# 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.



### Community Meeting for San Bernardino County May 19, 2022

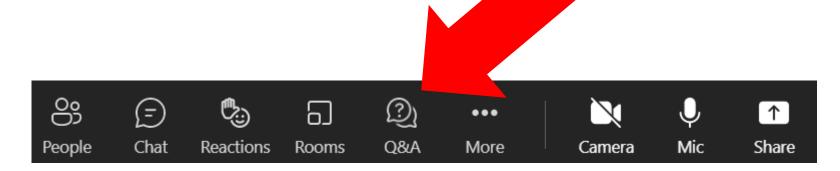


# **Our Commitment to California**

Keeping our communities safe from wildfires

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

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











Jennifer Cusack Government Relations Manager Local Public Affairs



**Greg Ferree** Vice President Vegetation Inspections & Operational Services



Cameron McPherson Senior Manager Wildfire Safety



Danielle Anderson Senior Manager Customer Care & Access and Functional Needs

# 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**



# BEING PREPARED

for an emergency can help save your loved ones.

Prepare your family's emergency plan and go-kit in just a few minutes with the Ready SB County Preparedness App!

### 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 <u>sce.com/beprepared</u>.

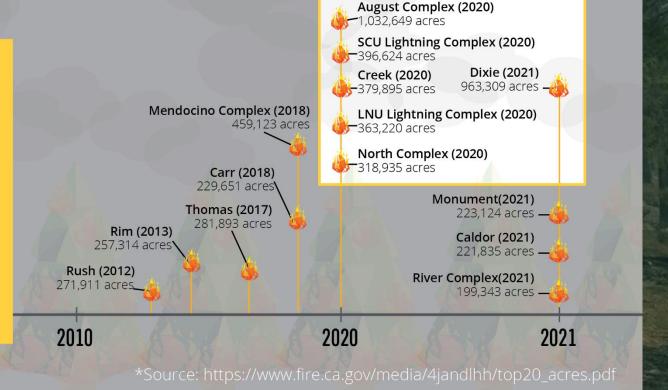
### San Bernardino County Emergency Preparedness Links:

- <u>https://sbcfire.org/alertwarning/</u>
- http://www.sbcounty.gov/sbcfire/Tens/TensContact.aspx
- <u>https://sbcfire.org/readysetgofire/</u>

