

Southern California Edison 2020 PSPS Performance

1/26/2021



Wildfire Prevention Occurs Prior to PSPS

Speaker: Phil Herrington - CPUC Issue No. 1 – Transparency of PSPS Decision-Making Process



Prior to peak fire season:

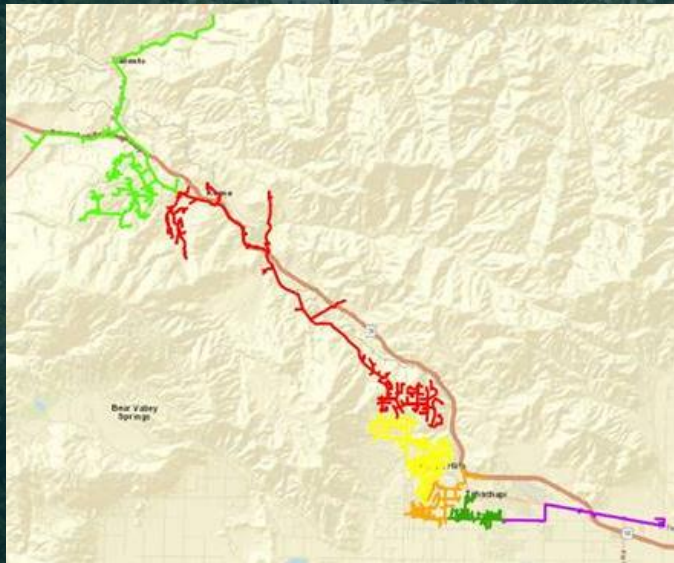
- Continued grid hardening in the highest-risk areas
- Inspected from the air and ground every distribution and transmission structure in the highest-risk areas
- Focused on areas impacted by 2020 drought

PSPS is Used as Measure of Last Resort

Speaker: Phil Herrington - CPUC Issue No. 1 – Transparency of PSPS Decision-Making Process

Protocols ensure PSPS is a measure of last resort and reduce PSPS frequency and impact

- Customers notified based on forecasts – de-energized only based on real-time conditions
- Circuit segmentation plans created for all 1,100 circuits in high fire risk areas
- Pre-event patrols conducted for every circuit at least 48 hours in advance to remediate problems that require de-energization
- Perform switching and reconfiguration to remove customers in scope for PSPS where available
- Identify critical COVID-19 sites (hospitals, vaccine storage), conduct outreach, move to other circuits when possible



Circuit segments (shown) can be de-energized separately.

Additional actions prior to event:

- Weather forecasts performed daily for each circuit for fuel conditions (fire potential index), wind speeds
- Threshold alert levels established based on known risks

PSPS is Used as Measure of Last Resort

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During Event:

- Trained, dedicated team specific to PSPS response
- Live observations by field personnel on the ground
- Validating hazardous conditions - each circuit segment monitored for actual conditions
- Weather stations and handheld weather devices used
- Meteorology and Fire Science review and confirm
- Every effort made to de-energize only where actual hazards exist
- Public Safety Partners engaged for feedback (e.g., fire, water, telecom, hospitals, COVID-19 sites)
- Restoration - hundreds of field crews



SCE is Committed to Further Reduce PSPS and Enhance Transparency in Decision-Making

Speaker: Phil Herrington - CPUC Issue No. 1 – Transparency of PSPS Decision-Making Process

Challenges and Gaps

- Better stakeholder understanding of PSPS decision points
- Need to further refine thresholds

