



Presentation to City of Hawthorne

September 26, 2023

Presentation Agenda

- Overview: Safe and reliable service to the City of Hawthorne
- What/why: Work we are doing to meet electricity demands of the community and improve customer reliability
- How: Communication to customers regarding maintenance outages to perform the work safely
- Q & A

Introduction to SCE

Energy for What's AheadSM



Who We Are

- Southern California Edison (SCE) is an Edison International company
- One of the nation's largest electric utilities
- More than 130 years of history
- Headquartered in Rosemead, California
- Regulated by the California Public Utilities Commission (CPUC) and the Federal Energy Regulatory Commission (FERC)
- 50,000 square miles of SCE service area across Central, Coastal, and Southern California
- 15 million residents through 5 million customer accounts
- 15 counties, 185 cities and 13 Native American tribes



Our Grid

To deliver safe, reliable, and affordable power, we monitor and maintain a vast electricity system

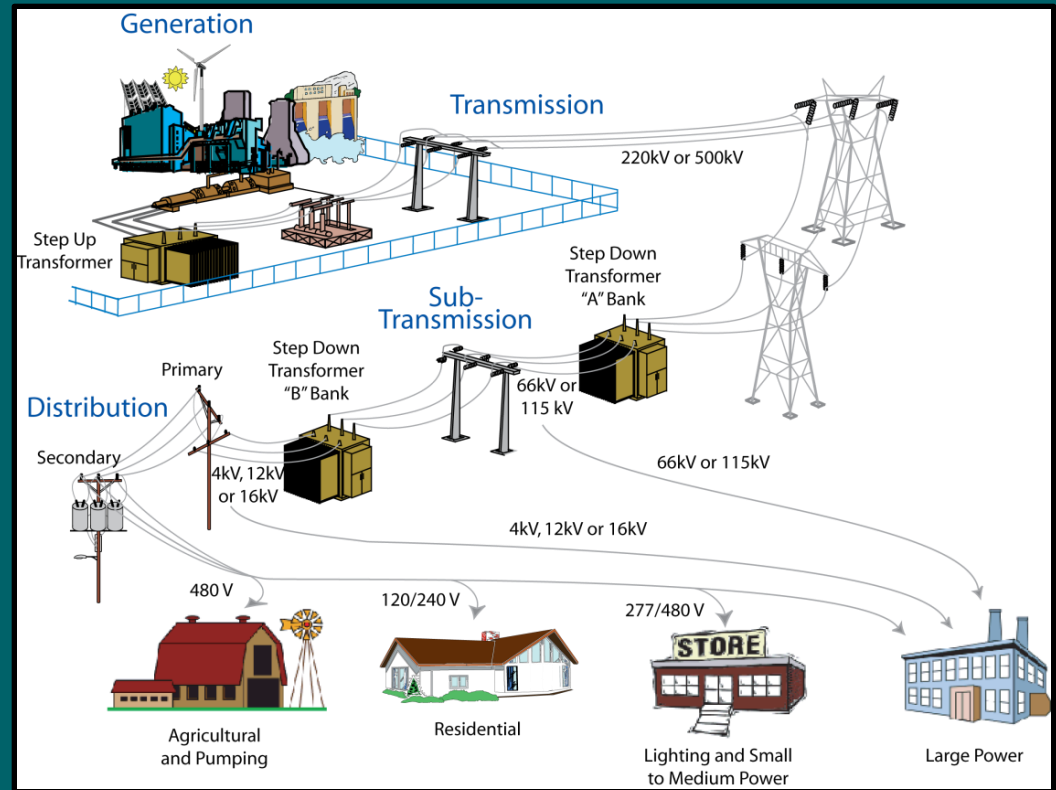
50,000 Square Miles

5,900 Circuits

1.7 Million Poles

126,000 Miles of Transmission and Distribution Lines

753,000 Transformers



Strengthening and Modernizing the Grid

SCE plans to spend more than \$5B each year to maintain, improve, and harden its infrastructure

- **Infrastructure reliability** – updating underground cables, poles, switches, and transformers
- **Wildfire mitigation** – hardening infrastructure, bolstering situational awareness capabilities, and enhancing operational practices
- **Transmission** – connecting renewables, installing new substations, and updating lines
- **Grid readiness** – updating the grid for impacts from new technologies
- **Long-term energy policy** – supporting energy storage, electric vehicles, and renewables

