Our Commitment to California

Keeping our communities safe from wildfires

Mammoth Lakes, Mono County unincorporated areas, and Inyo County June 16, 2020

#PoweringThruTogether



SCE PRESENTERS



Cal Rossi
Government Relations Manager
Local Public Affairs



Erik Takayesu
Vice President
Transmission, Substations
and Operations



Brian Sprinkle
Manager
Vegetation Management



Mike Marelli
Vice President
Business Customer Division

AGENDA

- Wildfire Preparedness Tips
- SCE's Response to COVID-19
- 2019 Lessons Learned / What's New for 2020
- SCE's Wildfire Mitigation Plan
 - Mitigation Activities in Mammoth Lakes, Mono County unincorporated areas, and Inyo County
- Public Safety Power Shutoffs (PSPS) Outages
- Vegetation Management
- Customer Care Programs and Community Engagement
- Resources
- Q&A



WILDFIRE PREPAREDNESS TIPS



GET READY, GET SET, GO!

Wildfire Is Coming. Are You Ready?

GET PREPARED FOR WILDFIRE BEFORE IT STRIKES BY FOLLOWING THE READY, SET GO! GUIDE:

BEING READY



CREATE DEFENSIBLE SPACE: 100-FEET OF DEFENSIBLE SPACE IS REQUIRED AROUND YOUR HOME. LEARN HOW TO MAINTAIN THE TWO ZONES OF DEFENSIBLE SPACE NEEDED.



HARDEN YOUR HOME: FLYING EMBERS CAN
DESTROY HOMES UP TO A MILE FROM WILDLAND
AREAS. LEARN HOW TO PROTECT AND HARDEN
YOUR HOME FROM A WILDFIRE THREAT.

GETTING SET



PREPARE YOUR HOME AND FAMILY FOR THE POSSIBILITY OF HAVING TO EVACUATE.



4. WHE

CREATE A
WILDFIRE
ACTION PLAN.



ASSEMBLE AN EMERGENCY SUPPLY KIT.



FILL OUT A FAMILY COMMUNICATION PLAN.

BEING READY TO GO



PRE-EVACUATION STEPS: PREPARE BOTH THE INSIDE AND OUTSIDE OF YOUR HOUSE FOR EVACUATION. GET THE CHECKLISTS.



REVIEW YOUR EVACUATION PLAN CHECKLIST. **GO!**

EVACUATION STEPS: WHEN IMMEDIATE EVACUATION IS NECESSARY, GET READY TO GO!



ENSURE YOUR EMERGENCY SUPPLY KIT IS IN YOUR VEHICLE.



COVER-UP TO PROTECT AGAINST HEAT AND FLYING EMBERS. WEAR LONG PANTS, LONG SLEEVE SHIRT, HEAVY SHOES/BOOTS, CAP, DRY BANDANNA TO COVER FACE, GOGGLES OR GLASSES. 100% COTTON IS PREFERABLE.



LOCATE YOUR PETS AND TAKE THEM WITH YOU.





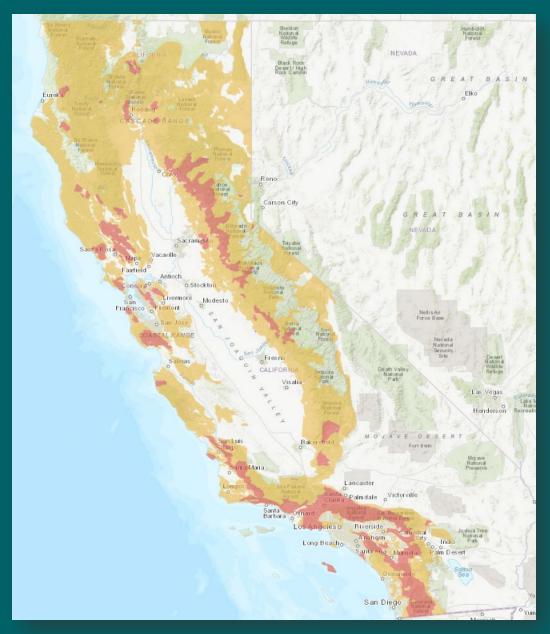
FOR MORE INFORMATION VISIT:

READYFORWILDFIRE.ORG

#READYFORWILDFIRE

OUR RESPONSE TO THE COVID-19 OUTBREAK

- Continuing to deliver safe and reliable service to our communities
- Safety of our workforce, our customers and the public remain our top priority
- Prioritizing critical work necessary to protect our communities and public safety
- Enhancing programs to ensure customers continue receiving benefits (Medical Baseline and CARE), suspending service disconnections for nonpayment, and waiving late fees
- Supporting the communities we serve by donating more than \$1 million to local nonprofits responding to the pandemic. (Edison International's charitable causes are funded entirely by shareholders and not customers.)
- For more information, visit sce.com/covid19



California's wildfire problem is serious and worsening.

- Ten of the 20 state's most destructive wildfires have happened since 2015
- About a quarter of our service area is located in high fire risk areas

What We Learned / What's New for 2020

Public Safety Power Shutoffs (PSPS)

- Recognize the impact of PSPS events on customers but they are necessary to protect public safety
- Found multiple instances of equipment damage and tree branches contacting power lines that could have ignited a fire after a PSPS event

Wildfire Mitigation Tools

- Implementing grid hardening activities and hi-tech tools and technologies
- Improving our ability to sectionalize to reduce the number of people impacted

Customer Care Programs and Communications

- Actively pursuing new programs to help customers
- Improving website and communications capabilities to provide additional, timely information and notifications

Stakeholder Engagement

- Enhancing communication and collaboration with stakeholders and partners
- Partnering with community-based organizations to better assist vulnerable customers



MITIGATION STRATEGY BASED ON FIRE SCIENCE

Eliminating any side of the fire triangle can prevent ignitions

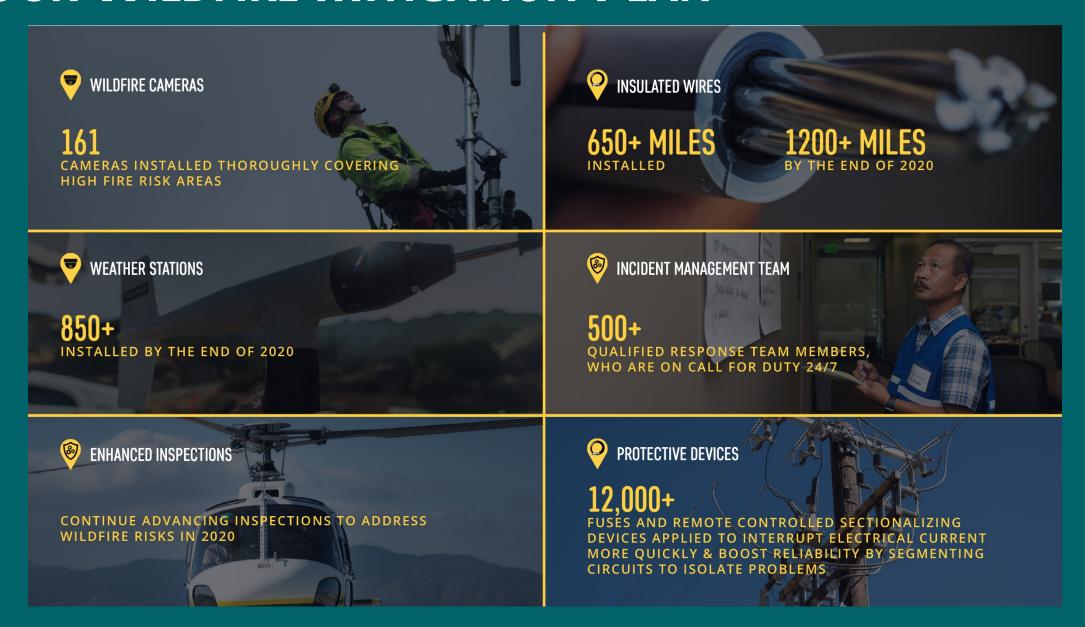
Weather
Conditions
(Wind, Humidity)



