

Community Wildfire Safety Program

AVILA VALLEY ADVISORY COUNCIL

August 10, 2020



Safety



We appreciate your participation during this challenging time and hope the following information is helpful in understanding how PG&E is working to reduce wildfire risk.

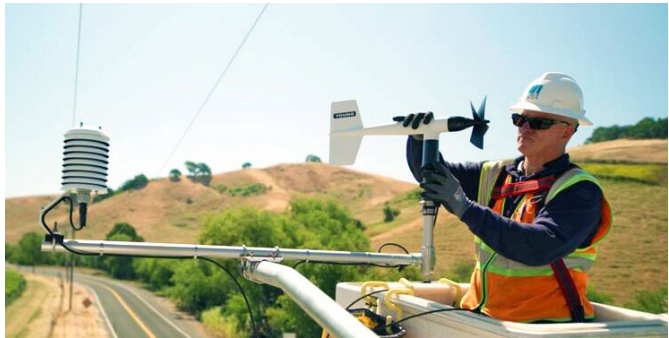


Community Wildfire Safety Program



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

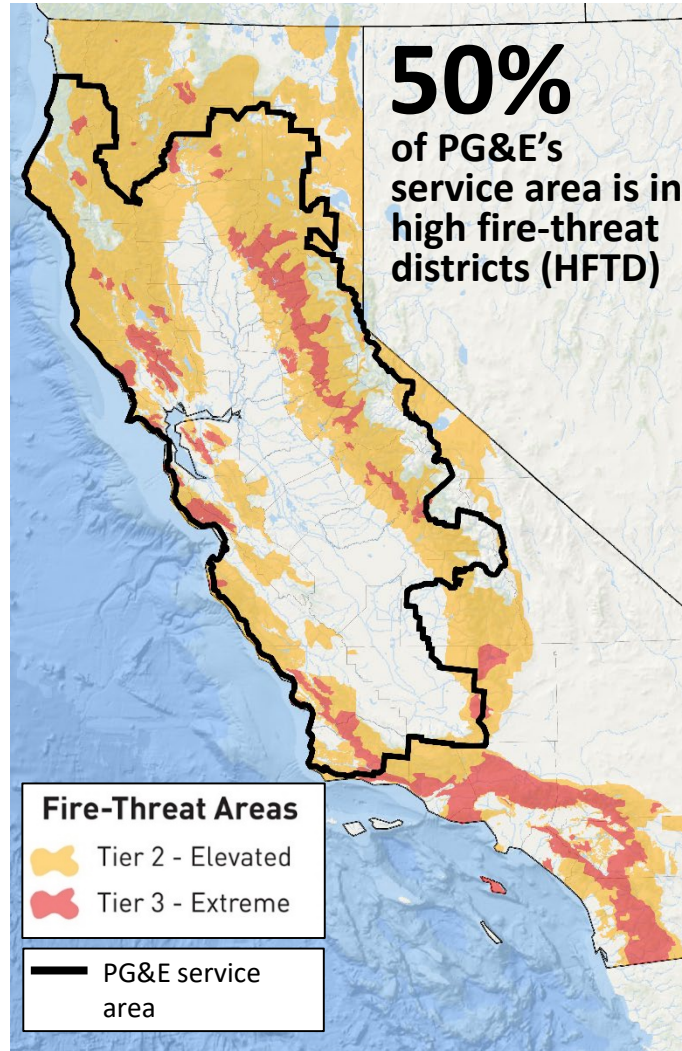


REDUCE IMPACT OF PSPS EVENTS

- Reduce impacted customers
- Reduce length
- Improve coordination with and support communities and customers



Wildfire Risks Across PG&E's Service Area



Source: California Public Utilities Commission

	PG&E SYSTEM-WIDE
Electric customers served	5.5M
Electric customers in HFTD	505,600
Overhead distribution line miles	81,000
Overhead distribution line miles in HFTD	25,500
Overhead transmission miles	18,200
Overhead transmission miles in HFTD	5,500

