



## **Our Commitment to California**

Keeping our communities safe from wildfires

# HOW TO SUBMIT A QUESTION

You can submit a question using the Q&A window throughout the session

If there is a similar question already being asked that you would like answered, you can click on the “thumbs up” icon next to the question to “like” it

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

# PRESENTERS



**Kevin McGowan**  
Director  
Office of Emergency Management  
Los Angeles County



**David Ford**  
Government Relations  
Manager  
Local Public Affairs



**Christine Fanous**  
Managing Director  
Transmission & Distribution



**Cameron McPherson**  
Senior Manager  
Wildfire Safety



**Katie Sloan**  
Vice President  
Customer  
Programs & Services

# 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**



# READY! SET!GO!

YOUR PERSONAL  
WILDFIRE ACTION PLAN



fire.lacounty.gov

## READY!

Create and maintain defensible space and harden your home against flying embers.

## SET!

Prepare your family and home ahead of time for the possibility of having to evacuate.

## GO!

Take the evacuation steps necessary to give your family and home the best chance of surviving a wildfire.

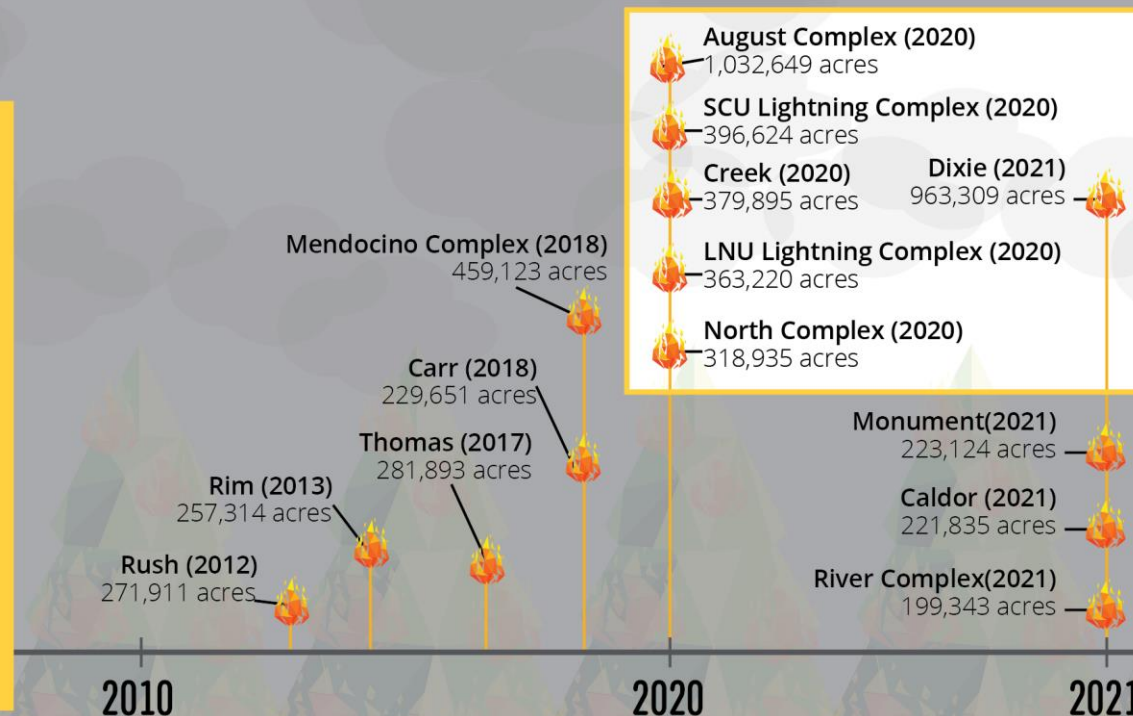
For more information: [fire.lacounty.gov/rsg](https://fire.lacounty.gov/rsg)

Alert LA County: [alert.lacounty.gov](https://alert.lacounty.gov)