Energy from Electrical Infrastructure

Vegetation & Structures

OUR WILDFIRE MITIGATION PLAN







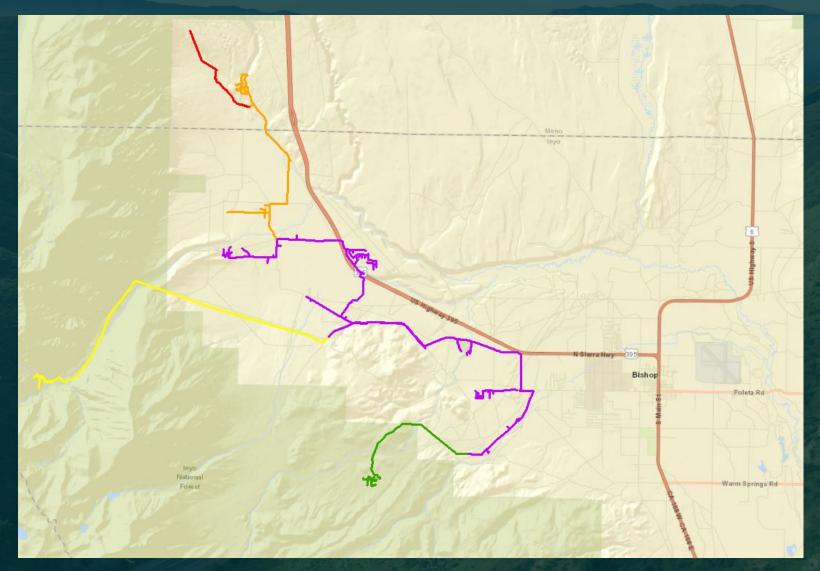
34 MILES INSTALLED BY THE END OF 2022*

Installation of covered conductor (insulated power lines) reduces the risk of a wildfire starting and improves reliability and reduces the potential for Public Safety Power Shutoffs

^{*} Assuming CPUC approval of total 2021 GRC scope and funding and other factors.

ADDITIONAL OPERATIONAL FLEXIBILITY

- SCE developed plans to sectionalize the circuits in the area to reduce the number of customers de-energized
- By adding additional weather stations and further dividing our grid into sections, we can reduce the number of customers deenergized (depending on weather and other conditions)



WHAT DOES THIS MEAN FOR THE AREA?

- If the weather conditions were to be the same as last year in this area, we would expect to see a 20-50% reduction in the number of customers deenergized due to SCE's circuit improvements
- As more grid hardening including covered conductor is installed, these improvements will continue to increase
- Wind is not the only factor in making the decision to de-energize
 - Environmental influences such as dry vegetation and circuit conditions still factor into this decision and can modify the de-energization wind speeds
- We have also ramped up customer care programs to reduce the impacts of potential Public Safety Power Shutoffs



Public Safety Power Shutoff

- De-energizing power lines to prevent ignitions
- Used during elevated fire conditions
- Primarily impacts circuits in high fire risk areas
- Use of multiple methods to notify people in affected areas before, during and after a de-energization event



PSPS DECISION POINTS

Decision points include, but are not limited to:



- NWS Red Flag Warnings
- 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 TIMELINE

4-7 DAYS SCE begins planning for potential PSPS **AHEAD** 3 DAYS **SCE Incident Management Team activated** Initial notifications to Local and Tribal Governments, Emergency Officials and **AHEAD** First Responders. Critical Infrastructure and Service Providers (Alert) 2 DAYS **Updates to notifications AHEAD** Initial notifications to customers not notified at 3 days ahead (Alert) 1 DAY **Update notification sent AHEAD (Alert)** 1-4 HOURS **BEFORE Imminent Shutdown notification SHUTDOWN** (Warning)

POWER SHUTOFF (Statement)

3rd Notification Power Shutoff

PREPARING FOR RE-ENERGIZATION (Statement)

Notification Before Re-Energization Occurs

POWER RESTORATION

Notification Power Restored After Inspection

PLANNING AND MONITORING

OUTAGE

SCE will target the schedule above to notify customers. Sudden onset of hazardous conditions that jeopardize public safety may impact SCE's ability to provide advanced notice to customers. Notifications can be provided via email, text, voice call, and TTY formats; zip code-level alerts; and NextDoor.



