

Our Commitment to California

Keeping our communities safe from wildfires

Sept. 4, 2019

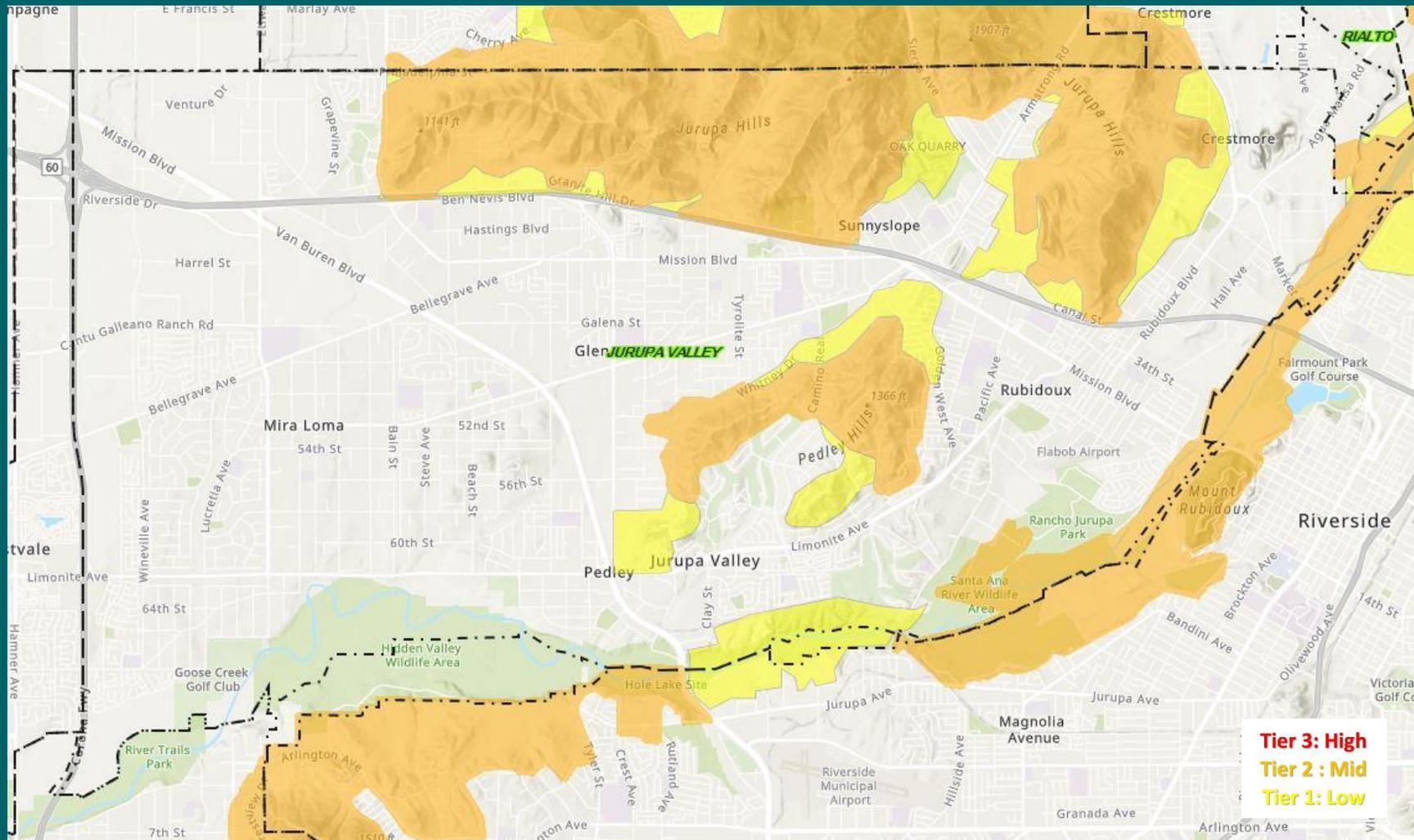




California's wildfire problem is serious and worsening.

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

Local High Fire Risk Area



Enabling California's clean energy future

- We're responding to the greatest societal challenge of our time—climate change and its impacts, including wildfires
- Clean energy and wildfire prevention and response go hand-in-hand

Legislative and Regulatory

- Aug. 31, 2018: CA Legislature passes Senate Bill 901
- Feb. 12, 2019: Gov. Newsom announces a Strike Force
- April 12, 2019: Strike Force issues its report
- May 29, 2019: Commission on Catastrophic Wildfire Cost and Recovery issues its report
- July 12, 2019: Signs Legislation to address California's growing wildfire threat
 - Incorporates Gov. Newsom's proposals to hold utilities accountable for mitigating wildfire threats.
 - Creates a wildfire fund that will help victims and affected communities recover and rebuild more quickly.
 - Establishes objective standards to help determine if a utility acted prudently to manage wildfire threats to ensure safety and resiliency.
 - Provides more reasonable direction on cost allocation for utilities.

