



City of Camarillo Preparedness Update

August 23 , 2022



**Our Commitment to
California**
Keeping our communities safe from wildfires

SCE SERVICE AREA & HIGH FIRE RISK AREAS



50,000 SQ. MI.
of SCE service
area across
southern, central
and coastal
California

14,000 SQ. MI.
of high fire risk
areas



52,000 MI.
of SCE overhead
distribution and
transmission lines

14,000 MI.
in high fire risk areas

**Counties with
high fire risk
area served by
SCE**

Fresno
Inyo
Kern
Los Angeles
Mono
Orange
Riverside
San Bernardino
Santa Barbara
Tulare
Ventura



5M
customer accounts
or 15M residents in
SCE's service area

1.3M
customer accounts
or 3.9M residents
served by circuits in
high fire risk areas

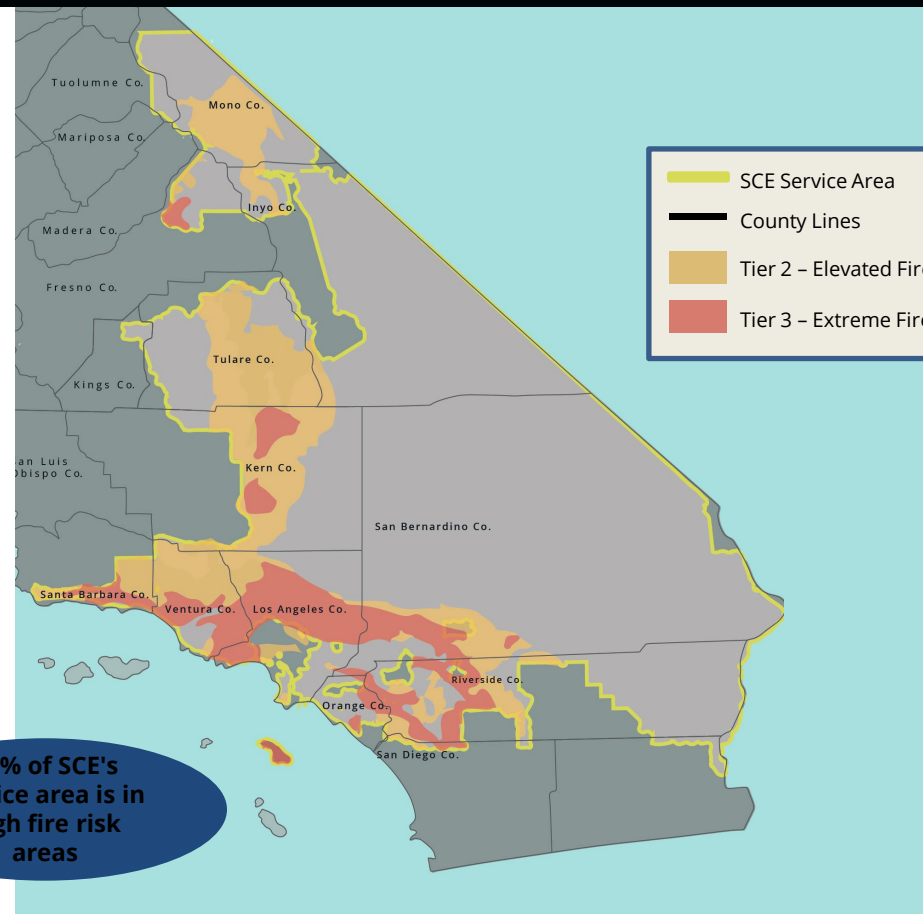


1.4M
power poles

300,000
in high fire risk
areas

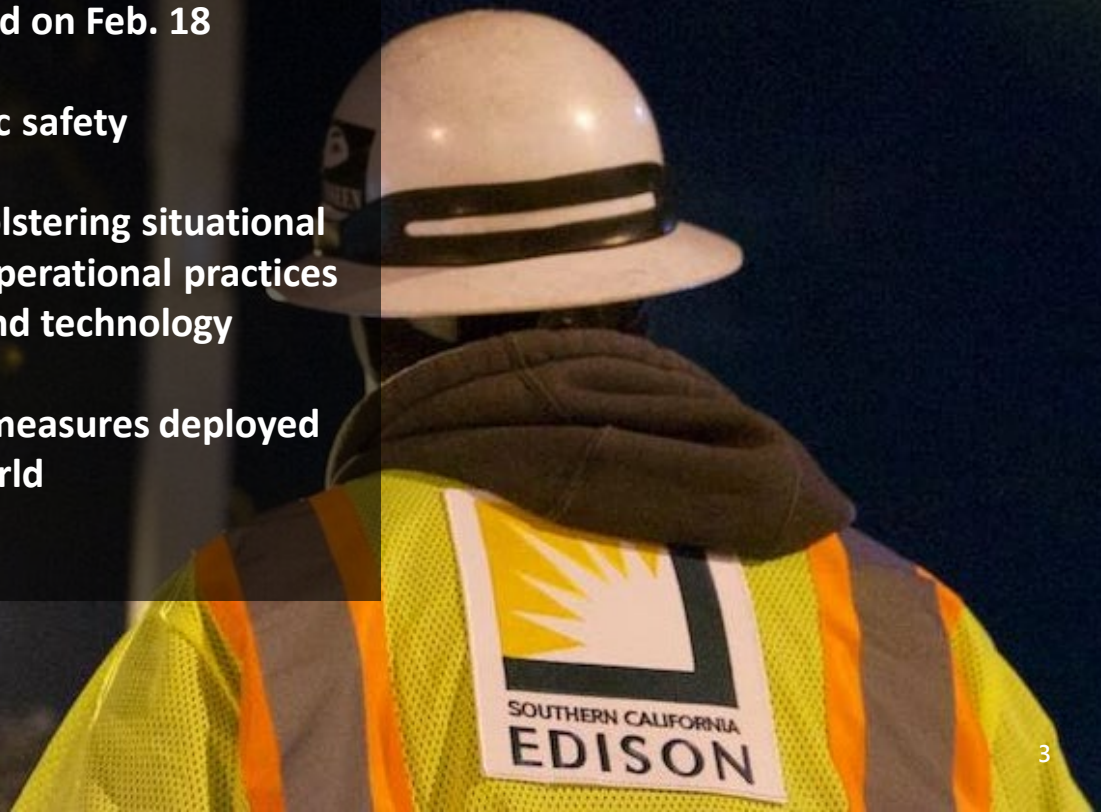
**Counties with no
or limited high
fire risk areas
served by SCE**

