**Community Wildfire Safety Program** SAN LUIS OBISPO COUNTY FIRE CHIEFS ASSOCIATION

**August 2020** 



# **Community Wildfire Safety Program**







### **REDUCE WILDFIRE IGNITION POTENTIAL**

- Asset inspection and repair
- Enhanced vegetation management
- System automation
- System hardening
- Public Safety Power Shutoffs

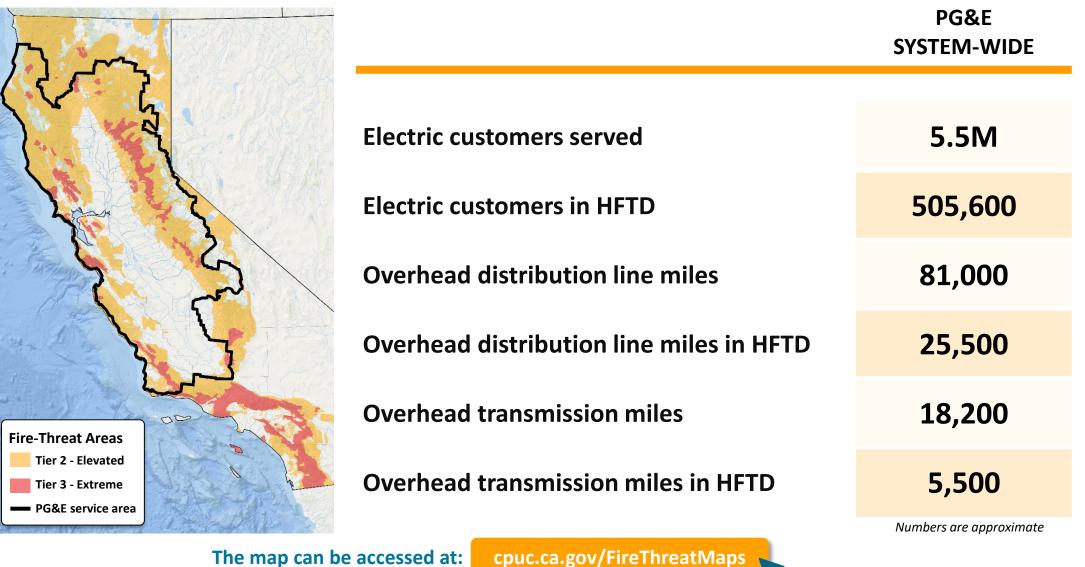
### **IMPROVE SITUATIONAL AWARENESS**

- Weather stations
- High-definition cameras
- Wildfire Safety Operations Center (WSOC)
- Meteorology

### **REDUCE IMPACT OF PSPS EVENTS**

- Reduce number of affected customers
- Reduce length
- Improve coordination with and support communities and customers

# Wildfire Risks Across PG&E's Service Area

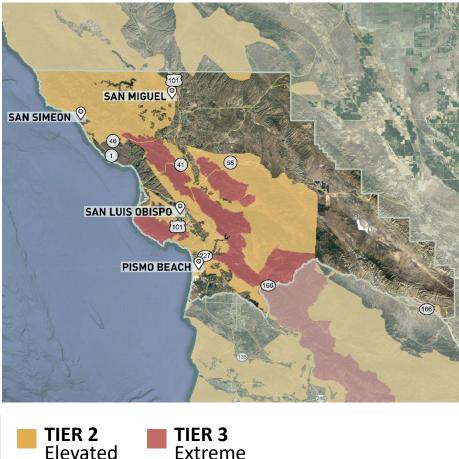


The map can be accessed at:

Some of the measures included in this presentation are contemplated as additional precautionary measures intended to further reduce the risk of wildfires.