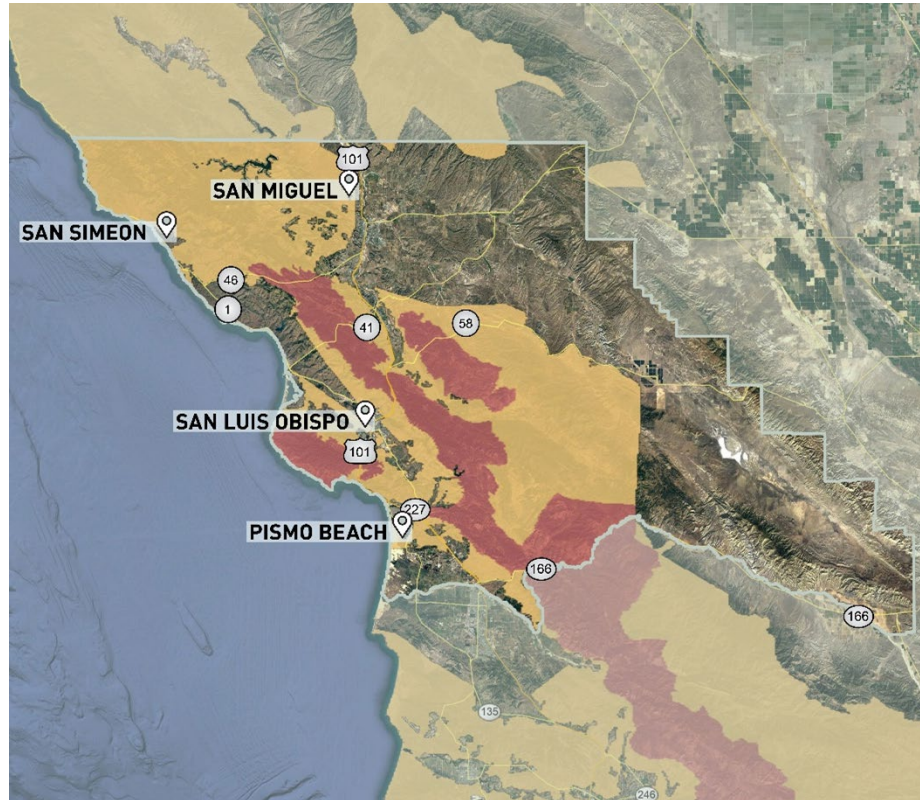
Numbers are approximate

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

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

San Luis Obispo County Overview

CPUC High Fire-Threat District Map San Luis Obispo County



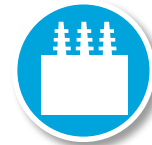
TIER 2
Elevated
 TIER 3
Extreme



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



15 total substations



139,300 total customers served
25,500 (**18%**) Customers in HFTD

CPUC High Fire-Threat District Map – Avila Valley





Wildfire Safety Progress – San Luis Obispo County

WILDFIRE SAFETY AND CUSTOMER SUPPORT PROGRAM EFFORTS	2019 COMPLETE	2020 TARGET
Weather Stations Enhancing weather forecasting and modeling	 35 STATIONS	 7+ IN PROGRESS*
High-Definition Cameras Improving real-time monitoring of high-risk areas and conditions	1 CAMERA	2+ IN PROGRESS*
Sectionalizing Devices Separating the grid into small sections for operational flexibility	18 DEVICES	30 DEVICES
Enhanced Vegetation Management Inspecting, pruning and removing vegetation	91 LINE MILES	58 LINE MILES