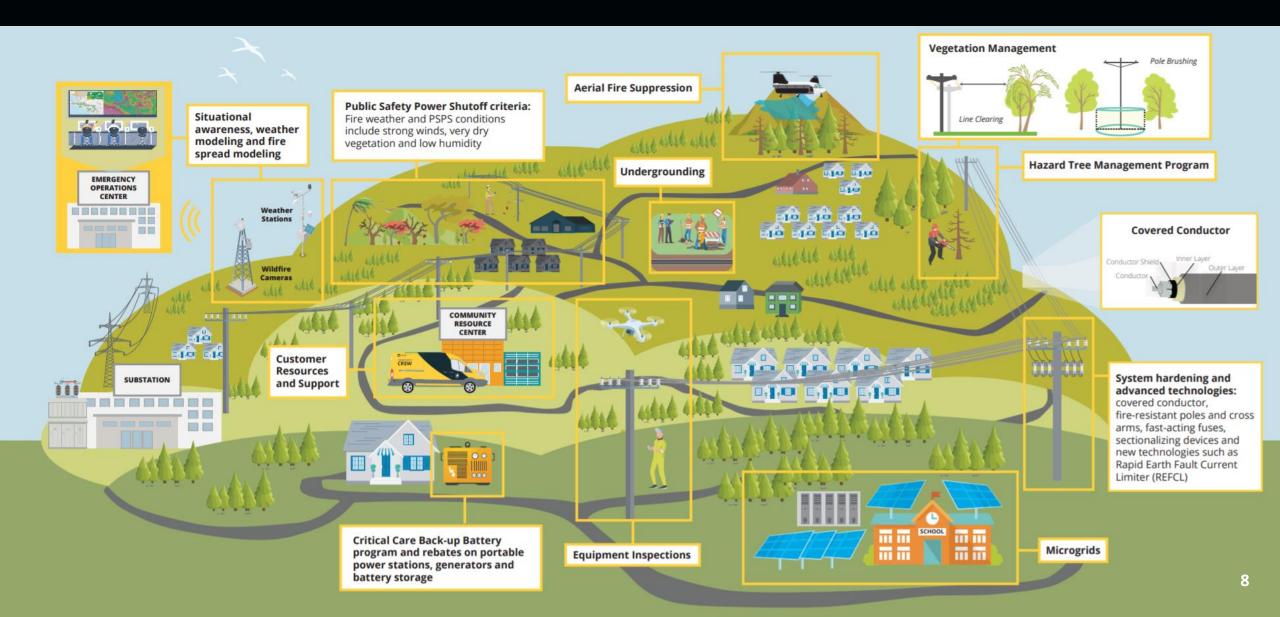
# **2021 WILDFIRE SEASON**

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\*



# **REDUCING WILDFIRE RISK IN OUR COMMUNITIES**



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

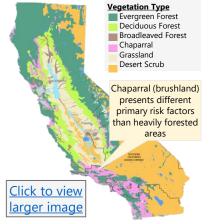
Insulated wire is a very valuable tool to expeditiously and cost-effectively reduce wildfire risk specific to SCE

Undergrounding considered for certain locations based on risk profile

### Geography

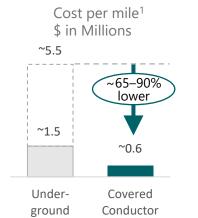
Contact from vegetation and other objects is a key risk factor in much of SCE's area

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

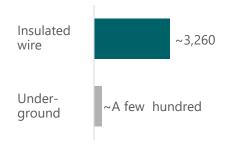


#### **Execution Speed**

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. <u>hypothetical</u> 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

A wildfire directly causing one or more deaths, damaging or destroying more than 500 structures, or burning more than 140,000 acres of land
 Though March 31, 2022
 Based on 2021 weather and fuel conditions

# **PUBLIC SAFETY POWER SHUTOFFS**



Damage/hazards found after strong winds during PSPS • 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** 

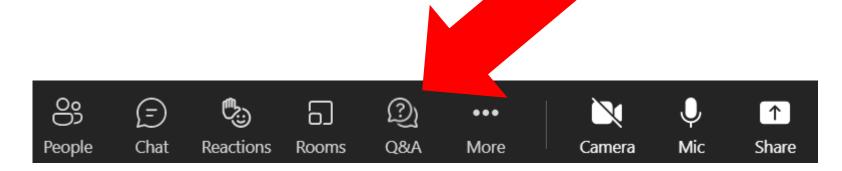
Primarily impacts circuits in high fire risk areas

 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

| <image/> <section-header></section-header>  |  | Weather<br>Stations   | Switching<br>Protocols   | Operational protocols  |
|---|--|---|--|--|
| Replaced an additional<br>1,500 miles of bare wire<br>with insulated wire; 700<br>miles of expedited grid<br>hardening to raise PSPS<br>threshold prior to peak<br>wind season. Plan to<br>replace 1,100 miles in<br>2022; 270 miles of<br>expedited grid hardening | Installed 23<br>additional remote-<br>controlled<br>sectionalizing<br>devices to segment<br>and isolate circuits<br>during PSPS. Plan<br>to add 15 devices<br>in 2022. | Installed 400<br>additional weather<br>stations for<br>improved<br>forecasting and<br>accuracy of PSPS<br>operations. Plan to<br>add 150 weather<br>stations in 2022. | Removed <b>81,000</b><br>customers from<br>PSPS scope<br>through<br>exceptions and<br>switching<br>protocols | Utilized up-to-date<br>information on<br>ground conditions<br>(e.g., lack of<br>vegetation) to<br>assess wildfire<br>threat and the need<br>for PSPS |