### **CPUC High Fire-Threat District Map** San Luis Obispo County

PR





**3,170** total overhead distribution miles **1,010** in Tier 2 | **288** in Tier 3 | **41%** in HFTD



749 total overhead transmission miles 314 in Tier 2 | 119 in Tier 3 | 58% in HFTD



.5 total substations



WILDFIRE SAFETY AND CUSTOMER SUPPORT PROGRAM EFFORTS	COMPLETE	OTARGET
Weather Stations	<b>35</b>	8+
Enhancing weather forecasting and modeling	STATIONS	IN PROGRESS*
High-Definition Cameras	<b>1</b>	6+
Improving real-time monitoring of high-risk areas and conditions	CAMERA	IN PROGRESS*
Sectionalizing Devices	<b>18</b>	<b>30</b>
Separating the grid into small sections for operational flexibility	DEVICES	DEVICES
Enhanced Vegetation Management	<b>91</b>	58
Inspecting, pruning and removing vegetation	LINE MILES	LINE MILES

\*Locations identified on a monthly basis

PreF

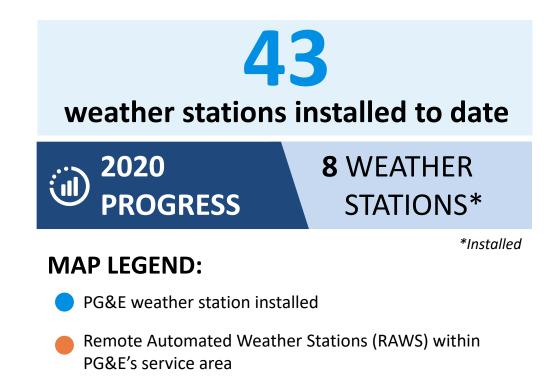
All data is preliminary and based on early 2020 work planning. Data as of July 2020. Some of the measures included in this presentation are contemplated as additional precautionary measures intended to further reduce the risk of wildfires.

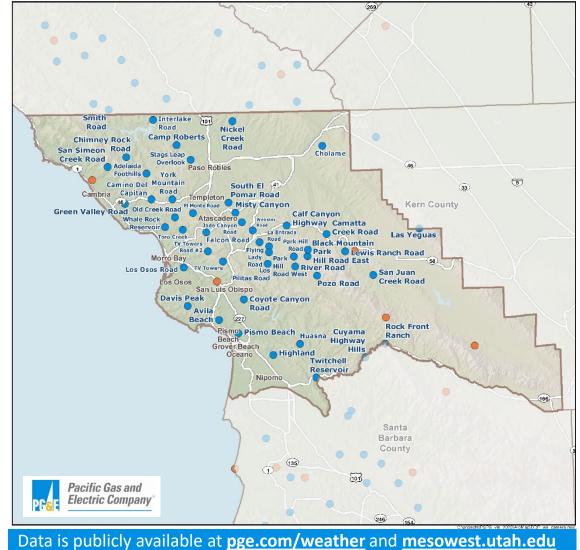




We're using better weather monitoring technology and installing new weather stations to more precisely forecast weather that could lead to PSPS events.

We're targeting about **one station every 20 miles of electric lines** in high fire-threat areas by 2021.





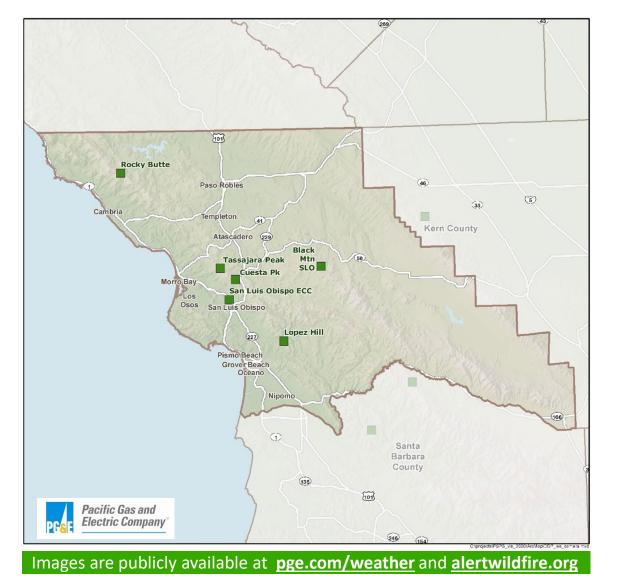
All data is preliminary and based on early 2020 work planning. Data as of July 2020.