Imperial
Kings
Madera
Tuolumne

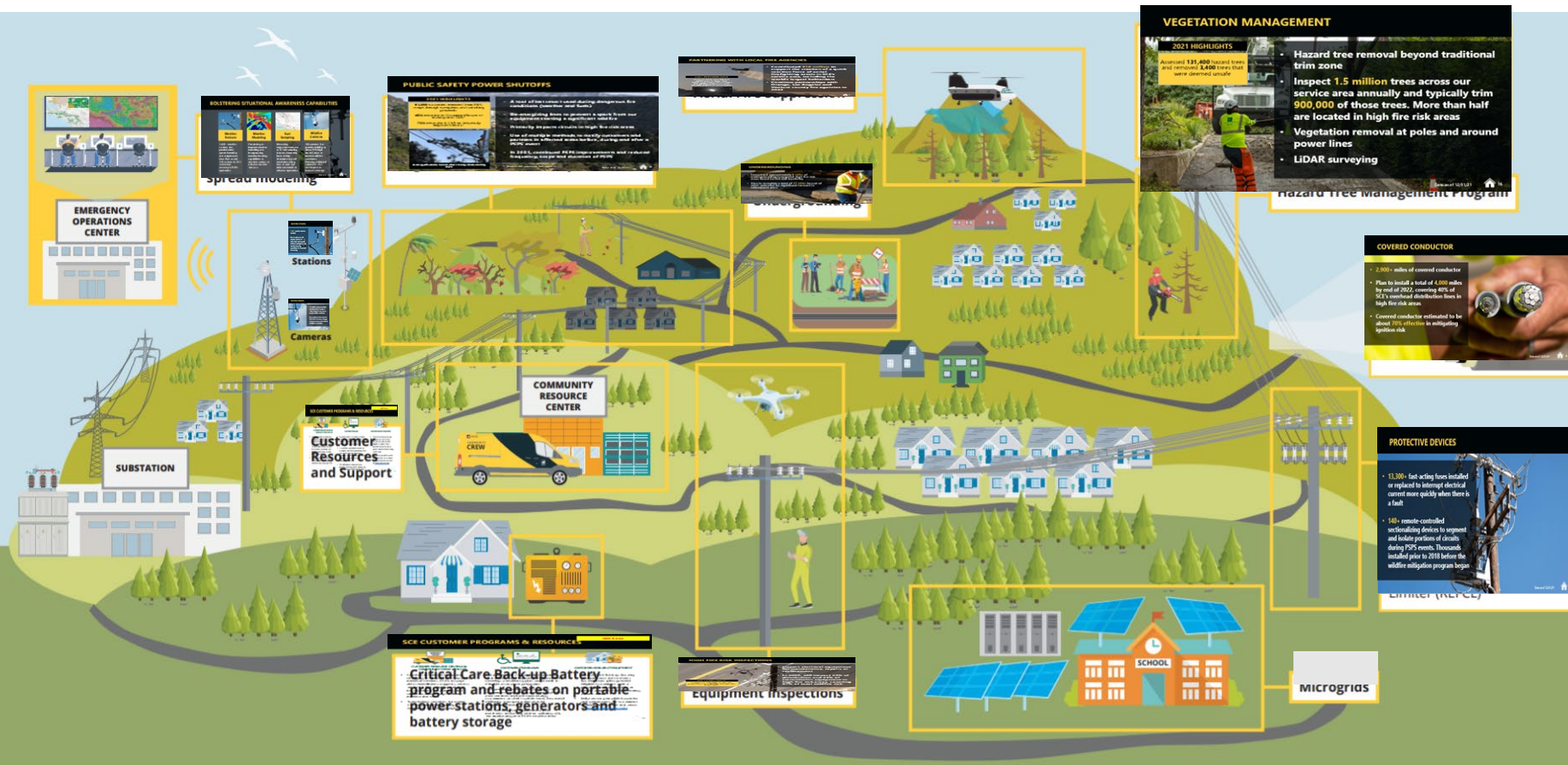


OUR WILDFIRE MITIGATION PLAN

- **2022 Wildfire Mitigation Update filed on Feb. 18**
- **Primary objective is to protect public safety**
- **Further hardening infrastructure, bolstering situational awareness capabilities, enhancing operational practices and harnessing the power of data and technology**
- **Incorporating advanced mitigation measures deployed in high fire risk areas around the world**



