Thank you for joining us this evening.

This meeting is being recorded.

Please note, the chat function, camera, microphone, and reactions are disabled for this meeting.

To add closed captioning, please click the three dots found at the top right of the tool bar. In the dropdown menu, select turn on live captions.

To submit a question, use the Q&A window throughout the session.

Please only submit questions that are relevant to the presentation and topics being presented.
Our Commitment to California
Keeping our communities safe from wildfires

Community Meeting for Riverside County
May 12, 2022
You can submit a question using the Q&A window throughout the session.

Please only submit questions that are relevant to the presentation and topics being presented.
PRESENTERS

Mark Bassett
Emergency Services Manager
Riverside County

Jeremy Goldman
Government Relations Manager
Local Public Affairs

Paul Grigaux
Vice President Distribution

Cameron McPherson
Senior Manager Wildfire Safety

Katie Sloan
Vice President Customer Programs & Services
AGENDA

• 2021 Wildfire Season
• SCE’s Wildfire Mitigation Activities
• Public Safety Power Shutoffs
• Reducing the Need for PSPS
• PSPS Communications
• Customer Programs & Resources
• Q&A
BE PREPARED FOR POTENTIAL EMERGENCIES

An emergency can happen at any time.

Have a Plan & Make a Kit
You can help your family be prepared for any emergency situation with a safety preparedness plan, an emergency kit with some basic supplies and advance planning. Whether a storm, an earthquake, a wildfire or a flood comes our way, preparedness will help everyone cope better and stay safer. Learn more at sce.com/beprepared.

Alert Riverside County:
Alert RivCo, Emergency Management Department, Riverside County (rivcoready.org/alertrivco)

Wildfire Preparedness Tips:
CAL FIRE (readyforwildfire.org)
California experienced another year of extreme wildfire activity, exacerbated by intensifying drought. Dry vegetation and strong winds continue to threaten our communities during year-round fire season.
REDUCING WILDFIRE RISK IN OUR COMMUNITIES
INSULATED WIRE IS ONE OF THE MOST EFFECTIVE MEASURES TO REDUCE WILDFIRE & PSPS RISKS IN SCE’S SERVICE AREA

Insulated wire is a very valuable tool to expeditiously and cost-effectively reduce wildfire risk specific to SCE

Undergrounding considered for certain locations based on risk profile

**Geography**
Contact from vegetation and other objects is a key risk factor in much of SCE’s area
Insulated wire is very effective in mitigating these risks

**Cost to Implement**
Insulated wire installation costs significantly lower than undergrounding
Undergrounding costs vary depending on construction methods, locational, and operational factors

<table>
<thead>
<tr>
<th>Cost per mile ($ in Millions)</th>
</tr>
</thead>
<tbody>
<tr>
<td>~5.5</td>
</tr>
</tbody>
</table>

~65–90% lower

~0.6

**Execution Speed**
Insulated wire can be deployed within 16–24+ months, and sometimes faster
Undergrounding generally takes 25–48+ months

**Unique Factors**
Undergrounding is considered where there is:
- High burn frequency
- Limited egress
- Wind speeds exceeding insulated wire PSPS thresholds
- Exceptionally high potential consequence (>10,000 acres)

Several hundred miles currently under consideration for additional enhanced mitigation, including undergrounding

1. Based on data provided in SCE’s 2022 WMP Update
2. Through March 31, 2022
3. Undergrounded miles is a hypothetical approximation of underground lines that could have been constructed through March 31, 2022, based on SCE’s assumptions and experience with planning and executing undergrounding projects

Insulated wire

~3,260

Underground

~A few hundred

Click to view larger image
REDUCING WILDFIRE RISK & PSPS IMPACTS – BY THE NUMBERS

SCE estimates its wildfire mitigation and PSPS measures have reduced the risk of damage from catastrophic\(^1\) wildfires by **65% to 70%**, relative to pre-2018 levels.

**ONGOING WILDFIRE MITIGATION EFFORTS**

~34% of overhead wire in high fire risk areas replaced with insulated wire\(^2\)

**Suite of mitigations** include system hardening, annual equipment inspections, vegetation management and situational awareness measures

**IMPROVED PSPS EXECUTION & CUSTOMER SUPPORT**

73% **reduction** in PSPS outage time in 2021 on frequently impacted circuits\(^3\)

81,000 **customers** removed from scope from exceptions and switching protocols

64 **Community Resource Centers** available

**AERIAL FIRE SUPPRESSION SUPPORT**

Contributed **$18 million** for the creation of the quick reaction force of the world’s largest helitankers

