Wildfire Mitigation Plan

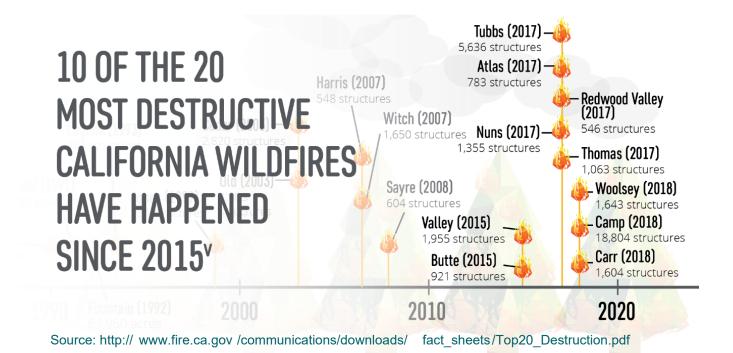


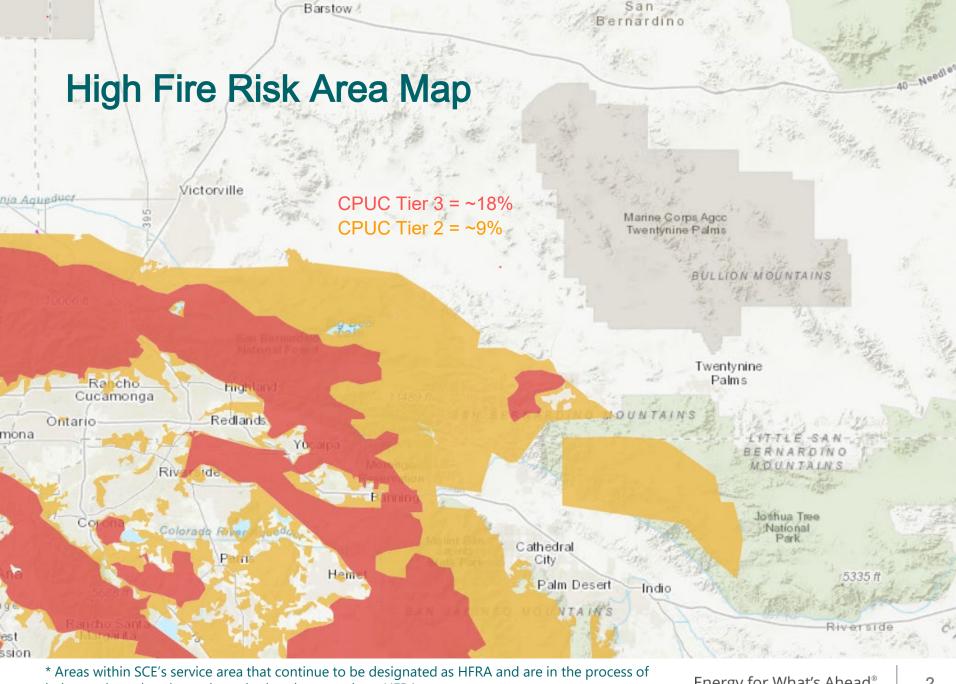


California's Wildfire Risk

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

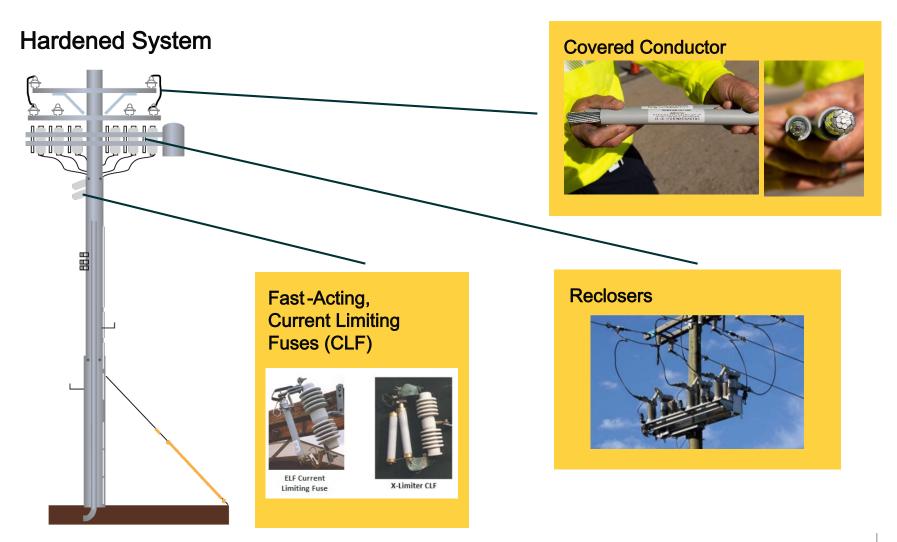
Hazardous fuel is building up: 10M acres of land contain ready -to-burn kindling from nearly 147M trees that have been killed or weakened by drought and bark beetle infestation





being evaluated to determine whether they remain as HFRA

Infrastructure - System Hardening Elements



Enhanced Overhead Inspections (EOI)

High Fire Risk Areas

- Ground Inspections of 400,000+ distribution and transmission structures
- Aerial Inspections by helicopters and drones with Infrared, Ultraviolet, LiDAR and HD image scanning



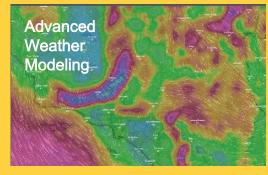


SCE's helicopters are equipped with software and high-tech cameras, like the one shown above, to find potential risk undetectable to the human eye