Committed to Improve

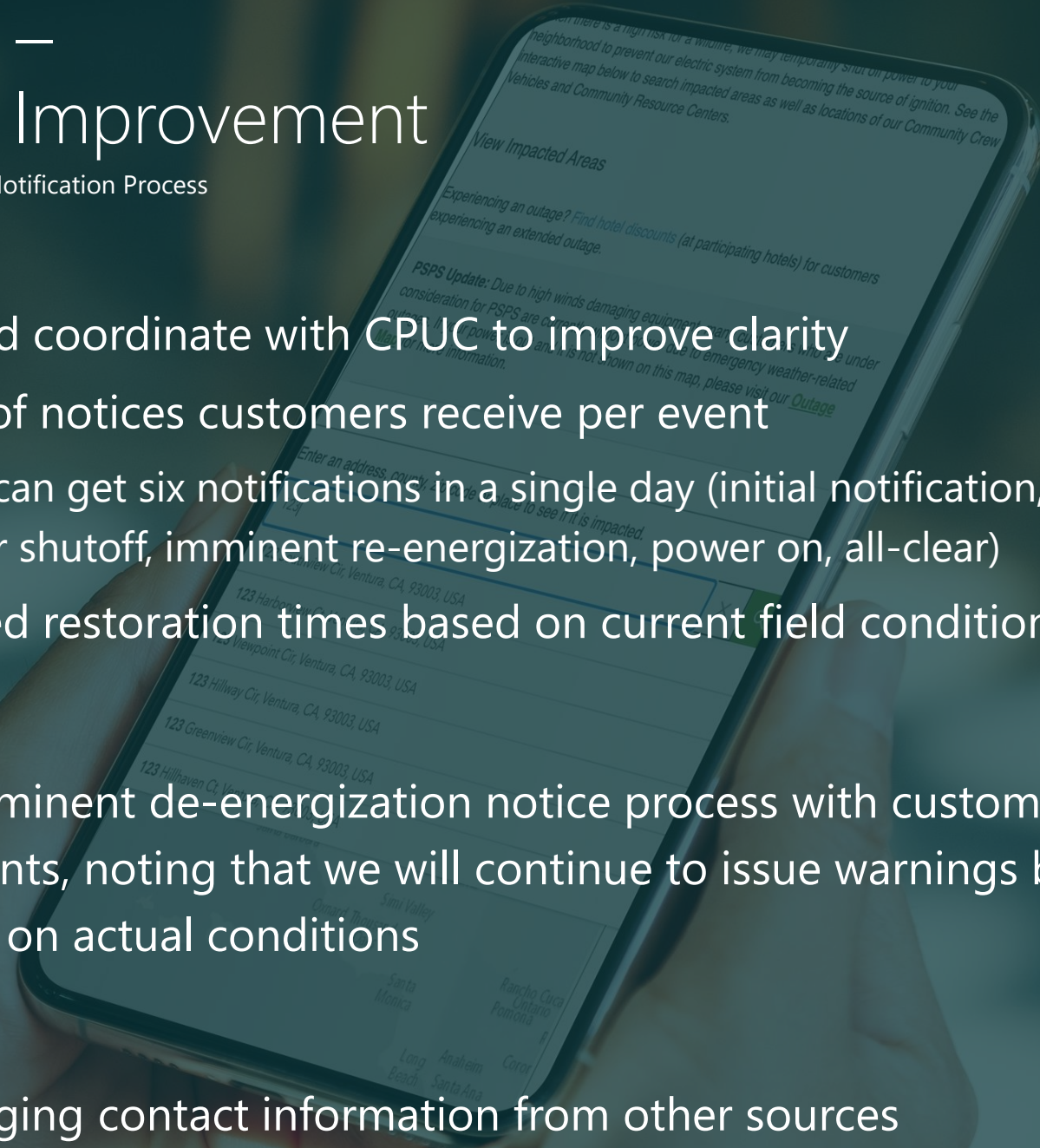
- Additional grid hardening to increase wind thresholds
- Accelerating grid hardening work in highly impacted communities
- Continued refinement of thresholds based on additional weather, fuel and circuit data
- Improving engagement with CPUC, CAL FIRE, Cal OES and local, state and tribal governments to provide better understanding of decision-making
- Reflect changes into corrective action and post-event reports



Customer Notifications – Action Plan for Further Improvement

Speaker: Jill Anderson - CPUC Issue No. 2 – Execution of the Notification Process