Used on more than **50 fires in 2021**, helping to suppress fires in its early stages

---

1. A wildfire directly causing one or more deaths, damaging or destroying more than 500 structures, or burning more than 140,000 acres of land
2. Though March 31, 2022
3. Based on 2021 weather and fuel conditions
PUBLIC SAFETY POWER SHUTOFFS

- A tool of last resort used during dangerous fire conditions (weather and fuels)
- De-energizing lines to prevent a spark from our equipment starting a significant wildfire
- Primarily impacts circuits in high fire risk areas
- Use of multiple methods to notify customers and partners in affected areas before, during and after a PSPS event
- In 2021, continued PSPS improvements and reduced frequency, scope and duration of PSPS

Damage/hazards found after strong winds during PSPS

Data as of 12/31/21
REducing the need for pSPS
2021 Achievements and 2022 Plans

**Insulated Wire**
Replaced an additional 1,500 miles of bare wire with insulated wire; 700 miles of expedited grid hardening to raise PSPS threshold prior to peak wind season. Plan to replace 1,100 miles in 2022; 270 miles of expedited grid hardening.

**Segmentation**
Installed 23 additional remote-controlled sectionalizing devices to segment and isolate circuits during PSPS. Plan to add 15 devices in 2022.

**Weather Stations**
Installed 400 additional weather stations for improved forecasting and accuracy of PSPS operations. Plan to add 150 weather stations in 2022.

**Switching Protocols**
Removed 81,000 customers from PSPS scope through exceptions and switching protocols.

**Operational Protocols**
Utilized up-to-date information on ground conditions (e.g., lack of vegetation) to assess wildfire threat and the need for PSPS.
## 2021 PSPS EVENTS

### Service Area Compared to 2020

<table>
<thead>
<tr>
<th>Statistics</th>
<th>Customers Interrupted</th>
<th>Circuit Interruptions</th>
<th>Customer Minutes of Interruption</th>
</tr>
</thead>
<tbody>
<tr>
<td>2020 Fire Season</td>
<td>~348K</td>
<td>~584</td>
<td>~388M</td>
</tr>
<tr>
<td>2021 Fire Season</td>
<td>~85K</td>
<td>~124</td>
<td>~105M</td>
</tr>
<tr>
<td>Delta</td>
<td>↓76%</td>
<td>↓79%</td>
<td>↓73%</td>
</tr>
</tbody>
</table>

### Riverside County Compared to 2020

<table>
<thead>
<tr>
<th>Statistics</th>
<th>Customers Interrupted</th>
<th>Circuit Interruptions</th>
<th>Customer Minutes of Interruption</th>
</tr>
</thead>
<tbody>
<tr>
<td>2020 Fire Season</td>
<td>~79k</td>
<td>~120</td>
<td>~74M</td>
</tr>
<tr>
<td>2021 Fire Season</td>
<td>~29k</td>
<td>~44</td>
<td>~34M</td>
</tr>
<tr>
<td>Delta</td>
<td>↓63%</td>
<td>↓63%</td>
<td>↓54%</td>
</tr>
</tbody>
</table>

54% REDUCTION IN CUSTOMER MINUTES OF INTERRUPTION IN RIVERSIDE COUNTY

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14
EXPEDITED GRID HARDENING
ON CIRCUITS IMPACTED BY PSPS IN RIVERSIDE COUNTY

Completed in 2021

- Expedited installation of*:
  - 80 miles of insulated wire
  - 6 sectionalizing devices
  - 2 weather stations
- Removed 5 circuits and 1 circuit segments from PSPS consideration
- Raised PSPS wind threshold on 3 circuits

*Note: Number of total installed on all circuits in the county may be higher

Plans for 2022

- Expedite installation of:
  - 127 miles of insulated wire
  - 1 sectionalizing devices
  - 9 weather stations
- Remove 1 circuit from PSPS consideration
- Raise PSPS wind threshold on 5 circuits

Target Completion Date: Oct. 1, 2022
Identified Circuits for Expedited Grid Hardening in Riverside County
EXAMPLE OF REDUCING THE NEED FOR PSPS

Circuit: Bing

Community: Beaumont, Cherry Valley

Planned Work:
• Replace .31 miles of existing overhead wire with new insulated wire
• Implement operational protocols to raise PSPS windspeed thresholds

Expected Completion Date:
• 10/1/2022

Expected Improvements:
• 100% reduction in customer outage time, assuming the same weather conditions in 2020
EXPECTED IMPROVEMENTS

With the implementation of our plans this year, we expect to see an **87% reduction in customer outage time** across these PSPS impacted circuits in Riverside County communities compared to 2020 and 2021, assuming the same weather conditions.

