Community Wildfire Safety Program
Amador, Calaveras and El Dorado Counties

May 27, 2020
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.
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Your Electric System In Amador, Calaveras and El Dorado
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></th>
<th>Total Overhead Distribution 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><strong>Amador County</strong></td>
<td>943</td>
<td>754</td>
<td>101</td>
<td>93</td>
</tr>
<tr>
<td><strong>Calaveras County</strong></td>
<td>1,447</td>
<td>1,264</td>
<td>215</td>
<td>164</td>
</tr>
<tr>
<td><strong>El Dorado County</strong></td>
<td>2,303</td>
<td>2,098</td>
<td>125</td>
<td>97</td>
</tr>
</tbody>
</table>

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

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.

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>A RED FLAG WARNING</th>
<th>LOW HUMIDITY LEVELS</th>
</tr>
</thead>
<tbody>
<tr>
<td>declared by the National Weather Service</td>
<td>generally 20% and below</td>
</tr>
</tbody>
</table>

| 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 |

<table>
<thead>
<tr>
<th>CONDITION OF DRY FUEL</th>
<th>ON-THE-GROUND, REAL-TIME OBSERVATIONS from PG&amp;E’s Wildfire Safety Operations Center and field observations from PG&amp;E crews</th>
</tr>
</thead>
<tbody>
<tr>
<td>on the ground and live vegetation moisture content</td>
<td></td>
</tr>
</tbody>
</table>
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.

Amador County
1-3 events per year on average

Calaveras County
1-2 events per year on average

El Dorado County
1-3 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.

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How Are We Improving For This Year?

**SMALLER IN SIZE**
Reduce the number of customers impacted by PSPS events by one-third compared to 2019

**SHORTER IN DURATION**
Restore customers twice as fast after severe weather has passed

**SMARTER FOR CUSTOMERS**
Provide more accurate/timely communications and additional resources
Deliver more assistance for customers 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.
GOAL:
Reduce the number of customers impacted by PSPS events by one-third compared to 2019

WHAT WE’RE DOING:
- Installing sectionalizing devices on the transmission and distribution systems capable of re-directing power and limiting the size of outages
- Developing microgrids that use generators to keep the lights on
- Conducting targeted undergrounding as part of system hardening
How Are We Improving For This Year?

**SHORTER IN DURATION**

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

**WHAT WE’RE DOING:**
- Adding more field crews to speed inspection of lines
- Expanding helicopter fleet from 35 to 65 for aerial line inspections
- Commissioning two new airplanes for aerial line inspections
- Utilizing infrared equipment to inspect at night
How Are We Improving For This Year?

SMARTER FOR CUSTOMERS

GOALS:

Provide **more accurate/timely communications** and additional resources

- AND -

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

WHAT WE’RE DOING:

- Enhancing **meteorology technology** to pinpoint severe weather
- Bolstering **website capacity**
- Improving **customer alerts** and notifications
- Upgrading **Community Resource Centers**
- **Improving coordination** with local agencies and critical service providers

- Working with the **California Foundation for Independent Living Centers** and other **Community Based Organizations** to support vulnerable customers
- Making it **easier for eligible customers to join the Medical Baseline program**
- Expanding **in-language communications**

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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.

**Advanced Weather Station Network**

Data is publicly available at [mesowest.utah.edu](http://mesowest.utah.edu) or [pge.com/weather](http://pge.com/weather).

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**AMADOR COUNTY**

- 16 PG&E Stations

**CALAVERAS COUNTY**

- 19 PG&E Stations

**EL DORADO COUNTY**

- 30 PG&E Stations

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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:

- **8** devices planned for Amador County
- **18** devices planned for Calaveras County
- **21** devices planned for El Dorado 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 who are impacted by a public safety power shutoff.
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>AMADOR</td>
<td>80 LINE MILES</td>
</tr>
<tr>
<td>CALAVERAS</td>
<td>35 LINE MILES</td>
</tr>
<tr>
<td>EL DORADO</td>
<td>197 LINE MILES</td>
</tr>
</tbody>
</table>

*Work plan is subject to change due to weather, access or other scheduled constraints.
Preparing For Public Safety
Power Shutoffs
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 shutoff 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 shutoff 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.