# 2021 WILDFIRE SEASON

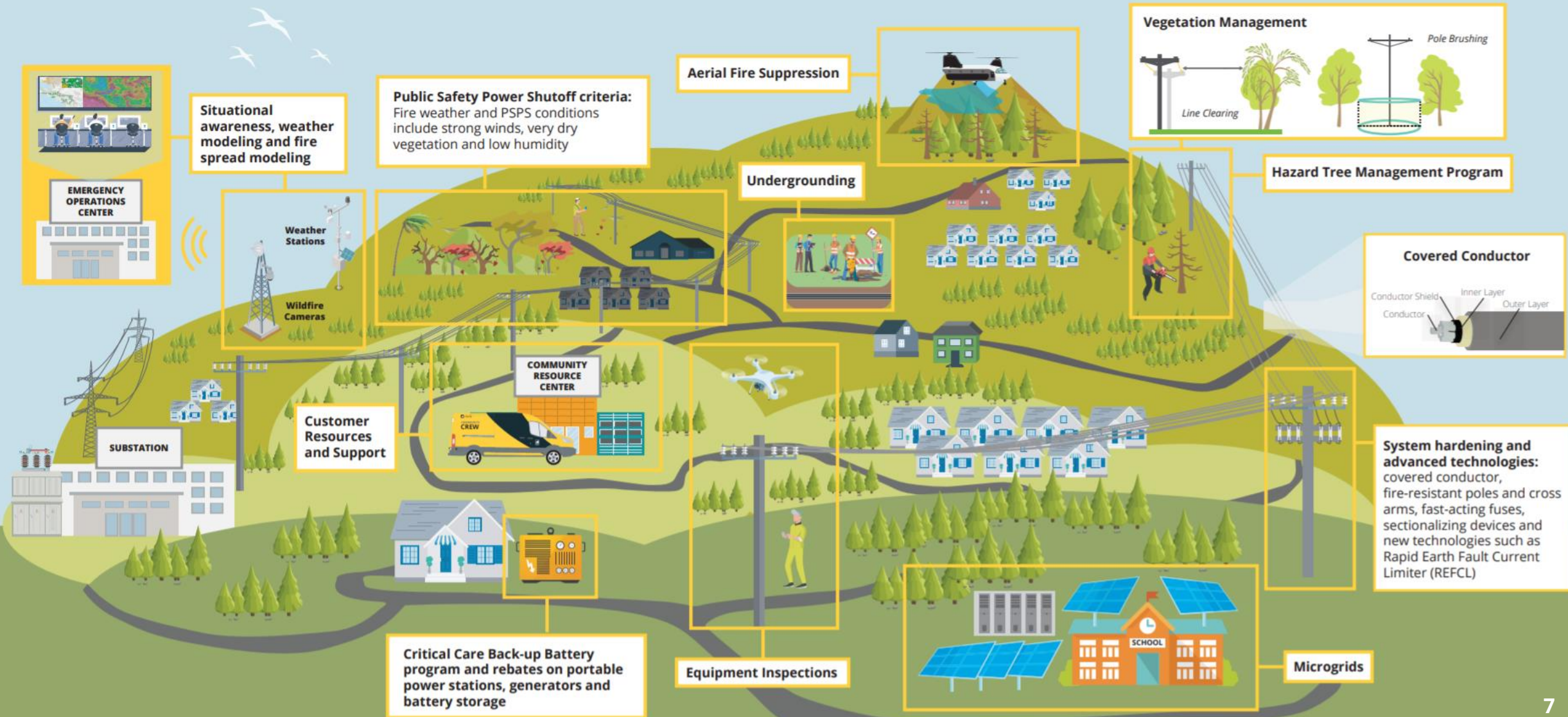
California experienced another year of extreme wildfire activity, exacerbated by intensifying drought. Dry vegetation and strong winds continue to threaten our communities during year-round fire season

**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



# VIDEO: INSTALLING INSULATED WIRE AERIALLY



SOUTHERN CALIFORNIA  
**EDISON**<sup>®</sup>



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

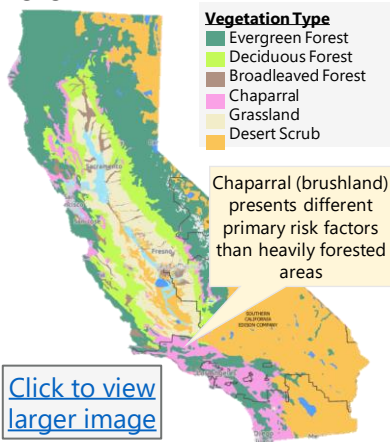
Insulated wire is a very valuable tool to expeditiously and cost-effectively reduce wildfire risk specific to SCE