For circuit details and status, visit: sce.com/pspsenhancements

![Customer Outage Time by Circuit](image)

Updated: 05-26-2022

1) PSPS impacted circuits are circuits that have experienced one or more PSPS related outages in 2019-2021
2) Customer outage time is measured as total Customer Minutes of Interruption (CMI)
3) The Helicopter, Nations, Sonoma, Tudor, and Winery planned work is only a weather station for which benefits cannot be calculated
**PSPS COMMUNICATIONS**

**Notifications**
- SCE provides PSPS notifications through various communication channels
  - SCE Account Holders (email, text, and voice call)
  - Address Level Alerts
  - Sign up to stay informed before, during and after a PSPS event

**SCE Outage Map**
- Consolidated outage map that incorporates PSPS outages
SCE CUSTOMER PROGRAMS & RESOURCES

CUSTOMER RESOURCE CENTERS & COMMUNITY CREW VEHICLES

- Services offered: information, charging of mobile devices, assistive technology/medical devices, PSPS outage alert enrollment support, access to water, light snacks, ice and ice vouchers, restrooms, and small insulated bags to keep medication cool

- Translations services for over 120 languages including American Sign Language (ASL)

CUSTOMER PROGRAMS

- Partnered with 211 to help customers with Access and Functional Needs (AFN) develop a resiliency plan and enroll in eligible assistance programs

- 211 provides specialized referrals for customers with AFN experiencing PSPS. Services include connecting customers to shelf-stable food, hot meal delivery, transportation and/or temporary shelter

- SCE will improve communication methods, including videos utilizing ASL for marketing and PSPS notifications

CUSTOMER RESILIENCY EQUIPMENT

- Critical Care Backup Battery program and the In-Event Battery Loan pilot provide eligible customers with a portable backup battery to power assistive technology/medical devices during a PSPS event

- Rebates on portable batteries and generators for customers residing in high fire risk areas on marketplace.sce.com
Website: sce.com/wildfire
Energized by Edison Stories & Videos: edison.com/wildfire-safety

Email: wildfireoutreach@sce.com
Social Media: @SCE on Twitter & Facebook
SCE Customer Support: 1-800-655-4555

LEARN MORE

• Visit our website to learn more about our wildfire safety efforts and Public Safety Power Shutoffs (PSPS)
• Provide feedback through the survey

SIGN UP

• PSPS alerts
• SCE’s Medical Baseline program
• SCE programs and rebates

BE PREPARED

• Be prepared with a safety preparedness plan, some basic supplies and advance planning
• Power outage tips
ADDITIONAL RESOURCES
Wildfire Mitigation Activities

SERVICE AREA

2021 Progress Update

Data as of 9/30/2021

2021 Year-End Progress Report

Data as of 12/31/21

Distribution Equipment Inspections

- 2021 Completed/Target: 179,600/163,000 inspections
- 110% completed
- Completed Since 2018: 764,000+ inspections

Transmission Equipment Inspections

- 2021 Completed/Target: 20,800/16,800 inspections
- 124% completed
- Completed Since 2018: 106,900+ inspections

Insulated Wire (Covered Conductor)

- 2021 Completed/Target: 1,500/1,000 circuit miles installed
- 150% completed
- Completed Since 2018: 2,900+ circuit miles installed

Fast-Acting Fuses

- 2021 Completed/Target: 350/330 fuses installed or replaced
- 106% completed
- Completed Since 2018: 13,300+ fuses installed or replaced

Hazard Tree Management

- 2021 Completed/Target: 131,400/120,000 trees assessed
- 110% completed
- Completed Since 2018: 359,900+ trees assessed

Weather Stations

- 2021 Completed/Target: 400/375 weather stations installed
- 107% completed
- Completed Since 2018: 1,460+ weather stations installed

High-Definition Wildfire Cameras

- Cameras currently provide visibility to about 90% of our high fire risk areas (HFRA) and the planned additional cameras in 2022 and beyond will increase coverage to nearly all of HFRA
- Completed Since 2018: 106 cameras installed

Aerial Fire Suppression Resources

- SCE contributed $18 million to support the creation of a quick reaction force of aerial firefighting assets across counties in SCE’s service area to coordinate and reach wildfires in their early stages. These unique water and fire retardant dropping helicopters have the capability to operate day and night.