*Locations identified on a monthly basis





High-Definition Cameras – San Luis Obispo County

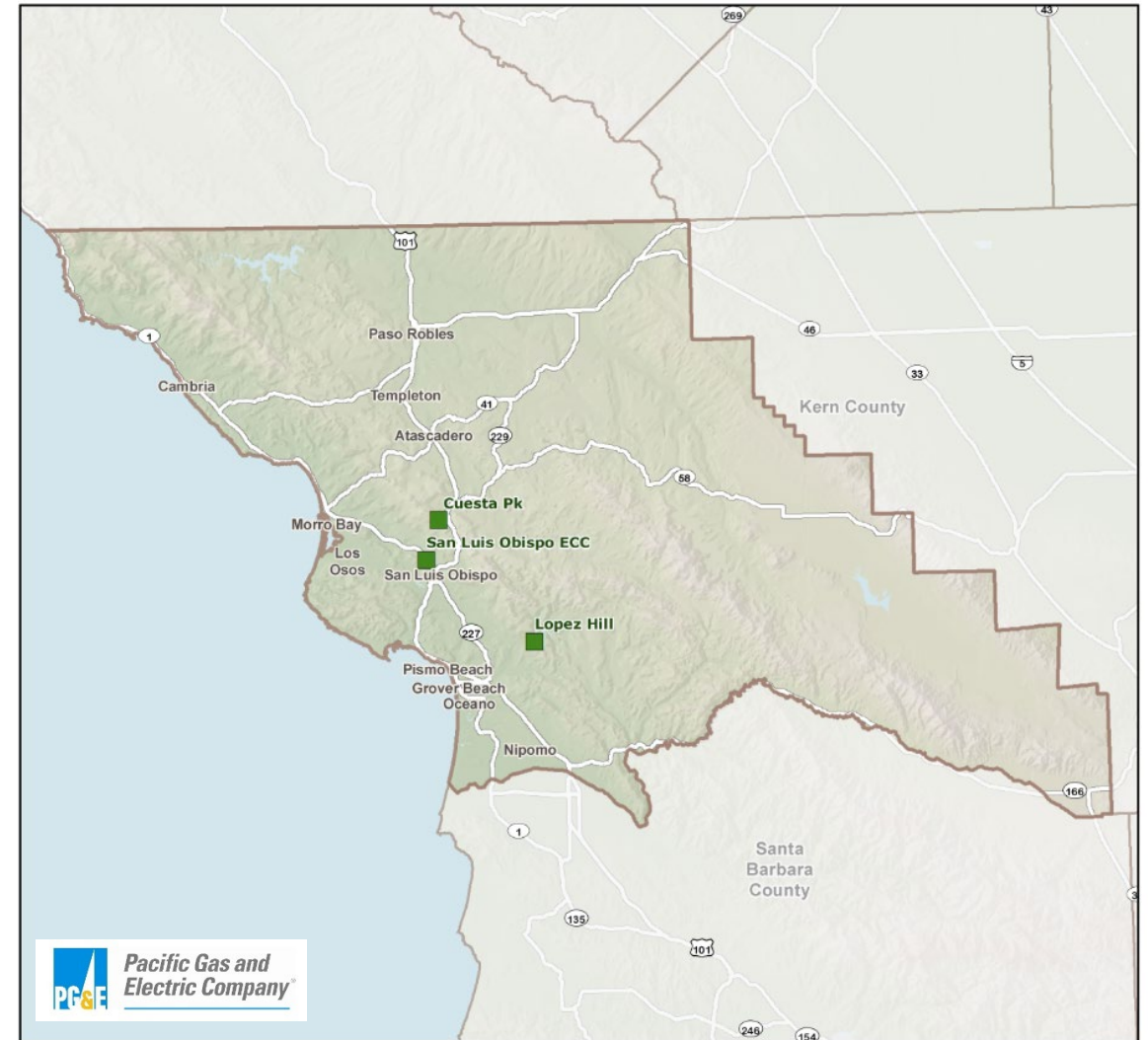
We're supporting the installation of new high-definition cameras in high fire-threat areas, which allows PG&E and first responders to monitor wildfires in real time.

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

3
cameras installed to date

MAP LEGEND:

-  PG&E high-definition camera installed
-  Non-PG&E camera that looks into PG&E's service area



