

WELCOME - HOUSEKEEPING

Thank you for joining us this evening.

This meeting is being recorded.

Please note, the chat function, 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

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.

PRESENTERS



Mark Bassett
Emergency Services Manager
Riverside County



Jeremy Goldman
Government Relations
Manager
Local Public Affairs



Paul Grigaux
Vice President
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**

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.

Alert Riverside County:

Alert RivCo, Emergency Management Department,
Riverside County (rivcoready.org/alertrivco)

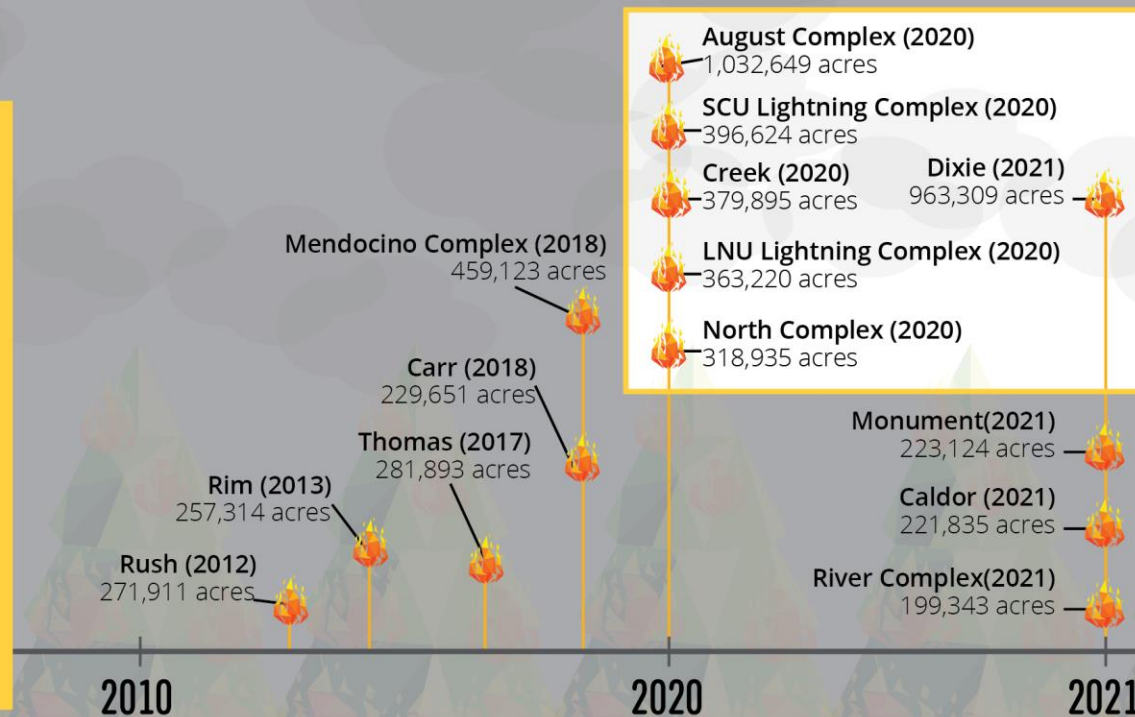
Wildfire Preparedness Tips:

CAL FIRE (readyforwildfire.org)