## 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

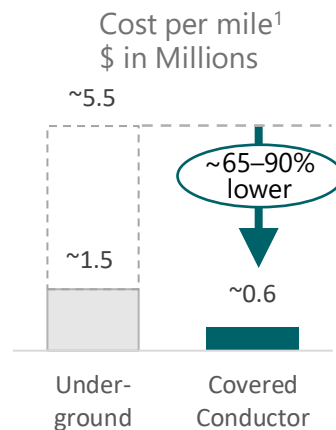
Insulated wire is very effective in mitigating these risks



### Cost to Implement

Insulated wire installation costs significantly lower than undergrounding

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



### Execution Speed

Insulated wire can be deployed within 16-24+ months, and sometimes faster

Undergrounding generally takes 25-48+ months

Actual installed miles of insulated wire<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 insulated wire 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 insulated wire<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



Damage/hazards found after strong winds during PSPS

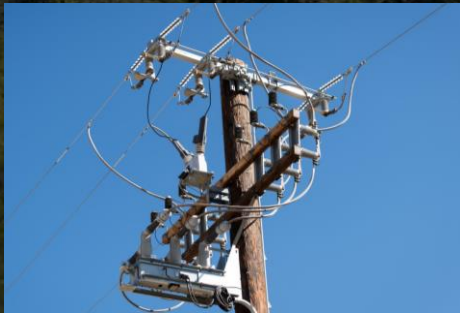
# REDUCING THE NEED FOR PSPS

## 2021 ACHIEVEMENTS AND 2022 PLANS



### Insulated Wire

Replaced an additional **1,500** miles of bare wire with insulated wire; **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%

## Los Angeles County Compared to 2020

Statistics	Customers Interrupted	Circuit Interruptions	Customer Minutes of Interruption
2020 Fire Season	~87K	~25	~97M
2021 Fire Season	~10K	~14	~15M
Delta	↓89%	↓44%	↓85%

# 85%

**REDUCTION IN  
CUSTOMER MINUTES  
OF INTERRUPTION IN  
LOS ANGELES  
COUNTY**

# EXPEDITED GRID HARDENING

## ON CIRCUITS IMPACTED BY PSPS IN LOS ANGELES COUNTY



### Completed in 2021

- Expedited installation of\*:
  - **243** miles of insulated wire
  - **6** sectionalizing devices
  - **3** weather stations
- Removed **7** circuits and **4** circuit segments from PSPS consideration
- Raised PSPS wind threshold on **9** circuits

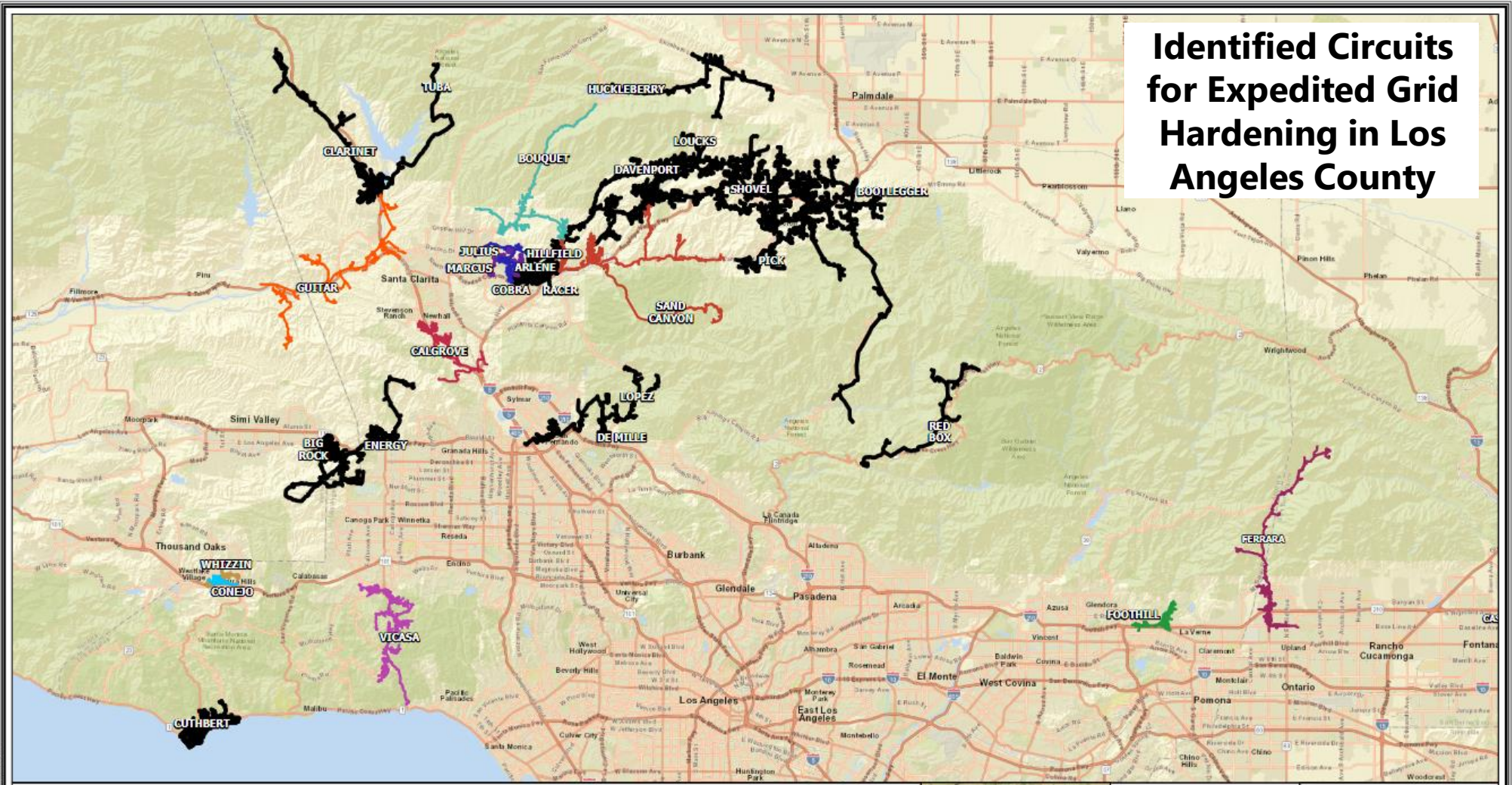
\*Note: Number of total installed on all circuits in the county may be higher