2022 Capital Investments

36 miles of underground cable replaced

119 miles of overhead conductor replaced for public safety

24.5k distribution poles replaced

4.3k transmission poles replaced

24 underground structure replacements

SCE's investments support safe, reliable, affordable, and clean energy for our customers

Outage Communication: Keeping Our Communities Informed

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Primary Outage Types

- A *maintenance outage* is a controlled event where equipment or a portion of the circuit needs to be temporarily taken out of service to allow crews to safely make repairs and upgrade the system for improved reliability
- A *repair outage* is an unplanned event where a section of the power network loses power unexpectedly due to a fault

Customer Notifications for Planned Maintenance Outages

11 Days Out	8-10 Days Out	Less than 10 days	3 Days Out	1 Day Out	Day of Outage
Automated messages sent to enrolled customers	Notifications sent via mail	Our goal is for, customers to receive letter with at least 5 days-notice. Automated notifications sent. If necessary, staff will provide notification via Door Hangers	Critical care customers are called to remind them of outage	Automated reminders	Automated updates if changes occur

*For Planned Maintenance Outages, SCE makes reasonable attempts to follow this timeline, however there may be instances when adjustments must be made.

Maintenance Outage Notification –via mail

Routine maintenance will soon be performed on the electrical equipment in your area. To keep our crews safe, it is necessary to temporarily turn off your power so we can install upgrades or make repairs to the grid.

We understand that having your power off is an inconvenience. We try to isolate outages to the smallest area possible in order to complete the work safely and to promptly restore power. We appreciate your patience.

Sincerely,



Heather Rivard
SVP Transmission & Distribution

Outage # 000800252825

Estimated Start

Estimated End

Outage Reason pole upgrade

Service will be affected at the following address(es)



To keep informed on the status of this outage, please [check your outage status](#) and reference the outage number(s) above.

Things You Should Know

Please note that power may be off for the whole period and may be turned off more than once. The times noted are best estimates, but some conditions may cause the outage to be delayed or postponed.

If you plan to operate an emergency generator during the outage, please call us at [1-888-759-6056](tel:1-888-759-6056)



Learn more about how to prepare for an outage.



Learn more about the different types of outages.

MANAGING YOUR NOTIFICATION PREFERENCES AT SCE.COM

1. Sign in or set up your account on SCE.com
2. Once signed in, click on the Preference Center
3. This will open some new options and allow you to manage your Outage Alert Preferences
4. Finally, input your desired contact information for either email, texts or phone call notifications

The screenshot displays the SCE.com website interface. At the top, there are language options (ESPAÑOL, 中文, 中文, TIẾNG VIỆT) and a search bar. Below the header, there are two notification banners: 'Wildfire Assistance' and 'PSPS Update'. The main navigation menu on the left includes 'My Account', 'Billing & Payments', 'Settings', 'Device Management', 'Data Sharing & Download', 'Quick Services', 'Your Home', 'Your Business', 'Customer Support', 'Partners & Vendors', and 'Outage Center'. The 'Settings' menu item is highlighted with a red circle '2'. The main content area features a 'PREFERENCE CENTER' heading and a large green banner. Below this, there are sections for 'Account Preferences' and 'Customer Preferences'. The 'Account Preferences' section includes 'Paperless Billing', 'Outage Alerts', 'Emergency Alerts', and 'Repair and Maintenance Alerts'. The 'Outage Alerts' and 'Emergency Alerts' sections have 'On' toggle switches. The 'Repair and Maintenance Alerts' section has an 'On' toggle switch. The 'Customer Preferences' section includes 'Notification Language' (set to Español) and 'SCE Updates' (set to off). A 'Need to update your customer information?' section is also visible, showing contact information for Eric Taitano. A 'Manage Profile Settings' button is located at the bottom right. Red circles '1' and '3' highlight the 'Preference Center' link in the navigation menu and the 'View / Edit' button for Emergency Alerts, respectively.

Here are some Resident and Business outage preparation resources:

Useful tips for outages can be found on our [Outage & Restoration Guide for Business](#) document, and on our [Be Prepared for a Power Outage](#) webpage. [sce.com/outage](https://www.sce.com/outage)

Additional information on Backup Generation can be found on our [Understanding Backup Generation](#) document, and on the [Prepare for Powerdown](#) webpage.