2021 WILDFIRE SEASON

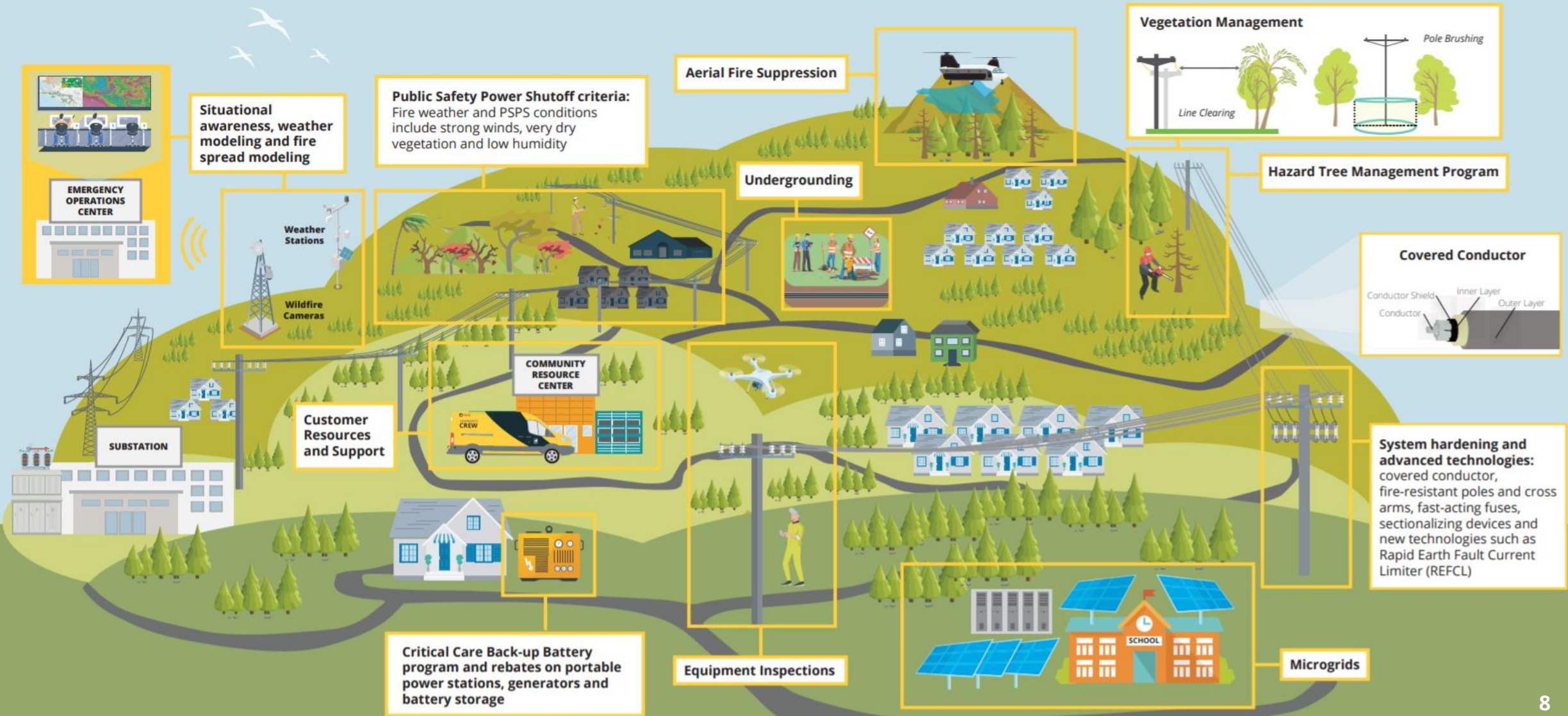
California experienced another year of extreme wildfire activity, exacerbated by intensifying drought. Dry vegetation and strong winds continue to threaten our communities during year-round fire season

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



*Source: https://www.fire.ca.gov/media/4jandlhh/top20_acres.pdf

REDUCING WILDFIRE RISK IN OUR COMMUNITIES



VIDEO: INSTALLING INSULATED WIRE AERIALLY



SOUTHERN CALIFORNIA
EDISON[®]

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

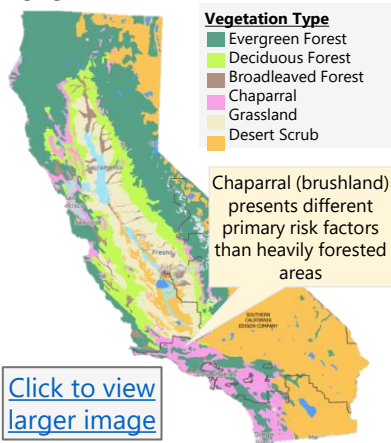
Insulated wire is a very valuable tool to expeditiously and cost-effectively reduce wildfire risk specific to SCE

