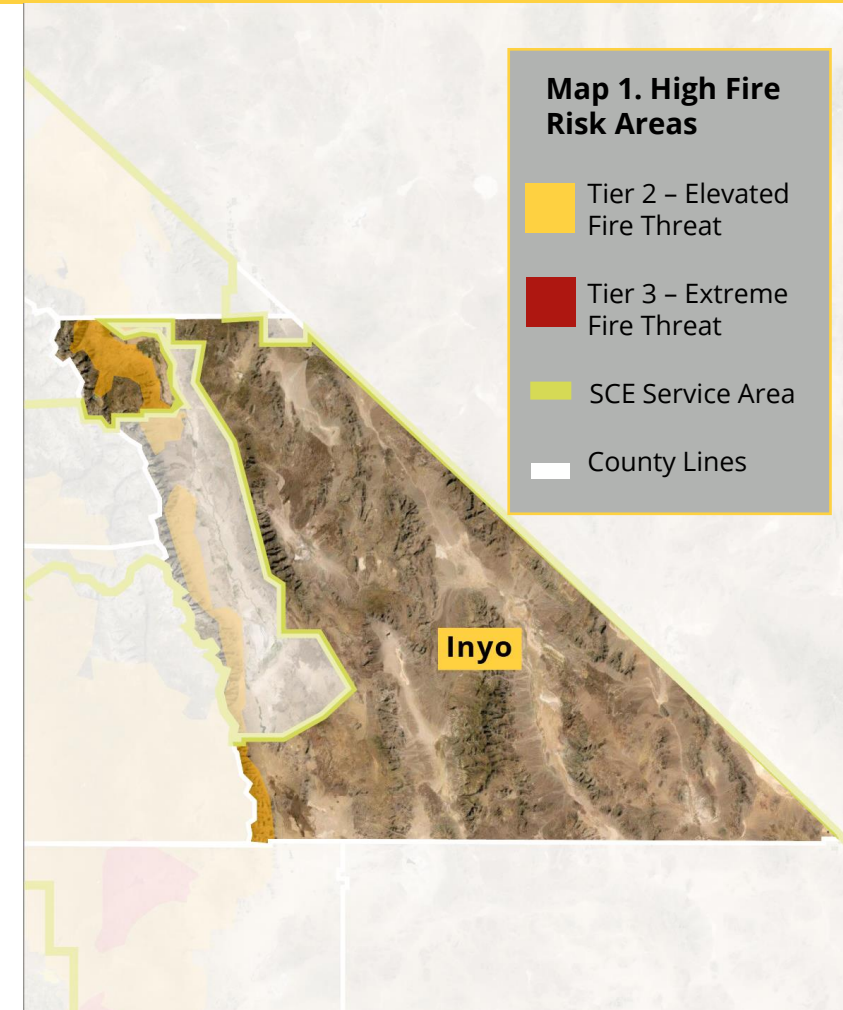
Statistics	Customers Interrupted	Circuit Interruptions	Customer Minutes of Interruption
2020 Fire Season	~1.2K	~10	~413K
2021 Fire Season	~190	~2	~61K
Delta	↓84%	↓80%	↓85%

# 85%

**REDUCTION IN  
CUSTOMER MINUTES  
OF INTERRUPTION IN  
INYO AND MONO  
COUNTIES**

### Completed

	2021	SINCE 2018
DISTRIBUTION EQUIPMENT INSPECTIONS	745 inspections	4,249 inspections
TRANSMISSION EQUIPMENT INSPECTIONS	119 inspections	4,888 inspections
COVERED CONDUCTOR	0 circuit miles installed	0 circuit miles installed
FAST-ACTING FUSES	2 fuses installed or replaced	64 fuses installed or replaced
SECTIONALIZING DEVICES	0 devices installed	0 devices installed
HAZARD TREE MANAGEMENT	2,243 trees assessed	2,528 trees assessed
WEATHER STATIONS	3 weather stations installed	14 weather stations installed
HIGH-DEFINITION WILDFIRE CAMERAS	0 cameras installed	
COMMUNITY RESOURCE CENTERS	2 sites available	
COMMUNITY CREW VEHICLES	8 vehicles available throughout SCE's service area	

