SCE's 2020 Planning for Public Safety Power Shutoffs

California Public Utilities Commission Briefing

Aug. 11, 2020



Executive Summary

- SCE does not take the decision to de-energize lightly. We recognize the hardships a de-energization event can create; this is why SCE is committed to informing and supporting the communities we serve
 - PSPS remains a vital tool in protecting public safety and mitigating wildfire risk
- SCE has refined its approach to PSPS based on lessons learned from 2019, Commission guidance, and feedback from customers, communities and stakeholders
- With the grid improvements SCE has made since last year, under the same weather conditions as 2019, we expect to see a **30 percent reduction** in the number of customers affected by future PSPS events
 - Approximately half of these customers are not expected to experience PSPS at all in 2020
- SCE continues to make modifications ahead of the 2020 fire season focusing on:
 - SCE's preparedness and decision-making tools during PSPS
 - Community information, engagement and outreach
 - Stakeholder collaboration for emergency preparedness and response
 - Customer care during PSPS
- SCE is implementing changes to its PSPS approach during the COVID-19 pandemic
 - Recognizing greater impact of de-energizations for customers working, learning and caring for loved ones at home
 - Balancing assistance to customers while following CDC guidance and state and local orders

2019 PSPS Events

- SCE conducted 16 events (9 led to de-energizations) with approx. 122,000 unique customers de-energized in 2019 with an average duration of 27 hours
- Largest de-energization event was Oct. 27-Nov. 3, 2019 and affected approx. 101,000 unique customers
- During post-patrols found multiple instances of equipment damage and tree branches contacting power lines that could have ignited a fire

Major PSPS Lessons Learned

- 1. System hardening, especially circuit sectionalization, continues to be useful in reducing the scope and frequency of PSPS de-energizations
- 2. The key role played by a dedicated PSPS Incident Management Team and improved analytics in supporting PSPS decision-making and operations
- 3. Find opportunities to improve communication, engagement, and response to customers during PSPS events
- 4. It's important to maintain and add customer care programs
- 5. Modifying protocols to reduce the scope, frequency and impacts of PSPS to customers is important, especially during COVID-19 pandemic
- 6. Provide additional information about decision-making in post-event reporting



PSPS Decision Points

Decision points include, but are not limited to:



- Watches and Warnings issued by the National Weather Service
- SCE meteorologists' forecast of strong wind conditions in the service area
- SCE fire scientists' assessment of fire potential using weather data, fuel conditions, and vegetation moisture content



- **Circuit health** as determined by inspection findings, recent upgrades, and any observed damage
- Real-time field observations from qualified electrical workers monitoring for hazardous conditions



- Guidance from emergency management officials and first responder agencies (e.g., Cal OES, CAL FIRE, county/city emergency management entities, tribal governments)
- Impact to **critical infrastructure** as determined by community characteristics and information

PSPS-Related Enhancements

SCE expects to reduce the scope, duration, and impact of PSPS; however, PSPS will continue to remain a viable solution for extreme conditions

Rapidly developing circuit-specific plans to reduce the impacts observed in 2019 by: Switching Playbooks Leveraging existing isolation equipment * Targeting remediations * **Targeted Grid** Identifying small upgrades to reduce the * Hardenina number of customers impacted by PSPS **Multipronged** Deploying more weather stations approach to * **Engineering & System** reduce scope, Pursuing microgrid opportunities when * **Fvaluation** duration, and technologically and economically feasible with safety operations in mind impacts of **PSPS Establishing Community Resource Centers** ** **Microgrids & Deploying Community Crew Vehicles** * **Resiliency Zones** Providing potable water * Addressing food spoilage claims * **Customer** Care * Conducting community outreach

Expanded Customer Communications

SCE has expanded communications to make it easier for customers to receive updates in their preferred language

- **Expanded alerts** based on zip code to include non-SCE account holders via the "Nextdoor" communications platform
- **SCE.com** has been upgraded to provide customer-friendly outage information, including enhanced interactive mapping that enables street-level zoom capabilities
- SCE.com performance has also been upgraded to handle more traffic (5M views over an hour now vs 200k in 2019)
- Customers can sign up to receive notifications in their **preferred language** (English, Spanish, Mandarin, Cantonese, Korean, and Tagalog)





Providing Valued Programs & Services

SCE is offering a variety of new programs and services to our customers, especially for most vulnerable populations

- **Back-up generation** will be offered to customers that have a range of varying needs
 - Our most vulnerable income-qualified, critical care customers can receive a fully subsidized back up battery with solar for up to 24 hours of resiliency
 - Customers reliant on well water pumping can receive a rebate of up to \$500
 - Customers that need a portable power battery can receive a \$50 rebate
- **Goods and services** are provided via SCE's Community Resource Centers and Community Crew Vehicles to customers in impacted communities including device charging, restrooms, ice, water, PPEs, and ability to enroll in outage alerts.
- **Resiliency zones** are in development to augment certain vulnerable rural communities in which back-up power will be provided to essential services within those areas
- **Circuit-level customer care plans** provide a summary overview of all programs and services available for each circuit area (137 completed to-date with a goal of 1,100)
- **Deploy temporary backup generation** on underground portions of selected deenergized circuits that have experienced PSPS events
- **Preparedness and resiliency planning** support for critical infrastructure providers

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Community Engagement & Expanded Partnership

SCE is committed to keeping its customers and key stakeholders informed of WMP activities, PSPS protocols, and general emergency preparedness

- Held nine virtual community meetings and 15 resiliency workshops beginning in May to share information about PSPS, emergency preparedness, and SCE's wildfire mitigation plan
- Increased partnerships, including giving grants, with organizations supporting Access & Functional Needs customers
- Expanded pool of Community Resource Centers and adjusted protocols for social distancing due to COVID-19



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In closing, SCE has made significant progress in 2020 (through Q2) to reduce wildfire risks and mitigate PSPS



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Appendix



Sample Map in REST



Sample Map in REST



SCE.com PSPS Webpage Examples

Areas that are under consideration for de-energization and that are de-energized are displayed, including estimated dates and times for re-energization



SCE.com PSPS Webpage Examples (cont'd.)

Address search functionality identifies if a location is under consideration, deenergized, or not impacted by PSPS

View Impacted Areas



View Impacted Areas							
Enter an address, county, zip code or place to see if it is impacted.	1 Pasadena Avenue, South Pasadena, CA, 91030, USA	×	٩				
Your address is not impacted							

SCE.com PSPS Webpage Examples (cont'd.)

Locations of CCVs and CRCs include dates and hours of operation

Map Pop-Up





Community Resource Centers

Community Resource Center(s) will be available for customers in affected areas when a Public Safety Power Shutoff is called. These centers will allow customers to power up their personal mobile devices and, where available, to have access to Wi-Fi. Customers will also have access to water and light snacks, a sitting area, restrooms, and updated information on the proactive power shutoff. See below for location(s) and times:

Los Angeles County	Mono County	San Bernardino County	Santa Barbara County
Kmart / Sears	Kmart / Sears	Kmart / Sears	Kmart / Sears
9283 Westchester Blvd	873 Candy Rd Sweetwater,	79 Green Av Blue Ridge,	345 Main St Santa Barbara,
Tomland, CA 92888	CA 92888	CA 92888	CA 92888
 4/13-4/17 8:00AM to			
5:00PM	5:00PM	5:00PM	5:00PM