Safety

We know that everyone is currently focused on the response to COVID-19.
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.
Some of the measures included in this presentation are contemplated as additional precautionary measures intended to further reduce the risk of wildfires.

Introductions

Vanessa Bryan  Manager, Local Customer Experience
Terry Metters, Jr.  Senior Manager, Fresno Division
Dave Meier  Senior Manager, Stockton and Yosemite Division
Charlotte Jordan  Public Safety Specialist
Patrick Denny  Vegetation Project Manager
Your Local Electric System

What Is A Public Safety Power Shutoff?

Lessons Learned And 2020 Improvements

Local Progress To Help Prevent Wildfires

Preparing For Public Safety Power Shutoffs

Open Discussion

Some of the measures included in this presentation are contemplated as additional precautionary measures intended to further reduce the risk of wildfires.
Your Electric System In Fresno, Kern, Madera And Tulare
The California Public Utilities Commission (CPUC) has a map that designates areas that are most at risk for wildfire.

- Tier 3 areas are at extreme risk
- Tier 2 areas are at elevated risk

This map helps PG&E to plan and prioritize wildfire prevention efforts.

~50% percent of PG&E’s service area is in high fire threat districts

<table>
<thead>
<tr>
<th>COUNTY</th>
<th>TOTAL OVERHEAD LINE MILES</th>
<th>DISTRIBUTION LINE MILES IN HFTD</th>
<th>TOTAL OVERHEAD TRANSMISSION LINE MILES</th>
<th>TRANSMISSION LINE MILES IN HFTD</th>
</tr>
</thead>
<tbody>
<tr>
<td>FRESNO COUNTY</td>
<td>7,869</td>
<td>776</td>
<td>1,702</td>
<td>177</td>
</tr>
<tr>
<td>KERN COUNTY</td>
<td>5,234</td>
<td>120</td>
<td>1,403</td>
<td>31</td>
</tr>
<tr>
<td>MADERA COUNTY</td>
<td>3,141</td>
<td>849</td>
<td>317</td>
<td>33</td>
</tr>
<tr>
<td>TULARE COUNTY</td>
<td>1,181</td>
<td>77</td>
<td>106</td>
<td>22</td>
</tr>
</tbody>
</table>

The map can be accessed at: cpuc.ca.gov/FireThreatMaps

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.
What Is A Public Safety Power Shutoff?
Some of the measures included in this presentation are contemplated as additional precautionary measures intended to further reduce the risk of wildfires.

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 for public safety to prevent such fires. This is called a Public Safety Power Shutoff (PSPS).

The most likely electric lines to be turned off for safety are those that pass through Tier 2 or Tier 3 areas.

Power lines travel long distances. That means your power can be affected by high winds and severe weather that threaten the system miles away.
Some of the measures included in this presentation are contemplated as additional precautionary measures intended to further reduce the risk of wildfires.

<table>
<thead>
<tr>
<th>Each weather situation is unique, we carefully review a combination of factors when deciding if power must be turned off. These factors include:</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>LOW HUMIDITY LEVELS</strong> generally 20% and below</td>
</tr>
<tr>
<td><strong>A FORECAST OF HIGH WINDS</strong> particularly sustained winds above 25 miles per hour and wind gusts above 45 miles per hour</td>
</tr>
<tr>
<td><strong>DRY MATERIAL ON THE GROUND</strong> and low moisture content of live vegetation</td>
</tr>
<tr>
<td><strong>REAL-TIME GROUND OBSERVATIONS</strong> from our Wildfire Safety Operations Center and from our crews working across the service territory</td>
</tr>
</tbody>
</table>

We initiate a PSPS when the weather forecast is for such severe weather that people’s safety, lives, homes and businesses may be in danger of wildfires.
How Often Will A PSPS Event Occur?

Below is an estimate of potential PSPS events in your communities based on a review of 30 years of weather data.