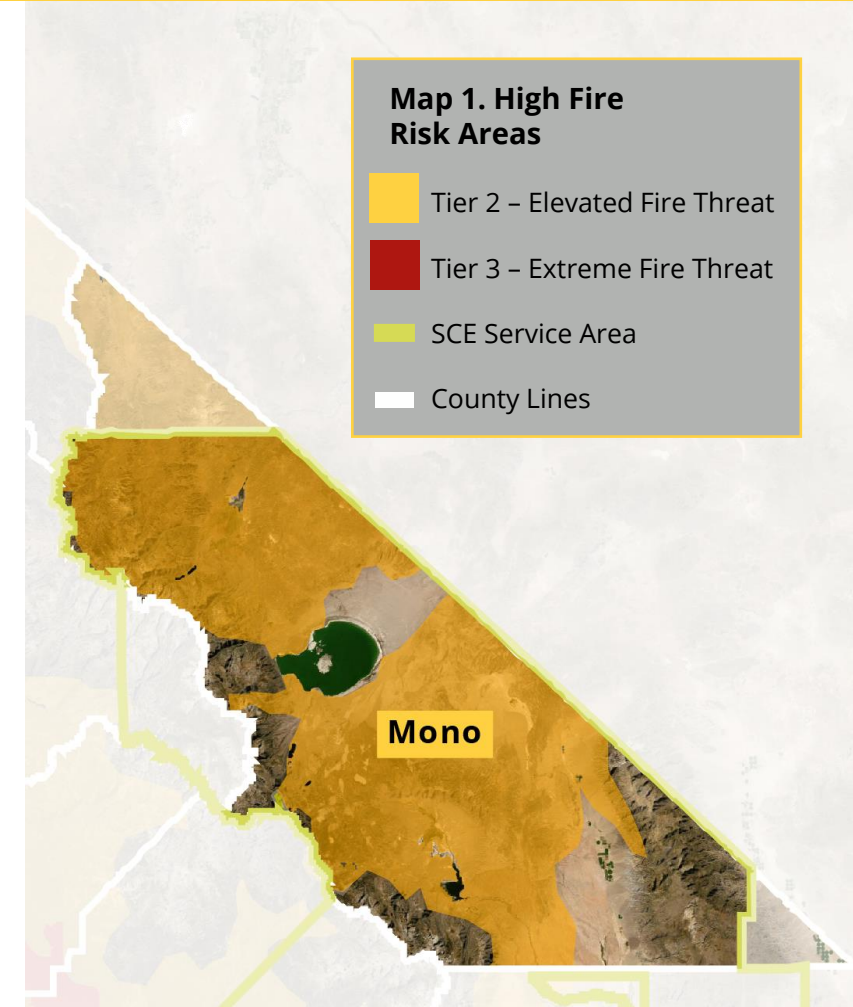


SCE tracks wildfire initiative progress by SCE districts and extrapolates to the county level as a reasonable approximation. There may be additional circuit miles of covered conductor installed due to fire restoration work.

SCE's service area covers about **83%** of Inyo County. About **5,030** customer accounts are served by circuits in high fire risk areas.

### Completed

	2021	SINCE 2018
DISTRIBUTION EQUIPMENT INSPECTIONS	2,406 Inspections	14,356 Inspections
TRANSMISSION EQUIPMENT INSPECTIONS	450 Inspections	6,195 Inspections
COVERED CONDUCTOR	0 circuit miles installed	1 circuit miles installed
FAST-ACTING FUSES	5 fuses installed or replaced	179 fuses installed or replaced
SECTIONALIZING DEVICES	0 devices installed	7 devices installed
HAZARD TREE MANAGEMENT	12,532 trees assessed	21,459 trees assessed
WEATHER STATIONS	8 weather stations installed	48 weather stations installed
HIGH-DEFINITION WILDFIRE CAMERAS	0 cameras installed	
COMMUNITY RESOURCE CENTERS	0 sites available	
COMMUNITY CREW VEHICLES	8 vehicles available throughout SCE's service area	



SCE tracks wildfire initiative progress by SCE districts and extrapolates to the county level as a reasonable approximation. There may be additional circuit miles of covered conductor installed due to fire restoration work.