REDUCING WILDFIRE RISK IN OUR COMMUNITIES



SCE CUSTOMER PROGRAMS & RESOURCES



CUSTOMER RESOURCE CENTERS & COMMUNITY CREW VEHICLES

- Services offered: information, charging of mobile and portable 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, and services include connecting customers to shelf-stable food, hot meal delivery, transportation and/or temporary shelter
- SCE will improve communications methods, including videos utilizing ASL for marketing and PSPS notifications

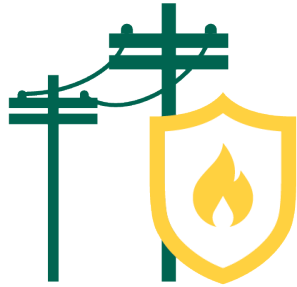


CUSTOMER RESILIENCY EQUIPMENT

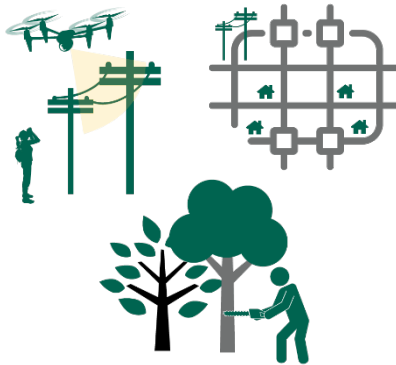
- Critical Care Backup Battery program and the In-Event Battery Loan pilot provide eligible customers with a portable backup battery to power a medical device during a PSPS event
- Rebates on portable batteries and generators for customers residing in high fire risk areas on marketplace.sce.com



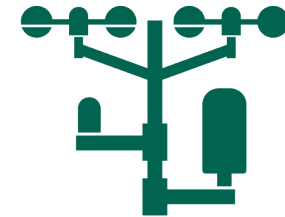
A COMPREHENSIVE STRATEGY TO PREVENT, COMBAT AND RESPOND



**HARDENING
THE ELECTRIC
GRID**



**ENHANCING
OPERATIONAL
PRACTICES**



**BOLSTERING
SITUATIONAL
AWARENESS
CAPABILITIES**

HARDENING ELECTRIC GRID & INFRASTRUCTURE



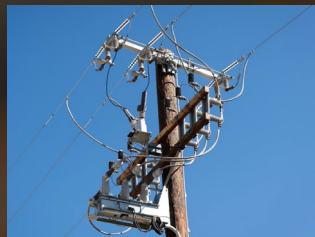
COVERED CONDUCTOR

Replacing bare wire with insulated wire (covered conductor) to reduce wildfire risk as well as safely raise windspeed thresholds for PSPS in targeted areas. About 2,900 miles of insulated wire installed since 2018



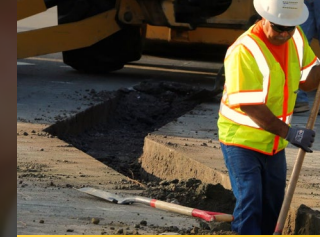
FIRE-RESISTANT POLES

Installing mix of composite poles and wooden poles with fire-resistant wrap to reduce risk of damaged poles during an emergency



PROTECTIVE DEVICES

Installing fast-acting fuses to interrupt electric current more quickly when there's an electrical fault and remote-controlled sectionalizing devices to segment and isolate portions of circuits during PSPS events



UNDERGROUNDING

Complete 17 miles of undergrounding in 2021-22 in targeted high fire risk areas based on risk and feasibility. Potential for significant increase in subsequent years.



MICROGRIDS

Partnered with San Jacinto High School for a microgrid resiliency pilot. Second pilot site at a school in the Rialto Unified School District will be available in 2022.



HIGH FIRE RISK INSPECTIONS

2021 HIGHLIGHTS

Completed **179,600** distribution inspections and **20,800** transmission inspections

Ref # _____

Sorry We Missed You

In our ongoing commitment to safety and California's fight against wildfire, **SCE's Inspections team** will be conducting aerial inspections of our electrical equipment using **drones** and **helicopters**. Our operational time is **daylight hours, Mondays – Saturdays**.

We stopped by your house on

Date: _____ Time: _____

☐ We can't access the power pole. Please:

☐ Unlock gate

☐ Keep dogs away during _____

☐ Keep livestock (including horses, sheep, bulls, etc.) away from electrical structures and pathways.

☐ Clear obstacles around pole (2 feet minimum)

☐ Advise if an alternate path to utilities is required. If so, please call Phone: _____

☐ Other: _____

We will return on

If not convenient, please call us to reschedule

Phone: _____



SOUTHERN CALIFORNIA
EDISON

Date as of
12/31/21

VEGETATION MANAGEMENT

2021 HIGHLIGHTS

Assessed **131,400** hazard trees and removed **3,400** trees that were deemed unsafe

- Hazard tree removal beyond traditional trim zone
- Inspect **1.5 million** trees across our service area annually and typically trim **900,000** of those trees. More than half are located in high fire risk areas
- Vegetation removal at poles and around power lines
- LiDAR surveying