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

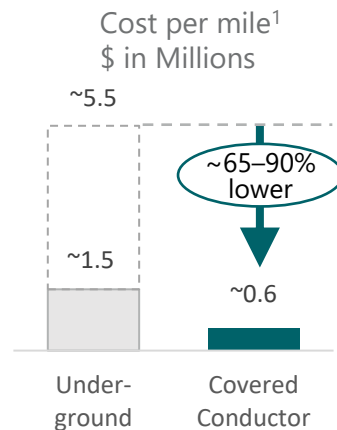
Insulated wire is very effective in mitigating these risks



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 wire² vs. hypothetical undergrounded miles³



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 catastrophic¹ 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 wire²

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 circuits³

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

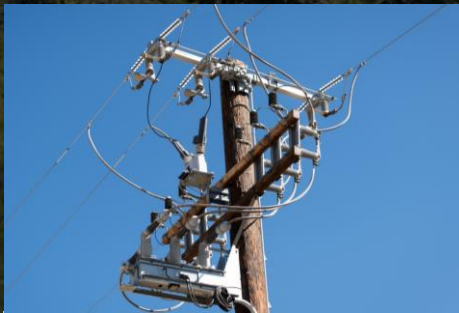
REDUCING THE NEED FOR PSPS

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%

Riverside County Compared to 2020

Statistics	Customers Interrupted	Circuit Interruptions	Customer Minutes of Interruption
2020 Fire Season	~79k	~120	~74M
2021 Fire Season	~29k	~44	~34M
Delta	↓63%	↓63%	↓54%

54%

**REDUCTION IN
CUSTOMER MINUTES
OF INTERRUPTION IN
RIVERSIDE COUNTY**

EXPEDITED GRID HARDENING

ON CIRCUITS IMPACTED BY PSPS IN RIVERSIDE COUNTY



Completed in 2021

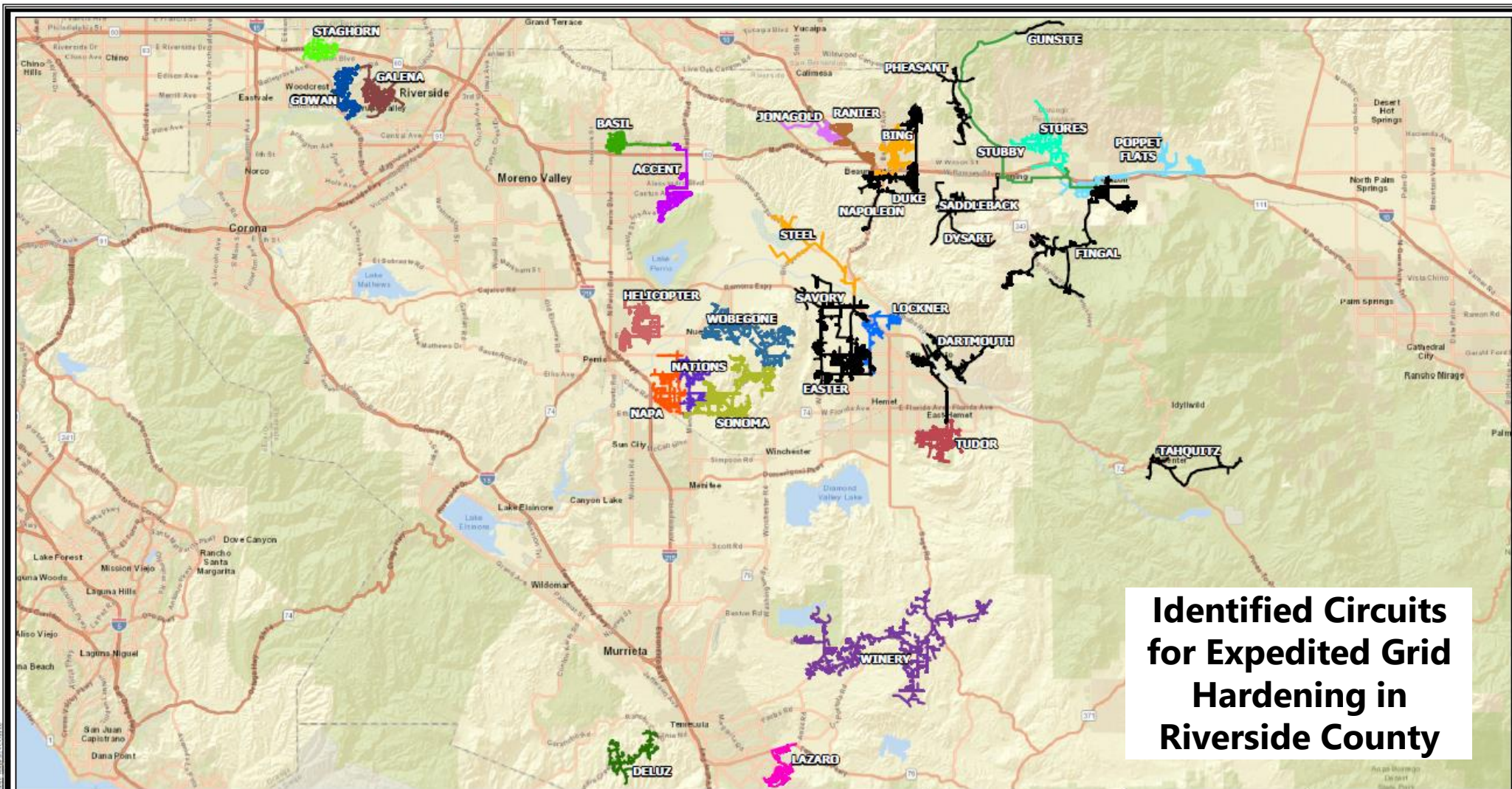
- Expedited installation of*:
 - **80** miles of insulated wire
 - **6** sectionalizing devices
 - **2** weather stations
- Removed **5** circuits and **1** circuit segments from PSPS consideration
- Raised PSPS wind threshold on **3** circuits