VEGETATION MANAGEMENT

We inspect about 900,000 trees across our service area every year to determine if they could pose a hazard by making contact with our power lines.

WE CONTINUE TO REMOVE DEAD, DYING, DISEASED TREES IN HIGH RISK AREAS. In high fire risk areas, a minimum 12-foot clearance is created between trees and our power lines to prevent vegetation from coming into contact with electrical equipment.

Trees up to 200 feet from wires are removed if they demonstrate a high risk of falling into the lines or have vegetation, like palm fronds, that high winds could carry long distances into power equipment.

Overview of SCE Vegetation Management Programs

Compliance

Historical annual schedule, routine maintenance trimming

LiDAR

Remote sensing inspection tool used since 2018 to ensure conductor to tree clearances under maximum sway and maximum sag conditions, while supporting TVMP, DRI/BB, HTMP along Transmission ROWs

Drought Relief Initiative (DRI) "Dead Trees" Quarterly to Bi-annual inspections in Tier 2 and Tier 3 HFRA for tree mortality to identify and remove dead, dying, or diseased trees affected by drought conditions depending on weather conditions and access

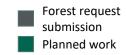
Hazard Tree Mitigation Program (HTMP) "Green Trees"

Assessing the structural condition of trees in HFRA that are not dead or dying but could nevertheless fall into or otherwise impact electrical facilities and potentially lead to ignitions and outages

Pole Clearance

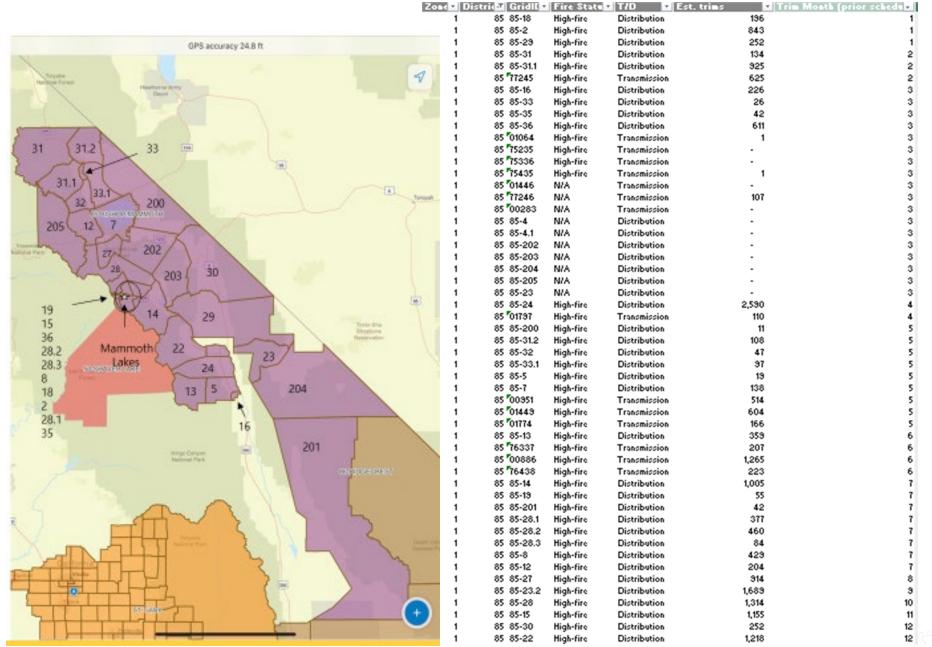
In order to lower the risk of wildfires and remain in compliance, SCE needs to maintain a 10-foot radial clearance firebreak around *all* distribution poles located in high-fire areas