PUBLIC SAFETY POWER SHUTOFFS

2021 HIGHLIGHTS

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

45% reduction in Customer Minutes of Interruption (CMI)¹

73% reduction in CMI on frequently impacted circuits¹



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

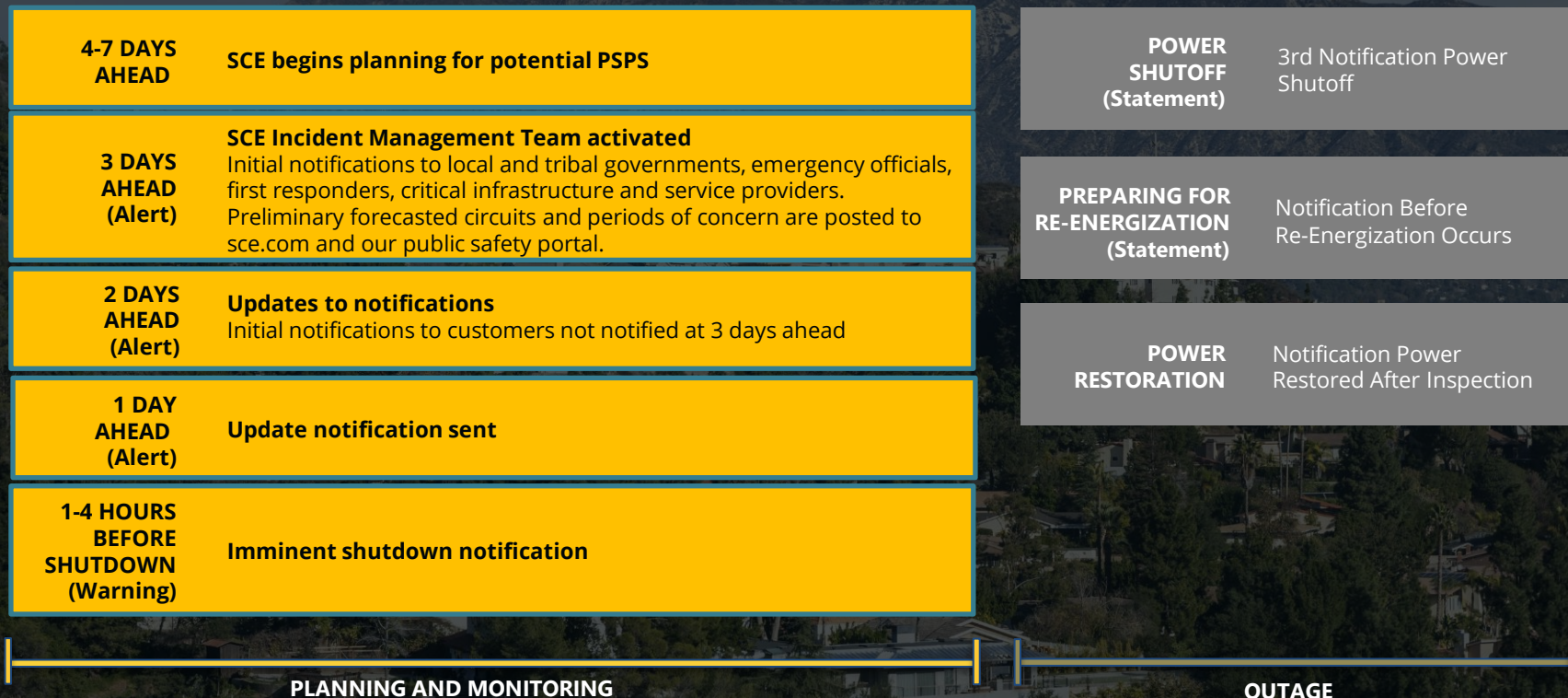
1. Based on 2021 weather and fuel conditions

10

Data as of
12/31/21

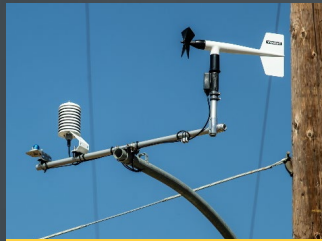


PSPS IDEAL TIMELINE



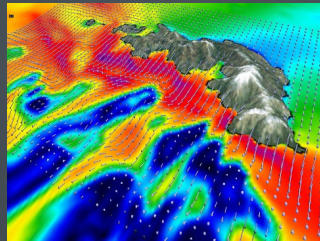
SCE will target the schedule above to notify customers. Sudden onset of hazardous conditions that jeopardize public safety may impact SCE's ability to provide advanced notice to customers. Notifications can be provided via email, text, voice call, and TTY formats; zip code-level alerts; and NextDoor.

BOLSTERING SITUATIONAL AWARENESS CAPABILITIES



Weather Stations

1,460+ weather stations that provide wind speed, humidity and temperature data. Plan to add 150 stations in 2022 to increase accuracy of PSPS operations



Weather Modeling

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



Fuel Sampling

Measuring vegetation moisture at 15 fuel sampling sites on a biweekly basis to help determine dry fuel conditions. Using data to train fuel moisture model to enhance operations



Wildfire Cameras

166 cameras that provide visibility to about 90% high fire risk areas to monitor wildfire conditions. Planning additional cameras in 2022 and beyond to increase coverage

Data as of
12/31/21



NEW TECHNOLOGIES



Early Fault Detection

Early Fault Detection (EFD) detects high frequency radio emissions which can occur from incipient failure, such as severed strands on a conductor, vegetation contact, or tracking on insulators



