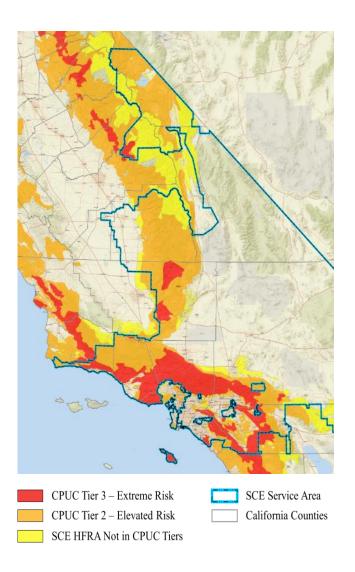
SOUTHERN CALIFORNIA EDISON

Wildfire Mitigation, Safety & Grid Resiliency





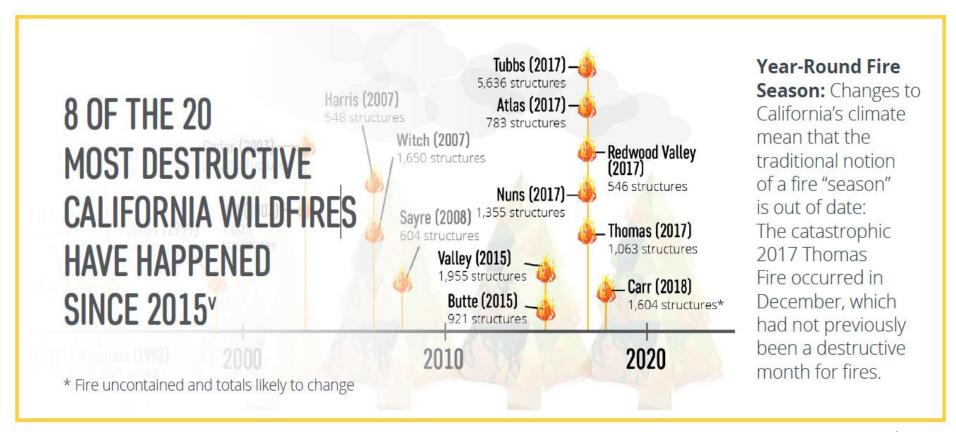
SCE Service Territory



CALIFORNIA'S WILDFIRE RISK

Year-Round Fire Season: Changes to California's climate means that the traditional notion of a fire "season" no longer exists

Hazardous fuel is building up: 9M acres of land contain ready-to-burn kindling from nearly 129M trees that have been killed or weakened by drought and bark beetle infestation



SCE'S WILDFIRE MITIGATION STRATEGY

We have long taken substantial steps to reduce the risk of wildfires, and we continue to proactively enhance our operational practices and infrastructure through our comprehensive wildfire mitigation strategy



Investing in
System
Hardening
of Electric Grid

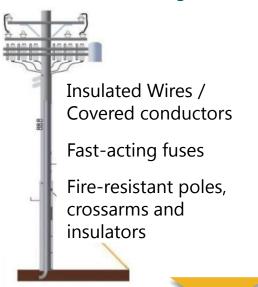
Bolstering Situational Awareness Capabilities

Enhancing
Operational
Practices



SYSTEM HARDENING ELEMENTS

Hardened System

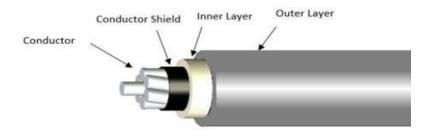


Fast-Acting Fuses





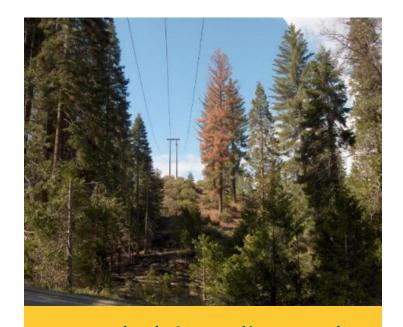
Covered Conductor





VEGETATION MANAGEMENT

- 20+ in-house certified arborists
- **800**+ pruning contractors
- ≈ **900,000** trees inspected annually
- ≈ 700,000 pruned per year;
 400,000 trees in high fire risk areas
- Dead, dying, diseased tree removal; total drought and bark beetle trees removed in 2017 was 39,000
- Expanding use of Light Detection and Ranging (LiDAR) technology
- Joint patrols with fire agencies



Dead, dying, diseased trees present a hazard and are removed to protect electrical facilities and eliminate risk of fire