Some of the measures included in this presentation are contemplated as additional precautionary measures intended to further reduce the risk of wildfires.

We're supporting the installation of new highdefinition cameras in high fire-threat areas, which allows PG&E and first responders to monitor wildfires in real time.

This will **increase our coverage to more than 90%** of our service area by 2022.





All data is preliminary and based on early 2020 work planning. Data as of July 2020.

Some of the measures included in this presentation are contemplated as additional precautionary measures intended to further reduce the risk of wildfires.

# **System Hardening And Resiliency**

As part of our efforts to prevent wildfires, we are strengthening the electric system to further reduce wildfire risk and better withstand severe weather.

These improvements will occur **over several years across 7,100 miles of distribution lines in the highest risk fire-threat areas**, and include:

- Installing stronger and more resilient poles
- Replacing bare conductor
- Installing more poles than required
- No longer using trees to support infrastructure
- Adding down guys and anchors
- Placing lines underground



# Sectionalizing The Electric Grid – San Luis Obispo County

We're installing new sectionalizing devices to reduce the number of customers affected during a PSPS event.

2020 TARGET30 DEVICES2020 PROGRESS29 DEVICES\*

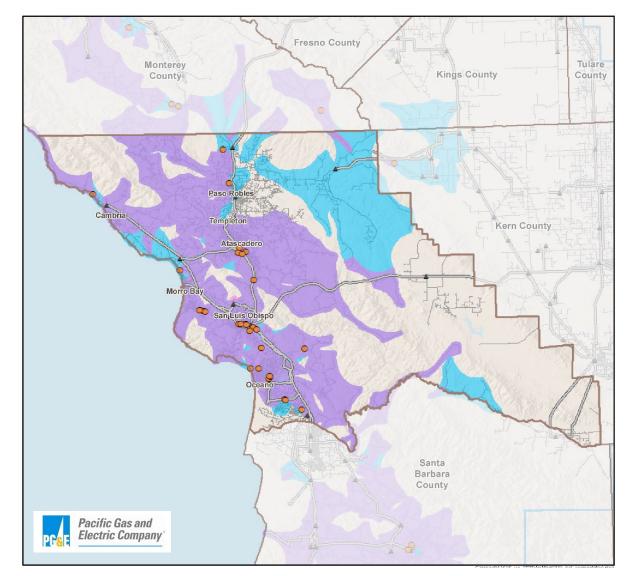
\*Installed

### **MAP LEGEND:**

PRSF

- Distribution sectionalizing device planned
- Area potentially removed from scope due to planned sectionalizing (distribution level event only)
- New area now in scope
- No change from 2019
- ▲ PG&E Substation

**Note:** Map reflects projects in planning and/or underway and is subject to change



# **Enhanced Vegetation Management Work In Your Community**

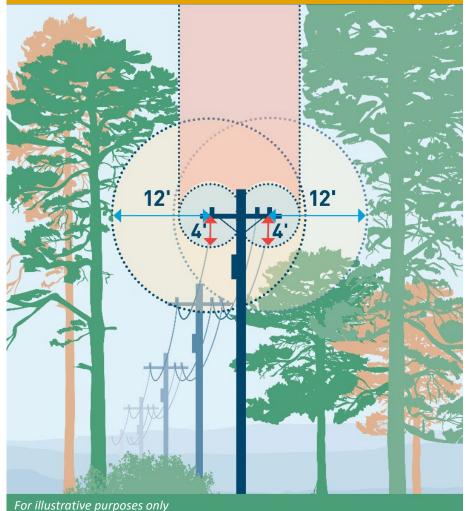
We are exceeding state vegetation and fire safety standards by addressing vegetation that poses a higher potential for wildfire risk to maximize the safety of our customers and communities.