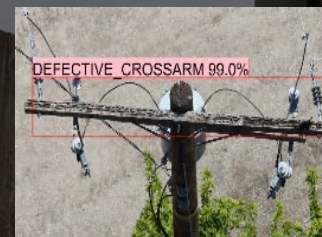
Fault Detection

Distribution Open Phase Detection (DOPD) detects one or more open phase (broken conductor) conditions to reduce risks associated with down-wire incidents



High Impedance Detection

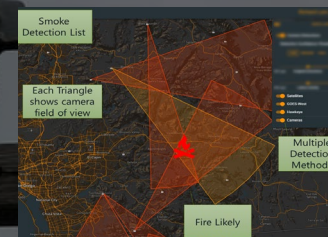
High Impedance (Hi-Z) relays use protective elements to reduce the propagation of low-magnitude fault conditions (Hi-Z conditions) that can lead to ignition risk, such as downed conductor or arcing events



Asset Defect Detection Using AI/ML

Applies image recognition algorithms to speed up identification of potential asset defects. Detection algorithm will continue to improve over time with **artificial intelligence and machine learning**.

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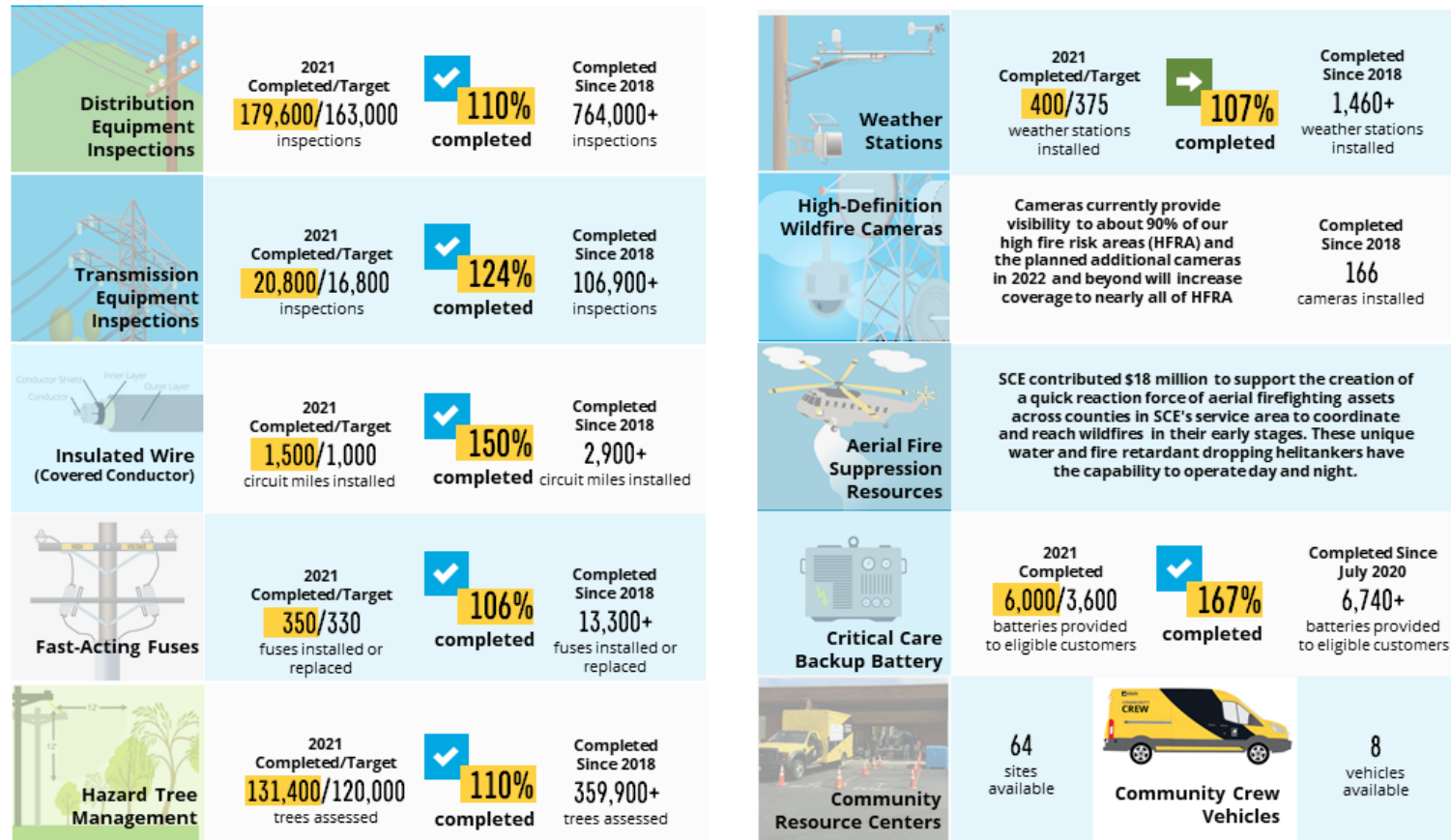


Fire Detection

Uses **satellite technology** and SCE's HD wildfire cameras to detect and map wildfire ignitions. Results in a more comprehensive view of fires that improves intelligence for more rapid and effective fire response.