# **2021 PSPS EVENTS**

|                                  | Statistics          | Customers<br>Interrupted | Circuit<br>Interruptions | Customer<br>Minutes of<br>Interruption |
|----------------------------------|---------------------|--------------------------|--------------------------|--|
| Service Area<br>Compared to 2020 | 2020 Fire<br>Season | ~348K                    | ~584                     | ~388M                                  |
|                                  | 2021 Fire<br>Season | ~85K ~124 ~105M          | ~105M                    |  |
|                                  | Delta               | <b>↓76%</b>              | <b>↓</b> 79%             | <b>↓73%</b>                            |
|                                  |                     |                          |                          |  |
| San                              | Statistics          | Customers<br>Interrupted | Circuit<br>Interruptions | Customer<br>Minutes of<br>Interruption |
| Bernardino                       | 2020 Fire<br>Season | ~65K                     | ~107                     | ~53M                                   |

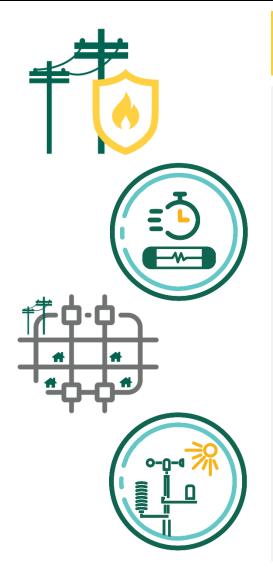
# **56%**

REDUCTION IN CUSTOMER MINUTES OF INTERRUPTION IN SAN BERNARDINO COUNTY

San Bernardino County Compared to 2020

| Statistics          | Customers<br>Interrupted | Circuit<br>Interruptions | Minutes of<br>Interruption |
|---------------------|--------------------------|--------------------------|----------------------------|
| 2020 Fire<br>Season | ~65K                     | ~107                     | ~53M                       |
| 2021 Fire<br>Season | ~11K                     | ~24                      | ~23M                       |
| Delta               | <b>↓83%</b>              | <b>↓78%</b>              | ↓56%                       |

# **EXPEDITED GRID HARDENING** ON CIRCUITS IMPACTED BY PSPS IN SAN BERNARDINO COUNTY



### **Completed in 2021**

- Expedited installation of\*:
  - 54 miles of insulated wire
  - **3** sectionalizing devices
  - 1 weather stations
- Removed 5 circuits and 5 circuit segments from PSPS consideration
- Raised PSPS wind threshold on
   9 circuits

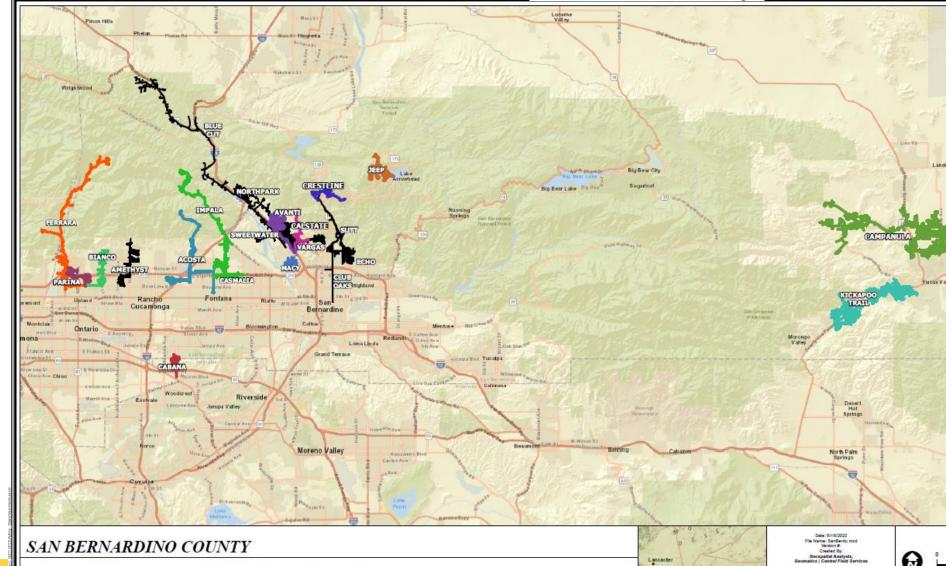
#### \*Note: Number of total installed on all circuits in the county may be higher