Images are publicly available at pge.com/weather and alertwildfire.org

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

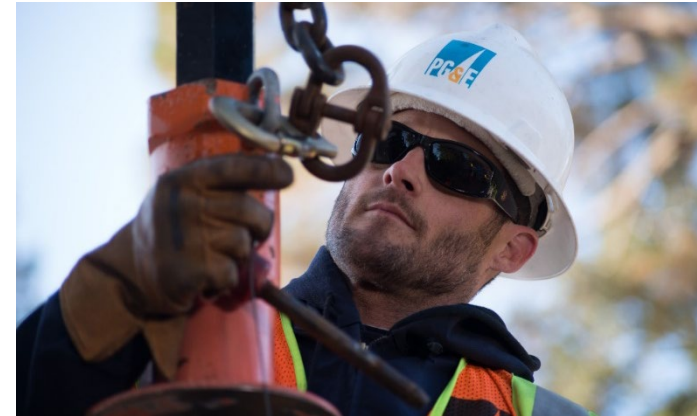
Some of the measures included in this presentation are contemplated as additional precautionary measures intended to further reduce the risk of wildfires.

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 conductors
- Installing more poles than previously needed
- No longer using trees to support infrastructure
- Adding down guys and anchors
- Placing lines underground



Local Sectionalizing – San Luis Obispo County

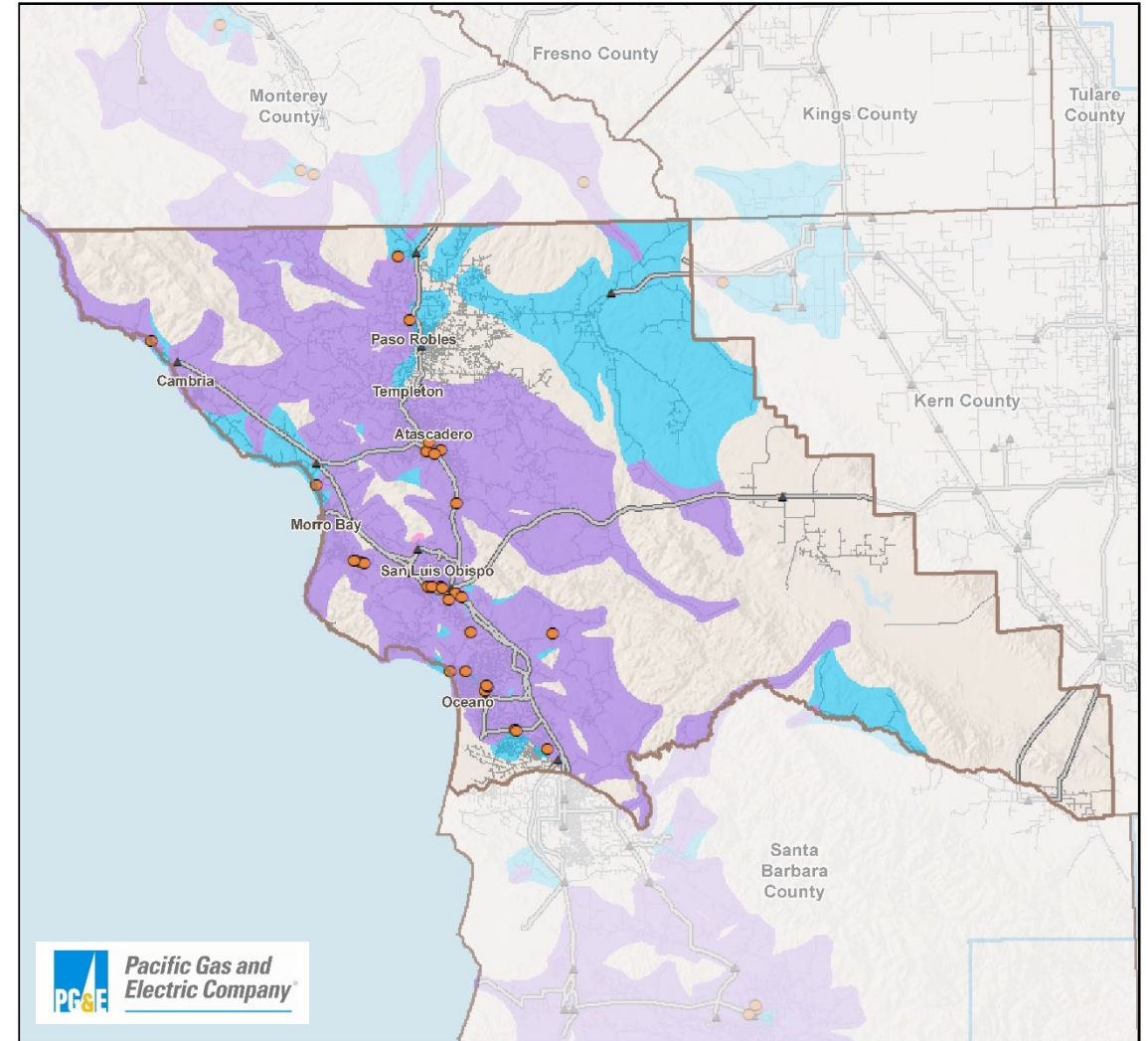
We're installing new sectionalizing devices to limit the number of customers impacted during a PSPS event.