### Plans for 2022

- Expedite installation of:
  - **82** miles of insulated wire
  - **1** weather station
- Raise PSPS wind threshold on **5** circuits

**Target Completion Date:  
Oct. 1, 2022**

# Identified Circuits for Expedited Grid Hardening in Los Angeles County



## LOS ANGELES COUNTY

- CIRCUITS TARGETED FOR 2022 COMPLETION:**
- FERRARA
  - MARCUS
  - BOUQUET
  - FOOTHILL
  - GUITAR
  - SAND CANYON
  - CALGROVE
  - VICASA
  - CONEJO
  - JULIUS
  - WHIZZIN
- COMPLETED CIRCUITS**



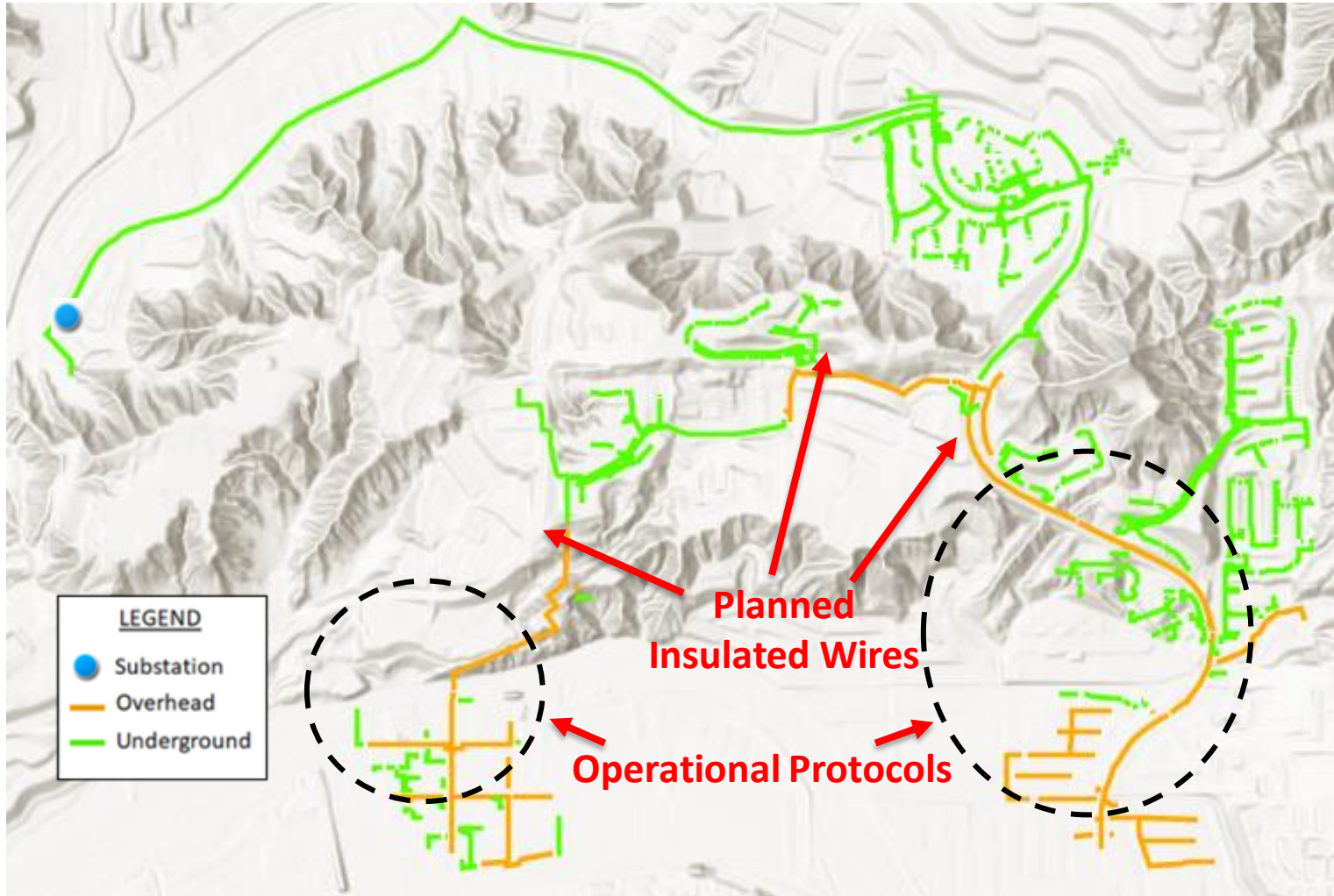
Date: 5/4/2022  
File Name: LA.mxd  
Version: 1  