2021 YEAR-END PROGRESS UPDATE



FOR MORE INFORMATION:

SCE Wildfire Webpage – sce.com/wildfire

SCE Notifications

Sign up for PSPS alerts – 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

PSPS decision making – sce.com/pspsdecisionmaking

Role of weather in PSPS – sce.com/fireweather

CPUC wildfire maps – ia.cpuc.ca.gov/firemap/

Wildfire cameras – alertwildfire.org

Preparedness

SCE emergency preparedness – sce.com/beprepared

CAL FIRE preparedness – readyforwildfire.org

Vegetation Management

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

Customer Programs & Rebates

- SCE Customer Programs & Resources – sce.com/customerresources
- SCE Marketplace (rebates and programs) – marketplace.sce.com
- SCE Medical Baseline Program – sce.com/medicalbaseline
- Self Generation Incentive Program (SGIP) – sce.com/sgip or selfgenca.com
- 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

FOR MORE INFORMATION: [SCE.com/medicalbaseline](https://sce.com/medicalbaseline) & Marketplace.sce.com



Quick Services

Your Home

Demand Response

Rebates, Incentives & Saving Tips

Help Paying Your Bill

FERA & CARE Discounted Rates

One-Time Bill Assistance

Energy Savings Assistance Program

Medical Baseline Allowance

Home Efficiency Guide

Electric Vehicles

Generating Your Own Power

Energy Education Centers

Residential Rate Plans

Your Business

Customer Support

Partners & Vendors

Outage Center

Safety

Wildfire Safety

Medical Baseline Allowance

[Home](#) > [Your Home](#) > [Help Paying Your Bill](#) > [Medical Baseline Allowance](#)



Get Help If You Use Medical Equipment

If you or someone in your household requires the regular use of electrically-powered medical equipment or other qualifying medical devices, you may be eligible for our Medical Baseline Allowance program. This program provides an additional 16.5 kilowatt-hours (kWh) of electricity per day. Provided at the lowest baseline rate, this helps offset the cost of operating the medical equipment.

The Application Process

Step 1: Qualification

Step 2: Apply

Step 3: Renewal

Find Out If You Qualify

You may be eligible for the Medical Baseline Allowance if you or another full-time resident in your home:

- Requires the regular use of any electrically-powered medical/life support equipment (see partial list below) that mechanically or artificially sustains life or restores or replaces a vital physical function, including mobility, and/or
- Are temperature sensitive and require air conditioning, and / or
- Has a life-threatening illness or compromised immune system or other condition that requires heating and/or cooling.

If you or someone in your home qualifies, call us at 1-800-655-4555 while you complete the application process, we'll note on your account that there is a resident at your address who uses a qualifying medical device.

Download and print brochure: [English](#), and [English \(Large Font\)](#)

List of Some Qualifying Medical Devices

Devices used for therapy but not medically required for sustaining life do not qualify.

- Aerosol Tent
- Air Mattress/Hospital Bed
- Acnea Monitor
- Left Ventricular Assist Device (LVAD)
- Motorized Wheelchair/Scooter
- Oxygen Generator

sce.com/residential/rebates-savings



CAISO Declares Flex Alert

The California Independent System Operator (CAISO) has declared a Flex Alert for Wednesday, August 17, 2022. You can help by reducing your electricity use during the peak hours of 4 p.m. to 9 p.m. [Learn more](#)

Quick Services

Your Home

Demand Response

Rebates, Incentives & Saving Tips

Residential Solar Programs

Smart Energy Program

Rebates & Incentives

Summer Discount Plan

Multifamily Property Resources

Mobile Home Upgrade Program

Home & Business Area Network

Budget Assistant

Energy Saving Tips

Energy Management Center

Ways to Save with Time-of-Use Plans

Savings You Can Take to the Bank

[Home](#) > [Your Home](#) > [Rebates, Incentives & Saving Tips](#)

You're Not Home Alone

From light bulbs to windowpanes, our Home Energy Guide takes you through 8 steps to energy savings.



[Get Started](#)

Plan on Saving Big

Different people have different needs. That's why we offer a variety of energy saving plans, rate programs and rebates that are right for you. Some like it hot, some like it cold, but everyone likes to be energy efficient and save money.

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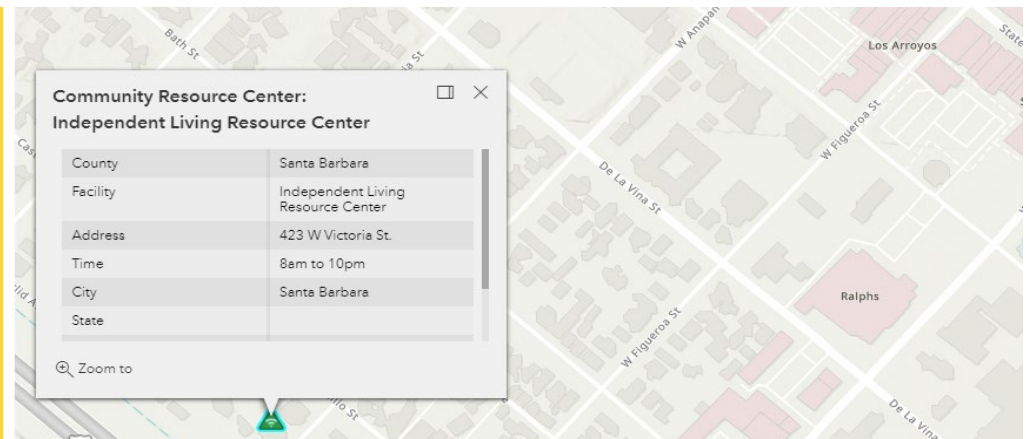
WEBSITE ENHANCEMENTS

PUBLIC SAFETY PARTNER PORTAL

- Available information 24/7 to help with safety planning
- During events provides current PSPS status and information