A COMPREHENSIVE STRATEGY to prevent, combat and respond



**Bolstering Situational
Awareness Capabilities**



**Enhancing
Operational Practices**



**Hardening the
Electric Grid**

Mitigation Strategy based on Fire Science

Eliminating any side of the fire triangle can prevent ignitions



Weather
Conditions
(Wind, Humidity)

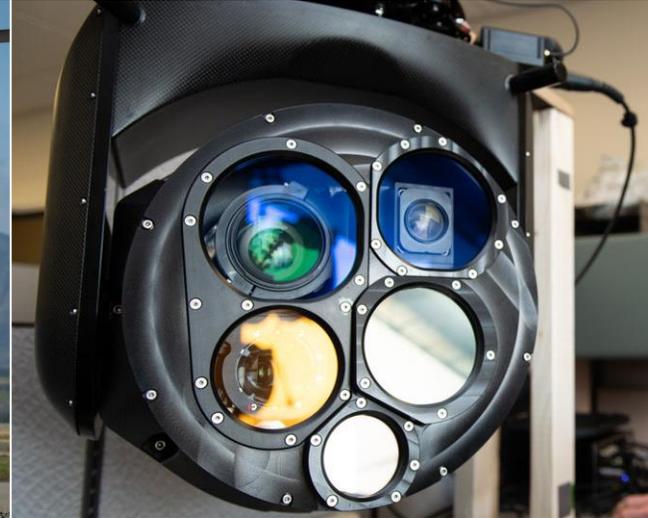
Energy from
Electrical
Infrastructure

Vegetation &
Structures



Inspections

- In less than five months: crews completed detailed ground-based inspections of 400,000-plus distribution and transmission structures in high fire risk areas
- Deploying helicopters and drones equipped with infrared, ultraviolet, LiDAR and HD image scanning to perform aerial inspections of our facilities in high fire risk areas





Vegetation Management

- Hazard tree removal (beyond traditional trim zone)
- 20-plus in-house certified arborists
- 500-plus vegetation management crews, totaling nearly 1,000 workers
- 900,000 trees inspected annually; 400,000 trees in high fire risk areas
- 700,000 pruned per year
- Vegetation removal at poles
- LiDAR surveying



High-Tech Cameras



- High-tech cameras help monitor potential wildfires in real time
- By 2020, we will install up to 160 cameras, providing 90% coverage of high fire risk areas



Weather Stations

- Technology that provides real-time weather forecasting in high fire risk areas
- Installing 850 weather stations by the end of 2020 as part of our wildfire mitigation program