2020 TARGET 30 DEVICES

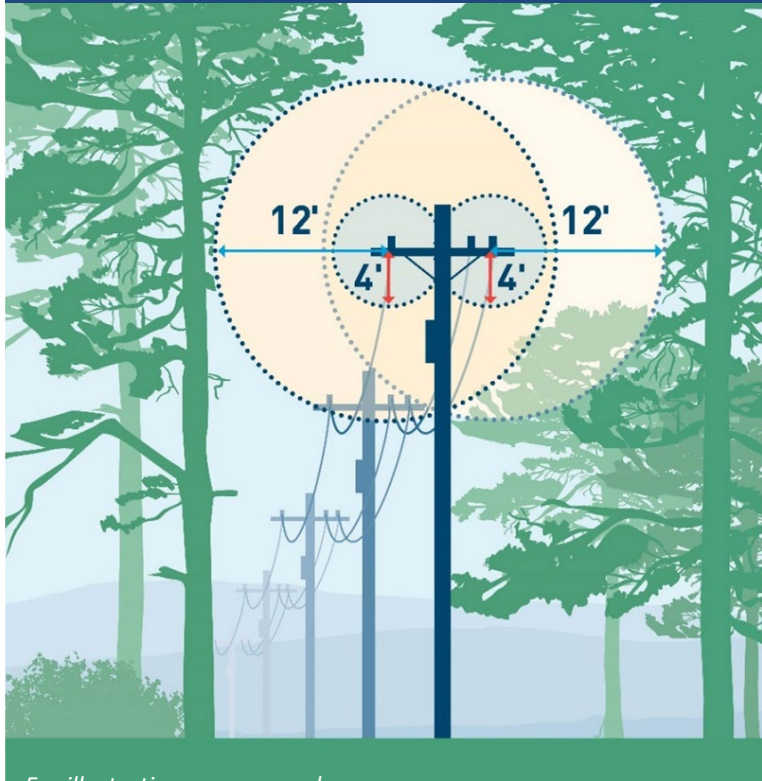
MAP LEGEND:

- Potential 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

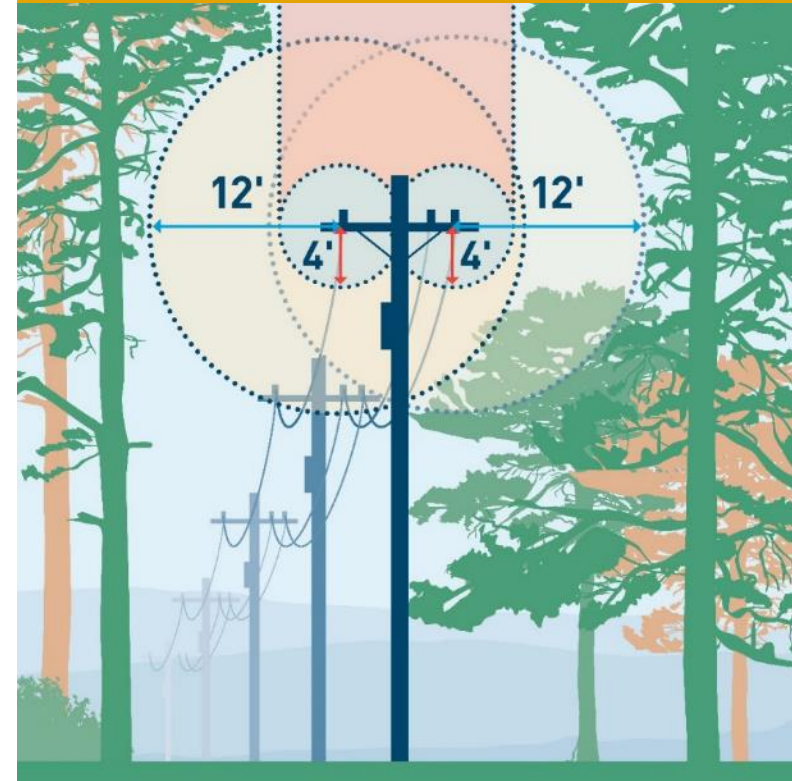


ROUTINE Vegetation Management



Meeting state standards which require maintaining clearances of 4 feet around distribution power lines in high fire-threat areas with recommended minimum clearances of 12 feet at time of trim to ensure year-round compliance.

ENHANCED Vegetation Management



Establishing increased safety clearances between power lines and surrounding vegetation in high fire-threat areas. This also includes removing trees that pose a potential risk to the lines if they are tall enough to strike.

Public Safety Power Shutoff



Overview



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



With more than **half of the area where our customers live and work now at high risk for wildfires**, a PSPS is 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.



In 2020, our work is focused on improving our PSPS program by making events, **smaller in size, shorter in length and smarter for our customers**, without compromising safety.

How Are We Improving For This Year?



SMALLER IN SIZE

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



SHORTER IN LENGTH

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



SMALLER IN SIZE

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



SHORTER IN LENGTH

GOAL:

Restore customers twice as fast after severe weather has passed

WHAT WE'RE DOING:

- **Deploying more PG&E crews and contractors** 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



SMARTER FOR CUSTOMERS

GOALS:

Provide better information and additional resources

- AND -

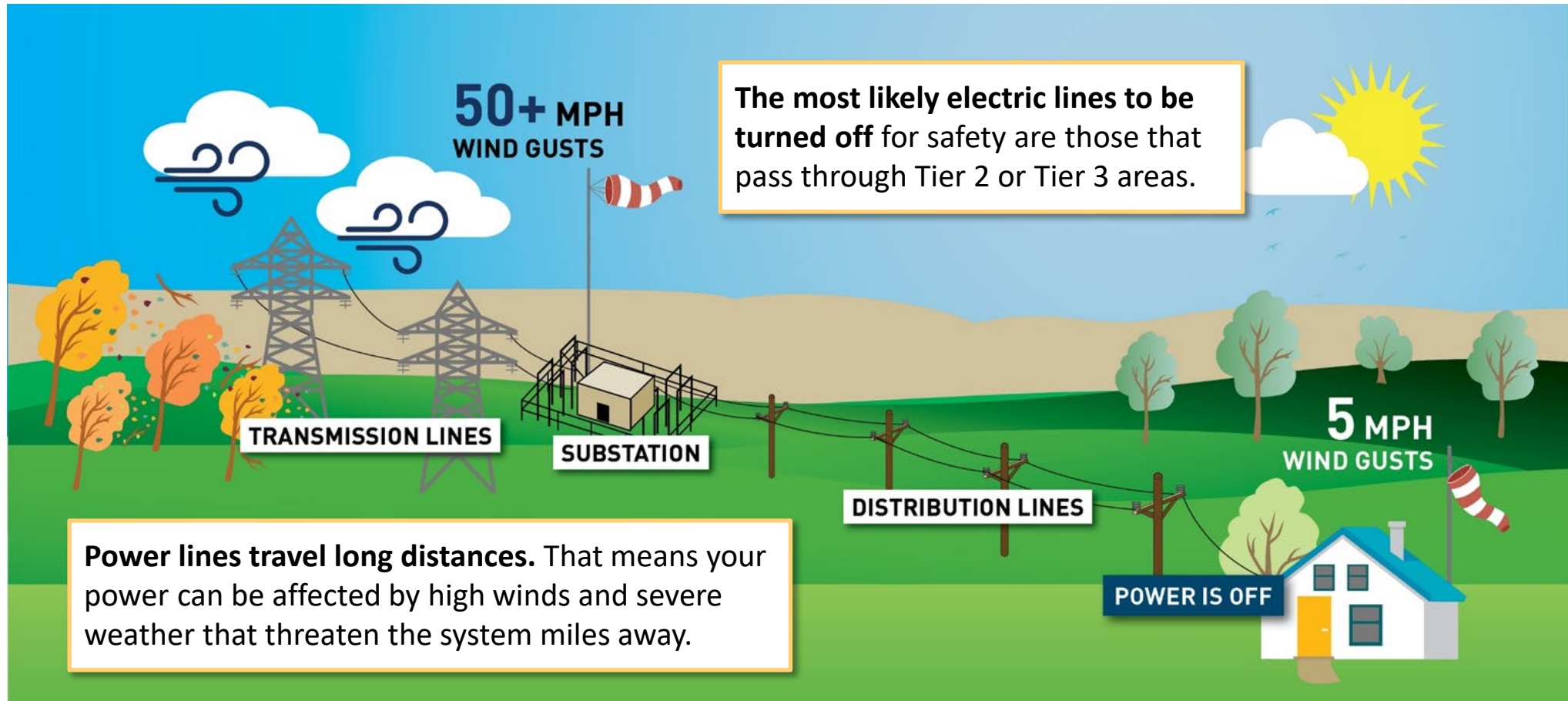
Provide more assistance before, during and after a PSPS event