D85 assessment and mitigation schedule





2020 Routine/Compliance Grid Schedule & Map





ENHANCEMENTS TO COMMUNICATIONS

Website Improvements

- Dedicated PSPS page
- Fire Weather and PSPS information
- Increased capacity to handle website visits
- Improved maps
 - Look up PSPS events and status by address
 - Maps showing locations of Community Resource Centers and Community Crew Vehicles
 - Providing estimated restoration times

Notifications

- Zip code PSPS notifications
- Expanded use of social media (e.g. Nextdoor)
- Area-based public alerts on mobile phones (July 2020)
- Imminent notifications when possible

CUSTOMER CARE PROGRAMS

Local Community Resources

- Community Crew Vehicles (CCV) and Community Resource Centers (CRC)
 - May include water (including bulk potable water), ice, blankets, solar powered USB chargers, onsite phone charging, outage information, and other resources
 - CRC location at the Sears Hometown Store in Bishop; working on CRC locations in Mono County

Rebates & Programs

- Self-Generation Incentive Program (SGIP)
 - Rebates for whole home energy storage
- \$50 rebate for small appliance & device battery backup
- \$300-\$500 generator rebate for well water dependent customers
- Fully subsidized Critical Care customer battery back-up (income qualified)
- Working with community leaders to identify locations for Resiliency Zones.

TALKING WITH OUR COMMUNITIES

- On-going community meetings held in high fire risk areas
- Meetings with cities, counties and tribal governments
- Outreach to essential service providers
- Advertising campaign in market educating customers about preparing for power shutoffs
- Letters communicating potential power shutoffs planned for all customers in service territory

REACHING VULNERABLE COMMUNITIES

- Engaging with our most vulnerable customers
- Partnering with community-based organizations and community stakeholders such as Independent Living Centers and 211 service providers
- Supporting resiliency, working with existing philanthropic partners and deploying customer programs for PSPS preparedness, all-hazard awareness and emergency planning
- Encouraging customers to sign up for medical baseline and critical care programs



Website: sce.com/wildfire

Email: wildfireoutreach@sce.com

Social Media: @SCE on Twitter & Facebook

SCE Customer Support: 1-800-655-4555

GIVE FEEDBACK



- Provide us your feedback through the email survey or our website
- Presentation and meeting recording available

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



USEFUL INFORMATION

SCE Wildfire Web Page – sce.com/wildfire

SCE Notifications

Sign up for PSPS alerts – <u>sce.com/pspsalerts</u>

Situational Awareness

- PSPS maps and information sce.com/psps
- Role of weather in PSPS <u>sce.com/fireweather</u>
- CPUC wildfire maps <u>cpuc.ca.gov/wildfiresinfo</u>
- Fire cameras <u>alertwildfire.org</u>

Preparedness

- SCE outage tips <u>sce.com/outagetips</u>
- SCE emergency preparedness <u>sce.com/beprepared</u>
- SCE Medical Baseline Program <u>sce.com/medicalbaseline</u>
- CAL FIRE fire preparedness <u>readyforwildfire.org</u>
- Red Cross emergency preparedness redcross.org/prepare
- FEMA emergency preparedness <u>ready.gov</u>

Vegetation Management

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

Rebates

- SCE Marketplace (rebates and programs) marketplace.sce.com
- Self Generation Incentive Program (SGIP) sce.com/sgip or selfgenca.com

Social Media

Follow @SCE on Twitter and Facebook

SCE COVID-19 CUSTOMER CARE PROGRAMS

www.sce.com/covid19

Resource	Description	Link
Energy Assistance Fund (EAF)	Income-qualified customers experiencing COVID- 19 financial hardship due to quarantine, illness, caring for loved ones or business closures can apply for assistance to pay their electric bill.	sce.com/eaf
California Alternate Rates for Energy (CARE) or Family Electric Rate Assistance (FERA) Programs	The CARE program provides income-qualified households a discount of about 30% on monthly electric bills. FERA provides a reduced monthly discount of 18% for income-qualified households of three or more.	sce.com/fera
Medical Baseline	Customers who use electrically operated medical devices in their homes are eligible and those enrolled will receive additional electricity per day at a discounted rate.	sce.com/medicalbaseline
Suspension of service disconnections for nonpayment, waiving late fees	SCE has suspended service disconnections for nonpayment and is waiving late fees for residential and business customers impacted by the COVID-19 emergency.	sce.com/billhelp
Rate Plan Comparison Tool	SCE offers several Time-of-Use rates that offer lower rates during daytime hours when people are now home.	sce.com/rateplantool
Budget Assistant	You can also sign up for alerts if your next projected bill is expected to exceed your spending goal using SCE's free Budget Assistant tool.	sce.com/budgetassistant