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





Covered Conductor



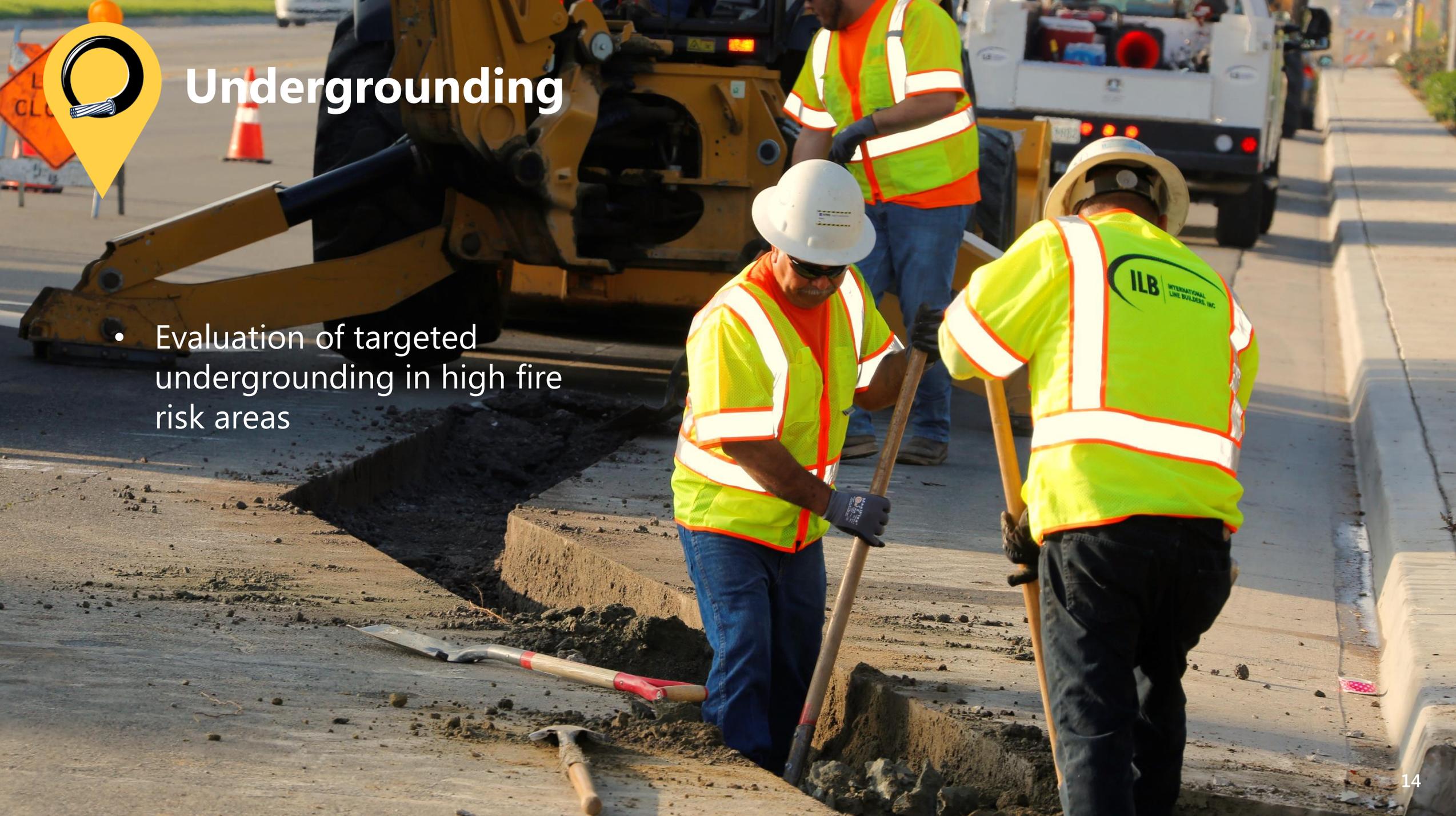
- Insulated wires help reduce wildfire risk
- Installing 600 circuit miles of the insulated wire by 2020



Protective Devices and Reclosers

- 1,500-plus automatic reclosers programmed with more sensitive settings
- 7,500-plus fast-acting fuses installed





Undergrounding

- Evaluation of targeted undergrounding in high fire risk areas

Partnering with Local and State Agencies

- Coordination and integration with Cal OES, Operation Santa Ana and other emergency response efforts
- Funding a project to demonstrate novel aerial firefighting capability in Southern California



Talking With Our Communities

A woman with long dark hair and glasses, wearing a grey polo shirt, is looking down at a document she is holding. Next to her, a man with a beard, glasses, and a green baseball cap, wearing a light blue t-shirt with a 'GB' logo, is also looking at the document. They appear to be in a community meeting or office setting.

- More than 30 community meetings held in high fire risk areas
- Meetings scheduled with 120 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

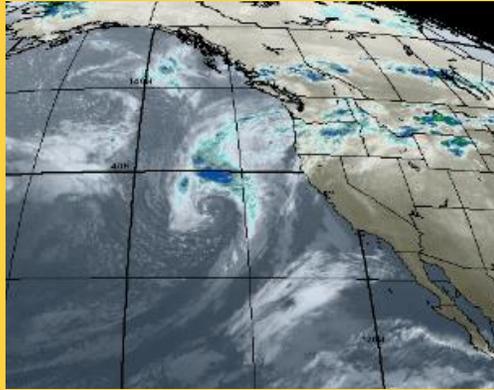


Public Safety Power Shutoff

- De-energizing power lines to prevent ignitions
- Used during elevated fire conditions
- Primarily impacts circuits in high fire risk areas

PSPS Decision Points

Decision points include, but are not limited to:



- SCE meteorologists forecast **strong wind** conditions in service area
- SCE fire scientist assessment **of fire potential** to include consideration of **weather** and **fuels**