SCE's service area covers about **89%** of Mono County. About **13,900** customer accounts are served by circuits in high fire risk areas.



# PSPS COMMUNICATIONS

## Notifications

- SCE provides PSPS notifications through various communication channels
  - SCE Account Holders (email, text, and voice call)
  - Address Level Alerts
- Sign up to stay informed before, during and after a PSPS event

## SCE Outage Map

- Consolidated outage map that incorporates PSPS outages at [sce.com/outagemap](https://www.sce.com/outagemap)

**Power Outages**

Search by address, city, county or ZIP

[Click here to enter the outage number and check the status](#)

**Current Outages**  
28 Outages | 1,065 Customers Impacted

**Upcoming Scheduled Outages**  
1,531 Outages Scheduled | 68,293 Customers Possibly Impacted

**Public Safety Power Shutoff (PSPS)**  
Search for an address to see specific PSPS details or see county-level details [below](#).

Not Seeing Your Outage? [Report](#)

Last Updated: 5/2/2022 - 6:02 PM PST

**Outage Alerts**  
Stay informed about unplanned repair and planned maintenance outages. [Get Alerts >](#)

**Community Support**

[Resource Centers](#) [Crew Vehicles](#) [Further Assistance](#)

**SCE Community Resource Centers** are available to support customers during a Public Safety Power Shutoffs... [More >](#)

# SCE CUSTOMER PROGRAMS & RESOURCES



## CUSTOMER RESOURCE CENTERS & COMMUNITY CREW VEHICLES

- Services offered: information, charging of mobile devices, assistive technology/medical devices, PSPS outage alert enrollment support, access to water, light snacks, ice and ice vouchers, restrooms, and small insulated bags to keep medication cool
- Translations services for over 120 languages including American Sign Language (ASL)



## CUSTOMER PROGRAMS

- Partnered with 211 to help customers with Access and Functional Needs (AFN) develop a resiliency plan and enroll in eligible assistance programs
- 211 provides specialized referrals for customers with AFN experiencing PSPS. Services include connecting customers to shelf-stable food, hot meal delivery, transportation and/or temporary shelter
- SCE will improve communication methods, including videos utilizing ASL for marketing and PSPS notifications



## CUSTOMER RESILIENCY EQUIPMENT

- Critical Care Backup Battery program and the In-Event Battery Loan pilot provide eligible customers with a portable backup battery to power assistive technology/medical devices during a PSPS event
- Rebates on portable batteries and generators for customers residing in high fire risk areas on [marketplace.sce.com](https://marketplace.sce.com)

**Website: [sce.com/wildfire](https://www.sce.com/wildfire)**  
**Energized by Edison Stories & Videos: [edison.com/wildfire-safety](https://www.edison.com/wildfire-safety)**

**Email: [wildfireoutreach@sce.com](mailto:wildfireoutreach@sce.com)**  
**Social Media: @SCE on Twitter & Facebook**  
**SCE Customer Support: 1-800-655-4555**

## LEARN MORE



- Visit our website to learn more about our wildfire safety efforts and Public Safety Power Shutoffs (PSPS)
- Provide feedback through the survey

## SIGN UP



- PSPS alerts
- SCE's Medical Baseline program
- SCE programs and rebates

## BE PREPARED

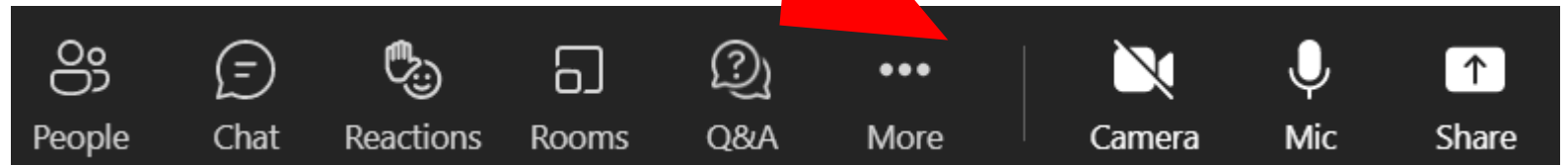


- Be prepared with a safety preparedness plan, some basic supplies and advance planning
- Power outage tips

