2019 WILDFIRE MITIGATION PLAN
FINAL UPDATE AS OF 12/31/2019

Through our Wildfire Mitigation Plan, we continue to reduce the risk of electrical equipment igniting wildfires, going beyond long-standard industry practices to address the new conditions we are facing. This includes hardening the grid to reduce potential fire ignitions; bolstering situational awareness capabilities; and expanding operational practices such as enhanced overhead inspections, vegetation management, de-energization of power lines and emergency response protocols.

ENHANCED OVERHEAD INSPECTIONS

We are enhancing and accelerating inspections of all overhead power lines in high fire risk areas. These inspections go beyond compliance checks, accomplishing both needed repairs and preventive maintenance to reduce risks of ignition.

Ground-based inspections have been completed.

Aerial inspections of the distribution system are continuing, with priorities based on risk modeling.

- 108,258 distribution structures inspected
- Scanned more than 6,788 miles of transmission lines using infrared and corona detection technology


HARDENING THE GRID

We exceeded our goal to replace at least 96 miles of overhead power lines with insulated wire by the end of 2019.

- 2019: 372 miles; 2018 and 2019 Total: 523 miles

We are also installing current limiting fuses that interrupt current more quickly and will boost reliability by segmenting circuits to isolate problems.

- 2019: 8,228 fuses installed; Total: 10,476

Cross Section of Covered Conductor Wire

Conductor Shield
Inner Layer
Outer Layer
Conductor
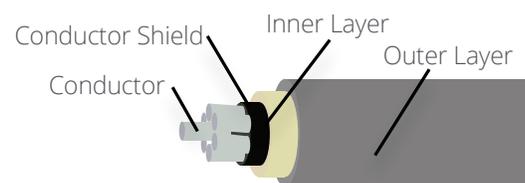
VEGETATION MANAGEMENT

SCE's vegetation management program inspects and prunes as needed 1.1 million trees every year, including 500,000+ in high fire risk areas. SCE is trimming at least 12 feet between a tree and power line.

In addition, tall trees will be assessed and may be removed if they pose a high risk of falling into the lines or have vegetation like palm fronds that high winds could carry into power equipment.

- 2019: 5,917 of 7,500 trees removed

Updated: 5/28/2020
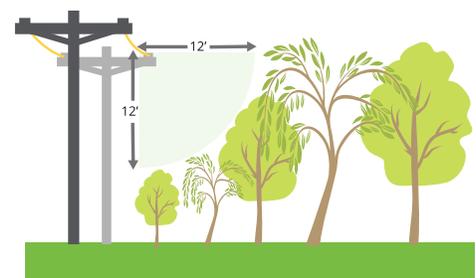
WILDFIRE MONITORING CAMERAS

High-definition cameras enable fire agencies to observe potential fire activity in high fire risk areas 24 hours a day. The public also has access to the cameras on the UC San Diego and University of Nevada, Reno's wildfire camera network.

- 2019: 121 HD cameras installed; Total: 161

The cameras installed in 2018 and 2019 are providing approximately 90% coverage in high fire risk areas.

WEATHER STATIONS

We are installing hundreds of weather stations in high fire risk areas with multiple sensors to provide real-time weather data that is publicly accessible. The stations provide data to SCE's state-of-the-art weather modeling computer software that can forecast high fire risk conditions down to less than two miles.

- 2019: 357 stations installed; Total: 482

Up to 850 stations will be installed across SCE's service area by the end of 2020.

CUTTING EDGE TECHNOLOGY

Using artificial intelligence, machine learning and predictive modeling with real-time data to identify both downed wires — enabling a quicker response — and early warning signs of potential equipment failure. Our Reliability Operations Center was named a finalist for the 2019 Edison Award by the Edison Electric Institute.

We are also developing the capability to use aerial drone technology to expedite patrolling of utility lines following an extended outage to more quickly and safety restore power to customers.

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