SCE.COM ENHANCEMENTS

- Consolidated outage address search feature [sce.com/wildfire/addresslookup](https://www.sce.com/wildfire/addresslookup)
- **New consolidated outage map (going live later this year)** combines all information on the current repair and maintenance, PSPS, and rotating outage maps into one
- New Critical Facilities page [sce.com/wildfire/critical-facilities-infrastructure](https://www.sce.com/wildfire/critical-facilities-infrastructure)



Power Outages

1513 Walnut Grove ave

1515 Walnut Grove Ave, Rosemead, CA, 91770, USA

Walnut Grove Ave, Fontana, CA, 92336, USA

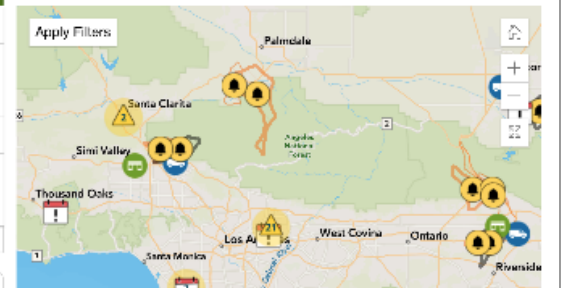
N Walnut Grove Ave, San Gabriel, CA, 91775, USA

S Walnut Grove Ave, San Gabriel, CA, 91776, USA

Walnut Grove Ave, San Gabriel, CA, 91776, USA

Walnut Grove Ave, Corona, CA, 92880, USA

11 Outages Scheduled 1165 Customers Possibly Impacted



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Overview of Camarillo

Note: The number of customers listed represents the total number of customers on each circuit (not the local jurisdiction).

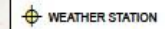
There are 16 circuits that serve Camarillo

1

Circuit Type	Customers	Circuit Type	Customers	Circuit Type	Customers	Circuit Type	Customers
ADOLFO(16KV)	367						
ARNEILL(16KV)	1,213						
CLEMSON(16KV)	1,686						
CROSSON(16KV)	4,061						
DONLON(16KV)	702						
ESTABAN(16KV)	2,229						
EVITA(16KV)	2,365						
FLYNN(16KV)	1,525						
MUGU(16KV)	1,506						
PANCHO(16KV)	1,677						
PONDEROSA(16KV)	2,983						
REDSTONE(16KV)	1,539						
REIMANN(16KV)	2,198						
ROSA(16KV)	3,431						
SEMINARY(16KV)	1,952						
WIGTON(16KV)	2,500						

Grand Total 31,934

Camarillo 2022 All Distribution Circuits



PSPS Circuit

- CLEMON
- CROSSON
- DONLON
- ESTABAN
- EVITA
- FLYNN
- PANCHO
- ROSA
- SEMINARY

Circuit

- ADOLFO
- ARNEILL
- MUGU
- PONDEROSA
- REDSTONE
- REIMANN
- WIGTON

Disclaimer: This report is intended solely for informational purposes. The information included is reflective as of March 1, 2022 and is subject to change without further notice.



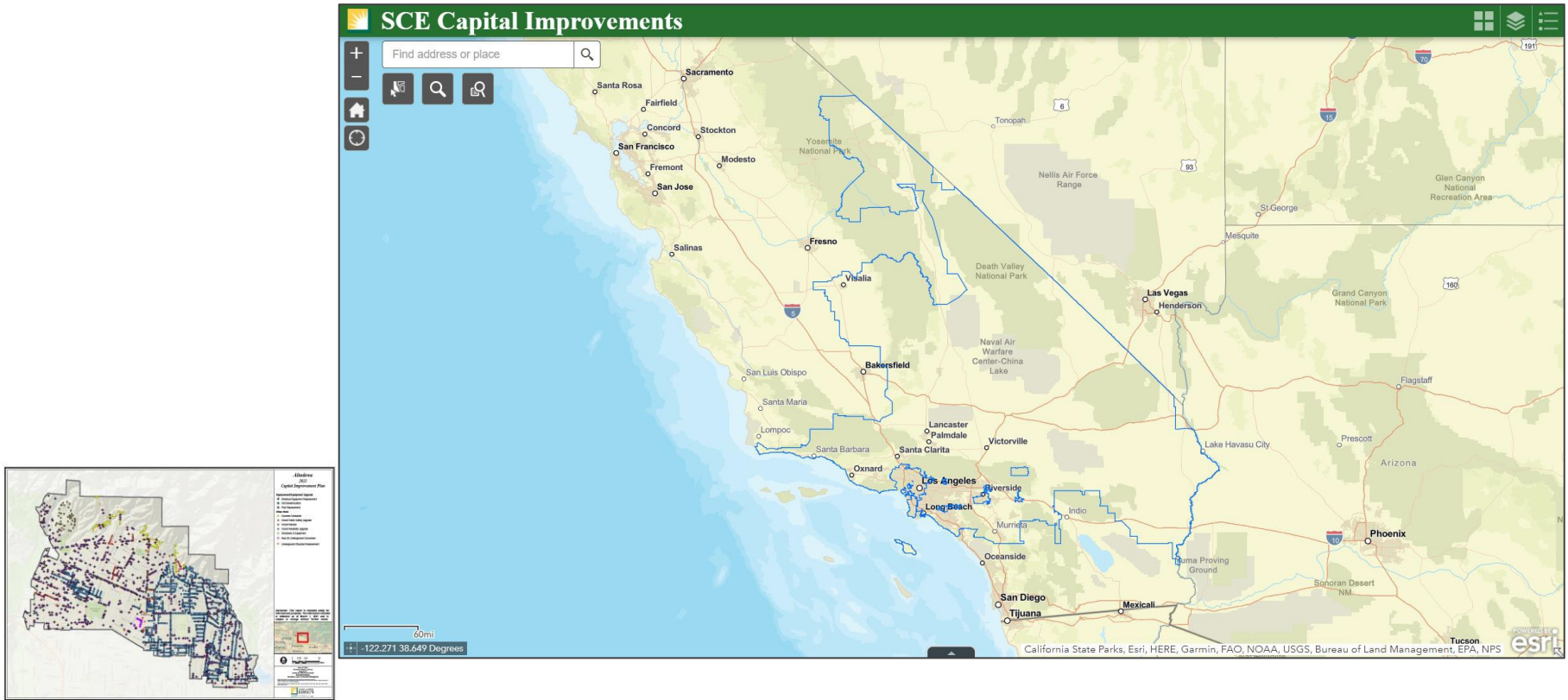
Date: 01/10/2022
File Name: Camarillo_AC.mxd
Created by: SUECA Environmental
Geospatial Analysis
Geospatial | Center Field Services