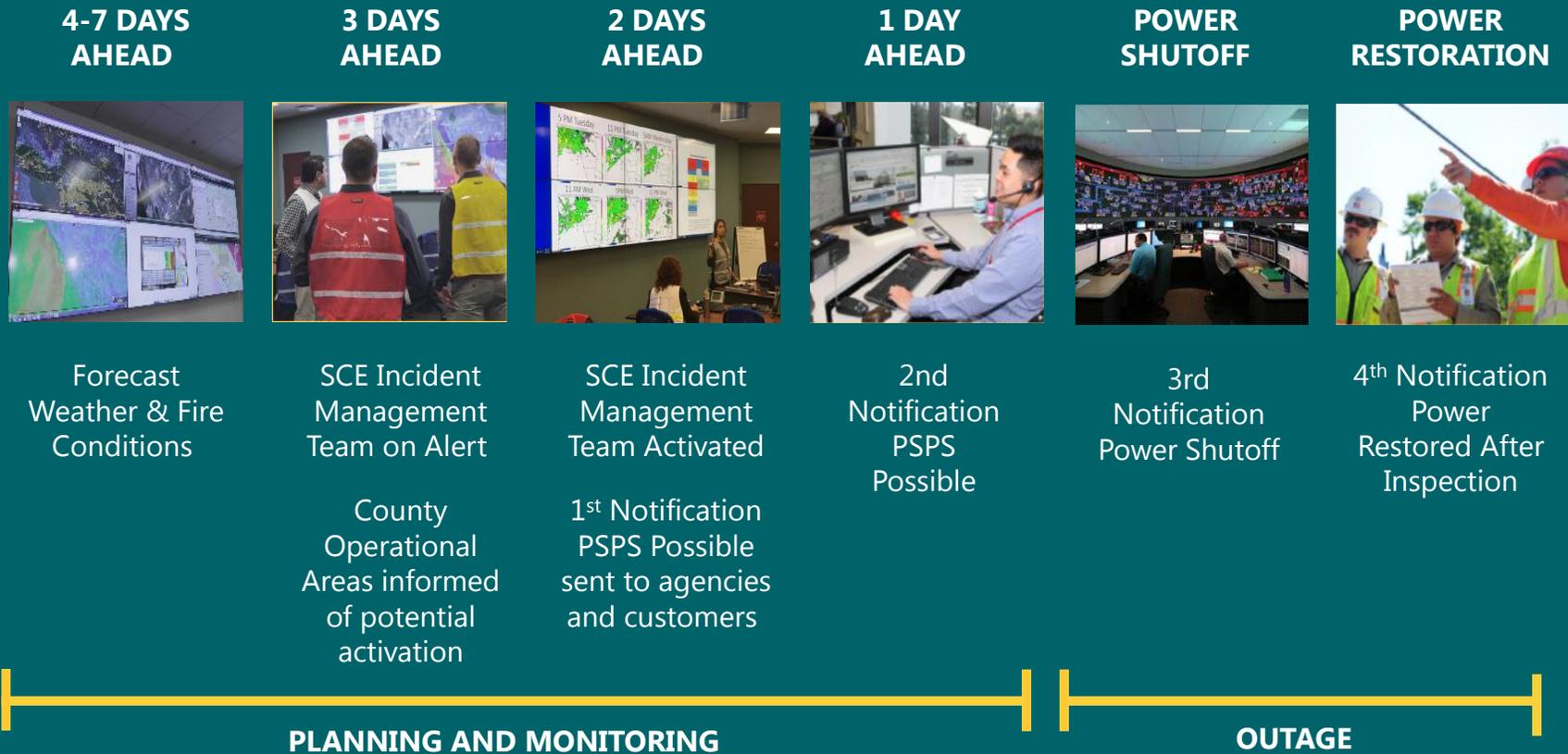


- Real-time observations from qualified electrical workers monitoring for **hazardous conditions** in the field



- Impact of de-energizing circuits on **first responders** and **essential services**

PSPS Ideal Timeline



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

Community Resilience and Emergency Preparedness



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

Useful Information

- Update Account Information - www.sce.com/psps
- Information on SCE Wildfire Management Plan - www.sce.com/wildfire
- Twitter - [@sce](https://twitter.com/sce)
- Facebook – www.facebook.com/sce
- Fire Cameras- www.alertwildfire.org
- Weather Stations – mesowest.utah.edu
- CPUC Wildfire Maps Information - www.cpuc.ca.gov/wildfiresinfo/
- Fire Preparedness - calfire.ca.gov/fire_protection/fire_protection_be_prepared
- Red Cross Emergency Preparedness
www.redcross.org/get-help/how-to-prepare-for-emergencies.html
- FEMA Emergency Preparedness – www.ready.gov