Created By: Geospatial Analysis, Geomatics | Central Field Services



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# EXAMPLE OF REDUCING THE NEED FOR PSPS



**Circuit:** Julius

**Community:** Santa Clarita/Canyon Country

**Planned Work:**

- Replace 2.2 miles of existing overhead wire with new insulated wire
- Implement operational protocols to raise PSPS windspeed thresholds

**Expected Completion Date:**

- 10/1/2022

**Expected Improvements:**

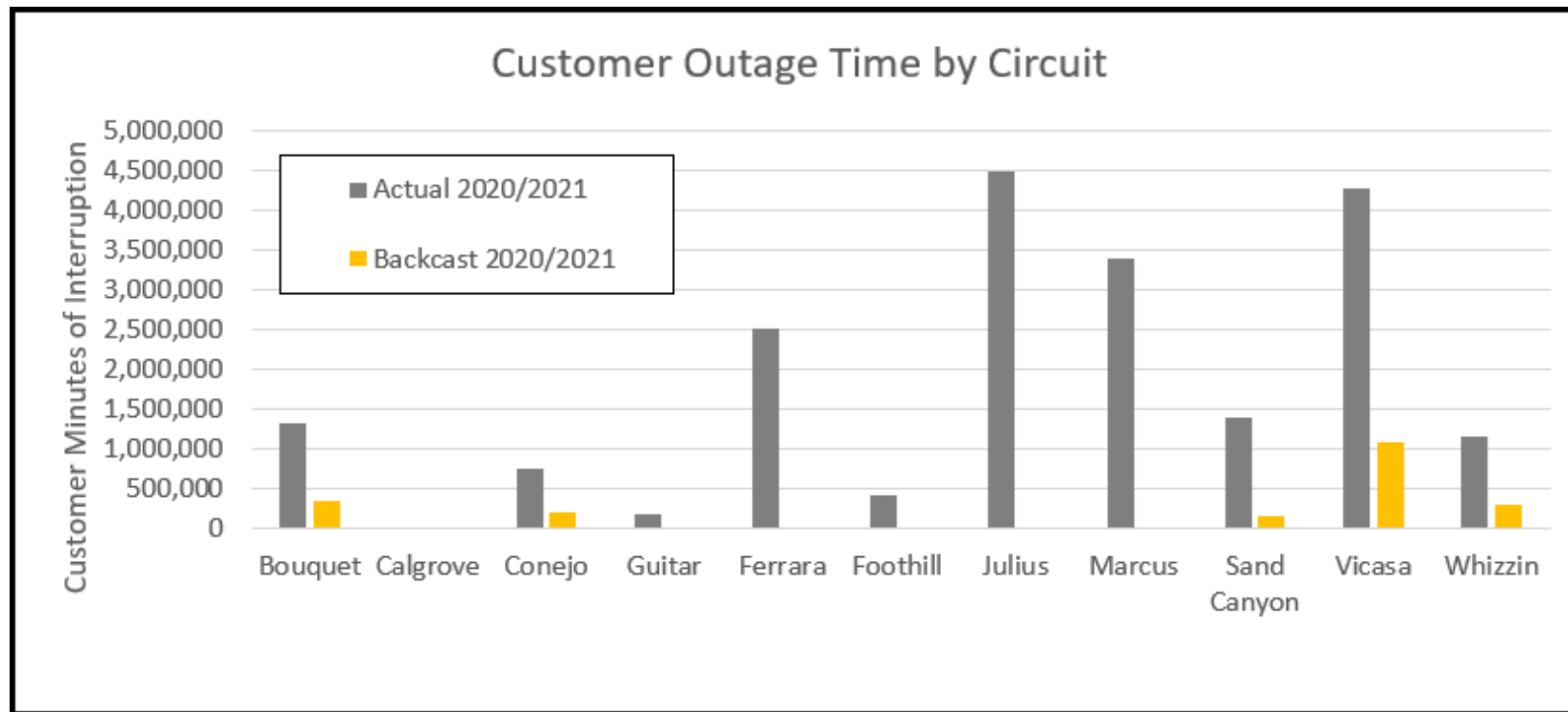
- **100% reduction** in customer outage time, assuming the same weather conditions in 2020 and 2021