### Plans for 2022

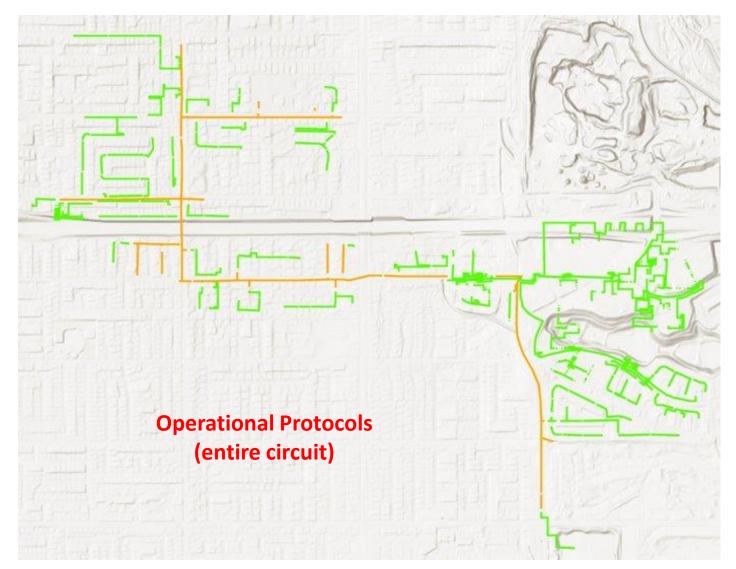
- Expedite installation of:
  - 86 miles of insulated wire
  - 1 weather station
- Removed **1** circuit from PSPS consideration
- Raise PSPS wind threshold on
   5 circuit segments and 1 circuit

Target Completion Date: Oct. 1, 2022

### Identified Circuits for Expedited Grid Hardening in San Bernardino County



# EXAMPLE OF REDUCING THE NEED FOR PSPS



### **Circuit:** Parina

**Community:** Rancho Cucamonga, Upland

### **Planned Work:**

• Implement operational protocols to raise PSPS windspeed thresholds

### **Expected Completion Date:**

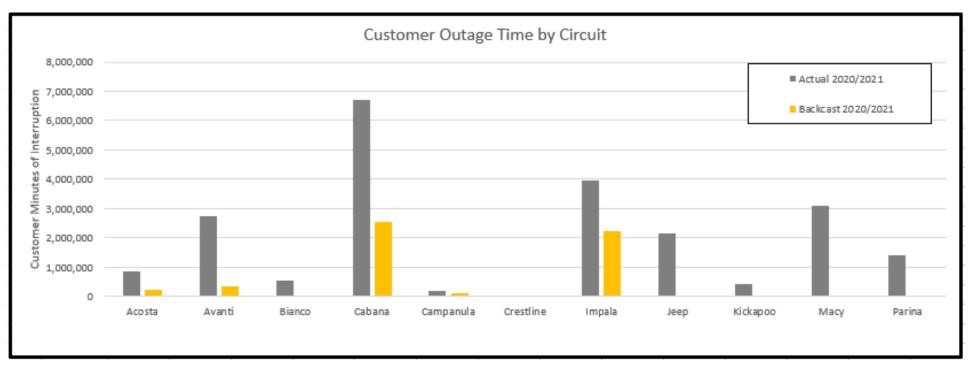
• 10/1/2022

### **Expected Improvements:**

• **100% reduction** in customer outage time, assuming the same weather conditions in 2020