POWER OUTAGE SAFETY TIPS

- If you see a downed power line, do not touch it or anything in contact with it. Call 911 immediately.
- Power outages in the area may impact traffic signals so motorists should use extreme caution and treat all intersections as four-way-stops.
- Remember to check emergency supplies to be sure you have a battery-operated radio, a flashlight and fresh batteries.
- Use flashlights instead of candles to avoid fire hazards in your home or business.
- Consider using LED light bulbs with a battery backup, which can stay on during outages.
- If you're in a vehicle with a fallen power line on it, stay in the vehicle and remain calm until help arrives. It is OK to use your cellphone to call 911. If you must leave the vehicle, remember to exit away from downed power lines and exit by jumping from the vehicle and landing with both feet together. You must not touch the vehicle and the ground at the same time. Then proceed away from the vehicle by shuffling and not picking up your feet until you are several yards away.
- If you use a generator, place it outdoors and plug individual appliances directly into it, using a heavy-duty extension cord. Connecting generators directly to household circuits creates "backfeed," which is dangerous to repair crews. Please consult the manufacturer's manual for operating the generator.
- If someone in your home is dependent on electric-powered, life-sustaining medical equipment, have an emergency plan that includes a
 back-up power source, or make arrangements to relocate.
- Do not use outdoor cooking equipment to cook indoors. Such equipment can release carbon monoxide and other toxic gases.
- Use stairs instead of an elevator. Elevators are powered by electricity and may stop functioning during an outage. Be safe by taking the stairs and use a flashlight when necessary.
- For more information, visit sce.com/outagetips

HOME GENERATOR TIPS

Using a backup source of power can keep you up and running during an outage, but generators can be dangerous if connected or used improperly. Consult an electrician before you bring a generator home to determine the proper equipment and set you up safely.

- 1. Equipment Options: Choose a generator for more power than you think you will need, depending on what lighting, appliances, and equipment you plan to connect to the generator. Again, this is best determined by an electrician.
- **2. Safety Hazards:** Every year people die in portable generator-related incidents. The primary hazards to avoid when using a generator are carbon monoxide (CO) poisoning, electric shock, electrocution and fire. Follow the directions supplied with the generator.
- **3. Getting Hooked up:** Connect electrical equipment to a portable generator using a heavy duty, outdoor extension cord that is rated more than the sum of the connected appliance loads. Make sure the entire cord has no cuts or tears and that the plug has all three prongs, especially a grounding pin. Do not run portable generators indoors, and don't connect a portable generator to your home's electrical wiring or electrical panel as this can lead to serious injury or electrocution.
- **4. Beware of Backfeeding:** Never try to power the house wiring by plugging a generator into a wall outlet, otherwise known as "backfeeding". This is extremely dangerous and can electrocute utility workers and even neighbors. Electrocution is the fifth leading cause of all reported occupational deaths.
- 5. Connect with an Electrician: If you decide to wire a generator directly to your home, California state law mandates that you notify Southern California Edison. The only recommended method to connect a generator to house wiring is by having a qualified electrician install a power transfer switch, in compliance with national, state and local electrical codes. Find a licensed electrician to see if you can install the appropriate equipment.
- **6. Portable vs. Permanent:** Even a properly connected portable generator can become overloaded, become overheated and stress the generator components, which can lead to generator failure. For power outages, permanently installed, stationary generators are better suited for providing backup power to a home or business.

For more information, see the <u>Understanding Backup Generation fact sheet</u>.