Critical Care Backup Battery

- 2021 Completed: 6,000/3,600 batteries provided to eligible customers
- 167% completed
- Completed Since July 2020: 6,740+ batteries provided to eligible customers

Community Resource Centers

- 64 sites available

Community Crew Vehicles

- 8 vehicles available
Wildfire Mitigation Activities
RIVERSIDE COUNTY

2021 Year-End Progress Report
Data as of 12/31/21

SCE tracks wildfire initiative progress by SCE districts and extrapolates to the county level as a reasonable approximation. There may be additional circuit miles of covered conductor installed due to fire restoration work.

<table>
<thead>
<tr>
<th>Completed</th>
<th>2021</th>
<th>SINCE 2018</th>
</tr>
</thead>
<tbody>
<tr>
<td>DISTRIBUTION EQUIPMENT INSPECTIONS</td>
<td>41,701 inspections</td>
<td>150,086 inspections</td>
</tr>
<tr>
<td>TRANSMISSION EQUIPMENT INSPECTIONS</td>
<td>4,043 inspections</td>
<td>18,586 inspections</td>
</tr>
<tr>
<td>COVERED CONDUCTOR</td>
<td>455 circuit miles installed</td>
<td>694 circuit miles installed</td>
</tr>
<tr>
<td>FAST-ACTING FUSES</td>
<td>107 fuses installed or replaced</td>
<td>2,356 fuses installed or replaced</td>
</tr>
<tr>
<td>SECTIONALIZING DEVICES</td>
<td>5 devices installed</td>
<td>45 devices installed</td>
</tr>
<tr>
<td>HAZARD TREE MANAGEMENT</td>
<td>8,675 trees assessed</td>
<td>46,429 trees assessed</td>
</tr>
<tr>
<td>WEATHER STATIONS</td>
<td>95 weather stations installed</td>
<td>304 weather stations installed</td>
</tr>
<tr>
<td>HIGH-DEFINITION WILDFIRE CAMERAS</td>
<td>17 cameras installed</td>
<td></td>
</tr>
<tr>
<td>COMMUNITY RESOURCE CENTERS</td>
<td>5 sites available</td>
<td></td>
</tr>
<tr>
<td>COMMUNITY CREW VEHICLES</td>
<td>8 vehicles available throughout SCE's service area</td>
<td></td>
</tr>
</tbody>
</table>

Map 1. High Fire Risk Areas
- Tier 2 – Elevated Fire Threat
- Tier 3 – Extreme Fire Threat
- SCE Service Area
- County Lines

SCE's service area covers about 65% of Riverside County. About 306,900 customer accounts are served by circuits in high fire risk areas.
Wildfire Mitigation Activities
RIVERSIDE COUNTY

2021 Year-End Progress Report
Data as of 12/31/21

Features depicted herein are intended for informational purposes only. Distances and locations may be distorted and icons may be overlapping at this scale.

Weather Stations:
304 weather stations installed. Visit sce.com/weatherstations for real-time weather data.

HD Wildfire Cameras:
17 high-definition wildfire cameras installed. Visit alertwildfire.org to view the live camera feeds.

Map 2. Situational Awareness
- Weather Stations
- HD Wildfire Cameras
- Tier 2 – Elevated Fire Threat
- Tier 3 – Extreme Fire Threat
- SCE Service Area
- County Lines
HELPFUL INFORMATION & RESOURCES

SCE Wildfire Webpage – sce.com/wildfire

SCE Notifications
• Sign up for PSPS alerts – sce.com/pspsalerts
• Sign up for the Energized by Edison Wildfire Mitigation Newsletter – energized.edison.com/newsletter

Situational Awareness
PSPS maps and information – sce.com/psps
• PSPS decision making – sce.com/pspsdecisionmaking
• Role of weather in PSPS – sce.com/fireweather
• CPUC wildfire maps – ia.cpuc.ca.gov/firemap/
• Wildfire cameras – alertwildfire.org
• Weather stations – sce.com/weatherstations

Preparedness
• SCE emergency preparedness – sce.com/beprepared
• CAL FIRE preparedness – readyforwildfire.org

Vegetation Management
• Vegetation Management – sce.com/safety/power-lines; contact 1-800-655-4555 or safetrees@sce.com

Customer Programs & Rebates
• SCE Customer Programs & Resources – sce.com/customerresources
• SCE Marketplace (rebates and programs) – marketplace.sce.com
• SCE Medical Baseline Program – sce.com/medicalbaseline
• Self Generation Incentive Program (SGIP) – sce.com/sgip or selfgenca.com
• SCE Customer Support: 1-800-655-4555

Community Meetings
• Join SCE’s wildfire safety community meetings – sce.com/wildfiresafetymeetings

Energized by Edison
• Stories and videos on SCE’s wildfire mitigation efforts and PSPS – edison.com/wildfire-safety