The number of events in any particular year will be exclusively driven by the weather pattern experienced and the above historical weather analysis may not be representative of the experience in a particular year.
How Often Will A PSPS Event Occur?

Below is an estimate of potential PSPS events in your communities based on a review of 30 years of weather data.

**Madera County**
- 1 event per year on average

**Tulare County**
- 0-1 events per year on average

The number of events in any particular year will be exclusively driven by the weather pattern experienced and the above historical weather analysis may not be representative of the experience in a particular year.
How Are We Improving For This Year?

**SMALLER IN SIZE**

Reduce the number of customers impacted 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.

Some of the measures included in this presentation are contemplated as additional precautionary measures intended to further reduce the risk of wildfires.
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How Are We Improving For This Year?

**GOAL:** Reduce the number of customers impacted 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
How Are We Improving For This Year?

SHORTER IN LENGTH

GOAL: Restore customers twice as fast after severe weather has passed

WHAT WE’RE DOING:

- Deploying more PG&E 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

Some of the measures included in this presentation are contemplated as additional precautionary measures intended to further reduce the risk of wildfires.
How Are We Improving For This Year?

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 (CBOs)  
- Making it easier for eligible customers to join and stay on the Medical Baseline Program  
- Providing emergency information in 13 languages
Local Progress To Help Prevent Wildfires
We’re adding advanced weather stations to better understand how severe weather can impact our system and proactively respond to potential threats.

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

Data is publicly available at mesowest.utah.edu and pge.com/weather.

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.
Advanced Weather Station Network

We’re adding advanced weather stations to better understand how severe weather can impact our system and proactively respond to potential threats.

MADERA COUNTY

17 PG&E Stations

TULARE COUNTY

7 PG&E Stations

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

Data is publicly available at
mesowest.utah.edu
pge.com/weather

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.
Sectionalizing The Electric Grid To Limit PSPS Impacts

We’re installing new sectionalizing devices that separate the grid into smaller parts to limit the number of customers impacted during a PSPS event.

We are installing 600 new sectionalizing devices this year:

- 0 devices planned for Fresno County
- 2 devices planned for Kern County
- 0 devices planned for Madera County
- 1 device planned for Tulare County

We are also working to add remote and/or automated capabilities to many of the devices in order to further reduce the number of customers affected by a Public Safety Power Shutoff.
Enhancing Vegetation 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.

<table>
<thead>
<tr>
<th>COUNTY</th>
<th>2020 TARGET</th>
</tr>
</thead>
<tbody>
<tr>
<td>FRESNO</td>
<td>63 LINE MILES</td>
</tr>
<tr>
<td>KERN</td>
<td>52 LINE MILES</td>
</tr>
<tr>
<td>MADERA</td>
<td>165 LINE MILES</td>
</tr>
<tr>
<td>TULARE</td>
<td>0 LINE MILES</td>
</tr>
</tbody>
</table>

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.
Preparing For Public Safety
Power Shutoffs
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** before power is turned off
- **1 day** before power is turned off
- **Just before** power is turned off
- **During** the PSPS event
- **Once** power has been restored

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 automated calls, texts and emails.

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

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"PSPS Watch" Customer Notifications Scripts

**WATCH EMAIL**

Public Safety Power Shutoff

**PSPS Outage Watch**

Due to current weather forecasts, your area is currently under a watch for a Public Safety Power Shutoff. Current weather forecasts, including high winds and dry conditions, may require us to turn off power for wildfire safety.

**ESTIMATED SHUT OFF:**

Wednesday, October 7th
6PM–10PM

Weather may be delayed if weather improves.

**ESTIMATED RESTORATION:**

Thursday, October 8th by 4PM

3 METERS:

To download a CSV file of your locations, visit XXXXX.

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**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 6pm and 10pm. Shutoff times may be delayed if winds arrive later than forecasted.