For circuit details and status, visit:  
[sce.com/pspsenhancements](https://sce.com/pspsenhancements)

# EXPECTED IMPROVEMENTS

With the implementation of our plans this year, we expect to see a **91% reduction in customer outage time** across these PSPS impacted circuits in Los Angeles County communities compared to 2020 and 2021, assuming the same weather conditions



Updated: 05-02-2022

- 1) PSPS impacted circuits are circuits that have experienced one or more PSPS related outages in 2019-2021
- 2) Customer outage time is measured as total Customer Minutes of Interruption (CMI)
- 3) Bouquet, Conejo, Vicasa, and Whizzin calculations are in progress, so an estimated 75% improvement is shown (based on completed circuit calculation average improvement)
- 4) The Calgrove planned work is only a weather station for which benefits cannot be calculated

# 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

**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



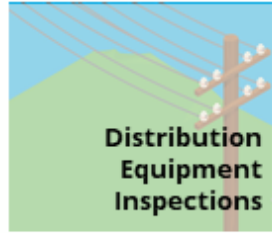
- Be prepared with a safety preparedness plan, some basic supplies and advance planning
- Power outage tips

# ADDITIONAL RESOURCES



# Wildfire Mitigation Activities SERVICE AREA

Data as of 12/31/21



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

 **110%**  
completed

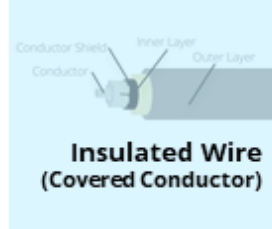
Completed  
Since 2018  
764,000+  
inspections



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

 **124%**  
completed

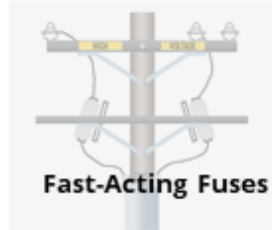
Completed  
Since 2018  
106,900+  
inspections