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# THANK YOU

Website: [sce.com/wildfire](https://sce.com/wildfire)

Energized by Edison Stories & Videos: [edison.com/wildfire-safety](https://edison.com/wildfire-safety)

Email: [wildfireoutreach@sce.com](mailto:wildfireoutreach@sce.com)

Social Media: [@SCE on Twitter & Facebook](#)

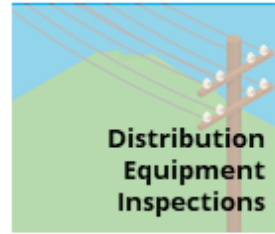
SCE Customer Support: [1-800-655-4555](tel:1-800-655-4555)

# ADDITIONAL RESOURCES



# Wildfire Mitigation Activities SERVICE AREA

Data as of 12/31/21



2021  
Completed/Target  
**179,600/163,000**  
inspections

 **110%**  
completed

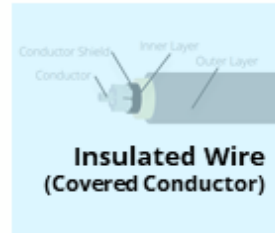
Completed  
Since 2018  
**764,000+**  
inspections



2021  
Completed/Target  
**20,800/16,800**  
inspections

 **124%**  
completed

Completed  
Since 2018  
**106,900+**  
inspections



2021  
Completed/Target  
**1,500/1,000**  
circuit miles installed

 **150%**  
completed

Completed  
Since 2018  
**2,900+**  
circuit miles installed




2021  
Completed/Target  
**350/330**  
fuses installed or replaced

 **106%**  
completed

Completed  
Since 2018  
**13,300+**  
fuses installed or replaced




2021  
Completed/Target  
**131,400/120,000**  
trees assessed

 **110%**  
completed

Completed  
Since 2018  
**359,900+**  
trees assessed



2021  
Completed/Target  
**400/375**  
weather stations installed

 **107%**  
completed

Completed  
Since 2018  
**1,460+**  
weather stations installed



Cameras currently provide visibility to about 90% of our high fire risk areas (HFRA) and the planned additional cameras in 2022 and beyond will increase coverage to nearly all of HFRA

Completed  
Since 2018  
**166**  
cameras installed



SCE contributed \$18 million to support the creation of a quick reaction force of aerial firefighting assets across counties in SCE's service area to coordinate and reach wildfires in their early stages. These unique water and fire retardant dropping helitankers have the capability to operate day and night.