FIRE AND SEVERE WEATHER MONITORING



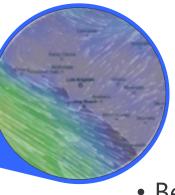
Weather Stations

- Hi-Res Data
- Local Weather



Situational Awareness Center

- 24/7 monitoring
- SCE meteorologists



Advanced Weather Modeling

- Better Forecasting
- Advanced Warning



Fire Monitoring Cameras

- High-Definition
- Remote-controlled

Fire Cameras: www.alertwildfire.org

FIRE AND SEVERE WEATHER MONITORING

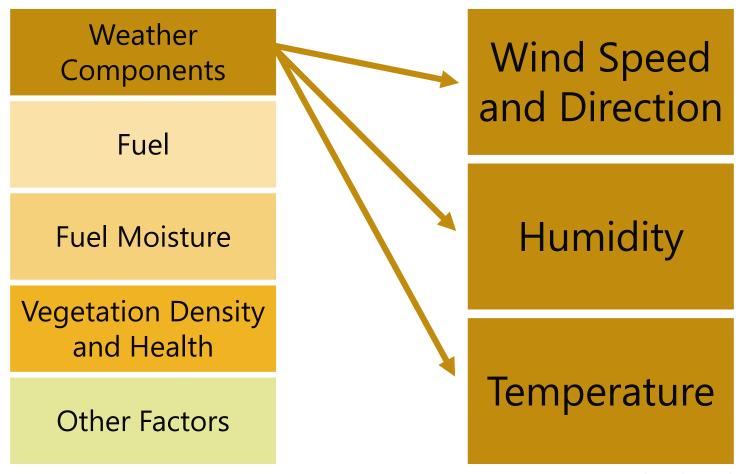


PRACTICE OF LAST RESORT: PUBLIC SAFETY POWER SHUTOFF

- De-energization to prevent wildfire ignitions
- Used only in most extreme weather conditions
- Focused on high fire risk areas
- More frequent use possible given increased wildfire risk
- Notifications starting 48 hours before potential power shutoff
 - First Responders, Local Governments, Communications and Water Providers, and Customers (especially critical care & medical baseline)
- Variety of factors considered in decision to de-energize
 - SCE will be in regular contact with fire/emergency personnel prior to decision
- Power restoration begins after local conditions have improved and safety checks have been performed

EXTREME FIRE CONDITIONS

- Significantly increased risk of ignition
- Fires can grow rapidly, burn intensely, and/or erratically



PUBLIC SAFETY POWER SHUTOFF - CONSIDERATIONS

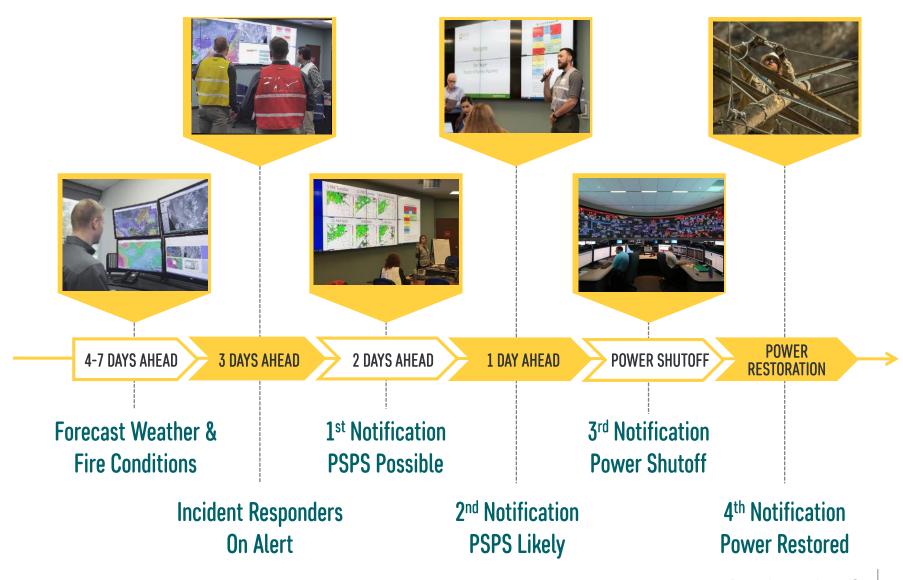
Many factors inform decision to turn power off. Factors include but are not limited to:

Real-time conditions

- Weather station data
- Trained field personnel in local area
- Input from fire authorities and Emergency Management Personnel
 - Evacuation orders / status
 - Impact on essential services
 - Location of evacuation centers
 - Other emergency operations



PUBLIC SAFETY POWER SHUTOFF: TIMELINE



PSPS EVENT FREQUENCY AND DURATION FORECAST



- Predictions based on historical weather data and past PSPS events. Actual frequency and duration depends on a number of factors which cannot be forecasted with certainty
- Event frequency and duration predictions across all of SCE's high fire risk areas
- Scope/impact of extreme fire conditions and time to conduct safety checks of our equipment following these conditions will affect the duration of these outages.

Thank You