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

Plans for 2022

- Expedite installation of:
 - **127** miles of insulated wire
 - **1** sectionalizing devices
 - **9** weather stations
- Remove **1** circuit from PSPS consideration
- Raise PSPS wind threshold on **5** circuits

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



Identified Circuits for Expedited Grid Hardening in Riverside County

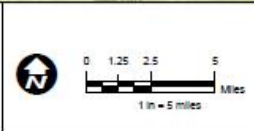
RIVERSIDE COUNTY

CIRCUITS TARGETED FOR 2022 COMPLETION:

- | | | | | | | |
|----------------------|--------|------------|---------|--------------|--------|----------|
| — COMPLETED CIRCUITS | ACCENT | GALENA | LAZARO | POPPET FLATS | STEEL | WINERY |
| | BASIL | GOWAN | LOCKNER | RANIER | STORES | WOBEGONE |
| | BING | HELICOPTER | NAPA | SONOMA | STUBBY | |
| | DELUZ | JONAGOLD | NATIONS | STAGHORN | TUDOR | |



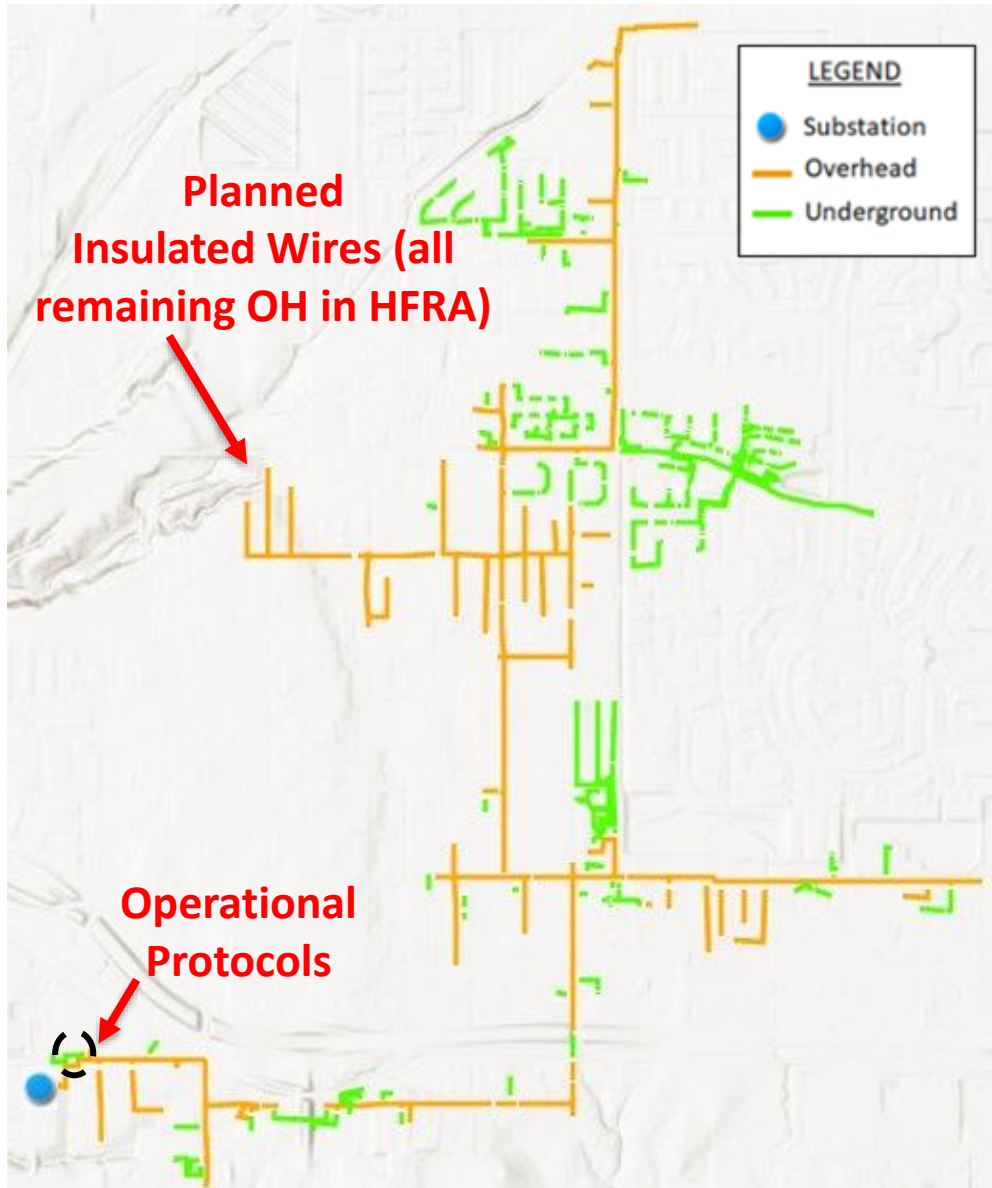
Date: 5/9/2022
 File Name: RVCC.mxd
 Version #
 Created By: Geospatial Analysis, Geomatics | Central Field Services



Features depicted herein are planning level accuracies and intended for informational purposes only. Distances and locations may be distorted at the scale. Always consult with the proper legal documents or agencies regarding such features.
 Central Field Services



EXAMPLE OF REDUCING THE NEED FOR PSPS



Circuit: Bing

Community: Beaumont, Cherry Valley

Planned Work:

- Replace .31 miles of existing overhead wire with new insulated wire
- Implement operational protocols to raise PSPS windspeed thresholds

Expected Completion Date:

- 10/1/2022

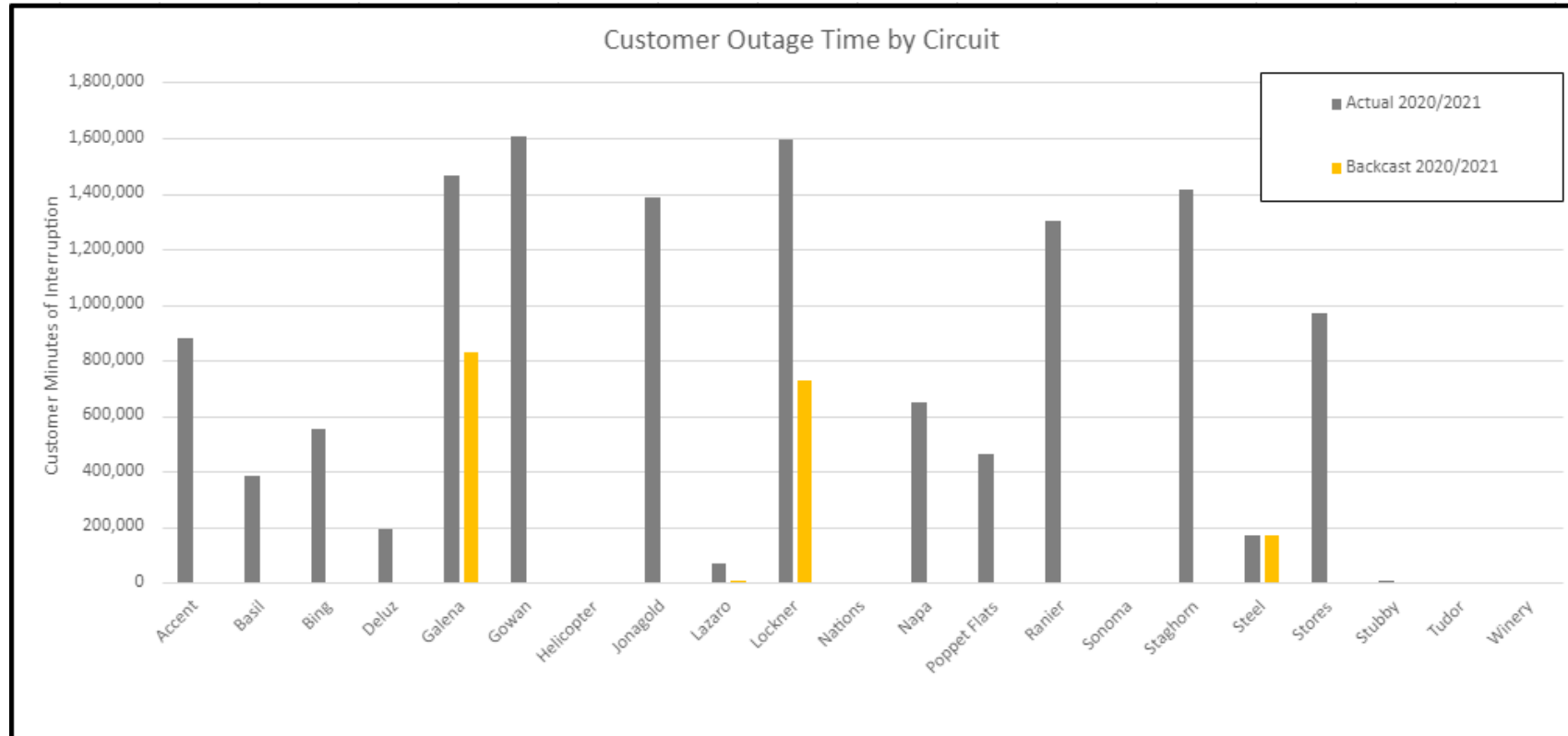
Expected Improvements:

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

EXPECTED IMPROVEMENTS

For circuit details and status, visit:
sce.com/pspsenhancements

With the implementation of our plans this year, we expect to see an **87% reduction in customer outage time** across these PSPS impacted circuits in Riverside County communities compared to 2020 and 2021, assuming the same weather conditions



Updated: 05-26-2022

- 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 Helicopter, Nations, Sonoma, Tudor, and Winery 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](#) ▼

The map on the right shows a geographical view of Southern California with several yellow warning icons indicating power outages. The icons are labeled with numbers: 54, 39, 21, 57, 85, 250, 153, 6, 72, and 1. Major cities and regions shown include Lancaster, Palmdale, Santa Clarita, Simi Valley, Thousand Oaks, Los Angeles, West Covina, Ontario, Santa Monica, Redondo Beach, Long Beach, Anaheim, Santa Ana, Huntington Beach, Lake Forest, Laguna Niguel, and San Clemente. The map also shows major highways like 138, 126, 5, 101, 10, 15, 210, 60, 78, and 91.