Rebates: <https://marketplace.sce.com/portable-generators/> and [SCE Marketplace](#) for a generator or portable battery backup or for your laptops, cellphone, tablets and router.

<https://energized.edison.com/stories/ways-to-stay-connected-online-during-a-power-outage>

Purchase LED Smart Emergency Light Bulbs with Rechargeable Battery: Back-up - Intelligent Lighting, Lasts 3-4 Hours During Power Outage



Go to SCE.COM/OUTAGE

Map is updated approx. 30 minutes after reported outage
Insert address:
<https://www.sce.com/outage-center/check-outage-status>
1-800-611-1911 outage

SOUTHERN CALIFORNIA EDISON
Energy for What's Ahead®

- Quick Services ▲
- Your Home ▲
- Your Business ▲
- Customer Support ▲
- Partners & Vendors ▲
- Outage Center** —
- Report a Power Outage
- Report a Street Light Outage
- Current Power Outages**
- Maintenance Outage status
- All About Power Outages ▲
- Public Safety Power Shutoffs ▲
- Rotating Outages ▲

Current Power Outages
Home > Outage Center > Current Power Outages

Public Safety Power Shutoff (PSPS)
View a map of current and potential PSPS areas, in addition risk. You can also see the number of affected SCE customer

View Current Power Outages
Select an icon on the map to learn more about the outage and

Address, County, City or Zip [Search] [List]

! Maintenance Outage
Hawthorne
Start Time: 8:39 AM PST Today
Estimated Restoration: 3:00 PM PST Today
Status: In Progress - Crew is at work

Step 1: Outage starting soon.
Our crew is preparing to turn the power off so they can work safely.
Completed

Step 2: Crew is at work.
An outage is in effect while our crew performs upgrades.
In Progress

Step 3: Power restored.
Not Started

Reason for Outage:
Pole Upgrade

Customers Impacted: 16
Outage # : 800261127
Last Updated: 8:39 AM PST Today

! Current Outage ! Multiple Outages

Hawthorne Overview

Work we are doing to meet electricity demands of the community and improve customer reliability

Overview of Hawthorne

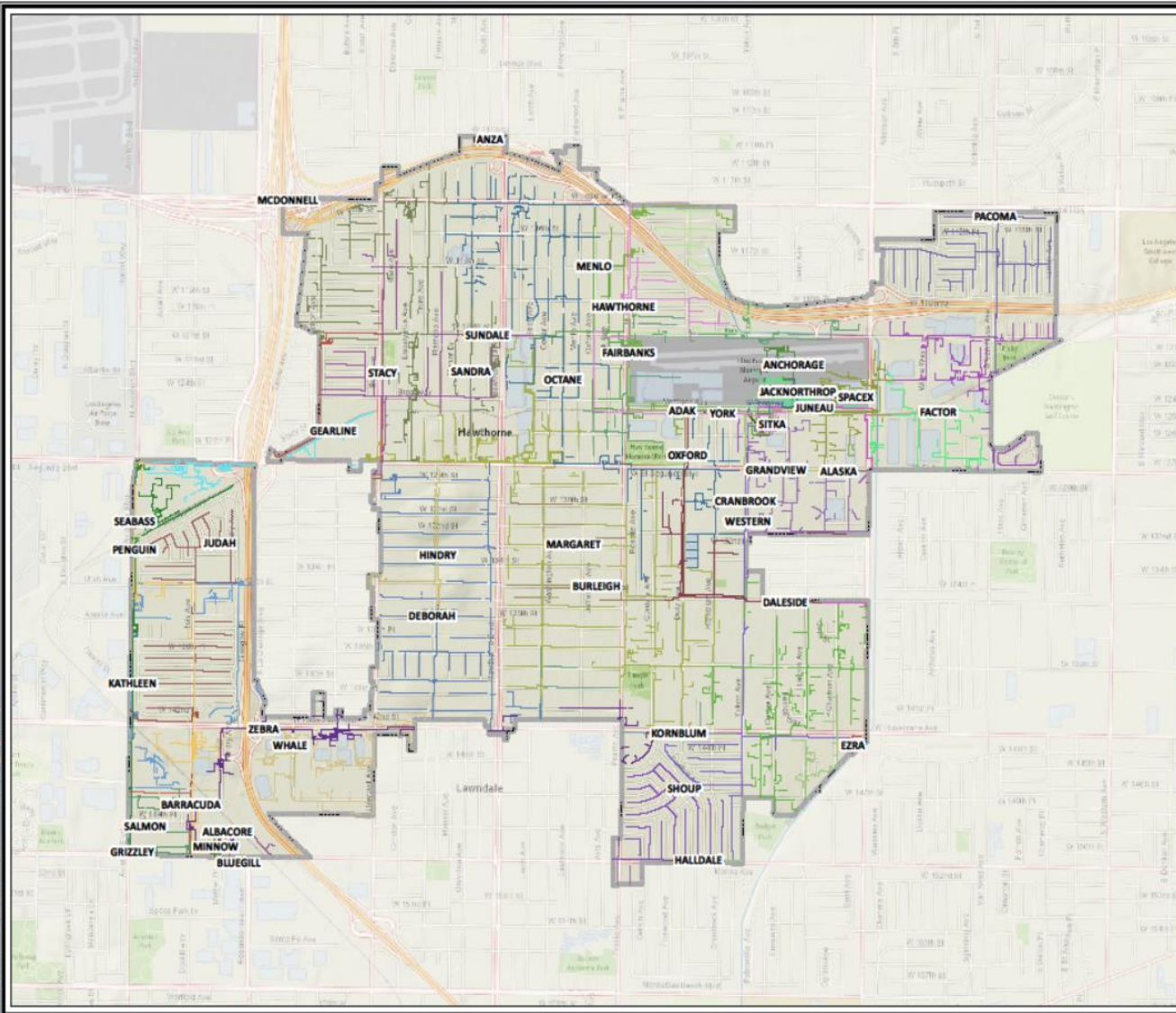
Note: The number of customers listed represents the total number of customers on each circuit (not the local jurisdiction).