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

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

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

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/spsesupdates Reply w/ “1” to verify receipt.
Community Resource Centers (CRCs)

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:

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

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

COVID-19 CONSIDERATIONS

PG&E is adapting our approach to CRCs to reflect appropriate COVID-19 public health considerations.

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 in accordance with state and county guidelines
- Administer temperature checks before entering indoor facilities
- Limit attendance to maintain physical distancing
- Regularly sanitize surfaces

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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.

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

**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.

<table>
<thead>
<tr>
<th>Resources include:</th>
<th>Application Process:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Portable backup power</td>
<td>The CFILC will determine who qualifies for resources. Medical needs and income will be taken into account.</td>
</tr>
<tr>
<td>Emergency preparedness assistance</td>
<td></td>
</tr>
<tr>
<td>Accessible transportation</td>
<td></td>
</tr>
<tr>
<td>Hotel vouchers and food stipends</td>
<td></td>
</tr>
<tr>
<td>Medical Baseline application assistance</td>
<td></td>
</tr>
</tbody>
</table>

**Resources for Independence Central Valley (RICV)**
800-244-2274
3636 N. First Street, Suite 101, Fresno, CA 93726

**RICV Visalia Satellite Office**
559-622-9276
425 E. Oak Avenue, Suite 202, Visalia, CA 93292

**Independent Living Center of Kern County (ILCKC)**
800-529-9541
5251 Office Park Drive, Suite 200, Bakersfield, CA 93309

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

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

For more information about our Community Wildfire Safety Program, please: Call 1-866-743-6589 Email wildfiresafety@pge.com Visit pge.com/wildfiresafety

Some of the measures included in this presentation are contemplated as additional precautionary measures intended to further reduce the risk of wildfires.
Appendix
### 2019 PSPS Overview

#### EVENT DETAILS

<table>
<thead>
<tr>
<th></th>
<th>OCT 9 - 12</th>
<th>OCT 23 - 25</th>
<th>OCT 26 - NOV 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>CUSTOMERS IMPACTED</td>
<td>-</td>
<td>-</td>
<td>~5,000</td>
</tr>
<tr>
<td>PEAK WIND GUSTS</td>
<td>-</td>
<td>-</td>
<td>45</td>
</tr>
<tr>
<td>DAMAGE/HAZARDS</td>
<td>-</td>
<td>-</td>
<td>1</td>
</tr>
<tr>
<td>MAX. OUTAGE LENGTH (HRS)</td>
<td>-</td>
<td>-</td>
<td>~53</td>
</tr>
<tr>
<td>CUSTOMERS IMPACTED</td>
<td>~4,400</td>
<td>~30</td>
<td>~700</td>
</tr>
<tr>
<td>PEAK WIND GUSTS</td>
<td>51</td>
<td>44</td>
<td>71</td>
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<tr>
<td>DAMAGE/HAZARDS</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>MAX. OUTAGE LENGTH (HRS)</td>
<td>~54</td>
<td>~37</td>
<td>~42</td>
</tr>
<tr>
<td>CUSTOMERS IMPACTED</td>
<td>-</td>
<td>-</td>
<td>~16,700</td>
</tr>
<tr>
<td>PEAK WIND GUSTS</td>
<td>-</td>
<td>-</td>
<td>43</td>
</tr>
<tr>
<td>DAMAGE/HAZARDS</td>
<td>-</td>
<td>-</td>
<td>10</td>
</tr>
<tr>
<td>MAX. OUTAGE LENGTH (HRS)</td>
<td>-</td>
<td>-</td>
<td>~75</td>
</tr>
</tbody>
</table>

### NO PSPS EVENTS IN TULARE COUNTY IN 2019

**Note:** All data is subject to change based on ongoing data reconciliation.

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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.

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

We’re supporting the installation of new high-definition cameras in high fire-threat areas, which allow PG&E and first responders to monitor potential wildfire threats in real time.

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

Images are publicly available at

[alertwildfire.org](http://alertwildfire.org)

[pge.com/weather](http://pge.com/weather)
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