WHAT WE'RE DOING:

- Using **better weather monitoring technology**
 - 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 (CBO)**
 - Making it **easier for eligible customers to join and stay on the Medical Baseline Program**
 - Providing **emergency information in 13 languages**

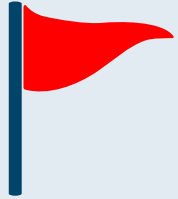
What Is A Public Safety Power Shutoff?

If severe weather threatens a portion of the electric system, it may be necessary for PG&E to turn off electricity in the interest of public safety.

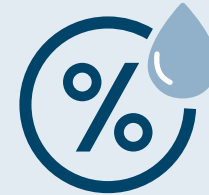


What Weather Could Lead To A PSPS?

While no single factor will drive a Public Safety Power Shutoff, some factors include:



A RED FLAG WARNING declared by the National Weather Service



LOW HUMIDITY LEVELS generally 20% and below



FORECASTED SUSTAINED WINDS GENERALLY ABOVE 25 MPH AND WIND GUSTS IN EXCESS OF APPROXIMATELY 45 MPH, depending on location and site-specific conditions such as temperature, terrain and local climate



DRY MATERIAL on the ground and low moisture content of live vegetation



ON-THE-GROUND, REAL-TIME OBSERVATIONS from PG&E's Wildfire Safety Operations Center and field observations from PG&E crews



Advance PSPS Alerts 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 the power will be shut off and restored.

Timing of Notifications (when possible)



Notifications will provide an estimated window of time when the power will be shut off and restored.



Direct Customer Notifications

We will attempt to reach customers through **calls, texts and emails.**



Additional Updates

We will also use **social media** and keep **local news and radio outlets** informed and updated.

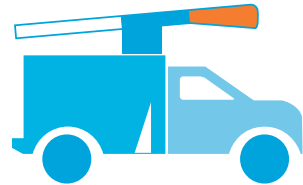


How Is PG&E Improving Restoration Times?

We expect to be able to restore power to most customers **within 12 daylight hours after extreme weather has passed**, a **50 percent improvement** from 2019.



WEATHER
ALL CLEAR



PATROL &
INSPECT



ISOLATE &
REPAIR DAMAGE



RESTORE
POWER



NOTIFY
CUSTOMERS

After severe weather has passed, crews begin inspections

Crews visually inspect for damage by **vehicle, foot and air**

Crews **isolate and fix damage**

The **PG&E Control Center** restores power to customers

Customers are notified that **power has been restored**

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

Customer Resources



Community Resource Centers (CRCs)

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




 Heating and cooling	 Device charging	 Bottled water	 Non-perishable snacks	 Wi-Fi service
 Coffee/tea	 Blankets	 ADA-compliant toilets and hand washing stations	 Security personnel	 Chairs and tables

During a PSPS event, the locations will be made available on [pge.com/pspsupdates](https://www.pge.com/pspsupdates) and via social media, local news and radio.