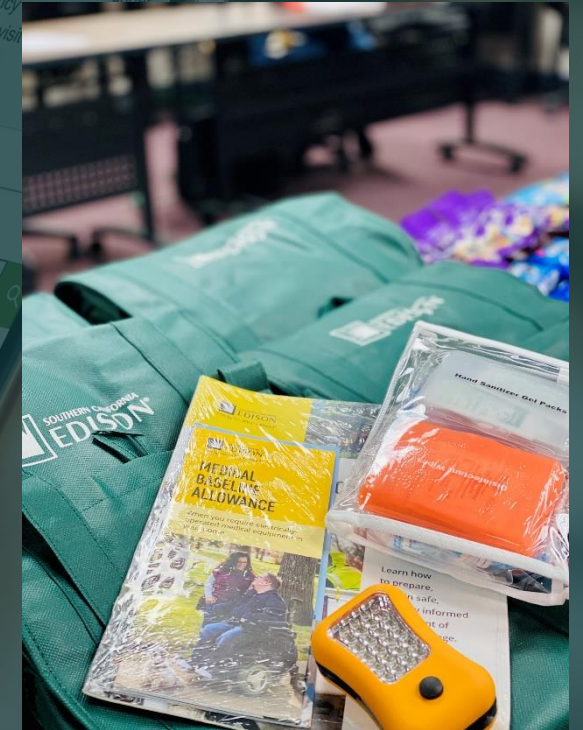
- Redesign notification process and coordinate with CPUC to improve clarity
 - Rationalize the number of notices customers receive per event
 - Residential customers can get six notifications in a single day (initial notification, imminent de-energization, power shutoff, imminent re-energization, power on, all-clear)
 - Consider use of estimated restoration times based on current field conditions
- Improve accuracy by aligning imminent de-energization notice process with customer locations based on circuit segments, noting that we will continue to issue warnings based on forecasts and de-energize based on actual conditions
- Reach more customers by leveraging contact information from other sources



Customer Notifications – Reaching Our Most Vulnerable Customers

Speaker: Jill Anderson - CPUC Issue No. 4 – Identification and Notification of Medical Baseline and Access and Functional Needs Customers

- Enhance scope of delivery confirmation
 - Currently prioritize most critical with ~96% success
 - Developing plan to scale confirmation of notice delivery to broader Medical Baseline population
- Share information with public entities
 - Currently provided manually during events
 - Evaluating an online portal for easier access
- Increase enrollment in Medical Baseline
 - Will continue to optimize outreach and enrollment approach, achieved 14% enrollment increase in 2020
 - Integrating outreach into other customer program campaigns and expanding partnerships to reach customers



Customer Care and Resiliency

Speaker: Jill Anderson – CPUC Issue No. 4 – Identification and Notification of Medical Baseline and Access and Functional Needs Customers

- Encourage customer resiliency
 - Initial slow adoption in 2020 Critical Care Backup Battery (CCBB), reached 33% of eligible customers
 - Expanding CCBB from ~2,500 to ~12,000 eligible Medical Baseline customers in 2021
 - Additional rebates added for portable power
- Provide local care during events
 - Community Resource Centers expanded from 13 to 56 in 2020
- Build community resiliency
 - Resiliency zones underway in Agua Dulce & Cabazon
 - Microgrid operational in San Jacinto and others planned



Coordination with Government Agencies & Public Safety Partners is Crucial

Speaker: Steve Powell - CPUC Issue No. 3 – Coordination with State and Local Governments



- Coordination occurs throughout year with Local Governments, State and County Emergency Management and Public Safety Partners
 - Identify critical facilities and PSPS circuits serving local/tribal governments
 - Share detailed information with critical infrastructure providers on potential facility impacts during PSPS events
- PSPS managed as emergency using Incident Command System to align with agencies and partners to protect public safety
 - Dedicated team with more than 40 trained professionals
 - Duty Manager as emergency contact for fast issue escalation
- Separate daily coordination calls through the duration of the event
- Statewide Executive Briefing, County Operational Briefing, Critical Infrastructure Briefing

Improving Coordination with State, Local and Tribal Governments

Speaker: Steve Powell - CPUC Issue No. 3 – Coordination with State and Local Governments