2021  
Completed  
**6,000/3,600**  
batteries provided to eligible customers

 **167%**  
completed

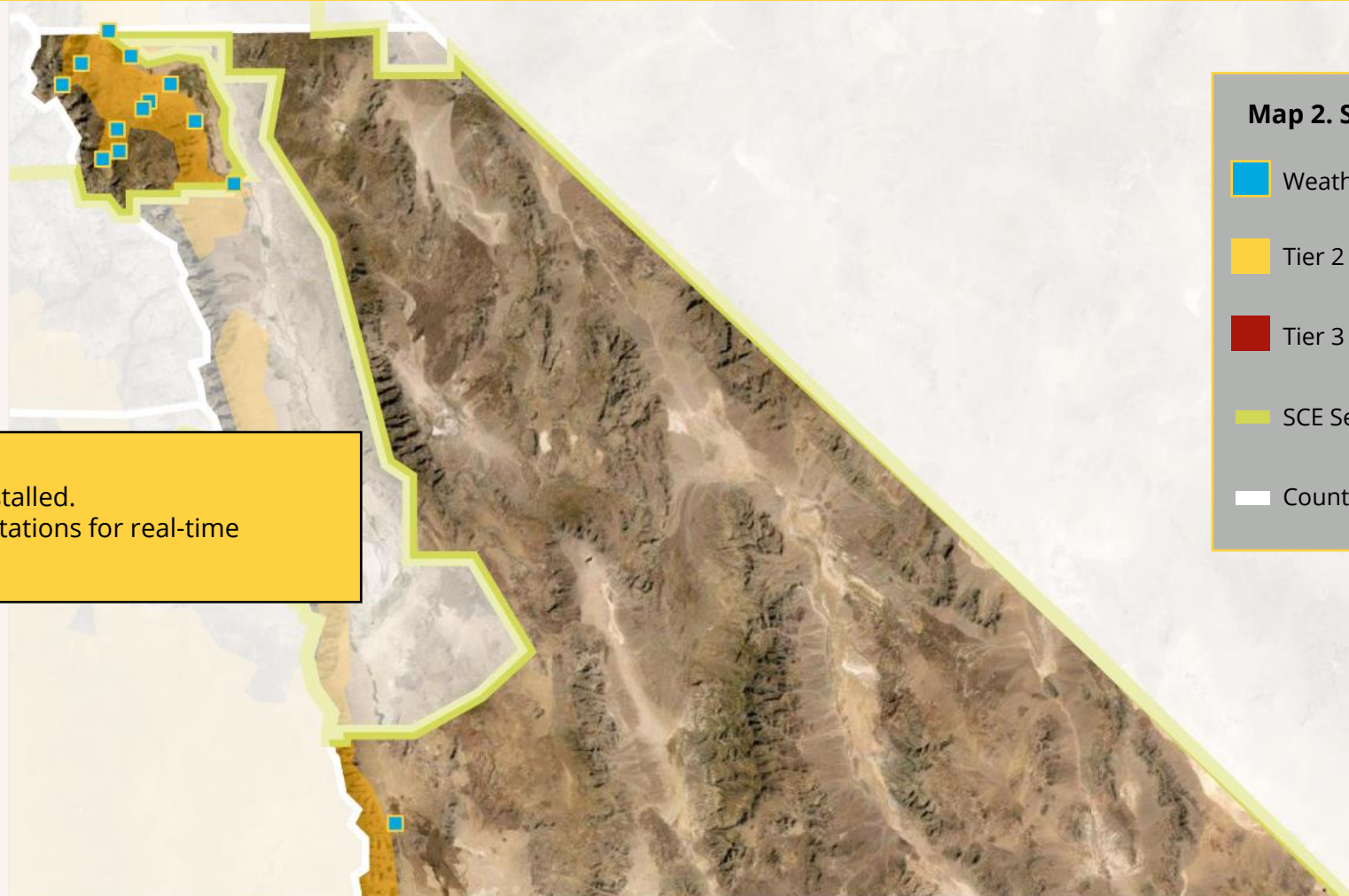
Completed Since July 2020  
**6,740+**  
batteries provided to eligible customers