Our **enhanced vegetation management** work includes:

- Exceeding state standards for minimum clearances around power lines, including trimming overhanging limbs and branches above power lines.
- Conducting additional inspections, beyond routine patrols, to remove hazardous vegetation such as dead, diseased, dying or defective trees that could harm power lines or equipment.

#### **Enhanced Vegetation Management**



#### **Overview**



The purpose of a PSPS is to reduce the risk of major wildfires during severe weather.



High winds can cause tree branches or debris to contact energized electric lines, which could damage our equipment and cause a major wildfire, making **a PSPS** event an important tool for keeping our customers and communities safe.



We **carefully review a combination of criteria** when determining if power should be turned off for safety.



We are working to improve our PSPS program by making events, **smaller in size**, **shorter in length and smarter for our customers**, without compromising safety.



**Reduce the number of customers affected** by a PSPS event by one-third compared to last year



**Restore customers twice as fast** after severe weather has passed



# **SMARTER** FOR CUSTOMERS

Provide better information and additional resources

Provide **more assistance** before, during and after a PSPS event



### **GOAL:**

Reduce the number of customers affected by a PSPS event by one-third compared to last year

### WHAT WE'RE DOING:

- Installing devices that limit the size of outages
- Installing microgrids
- Placing lines underground in targeted locations
- Using better weather monitoring technology and installing new weather stations



## **GOAL:**

## **Restore customers twice**

as fast after severe weather has passed

### WHAT WE'RE DOING:

- Deploying more PG&E and contractor crews for inspection and restoration efforts
- Expanding helicopter fleet from 35 to 65 and using two new airplanes for aerial line inspections
- Utilizing infrared equipment to inspect at night



# **GOALS:**

# **Provide better information** and additional resources

### - AND -

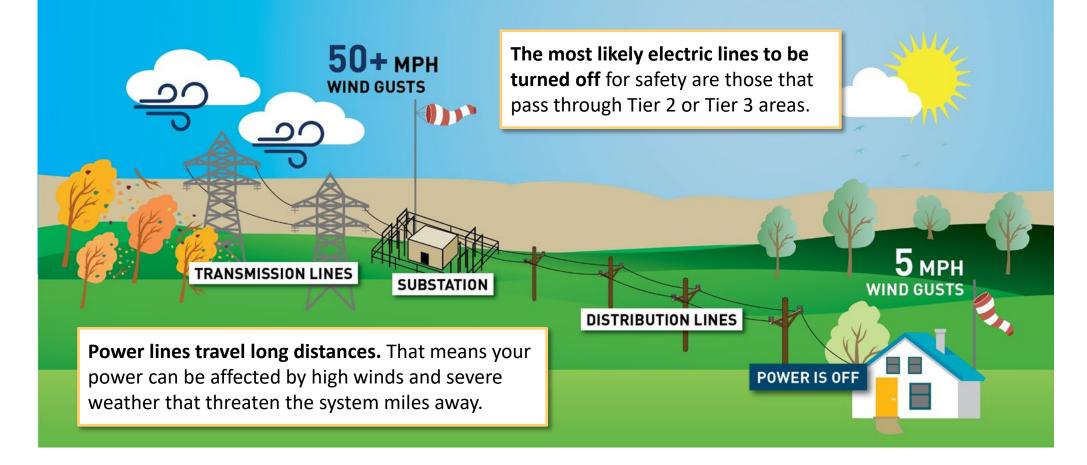
# **Provide more assistance** before, during and after a PSPS event

### WHAT WE'RE DOING:

- Improving PG&E's website bandwidth
- Improving customers notifications
- Opening Community Resource Centers
- Working more collaboratively with local agencies and critical service providers
- Working with the California Foundation for Independent Living Centers (CFILC) and community-based organizations (CBOs)
- Making it easier for eligible customers to join and stay on the Medical Baseline Program
- Providing emergency information in 13
  languages

# What Is A Public Safety Power Shutoff?

High winds can cause tree branches or debris to contact energized electric lines, which could damage our equipment and cause a major wildfire. We may need to turn off power during severe weather to prevent such fires. This is called a Public Safety Power Shutoff (PSPS).