There are 44 circuits that serve Hawthorne

1

Circuit Type	Customers	Circuit Type	Customers	Circuit Type	Customers	Circuit Type	Customers
ADAK(16KV)	665	PACOMA(4.16KV)	1,183				
ALASKA(16KV)	2,960	PENGUIN(16KV)	447				
ALBACORE(16KV)	2,026	SALMON(16KV)	4,153				
ANCHORAGE(16KV)	1	SANDRA(16KV)	4,348				
ANZA(4.16KV)	774	SEABASS(16KV)	36				
BARRACUDA(16KV)	230	SHOUP(4.16KV)	935				
BLUEGILL(16KV)	3,177	SITKA(16KV)	107				
BURLEIGH(4.16KV)	632	STACY(4.16KV)	803				
CRANBROOK(4.16KV)	748	SUNDALE(4.16KV)	1,019				
DALESIDE(16KV)	3,756	WESTERN(16KV)	159				
DEBORAH(16KV)	2,882	WHALE(16KV)	696				
EZRA(4.16KV)	1,036	YORK(4.16KV)	418				
FACTOR(16KV)	308	ZEBRA(16KV)	2,061				
FAIRBANKS(4.16KV)	840	JACKNORTHROP(4.16KV)	3				
GEARLINE(16KV)	373						
GRANDVIEW(4.16KV)	901						
GRIZZLEY(16KV)	3,755						
HALLDALE(16KV)	2,725						
HAWTHORNE(16KV)	1,443						
HINDRY(4.16KV)	466						
JUDAH(4.16KV)	982						
JUNEAU(4.16KV)	634						
KATHLEEN(16KV)	703						
KORNBLUM(4.16KV)	978						
MARGARET(16KV)	5,249						
MCDONNELL(16KV)	2,024						
MENLO(4.16KV)	642						
MINNOW(16KV)	99						
OCTANE(16KV)	3,724						
OXFORD(4.16KV)	1,027						
Grand Total	62,128						

Hawthorne 2023 All Distribution Circuits



Circuit	
ADAK	MARGARET
ALASKA	MCDONNELL
ALBACORE	MENLO
ANCHORAGE	MINNOW
ANZA	OCTANE
BARRACUDA	OXFORD
BLUEGILL	PACOMA
BURLEIGH	PENGUIN
CRANBROOK	SALMON
DALESIDE	SANDRA
DEBORAH	SEABASS
EZRA	SHOUP
FACTOR	SITKA
FAIRBANKS	SPACEEX
GEARLINE	STACY
GRANDVIEW	SUNDALE
HALLDALE	WESTERN
HAWTHORNE	WHALE
HINDRY	YORK
JACKNORTHROP	ZEBRA
JUDAH	
JUNEAU	
KATHLEEN	
KORNBLUM	

Disclaimer: This report is intended solely for informational purposes. The information included is reflective as of March 1, 2023 and is subject to change without further notice.