# **EXPECTED IMPROVEMENTS**

With the implementation of our plans this year, we expect to see a **75% reduction in customer outage time** across these PSPS impacted circuits in San Bernardino County communities compared to 2020 and 2021, assuming the same weather conditions



Updated: 05-18-2022

- 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) The Crestline circuit planned work is only a weather station for which benefits cannot be calculated

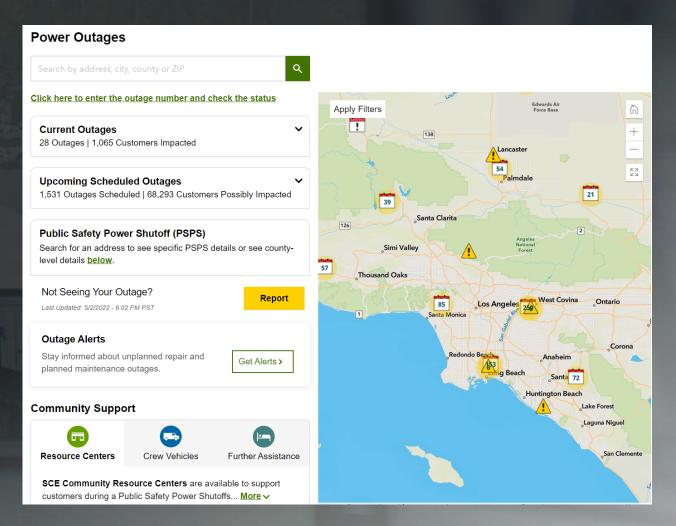
# **PSPS COMMUNICATIONS**

### 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



# **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 <u>marketplace.sce.com</u>

## Website: <u>sce.com/wildfire</u> Energized by Edison Stories & Videos: <u>edison.com/wildfire-safety</u>

Email: 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

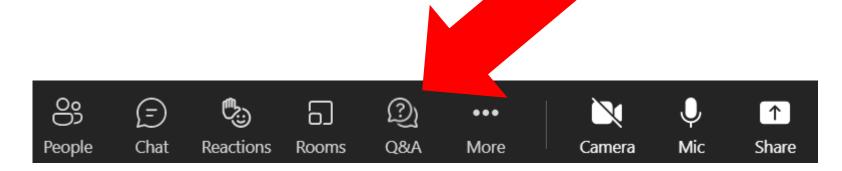
### **BE PREPARED**



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

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# THANK YOU

Website: <u>sce.com/wildfire</u> Energized by Edison Stories & Videos: <u>edison.com/wildfire-safety</u>

> Email: <u>wildfireoutreach@sce.com</u> Social Media: @SCE on Twitter & Facebook SCE Customer Support: 1-800-655-4555