**64**  
sites available



**8**  
vehicles available



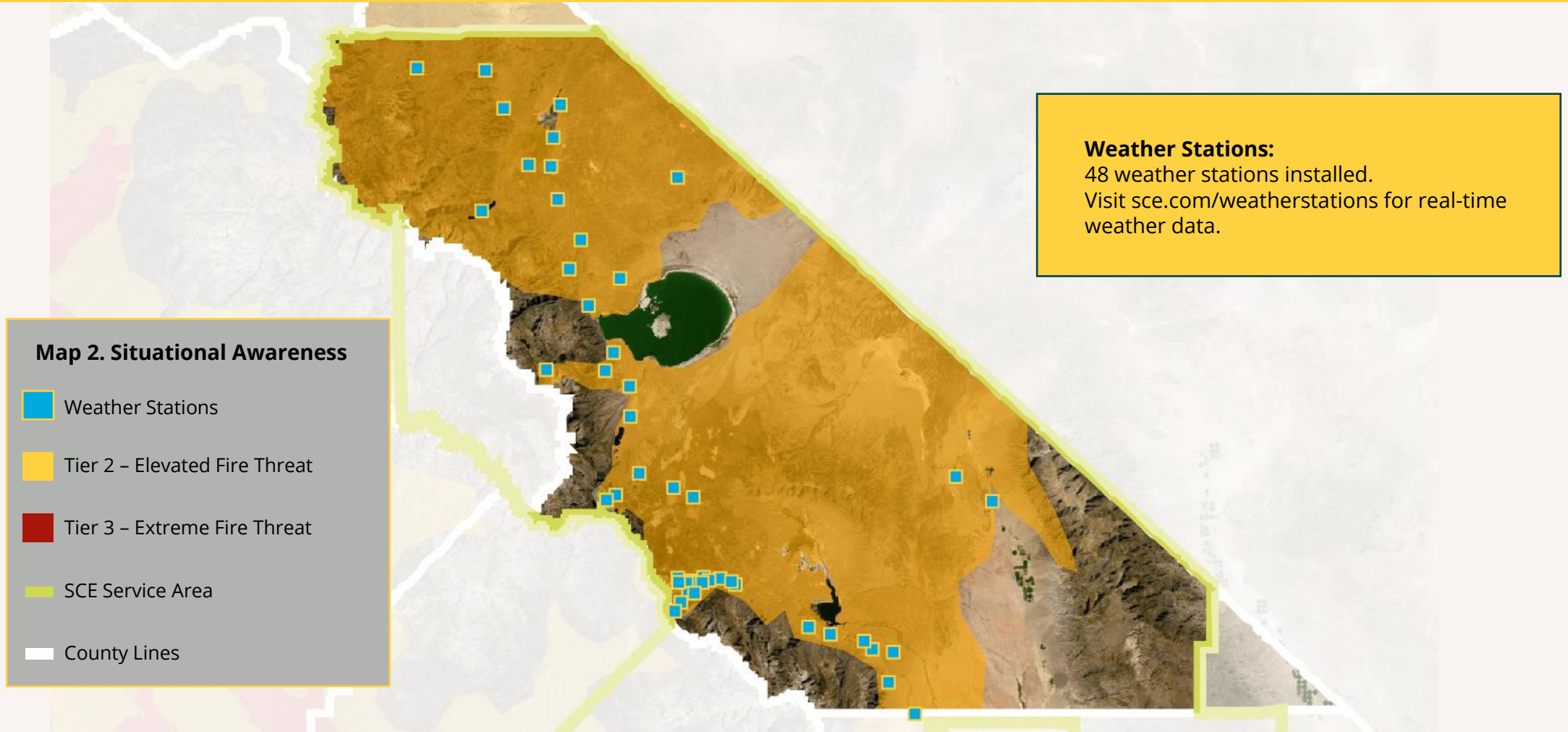
### Map 2. Situational Awareness

-  Weather Stations
-  Tier 2 – Elevated Fire Threat
-  Tier 3 – Extreme Fire Threat
-  SCE Service Area
-  County Lines

#### Weather Stations:

14 weather stations installed.  
Visit [sce.com/weatherstations](https://sce.com/weatherstations) for real-time weather data.





# HELPFUL INFORMATION & RESOURCES

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

## 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](https://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)
- CPUC wildfire maps – [ia.cpuc.ca.gov/firemap/](https://ia.cpuc.ca.gov/firemap/)
- Wildfire cameras – [alertwildfire.org](https://www.alertwildfire.org)
- Weather stations – [sce.com/weatherstations](https://www.sce.com/weatherstations)

## Preparedness

- SCE emergency preparedness – [sce.com/beprepared](https://www.sce.com/beprepared)
- CAL FIRE preparedness – [readyforwildfire.org](https://www.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](mailto:safetrees@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](https://www.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](https://www.selfgenca.com)
- 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 mitigation efforts and PSPS – [edison.com/wildfire-safety](https://www.edison.com/wildfire-safety)

# VIDEO: INSTALLING COVERED CONDUCTOR AERIALLY