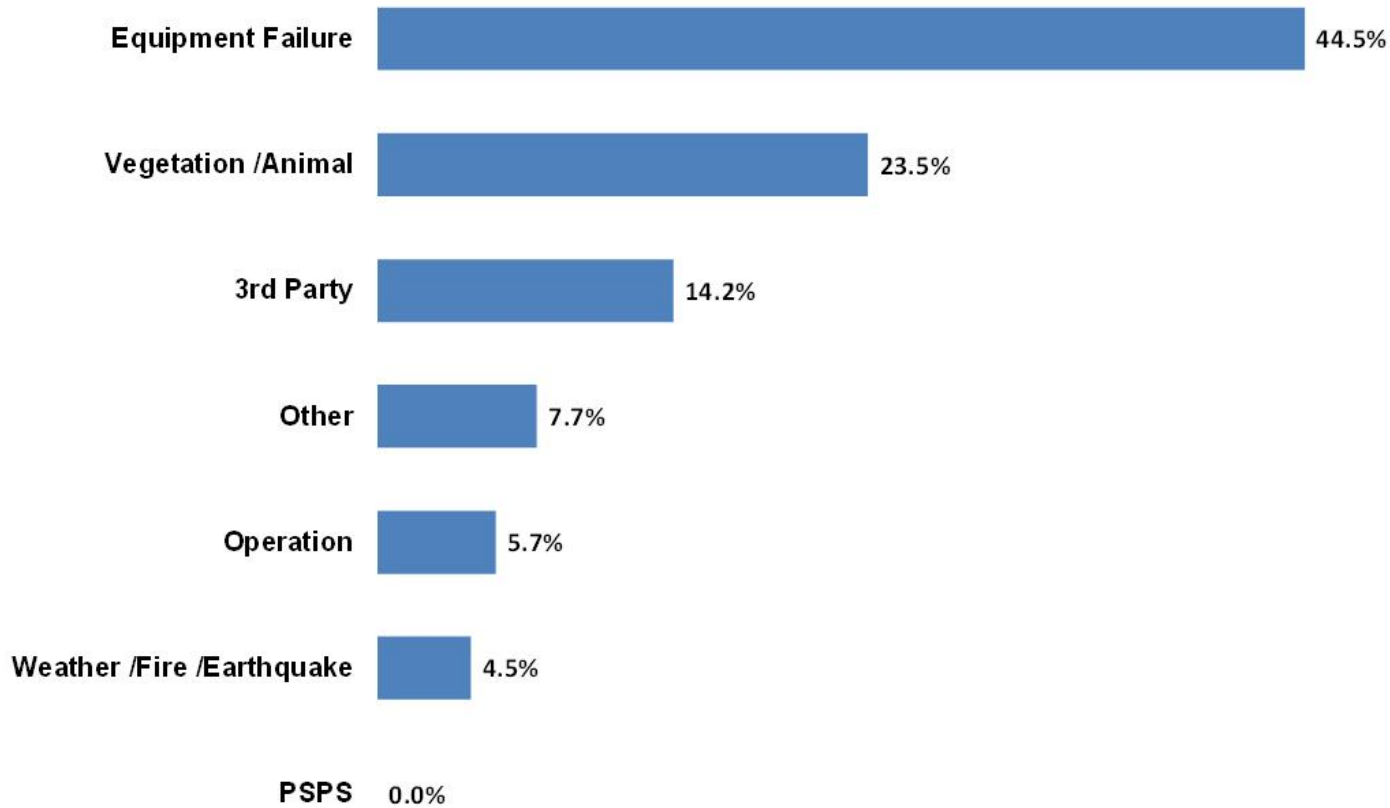
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 File Name: CDNO_2303_Hawthorne_AC.mxd
 Created By: Geospatial Analysis
 GeoMedia | Central Field Services



Repair Outage Cause Definitions

Equipment Failure	In-service failure of transformer, switch, or conductors
Vegetation/Animal	A tree branch, rodent, or bird causing a short circuit between conductors
Other	The circuit was patrolled but no cause found
Operations	SCE performed urgent maintenance without the standard 3-day notice
3rd Party	Outage caused by a balloon, car hit pole or dig-in
PSPS	Public Safety Power Shutoff sce.com/pmps