# **ADDITIONAL RESOURCES**

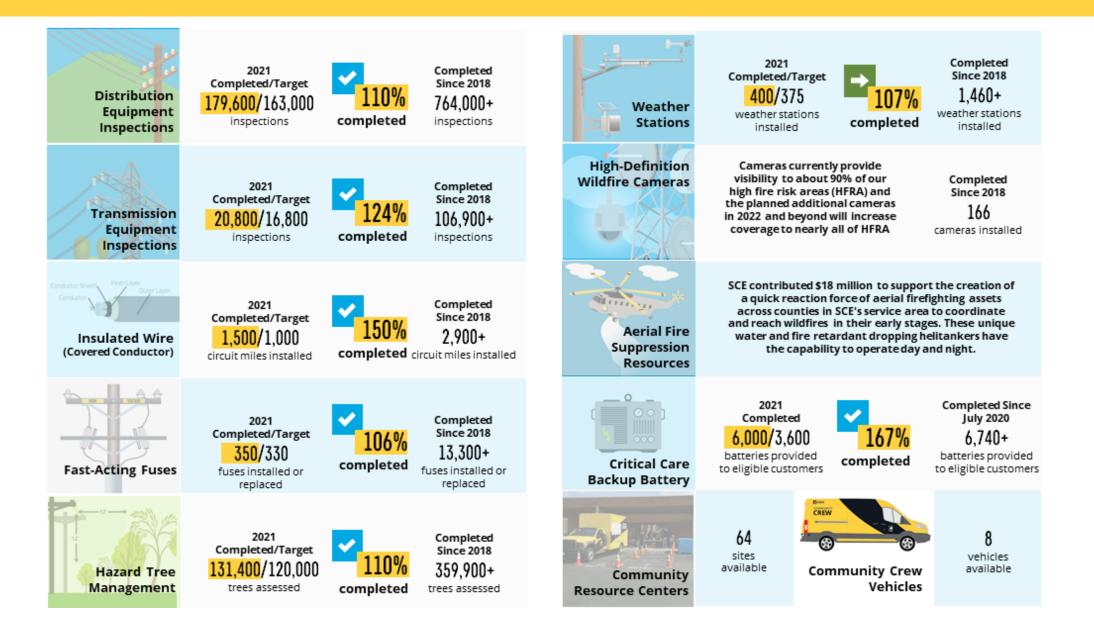




# Wildfire Mitigation Activities **SERVICE AREA**

### 2021 Year-End Progress Report

Data as of 12/31/21



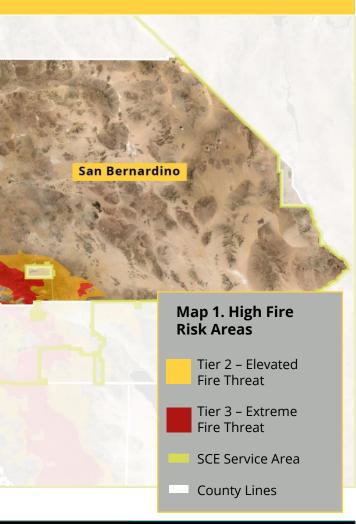


# Wildfire Mitigation Activities **SAN BERNARDINO COUNTY**

### 2021 Year-End Progress Report

Data as of 12/31/21

|                                    | Completed   |                                      |  |
|------------------------------------|---|--------------------------------------|--|
|                                    | 2021  | SINCE 2018                           |  |
| DISTRIBUTION EQUIPMENT INSPECTIONS | 28,795<br>inspections                                 | 121,840<br>inspections               |  |
| TRANSMISSION EQUIPMENT INSPECTIONS | 2,238<br>inspections                                  | 13,259<br>inspections                |  |
| COVERED CONDUCTOR                  | 213<br>circuit miles installed                        | 255<br>circuit miles installed       |  |
| FAST-ACTING FUSES                  | 59<br>fuses installed or replaced                     | 2,870<br>fuses installed or replaced |  |
| SECTIONALIZING DEVICES             | 3<br>devices installed                                | 11<br>devices installed              |  |
| HAZARD TREE MANAGEMENT             | 33,110<br>trees assessed                              | 137,684<br>trees assessed            |  |
| WEATHER STATIONS                   | 59<br>weather stations installed                      | 257<br>weather stations installed    |  |
| HIGH-DEFINITION WILDFIRE CAMERAS   |   | _                                    |  |
| COMMUNITY RESOURCE CENTERS         | 12<br>sites available                                 |                                      |  |
| COMMUNITY CREW VEHICLES            | 8<br>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.