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



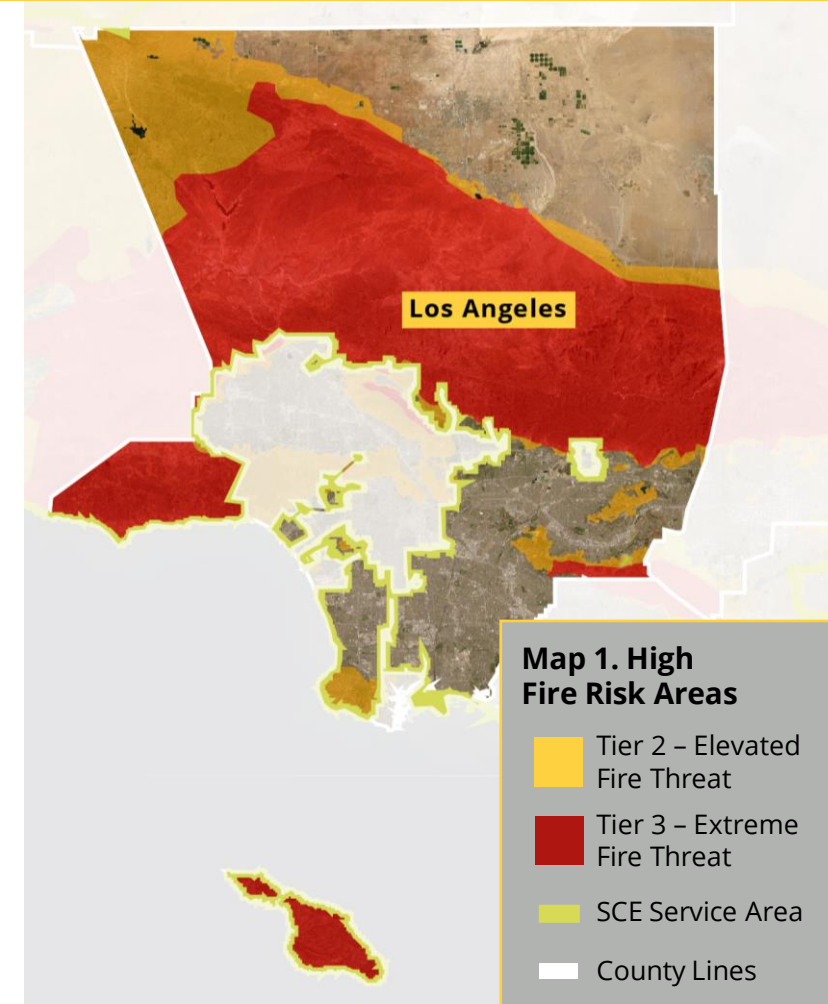
64  
sites  
available



8  
vehicles  
available

### Completed







	2021	SINCE 2018
DISTRIBUTION EQUIPMENT INSPECTIONS	42,516 Inspections	207,585 Inspections
TRANSMISSION EQUIPMENT INSPECTIONS	4,633 Inspections	23,537 Inspections
COVERED CONDUCTOR	257 circuit miles installed	566 circuit miles installed
FAST-ACTING FUSES	87 fuses installed or replaced	3,405 fuses installed or replaced
SECTIONALIZING DEVICES	6 devices installed	26 devices installed
HAZARD TREE MANAGEMENT	17,877 trees assessed	24,081 trees assessed
WEATHER STATIONS	112 weather stations installed	378 weather stations installed
HIGH-DEFINITION WILDFIRE CAMERAS	56 cameras installed	
COMMUNITY RESOURCE CENTERS	15 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 **85%** of Los Angeles County. About **382,500** customer accounts are served by circuits in high fire risk areas.