Situational Awareness Capabilities



- Hi-Res Data
- Local Weather



- Better Forecasting
- Advanced Warning



- High-Definition
- Remote-controlled



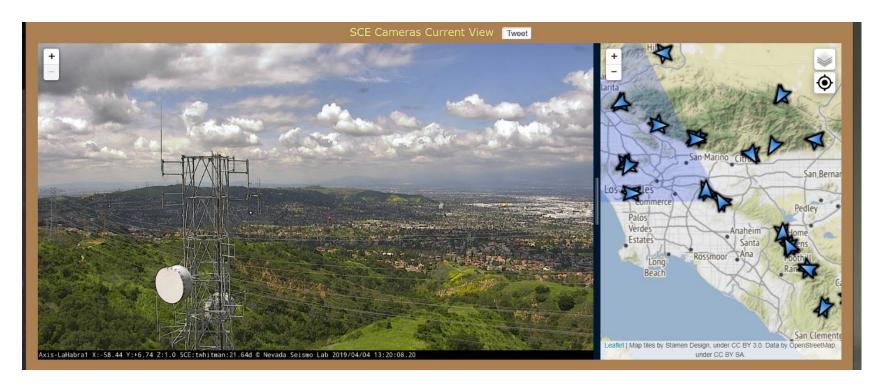
- SCE meteorologists
- 24/7 monitoring



Wildfire HD Camera

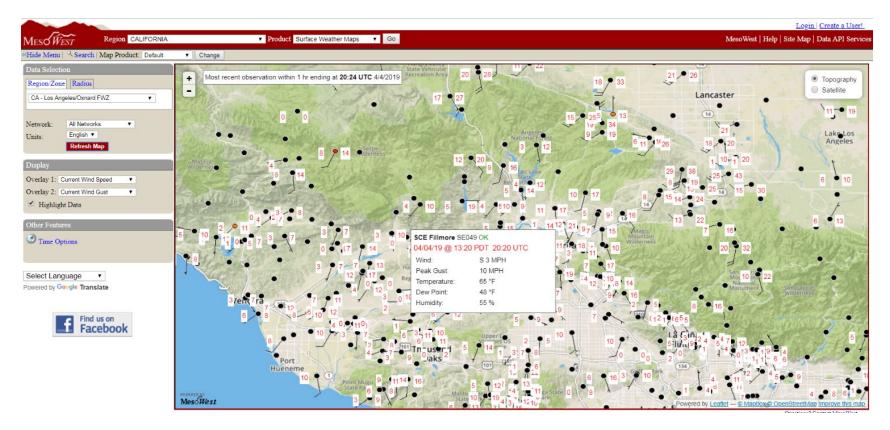


Wildfire HD Camera



www.alertwildfire.org

Weather Stations



mesowest.utah.edu

Vegetation Management



- 20+ in-house certified arborists
- 800+ pruning contractors with 60 more crews added June/July 2018
- ≈ 900,000 trees inspected annually
- ≈ 700,000 pruned per year; 400,000 trees in high fire risk areas

2019

- Continue to remove dead, dying, diseased trees
- Remove additional **7,500** which pose a fall-in or blow-in risk to SCE electrical facilities
- ➤ 12-ft tree clearance from distribution power lines in high fire areas

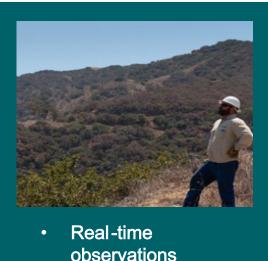
Public Safety Power Shutoff (PSPS)

- De-energization to **prevent ignitions** from powerlines
- Used during extreme fire conditions
- Primarily impacts circuits in high fire risk areas

Decision Points

Fire Scientists, Meteorologists, Field Observation & Emergency Managers:





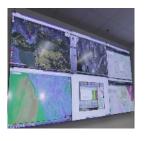


 Impact of de-energizing circuits

^{*} Sudden onset of conditions may prevent the input from real-time observations or consultation with first responders

PSPS Ideal Timeline

4-7 DAYS AHEAD



Forecast Weather & Fire Conditions 3 DAYS AHEAD



SCE Incident Management Team activated

County
Operational
Areas informed
of potential
activation

2 DAYS AHEAD



1st Notification PSPS Possible sent to agencies and customers 1 DAY AHEAD