As each weather situation is unique, we carefully review a combination of factors when deciding if power must be turned off. Some factors include:



**LOW HUMIDITY LEVELS** generally 20% and below



FORECASTED WINDS above 25 mph and gusts above 45 mph



**CONDITION OF DRY MATERIAL** 

on the ground and live vegetation (e.g., moisture content)

A RED FLAG WARNING declared by the National Weather Service

ON-THE-GROUND, REAL TIME OBSERVATIONS

# **Advance PSPS Notifications For Customers**

We provide advance notice prior to turning off power and updates until power is restored. This year, notifications will include more details about when it's anticipated that the power will be shut off and restored.

#### **Timing of Notifications** (when possible) 2 days Just before 1 day During Once before power is before power is the PSPS event power has been restored power is turned off turned off turned off **PG&E ACCOUNT ZIP CODE** MEDIA AND **BUSINESSES AND** 88 ... HOLDERS **MASTER METER ALERTS SOCIAL MEDIA** We will send customers Non-PG&E account holders can We will keep local news, radio We encourage businesses and notifications through automated receive event notifications by ZIP outlets and social media outlets master meter account holders to Code through automated calls, calls, texts and emails. informed and updated. create a regularly-updated contact texts and emails. roster and share PSPS notifications Updating contact information is with their contacts when they are CALL: 877-9000-PGF encouraged. received. CALL: 866-743-6589 **TEXT: ENROLL to 97633** pge.com/mywildfirealerts pge.com/beprepared pge.com/pspszipcodealerts pge.com/pspsupdates

# Weather Webpage And 7-Day PSPS Forecast

PG&E's dedicated weather webpage offers a 7-day PSPS potential forecast that indicates the potential weather conditions that could necessitate a PSPS.

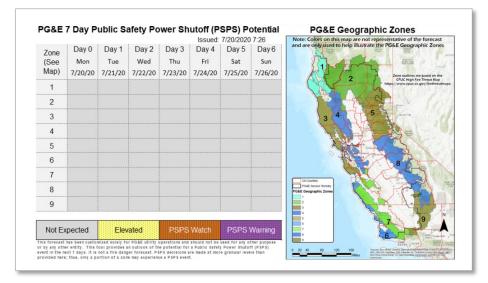
The 7-day PSPS potential forecast is **updated daily** by PG&E's **meteorology team**.

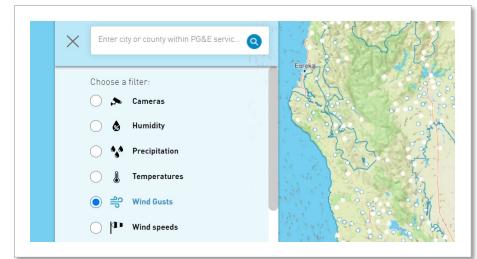
PG&E's weather webpage also offers an **interactive weather map updated in real time** using information from weather stations and cameras throughout PG&E's service territory.



To sign up for daily email notifications regarding PSPS, visit <u>cloud.em.pge.com/PSPS-7day-Signup</u>.