2022 Repair Outage Causes For Hawthorne

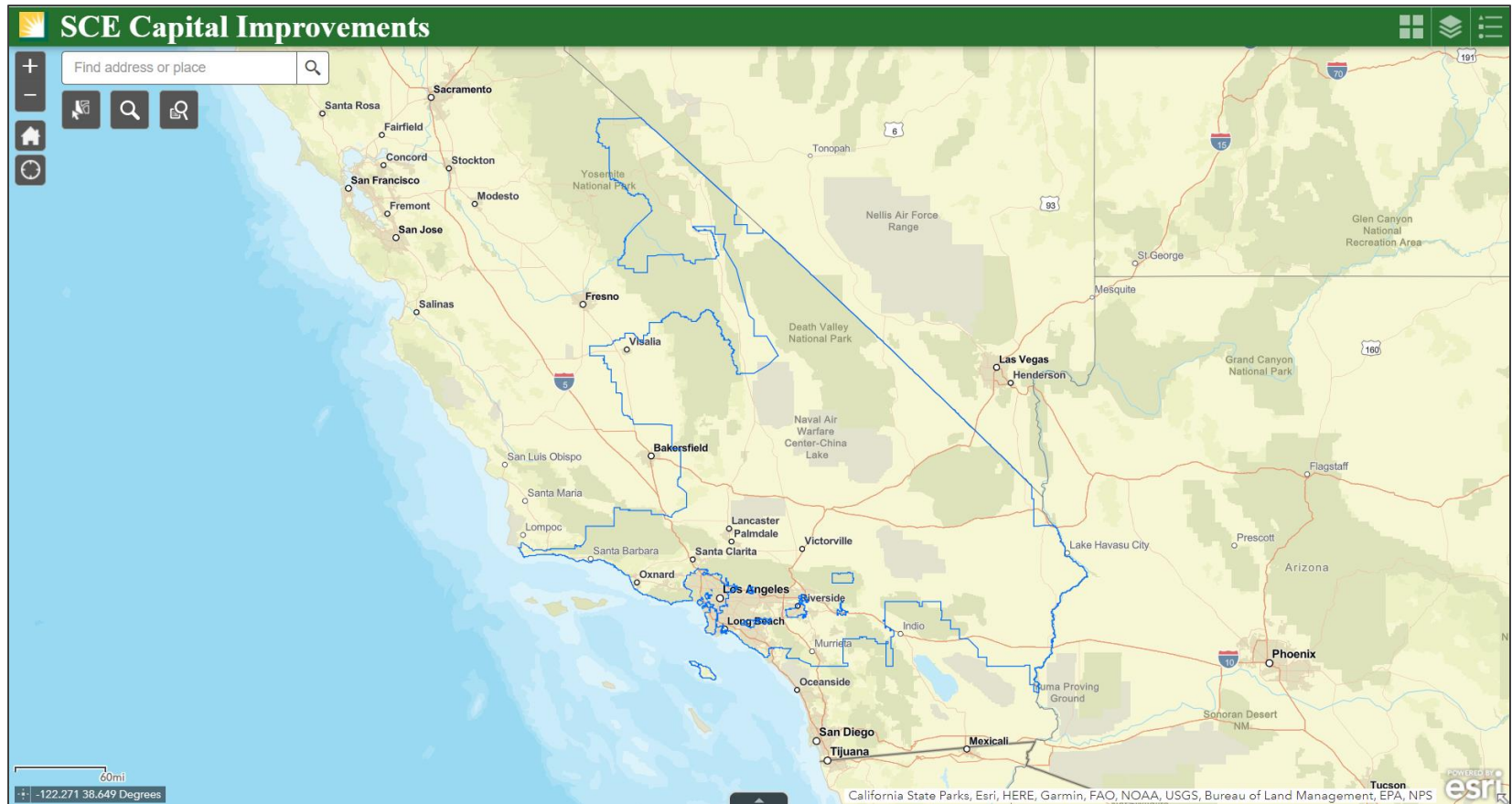


Analysis
of
Outages

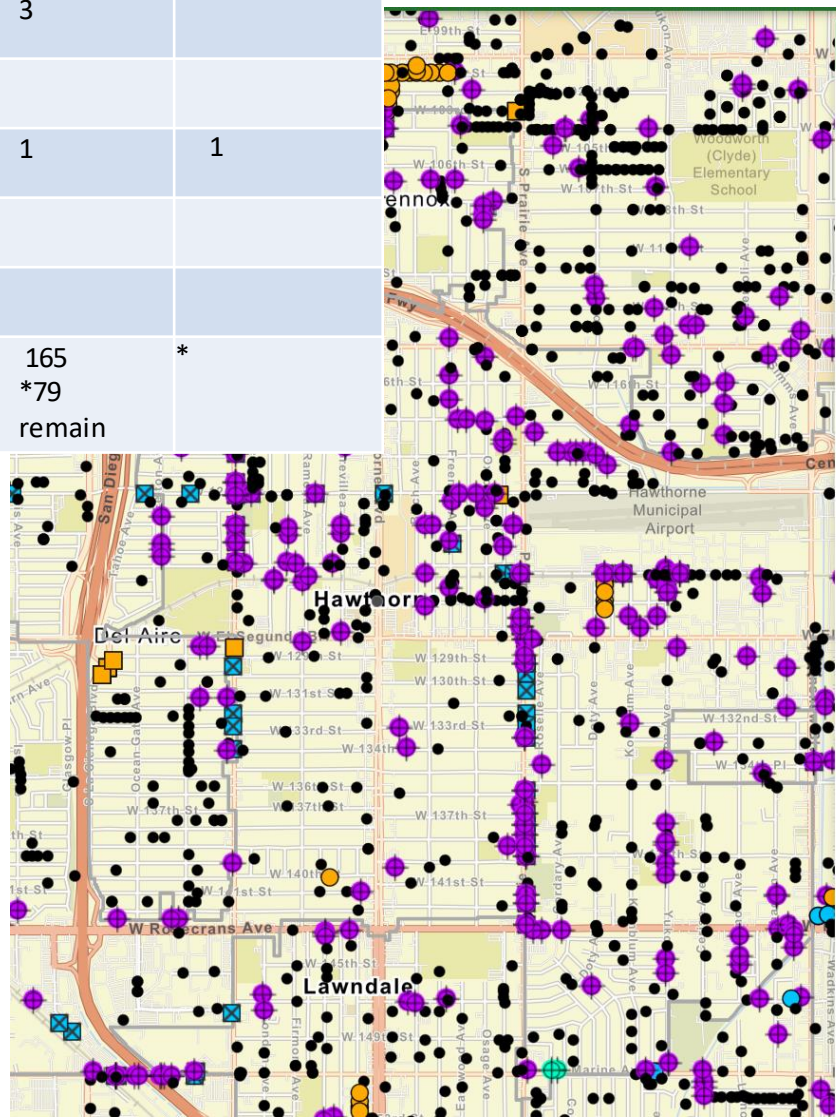


Capital Improvement Map

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.



Projects Hawthorne	2022	2023	Planned 2024
OCP	1	3	
WCR			
Grid Mod	2	1	1
DSP			
4 kV Cutovers			
Pole Upgrade-Distribution	90	165 *79 remain	*



Legend

Distribution Work

- Replacement/Equipment Upgrade - Electrical Equipment Replacement
- Replacement/Equipment Upgrade - Grid Modernization
- Replacement/Equipment Upgrade - Pole
- Circuit Public Safety Upgrade
- Circuit Rebuild
- Circuit Reliability Upgrade
- Covered Conductor
- New Circuit
- Structures & Equipment
- Rule 20 Underground Conversion
- Underground Structure Replacement
- Others

Transmission Work

- Replacement/Equipment Upgrade - Electrical Equipment Replacement
- Replacement/Equipment Upgrade - Misc.
- Replacement/Equipment Upgrade - Pole Replacement
- Replacement/Equipment Upgrade - Tower Replacement
- Added Facilities
- Bulk Power
- Circuit Public Safety Upgrade
- Circuit Rebuild
- Circuit Reliability Upgrade
- New Circuit

OCP refers to projects addressing overhead reconductor/fusing,
WCR refers to projects underground re-cable, UG and OH switch replacement, and fusing,
Grid Mod refers to installation of new automated switching/sectionalizing devices.