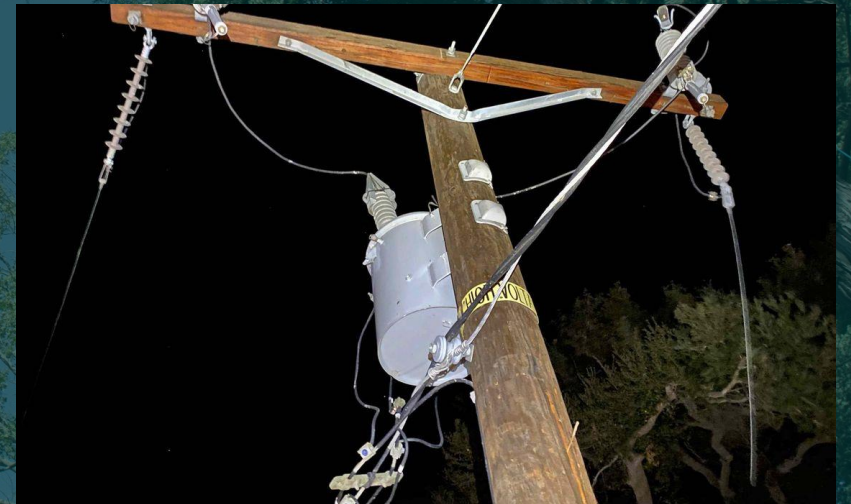
Progress and improvement areas:

- Identified proper participants to improve Operational and State Executive Briefings
- Currently working with Cal OES and California State Warning Center to better align communication and reporting formats for timely and accurate information sharing
- Engaging impacted communities (e.g., Acton, Agua Dulce, Simi Valley, etc.) and will determine appropriate means to collect additional input and disseminate community-specific information
- Refining opportunities for feedback (e.g., after-action reviews, comments to post-event reports, working group/advisory boards, coordination calls, etc.) on PSPS performance to achieve more effective public safety partner engagement

Quality of PSPS Post-Event Reporting

Speaker: Steve Powell - CPUC Issue No. 5 – Quality of PSPS Post-Event Reports

- Reports include timeline of events, notifications, coordination with public safety partners, circuit de-energization/re-energization and more
- Significant detail and data about each event dependent on manual data collection and validation
 - Submitted reports can exceed 300 pages
 - Multiple periods of concern bundled into single event
 - Back-to-back events complicate simultaneous data validation and event management



Quality of PSPS Post-Event Reporting

Speaker: Steve Powell - CPUC Issue No. 5 – Quality of PSPS Post-Event Reports

- SCE is committed to delivering accurate, clear and timely post-event reports
- Internal efforts will improve manual data processes and targeted automation
- Work with CPUC for additional alignment on expectations
 - Report content: wildfire risk assessment, de-energization benefits vs. public safety risk, impacts to customers, deviations from protocols
 - Event duration and bundling
 - Appropriate timelines for submission per event

SCE PSPS Post Event Report
December 16 to December 24, 2020

Circuit	Isolation Device	IC Approved Restoration Operations	Circuit Fully Re-energized
SADDLEBACK	060356	12/24/2020 0:35	12/24/2020 13:13

SCE PSPS Post Event Report
December 16 to December 24, 2020

Executive Summary
This report provides information related to the Public Safety Power Shutoff (PSPS) events that occurred in SCE's service area from December 16 through December 24, 2020. On December 16, 2020, Southern California Edison (SCE) remotely activated¹ an Incident Management Team (IMT)

**Southern California Edison
Public Safety Power Shutoff Protocol (PSPS)
Post-Event Reporting in Compliance with Resolution ESRB-8 & De**

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 **SOUTHERN CALIFORNIA EDISON**
An EDISON INTERNATIONAL Company

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January 11, 2021

Leslie Palmer, Director
Safety Enforcement Division
California Public Utilities Commission
505 Van Ness Avenue
San Francisco, CA 94102

SUBJECT: SCE PSPS Post Event Report – December 16 to December 24, 2020

Dear Director Palmer:

Southern California Edison (SCE) respectfully submits the attached report in compliance with the Public Safety Power Shutoff (PSPS) Post Event Reporting requirements regarding its PSPS event that began December 16 and ended December 24, 2020.

This report has been verified by an Officer of SCE in accordance with Rule 1.11 of the Commission's Rules of Practice and Procedure.

Sincerely,

DocuSigned by:

Diana S. Gallegos
Principal Manager, Regulatory Relations

cc: ESRB_ComplianceFilings@cpuc.ca.gov

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