2nd Notification PSPS Possible POWER SHUTOFF



3rd Notification Power Shutoff POWER RESTORATION



4th
Notification
Power
Restored
After
Inspection

PLANNING AND MONITORING

OUTAGE

*Erratic or sudden onset of conditions may impact our ability to provide advanced notice to customers.

Causes of Power Outages

Power Outages Can Occur for Many Reasons

- Maintenance
- Emergency Repairs
- Requests from Fire Agencies
- Natural Disasters

Have a Plan and Be Prepared

- Be Informed
- Plan Ahead
- Take Action





Useful Information

- Update Customer Contact Information https://www.sce.com/outagealerts
- Information on SCE Wildfire Mitigation Plan <u>www.sce.com/wildfire</u>
- Twitter <u>@sce</u>
- Facebook www.facebook.com/sce
- Fire Cameras-<u>www.alertwildfire.org</u>
- Weather Stations <u>mesowest.utah.edu</u>
- CPUC Wildfire Maps Information <u>www.cpuc.ca.gov/wildfiresinfo/</u>
- Fire Preparedness <u>calfire.ca.gov/fire_protection/fire_protection_be_prepared</u>
- Red Cross Emergency Preparedness

 <u>www.redcross.org/get-help/how-to-prepare-for-emergencies.html</u>
- FEMA Emergency Preparedness –



Thank you!

www.sce.com/wildfire

We all have a role in resiliency and preparedness

"Preparedness is everyone's job. Not just government agencies but all sectors of society -- service providers, businesses, civic and volunteer groups, industry associations and neighborhood associations, as well as every individual citizen -- should plan ahead for disaster. During the first few hours or days following a disaster, essential services may not be available. People must be ready to act on their own."

-California Offices of Emergency Services