* As of now, 79 pole upgrades remain between now and 2024

Distribution Pole and Equipment Upgrades: Safety and Reliability

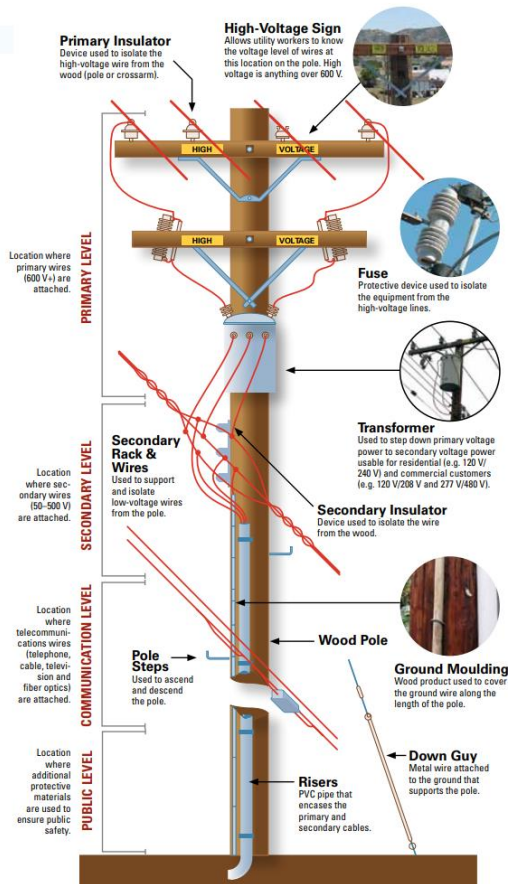
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Rectangular Sign

Anatomy of a Distribution Pole

This high-level overview of distribution poles breaks down some of their most basic and common features.



• Why pole and equipment upgrades.

Inspecting and maintaining every pole in our service territory is part of the work we do routinely. It's part of our ongoing investment in maintenance and safety to ensure that we continue to deliver reliable electric service. Poles are replaced in the time frame that inspections dictate and with compliance due dates with the CPUC. Distribution Work is increasing to meet the electric demand and improve customer reliability. Increased load on poles often require larger poles to meet CPUC Safety Requirements. Maintenance outages are necessary so that crews may safely perform the work. As of now, 79 poles remain to be replaced through '24.

• Outage times.

Hours of the outages are dictated by safety, traffic impact, location, customer impacts (Commercial/Residential) and by the SCE grid due to loading issues on the circuits. Duration, is dependent on the complexity of the job, the pole and equipment upgrade work. Energy for What's AheadSM

Transmission Pole and Equipment Upgrades: Safety and Reliability

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Transmission Poles to be Replaced. To improve safety and reliability, there are 5 transmission pole replacements and 1-reframe that are planned to be replaced for the rest of the year. Poles are located on Prairie, Inglewood Ave. & Jack Northrop Ave. Currently awaiting FAA & railroad permits.

Outage times. Hours of the transmission outage are dictated by safety, use of a crane, location/traffic, customer impacts (Commercial/Residential) and by the SCE grid due to loading issues on the circuits. Night work is required for transmission pole replacement due to the commercial outage required and for the safe pole replacement; in addition to SCE outage notifications, immediate affected customers are notified with a Dear Neighbor leaflet for the nighttime transmission job. Duration, is dependent on the complexity of the job, location, the pole and equipment upgrade work.



SCE Customer Resources

Issue Type		Contact Info
Outages - Report/Status Outage Tips General Customer Information	www.sce.com/outage	Downed power lines: 911 1-800-611-1911 1-800-655-4555
File or Get Claim Status	www.sce.com/claims	1-800-251-3311 claims@sce.com
Vegetation & Power Lines Clearance		1-800-655-4555
Report a Streetlight Out	www.sce.com/outage-center/report-street-light-outage	OR My SCE app or call (800) 611-1911 #3
Medical Baseline	www.sce.com/residential/assistance/medical-baseline	1-800-684-8123 or 800-655-4555
Wildfire	sce.com/wildfire	wildfireoutreach@sce.com
Public Safety Power Shutoffs	www.sce.com/psps (which includes signing up for outage alerts)	
Vegetation Management	sce.com/safety/power-lines	1-800-655-4555 or safetrees@sce.com
Rebates: Portable Power Stations, generators, etc.	https://marketplace.sce.com	

Safe and reliable service to the City of Hawthorne

Thank you. Questions?