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

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
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

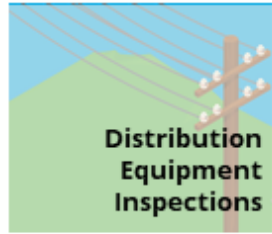
BE PREPARED



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

ADDITIONAL RESOURCES





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

 **110%**
completed

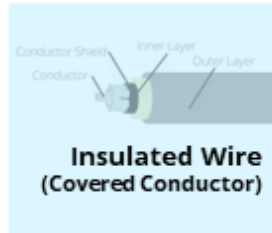
Completed
Since 2018
764,000+
inspections



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



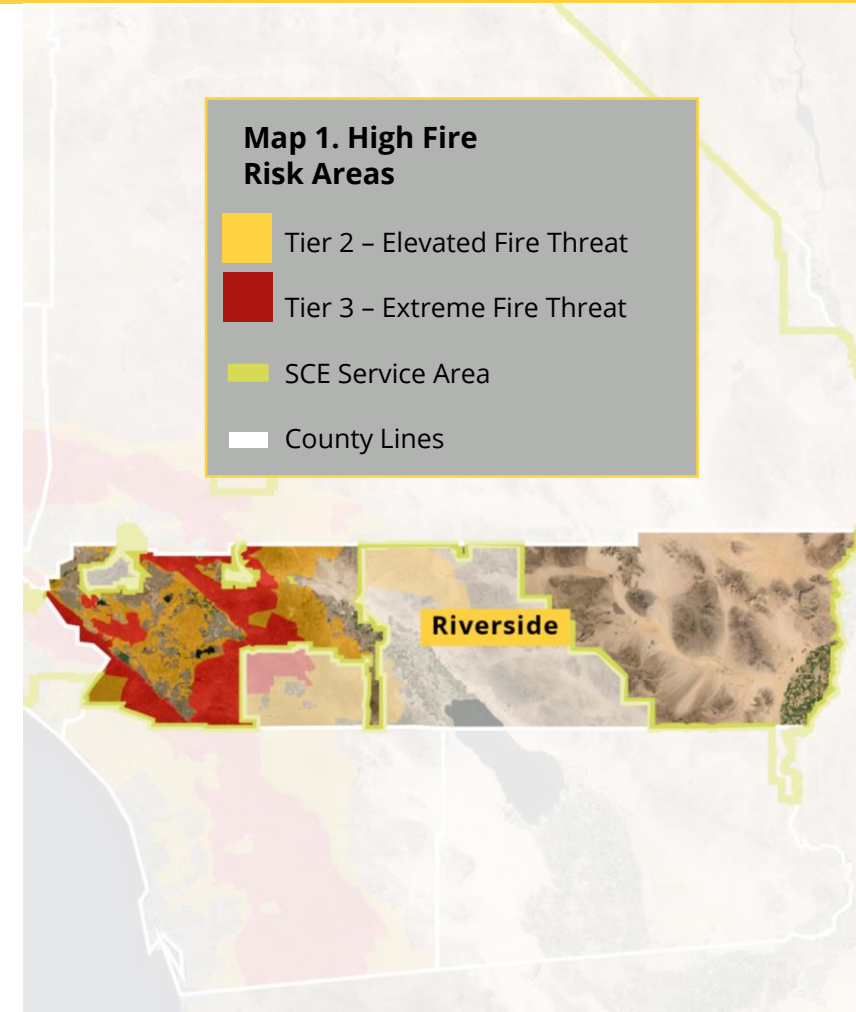
64
sites
available



8
vehicles
available

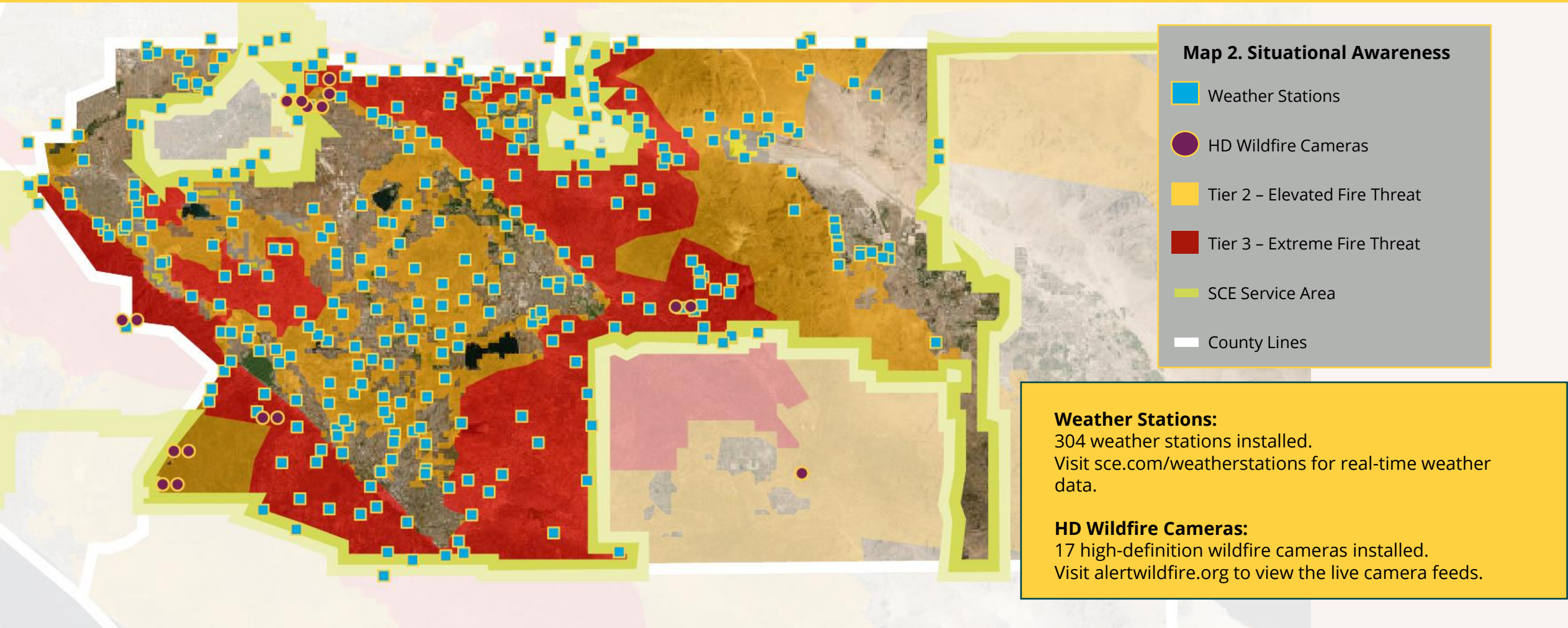
Completed

	2021	SINCE 2018
DISTRIBUTION EQUIPMENT INSPECTIONS	41,701 inspections	150,086 inspections
TRANSMISSION EQUIPMENT INSPECTIONS	4,043 inspections	18,586 inspections
COVERED CONDUCTOR	455 circuit miles installed	694 circuit miles installed
FAST-ACTING FUSES	107 fuses installed or replaced	2,356 fuses installed or replaced
SECTIONALIZING DEVICES	5 devices installed	45 devices installed
HAZARD TREE MANAGEMENT	8,675 trees assessed	46,429 trees assessed
WEATHER STATIONS	95 weather stations installed	304 weather stations installed
HIGH-DEFINITION WILDFIRE CAMERAS	17 cameras installed	
COMMUNITY RESOURCE CENTERS	5 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 **65%** of Riverside County. About **306,900** customer accounts are served by circuits in high fire risk areas.



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

Situational Awareness

PSPS maps and 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/
- 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

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 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)