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Capital Improvement Map

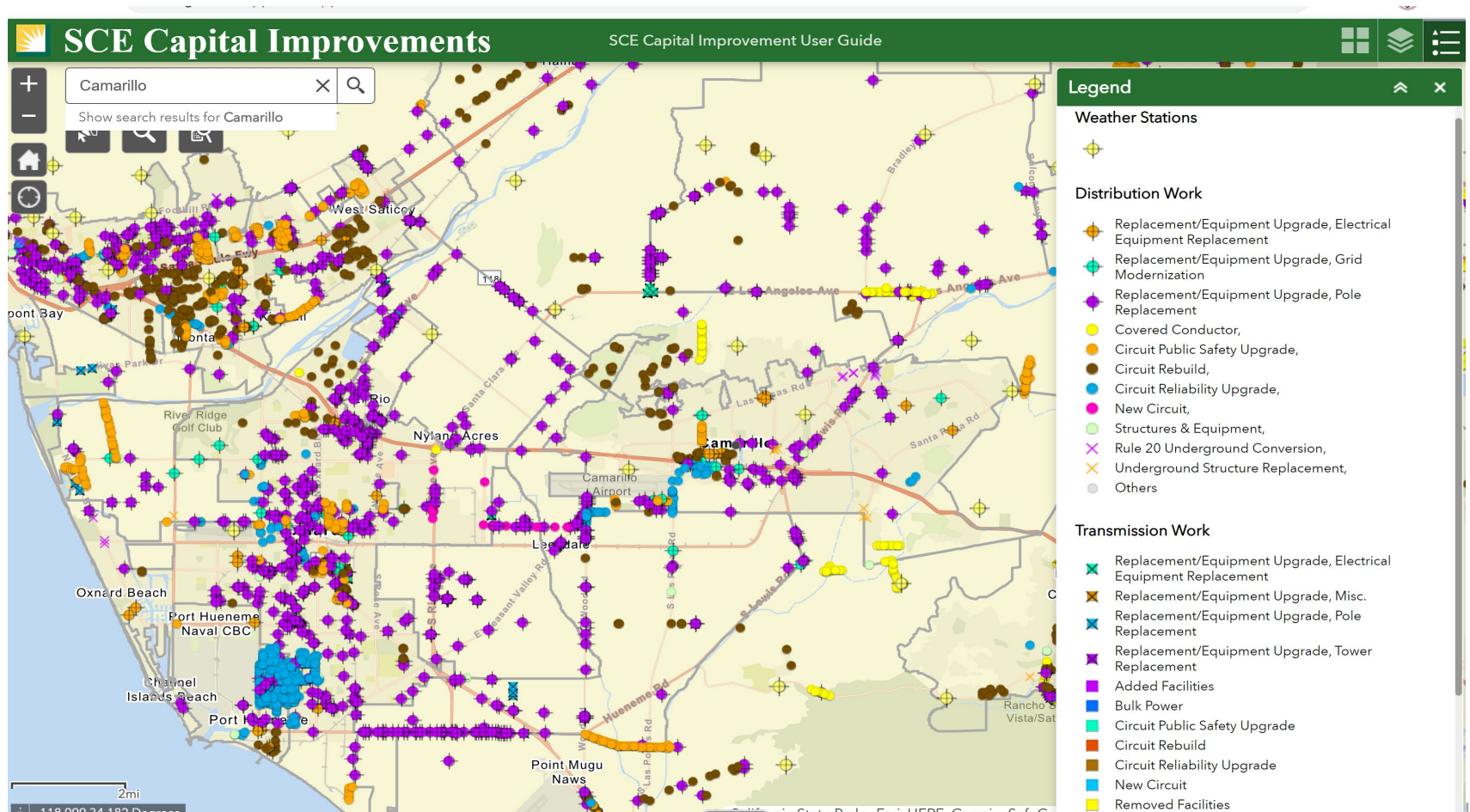
The capital improvement map has transitioned to a virtual format via [SCE Capital Improvements](#) and can be accessed using the link provided or sce.com/CapitalImprovements.



Previous version

Capital Improvement Map

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Capital Improvement Map

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