

Senate Informational Hearing: Wildfire Safety

November 18, 2015

SCE Highlights

- One of the nation's largest electric utilities:
 - Nearly **14 million** residents in service territory
 - Approximately **5 million** customer accounts
 - **50,000** square-mile service area
- ~75% of our territory in SCE's designated High Fire Areas
- **1.5 million** wood poles
 - 330,000 (20%) poles in High Risk Areas (High Fire and High Fire/High Wind)
- 1.5 million trees in our service territory
 - 640,000 (42%) trees located in High Fire Areas
- **5,800** circuits
 - **993** (17%) circuits in High Fire Areas



SCE's Multi-track Strategy to Mitigate Wildfire Risk

Identifying and Assessing the Risk	Mitigating the Risk	Responding to an Event
T&D Inspection Program		
Prioritized Risk Informed Strategic Management (PRISM)	Grid Hardening & Modernization	
	Grid Maintenance	
Summer Readiness Program		
Vegetation Man	nagement Program	
	Engineering, Design & Construction	
	Standards	
	Grid Operations	
		Emergency Response & Recovery Plans
		Incident Command System
SCE Fire Management and State/Local	Agency Partnerships	
Situational Awareness		
	2	GOVERNEDIA GALVEGRINA EDIGONO

Planning

Execution

Page 3

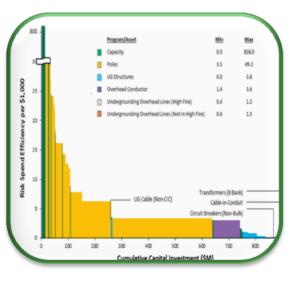
SOUTHERN CALIFORNIA EDISON®

Identifying and Assessing the Risk

T&D Inspection Programs

• Meets or exceeds requirements

Prioritized
Risk
Informed
Strategic
Management
(PRISM)



Vegetation Management Program

- Annual and mid-cycle patrols in HFAs
- Quarterly patrols in Priority HFAs

Summer Readiness Program

- Annual program
- Reliability assessments
- Drought assessments

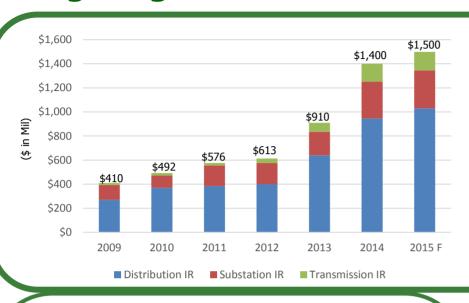
SCE/Fire Agency Partnerships and Situational Awareness

Patrols

Jummer Readiness Plan

- Weather reports
- •Red Flag Warnings
- •Operation Santa Ana
- •Flame and smoke detection

Mitigating the Risk - Grid Hardening and Modernization

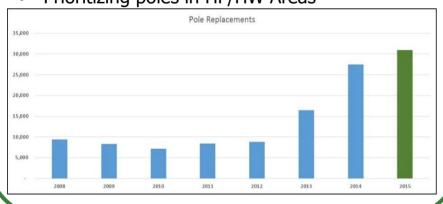


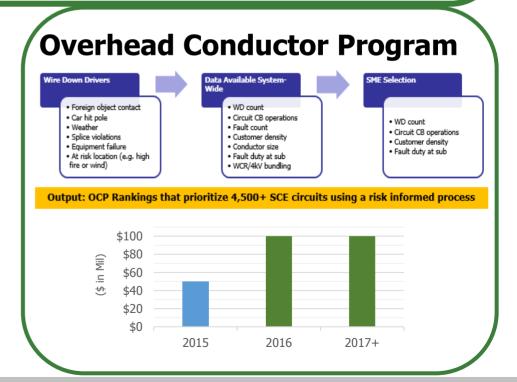
Strengthening our grid

- Poles/Towers
- Conductors
- Cables
- Circuit breakers
- Transformers
- Grid modernization
 - Substation & circuit automation

Pole Assessment and Remediation Program

- All 1.5M Poles
- 12 year assessment and remediation
- Prioritizing poles in HF/HW Areas





Mitigating the Risk



Engineering, Design & Construction Standards

- Engineering standards include improved automated equipment to detect line faults and isolate circuit segments
- Design standards include enhanced wind load criteria for wood poles in SCE High Fire Areas and known High Wind areas
- Overhead construction standards include enhanced pole setting depths, replacement of small diameter copper wire, reduced number of wire splices



Vegetation Management

- Annual and semi-annual patrols
- Dead tree removal program
- Tree trimming exceeds minimum requirement



Grid Operations

- System Operating Bulletin 322 *Operation of Distribution Voltage Lines Traversing High Fire Hazard Areas*
- Patrols & Fire Watchers

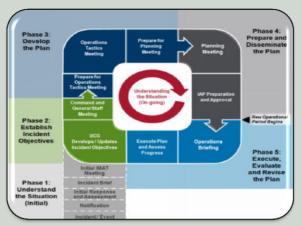


Situational Awareness

- Emergency Fire Maps
- Patrols

Responding to an Event



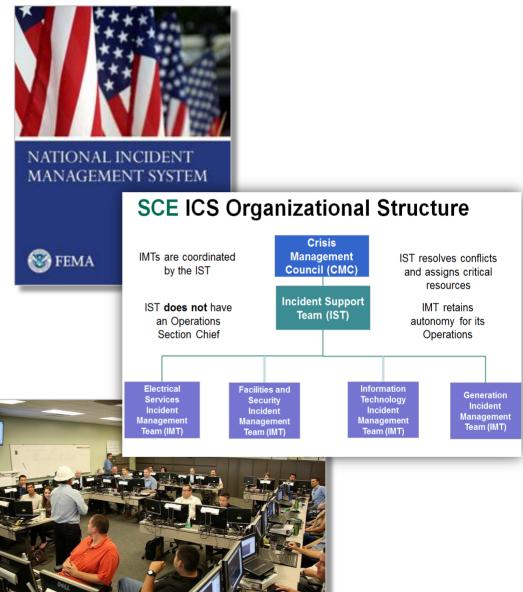




Corporate Emergency Response Plans Incident Command System (ICS) SCE and State/Local Agency Partnerships Responding to an Event: SCE Adopts the Incident Command System

Since January 2014:

- ✓ Established 14 Incident Support and Incident Management Teams (309 members)
- √ 125 ICS training classes
- ✓ 1,216 trained & qualified members of:
 - Crisis Management Council
 - Incident Support Team
 - Incident Management Team
- Completed 86 exercises using Homeland Security Exercise Evaluation Program
- ✓ Conducted **123** Electrical Safety training classes for **3,193** fire agency 1st responders



Fire Agency Resources and Assets Supporting SCE



County-Area Fire Agency

- **8,100** Personnel
- **547** Stations
- **600** Engines
- 34 Aircraft



CAL FIRE & USFS

- 17,350 Personnel
- **850** Stations
- 1,180 Engines
- **59** Aircraft

Summary

- SCE uses a multi-track strategy to identify, assess and mitigate wildfire risks and respond to events
- A number of existing practices have been enhanced and new activities adopted since 2007 to further improve SCE's ability to manage wildfire risk
- A significant part of SCE's strategy is its close collaboration local, county and state fire agencies