Our Commitment to California

Keeping our communities safe from wildfires

June 16, 2020
Protection of Public Safety
California’s wildfire problem is serious and worsening.

- Ten of the most destructive wildfires have happened since 2015
- About a quarter of our service area is located in high fire risk areas

Source: http://www.fire.ca.gov
Our Wildfire Mitigation Plan

• 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
A COMPREHENSIVE STRATEGY to prevent, combat and respond

Bolstering Situational Awareness Capabilities
Enhancing Operational Practices
Hardening the Electric Grid
500+ MILES
INSTALLED THROUGH THE END OF 2019

AT LEAST 700 MORE MILES
INSTALLED BY THE END OF 2020
PROTECTIVE & SECTIONALIZING DEVICES

12,000+

FUSES AND SECTIONALIZING DEVICES APPLIED TO INTERRUPT ELECTRICAL CURRENT MORE QUICKLY & BOOST RELIABILITY BY SEGMENTING CIRCUITS TO ISOLATE PROBLEMS
WEATHER STATIONS

700+
WEATHER STATIONS INSTALLED

MORE THAN 850
INSTALLED BY THE END OF 2020
Weather Stations

mesowest.utah.edu

1. Business resilience/emergency management
ADVANCED WEATHER MODELING

• New state-of-the-art software with a high-resolution weather model forecasts weather conditions down to less than two miles

• 24/7 monitoring
WILDFIRE CAMERAS

161 CAMERAS INSTALLED

THOROUGHLY COVERING HIGH FIRE RISK AREAS
Wildfire HD Camera

www.alertwildfire.org
HIGH FIRE-RISK INSPECTIONS

CONTINUE GROUND AND AERIAL INSPECTIONS TO ADDRESS WILDFIRE RISKS IN 2020
INCIDENT MANAGEMENT TEAM

500+
QUALIFIED RESPONSE TEAM MEMBERS, WHO ARE ON-CALL FOR DUTY 24/7
Incident Command System Attributes:
• Used by all government agencies and most leading utilities
• Common terms, structures, processes and forms
• Flexible/Scalable/All Hazards

Incident Command System Teams:
• 36 Teams with 540 members
• 8 ESIMT, 4 ITIMT, 4 GEN, 4 SFIMT
• 16 Pooled Teams
• 500 qualified members

1. Business resilience/emergency management
Vegetation Management

• Hazard tree removal (beyond traditional trim zone)
• 20-plus in-house certified arborists
• 650-plus vegetation management crews, totaling nearly 1,500 workers
• 1.1M trees inspected annually; More than 500,000 trees in high fire risk areas
• 750,000 pruned per year
• Vegetation removal at poles
• LiDAR surveying
PUBLIC SAFETY POWER SHUTOFF

• De-energizing power lines to prevent ignitions

• Used during elevated fire conditions

• Primarily impacts circuits in high fire risk areas

• Use of multiple methods to notify people in affected areas before, during and after a de-energization event
Decision points include, but are not limited to:

- NWS Red Flag Warnings
- SCE meteorologists forecast **strong wind** conditions in service area
- SCE fire scientist assessment of **fire potential** to include consideration of **weather** and **fuels**
- Real-time observations from qualified electrical workers monitoring for **hazardous conditions** in the field
- Impact of de-energizing circuits on **first responders and essential services**
## PSPS Notification Timelines

<table>
<thead>
<tr>
<th>Stakeholder</th>
<th>Initial Notification (Alert)</th>
<th>Update Notification (Alert)</th>
<th>Imminent Shut down (Warning)</th>
<th>De-energized (Statement)</th>
<th>Preparing for Re-energization (Statement)</th>
<th>Re-energized (Statement)</th>
<th>PSPS Averted (Statement)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First/Emergency Responders/Public Safety Partners, local and tribal governments</strong></td>
<td>72 hours before</td>
<td>48 and 24 hours before</td>
<td>1 to 4 hours</td>
<td>When De-energizationOccurs</td>
<td>Before Re-energizationOccurs</td>
<td>When Re-energizationOccurs</td>
<td>When circuits are no longer being considered for PSPS</td>
</tr>
<tr>
<td><strong>Critical Infrastructure / Service Providers</strong></td>
<td>72 hours before</td>
<td>48 and 24 hours before</td>
<td>1 to 4 hours</td>
<td>When De-energizationOccurs</td>
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<tr>
<td><strong>Customers</strong></td>
<td>48 hours before</td>
<td>24 hours before</td>
<td>1 to 4 hours</td>
<td>When De-energizationOccurs</td>
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SCE will target the schedule above to notify customers. Circumstances, such as erratic or sudden onset of hazardous conditions that jeopardize public safety may impact SCE’s ability to provide advanced notice to customers.
During a PSPS: Customer Resources

- Community Crew Vehicles
- Community Resource Centers
- SCE.com/PSPS
• Evaluation of targeted undergrounding in high fire risk areas
RELIABILITY OPERATIONS CENTER

• Unique in our industry

• Using machine learning and artificial intelligence

• Meters act as sensors in high fire risk areas. Meter data is correlated with other data sources to gather intelligence and make decisions aimed at proactive mitigation

• Identifying downed wires and de-energizing circuits within minutes
PILOTING NEW APPROACHES

• Distributed Fault Anticipation
• Transmission Open Phase Detection
• Early Fault Detection
TALKING WITH OUR COMMUNITIES

• On-going community meetings held in high fire risk areas
• Meetings with cities, counties and tribal governments
• Statewide advertising campaign in market educating customers about preparing for power shutoffs
• Letters communicating potential power shutoffs planned for all customers in service territory
INVESTING IN OUR COMMUNITIES

• Keeping our communities safer through wildfire mitigation and preparedness
  o First responder capacity building
  o Community engagement
  o Resiliency and disaster recovery
Reaching Vulnerable Communities

• Engage our most vulnerable customers
• Partner with community-based organizations and community stakeholders
• Support resiliency, working with existing philanthropic partners and deploying customer programs for PSPS preparedness, all-hazard awareness and emergency planning
**CUSTOMER CARE PROGRAMS**

**Rebates & Programs**

- Self-Generation Incentive Program (SGIP)
  - Rebates for whole home energy storage
- $50 rebate for small appliance & device battery backup
- $300-$500 generator rebate for well water dependent customers
- Fully subsidized Critical Care customer battery back-up (income qualified)
STAY INFORMED

- Visit our website
- Attend a Community Meeting

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

Website: sce.com/wildfire

SCE Customer Support: 1-800-655-4555