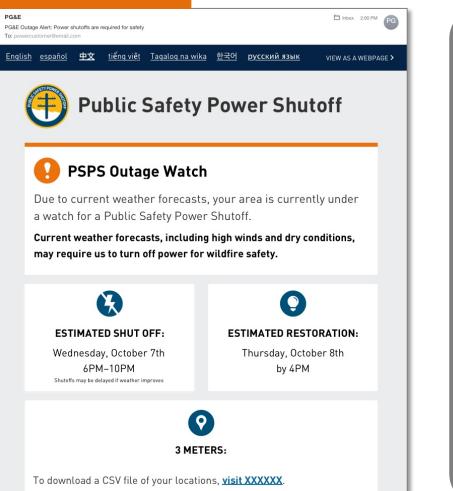
pge.com/weather







#### WATCH EMAIL



#### WATCH TEXT

PG&E PSPS Outage Alert 10/5/20: Due to weather PG&E may turn off power for safety at 1234 EL ANYWHERE COURT on **10/7/20**. Estimated shutoff: **6:00pm – 10:00pm**. Estimated restoration: **10/8/20 by 4:00 pm**. Changes in weather can affect shutoff & restoration times. pge.com/pspsupdates Reply w/ "1" to verify receipt.

#### WATCH PHONE

This is PG&E calling with a PSPS outage alert. On 10/5/20, your power may be shut off for safety. To continue in English press 1. To replay this message at any time, press #.

Due to current weather forecasts 1234 EL ANYWHERE COURT is currently under a Watch for a Public Safety Power Shutoff. Weather forecasts including high winds and dry conditions, may require us to turn off your power to help prevent a wildfire.

ESTIMATED SHUTOFF TIME: 10/7/20 between 6 pm and 10 pm.

Shutoff times may be delayed if winds arrive later than forecast.

We expect weather to improve by 6 am on 10/8/20. After weather has improved, we will inspect equipment before restoring power.

ESTIMATED RESTORATION TIME: 10/8/20 by 4 pm.

This restoration time may change depending on weather conditions and equipment damage.

We recommend all customers have a plan for an extended outage. We will provide daily updates until the weather risk has passed or power has been restored. This will include a Warning alert if we have determined it is necessary to turn off your power. For planning resources or more information visit pge.com/pspsupdates or call 1-800-743-5002.

If you rely on power to operate life-sustaining medical devices or have access and functional needs, additional support may be available. For more information, visit pge.com/specialresources.

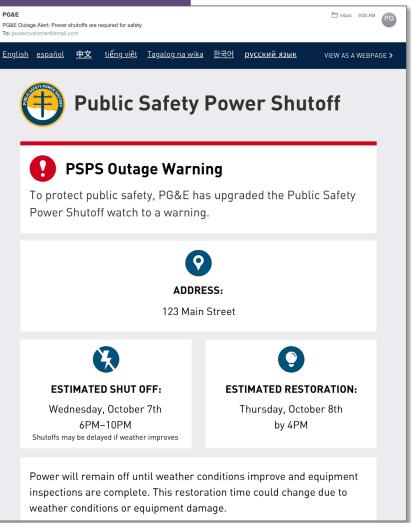
If this is not the correct phone number for 1234 EL ANYWHERE COURT , press 2.

Press # to repeat this message.

Thank you. Goodbye.

# "PSPS Warning" Notifications Scripts – General Customers

#### WARNING EMAIL



#### WARNING TEXT

PG&E PSPS Outage Alert 10/7/20: PG&E will turn off power for safety at 1234 EL ANYWHERE COURT on **10/7/20**. Estimated shutoff: **6:00pm – 10:00pm** or later if weather improves. Estimated restoration: **10/8/20 by 4:00 pm** depending on weather & equipment damage. Info: pge.com/pspsupdates Reply w/ "1" to verify receipt.



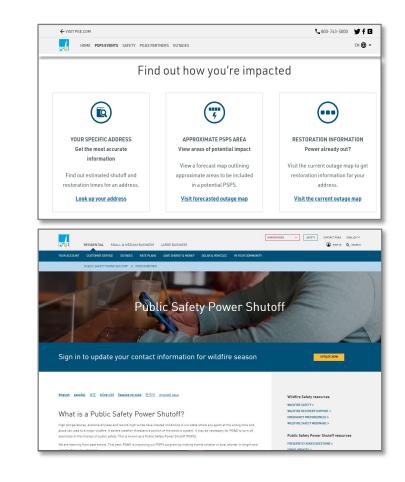
We immediately upgraded our website to serve higher levels of traffic during a PSPS event following the October 2019 PSPS event and website failure.