COVID-19

PG&E is adapting our approach to CRCs to reflect appropriate COVID-19 public health considerations. We are planning to offer micro CRCs (smaller, open air tents) and mobile CRCs (vans) to supplement hardened CRCs if shelter-at-home and physical distancing requirements are in place during PSPS events.

Employees staffing CRC sites will take all necessary precautions:

-  Wearing personal protective equipment including facial coverings
-  Metering attendance to maintain physical distancing
-  Regularly sanitizing surfaces



PG&E Wildfire Safety And PSPS Readiness Webinar

We invite community members to join us for an interactive webinar to learn more about wildfire safety and emergency preparedness, ask questions of PG&E subject matter experts and share their feedback.

DATE	TIME
Wednesday, August 12, 2020	5:30-7:00 p.m.
Wednesday, August 19, 2020	5:30-7:00 p.m.

Visit: pge.com/wildfirewebinar

for a full schedule of webinar events and more information.



Where To Go For Additional Information



STAY UP TO DATE DURING A PSPS EVENT

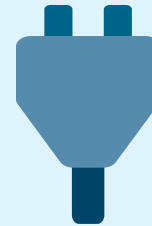
pge.com/PSPSupdates



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.

pge.com/weather



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

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



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

ready.gov

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

Please direct customers with questions to:

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



Additional Information



Additional Support For People With Disabilities And Older Adults

PG&E is working with the California Foundation for Independent Living Centers (CFILC) to fund resources to help prepare for disasters and extended power outages.



Resources include:	
	Portable backup power
	Emergency preparedness assistance
	Accessible transportation
	Hotel vouchers and food stipends
	Medical Baseline application assistance



Application Process: The CFILC will determine who qualifies for resources. Medical needs and income will be taken into account.

Applications are available online or at Independent Living Centers (ILCs) and will be accepted at regional ILC locations.

cfilc.org

disabilitydisasteraccess.org

PSPS event specific resources for the disabled and aging population will be posted at pge.com/afn. Press releases, radio advertisements and leveraging our network of CBOs will also be used to communicate with customers who depend on power for medical and independent living needs when possible during events.

Coordination of resources takes time. Individuals are encouraged to engage with their local ILC and plan before a PSPS event is imminent.



Medical Baseline Program

What is Medical Baseline?

- ✓ The **Medical Baseline Program** provides **financial assistance to residential customers** that have **special energy needs** due to certain **qualifying medical conditions**.
- ✓ Eligible customers may receive a “standard” Medical Baseline quantity of **approximately 500 kilowatt-hours (kWh) of electricity and/or 25 therms of gas per month**, in addition to regular baseline quantities.

Who Qualifies for Medical Baseline?

If a full-time resident in your home is:

- ✓ Dependent on **life-support equipment** used in the home.
- ✓ A **paraplegic, hemiplegic, quadriplegic or multiple sclerosis patient** with special heating and/or air-conditioning needs.
- ✓ A **scleroderma patient** with special heating needs.
- ✓ Being treated for a **life-threatening illness, compromised immune system or other medical condition** with **special heating and/or air-conditioning requirements** necessary to sustain the patient’s life or prevent deterioration of the patient’s medical condition.

Applying for Medical Baseline:

- 1 Complete the “Medical Baseline Allowance” application form.** Forms can be found by visiting pge.com/medicalbaseline.
- 2 Mail the completed and signed application form to:**

PG&E
Attention: Medical Baseline
P.O. Box 8329
Stockton, CA 95208



Due to novel coronavirus (COVID-19) shelter-at-home guidelines and changing medical practitioner priorities, customers can now **self-certify their eligibility to enroll in the Medical Baseline Program**. A signature from a qualified medical practitioner is **not required** to apply but may be requested to remain in the program beyond one year.