### Map 2. Situational Awareness

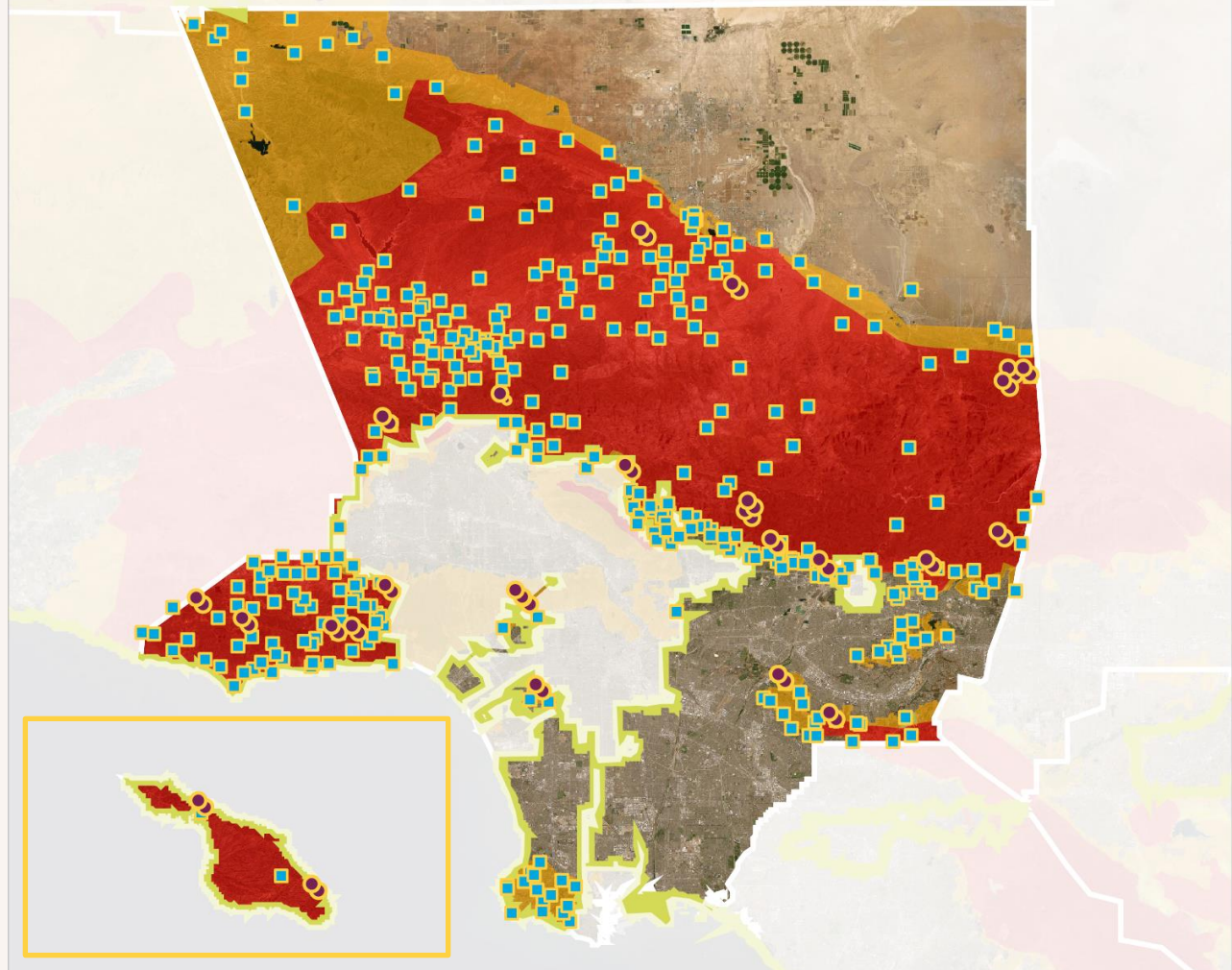
-  Weather Stations
-  HD Wildfire Cameras
-  Tier 2 – Elevated Fire Threat
-  Tier 3 – Extreme Fire Threat
-  SCE Service Area
-  County Lines

#### Weather Stations:

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

#### HD Wildfire Cameras:

56 high-definition wildfire cameras installed. Visit [alertwildfire.org](https://alertwildfire.org) to view the live camera feeds.





# HELPFUL INFORMATION & RESOURCES

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

### SCE Notifications

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

### Situational Awareness

PSPS maps and information – [sce.com/psps](https://sce.com/psps)

- PSPS decision making – [sce.com/pspsdecisionmaking](https://sce.com/pspsdecisionmaking)
- Role of weather in PSPS – [sce.com/fireweather](https://sce.com/fireweather)
- CPUC wildfire maps – [ia.cpuc.ca.gov/firemap/](https://ia.cpuc.ca.gov/firemap/)
- Wildfire cameras – [alertwildfire.org](https://alertwildfire.org)
- Weather stations – [sce.com/weatherstations](https://sce.com/weatherstations)

### Preparedness

- SCE emergency preparedness – [sce.com/beprepared](https://sce.com/beprepared)
- CAL FIRE preparedness – [readyforwildfire.org](https://readyforwildfire.org)

### Vegetation Management

- Vegetation Management – [sce.com/safety/power-lines](https://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://sce.com/customerresources)
- SCE Marketplace (rebates and programs) – [marketplace.sce.com](https://marketplace.sce.com)
- SCE Medical Baseline Program – [sce.com/medicalbaseline](https://sce.com/medicalbaseline)
- Self Generation Incentive Program (SGIP) – [sce.com/sgip](https://sce.com/sgip) or [selfgenca.com](https://selfgenca.com)
- SCE Customer Support: 1-800-655-4555

### Community Meetings

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

### Energized by Edison

- Stories and videos on SCE's wildfire mitigation efforts and PSPS – [edison.com/wildfire-safety](https://edison.com/wildfire-safety)