We are increasing website hosting capability to support even higher web traffic in the future, including:

#### Moving pge.com to the Cloud

Built a **new stand-alone, cloud-based website** specifically for emergencies

- Automatically redirects traffic from pge.com to an alert site when an event is active
- Developing an "all-in-one" map that includes both PSPS planned outages and actual outages
- **Developed lower bandwidth options** to serve smart phone users
- Simpler language and layouts
- Faster upload of information
- Fully multilingual-translated content with ADA accessibility



# **How Is PG&E Improving Restoration Times?**

We expect to be able to restore power to most customers within 12 daylight hours after severe weather has passed – a 50% improvement from 2019.



**Note:** Because severe weather can last several hours or days, for planning purposes, we suggest customers prepare for outages that could last multiple days.

# **CRC Resources and COVID-19 Considerations Overview**

**During a PSPS event, PG&E will open CRCs to provide a safe location where community members can access** basic resources, as well as up-to-date information. The following resources may be available:



**During a PSPS event, CRC locations will be shared** on **pge.com/pspsupdates** and via social media.

# 

PG&E is **adapting our approach to CRCs** to reflect appropriate COVID-19 health considerations and state and county guidelines.

We will offer **Micro CRCs** (smaller, open air tents) and **Mobile CRCs** (vans) to **supplement Indoor CRCs** if shelter-at-home and physical distancing recommendations prevent the use of Indoor CRCs.

We are also taking measures to:



**Require facial coverings** 

Administer temperature checks before entering indoor facilities



**Limit attendance** to maintain physical distancing

Regularly sanitize surfaces

The Safety Action Center contains helpful information about wildfire risks and what customers can do before, during and after an emergency to keep their home, family or business safe.

**Resources on the website** include:

- Tips on how to **create an emergency plan**
- **Emergency preparedness** guides and videos
- $(\checkmark)$ Links to the statewide **Power of Being** Prepared campaign and other resources

The content is **social media-friendly** to encourage sharing and is available in Spanish and Chinese.







Make sure we can reach you in an emergency,

Tips to prepare for a power shutoff.

Emergency planning tips for people who rely on electric or battery dependent medical devices.







Do you have a medical need for electricity?

Prepare an emergency kit with these six easy steps.

Have you considered a backup power option for your home?



safetyactioncenter.pge.com



### STAY UP TO DATE DURING A PSPS EVENT

### pge.com/PSPSupdates



WEATHER AND PSPS FORECASTING

Live weather information, a 7-day PSPS potential lookahead and images from PG&E's high-definition cameras deployed in high fire-threat areas.

#### lr Si

#### **BACKUP POWER**

Information on backup power options, safety tips, financing options, a marketplace to search major backup power retailers and more.

### pge.com/backuppower



#### SAFETY ACTION CENTER

pge.com/weather

Information about wildfire risks and what customers can do before, during and after an emergency to keep their home, family or business safe.

safetyactioncenter.pge.com



#### **PREPARING FOR OUTAGES**

Tips for making a safety plan, building an emergency kit, planning for medical needs and more.

### prepareforpowerdown.com

## **Preparedness Resources**



#### prepareforpowerdown.com

Statewide education and awareness resource, led jointly by PG&E, San Diego Gas & Electric and Southern California Edison at the direction of the CPUC

#### <u>ready.gov</u>

Disaster preparedness information from the U.S. Department of Homeland Security

#### readyforwildfire.org

CAL FIRE's wildfire preparedness website

#### cpuc.ca.gov/wildfiresinfo

Information on the CPUC's wildfire safety efforts

#### caloes.ca.gov

California Governor's Office of Emergency Services website

cafiresafecouncil.org California Fire Safe Council website

#### noaa.gov

National Oceanic and Atmospheric Administration website

# **Thank You**

For more information, please:

- Call us at 1-866-743-6589
- Email us at wildfiresafety@pge.com
- Visit pge.com/wildfiresafety