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Community Resource Centers (CRCs)

CRCs provide customers and residents with a safe, energized, ADA accessible location with basic resources, as well as up-to-date information. The following resources may be available:

- Heating and cooling
- Power strips to charge devices
- Bottled water
- Non-perishable snacks/fruit
- 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/pspupdates and via social media, local news and radio.

If social distancing measures remain in place due to COVID-19, we will be incorporating alternative solutions like mobile, popup or reconfigured CRCs.
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Resources for Independent Living (RIL)
916-446-3074
420 I Street, Level B: Suite 3, Sacramento, CA 95814

Disability Resource Agency for Independent Living (DRAIL)
209-521-7260
1101 Sylvan Ave, Suite A-25, Modesto, CA 95350

The Disaster Access and Resources Program provides qualifying customers who use electrical medical devices access backup portable batteries.

Disabilitydisasteraccess.org

Additional Support For Vulnerable Customers

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

More information is available through these ILC locations:

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

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Appendix
## 2019 PSPS Overview

### EVENT DETAILS

<table>
<thead>
<tr>
<th>EVENT DETAILS</th>
<th>OCT 9 - 12</th>
<th>OCT 23 - 25</th>
<th>OCT 26 - NOV 1</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>AMADOR</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CUSTOMERS IMPACTED</td>
<td>~16,000</td>
<td>~10,400</td>
<td>~19,900</td>
</tr>
<tr>
<td>PEAK WIND GUSTS</td>
<td>37</td>
<td>41</td>
<td>51</td>
</tr>
<tr>
<td>DAMAGE/HAZARDS</td>
<td>3</td>
<td>3</td>
<td>4</td>
</tr>
<tr>
<td>MAX. OUTAGE LENGTH (HRS)</td>
<td>89</td>
<td>29</td>
<td>114</td>
</tr>
<tr>
<td><strong>CALAVERAS</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CUSTOMERS IMPACTED</td>
<td>~23,700</td>
<td>~14,200</td>
<td>~30,800</td>
</tr>
<tr>
<td>PEAK WIND GUSTS</td>
<td>49</td>
<td>57</td>
<td>64</td>
</tr>
<tr>
<td>DAMAGE/HAZARDS</td>
<td>2</td>
<td>1</td>
<td>9</td>
</tr>
<tr>
<td>MAX. OUTAGE LENGTH (HRS)</td>
<td>89</td>
<td>29</td>
<td>119</td>
</tr>
<tr>
<td><strong>EL DORADO</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CUSTOMERS IMPACTED</td>
<td>~51,300</td>
<td>~35,500</td>
<td>~56,700</td>
</tr>
<tr>
<td>PEAK WIND GUSTS</td>
<td>46</td>
<td>51</td>
<td>64</td>
</tr>
<tr>
<td>DAMAGE/HAZARDS</td>
<td>3</td>
<td>2</td>
<td>64</td>
</tr>
<tr>
<td>MAX. OUTAGE LENGTH (HRS)</td>
<td>87</td>
<td>45</td>
<td>132</td>
</tr>
</tbody>
</table>

**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 extreme weather has passed**, a **50 percent improvement** from 2019.

- **WEATHER ALL CLEAR**
- **PATROL & INSPECT**
  - After severe weather has passed, crews begin inspections
  - Crews visually inspect for damage by vehicle, foot and air
- **ISOLATE & REPAIR DAMAGE**
  - Crews isolate and fix damage
- **RESTORE POWER**
  - The PG&E Control Center restores power to customers
- **NOTIFY 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.

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Monitoring For Wildfires

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

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

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