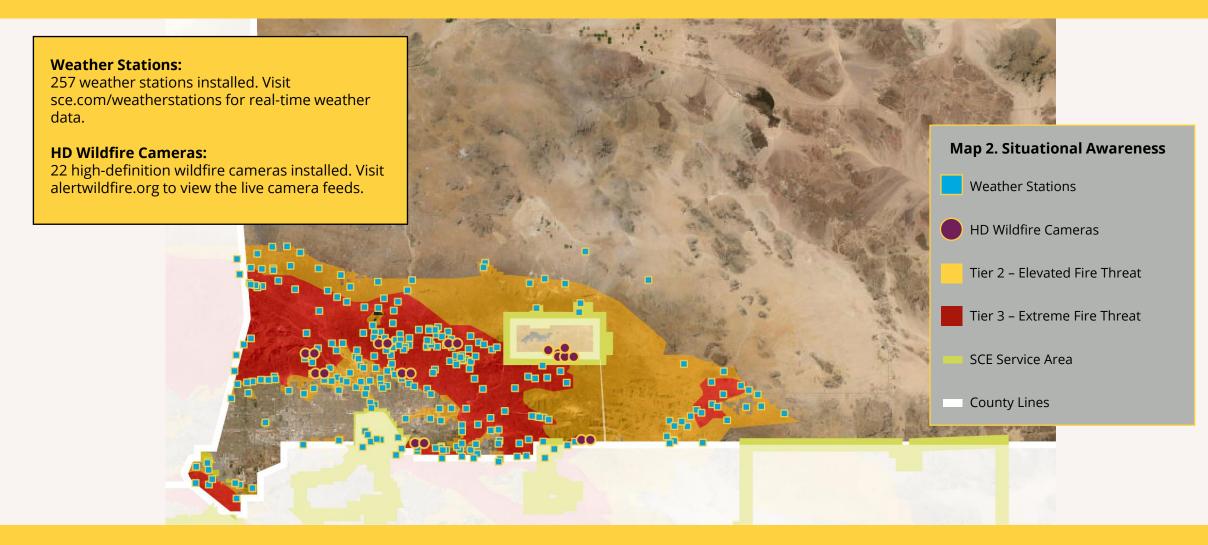
SCE's service area covers about **99%** of San Bernardino County. About **226,300** customer accounts are served by circuits in high fire risk areas.



# Wildfire Mitigation Activities SAN BERNARDINO COUNTY

### 2021 Year-End Progress Report

Data as of 12/31/21



Features depicted herein are intended for informational purposes only. Distances and locations may be distorted and icons may be overlapping at this scale.

# **HELPFUL INFORMATION & RESOURCES**

#### SCE Wildfire Webpage – <u>sce.com/wildfire</u>

### **SCE** Notifications

- Sign up for PSPS alerts <u>sce.com/pspsalerts</u>
- Sign up for the Energized by Edison Wildfire Mitigation Newsletter – energized.edison.com/newsletter

#### **Situational Awareness**

PSPS maps and information – **<u>sce.com/psps</u>** 

- PSPS decision making sce.com/pspsdecisionmaking
- Role of weather in PSPS <u>sce.com/fireweather</u>
- CPUC wildfire maps ia.cpuc.ca.gov/firemap/
- Wildfire cameras alertwildfire.org
- Weather stations <u>sce.com/weatherstations</u>

### Preparedness

- SCE emergency preparedness sce.com/beprepared
- CAL FIRE preparedness readyforwildfire.org

#### **Vegetation Management**

 Vegetation Management – <u>sce.com/safety/power-lines</u>; contact 1-800-655-4555 or <u>safetrees@sce.com</u>

#### **Customer Programs & Rebates**

- SCE Customer Programs & Resources <u>sce.com/customerresources</u>
- SCE Marketplace (rebates and programs) marketplace.sce.com
- SCE Medical Baseline Program sce.com/medicalbaseline
- Self Generation Incentive Program (SGIP) <u>sce.com/sgip</u> or <u>selfgenca.com</u>
- SCE Customer Support: 1-800-655-4555

### **Community Meetings**

 Join SCE's wildfire safety community meetings – sce.com/wildfiresafetymeetings

### **Energized by Edison**

 Stories and videos on SCE's wildfire mitigation efforts and PSPS – edison.com/wildfire-safety

# **VIDEO: INSTALLING INSULATED WIRE AERIALLY**

