

PG&E Local Government Forum

CITY OF LAFAYETTE, TOWN OF MORAGA AND CITY OF ORINDA

March 21, 2022



Safety

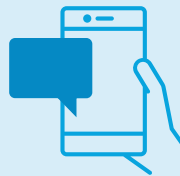
General Safety Tips



Identify two exit routes from your current work area in the event of a fire or other emergency.



“Drop, cover and hold” in the event of an earthquake.



Notify emergency services if you are in danger. You can also ask for help by putting a message in the chat function of this meeting.

Agenda

- 1 Hometown Overview**
- 2 Wildfire Safety Work**
- 3 Enhanced Powerline Safety Settings (EPSS)**
- 4 Public Safety Power Shutoff (PSPS)**
- 5 Customer Resources**



Hometown Overview

Gas and electric service in your hometown

QUICK FACTS	LAFAYETTE	MORAGA	ORINDA
Electric Customers Served	11,940	6,395	7,548
Electric Line Miles*	121	45	162
High-Fire Threat District (HFTD) Electric Line Miles*	63	19	128
Gas Customers Served	10,977	5,918	7,172
Gas Distribution Line Miles	132	68	123
Gas Miles in High-Consequence Areas**	3	< 1	< 1

*Data as of 3/4/22, all additional data as of 1/31/2022

**Applicable to gas transmission lines

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





Major Electric Projects in Your Hometown

As part of our commitment to provide our customers with safe and reliable energy, we are reinforcing our electric system.

PROJECT/LOCATION	OVERVIEW	ESTIMATED CONSTRUCTION START DATE*	ESTIMATED COMPLETION DATE*
Moraga 1103 PSPS Mitigation	Installing new poles and reclosers and conducting undergrounding	Jan. 2022	TBD 2022

*Local work plans are subject to change

To view electric outages, please visit:

pge.com/outages





Major Gas Projects in Your Hometown

We are committed to the communities we serve, and we are working every day to enhance gas pipeline safety.

PROJECT/LOCATION	OVERVIEW	ESTIMATED CONSTRUCTION START DATE*	ESTIMATED COMPLETION DATE*
T-1502/Lafayette	Replacing a section of pipe on Meadowlark Ct.	Jun. 2022	Sep. 2022
T-1501/Lafayette	Replacing two sections of pipe on Orchard Rd. and Oak Hill	Jul. 2022	Oct. 2022

*Local work plans are subject to change

To learn more about PG&E's natural gas system, please visit: [pge.com/gas](https://www.pge.com/gas)



Reduce Wildfire Potential



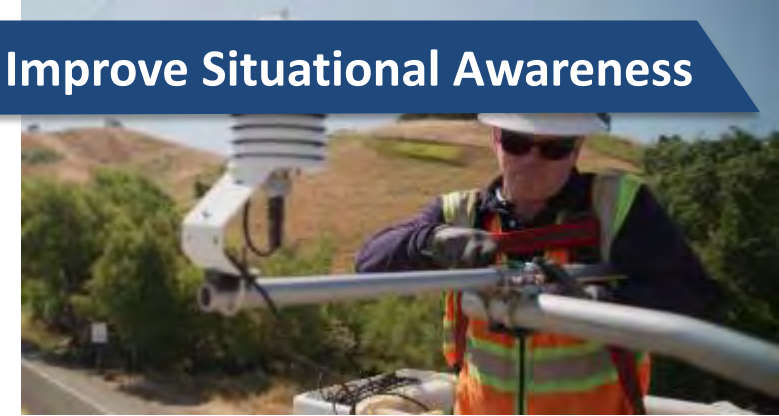
- **Prevent catastrophic wildfires** by rebuilding and modernizing the system
- **Lessen the frequency** of ignitions
- **Limit the spread** of potential ignitions
- **Focus efforts** on the highest risk locations

Reduce Customer Impact



- **Improve coordination** with and support of our customers and our hometowns
- **Reduce the number** of customers impacted by safety outages
- **Reduce the duration** of safety outages

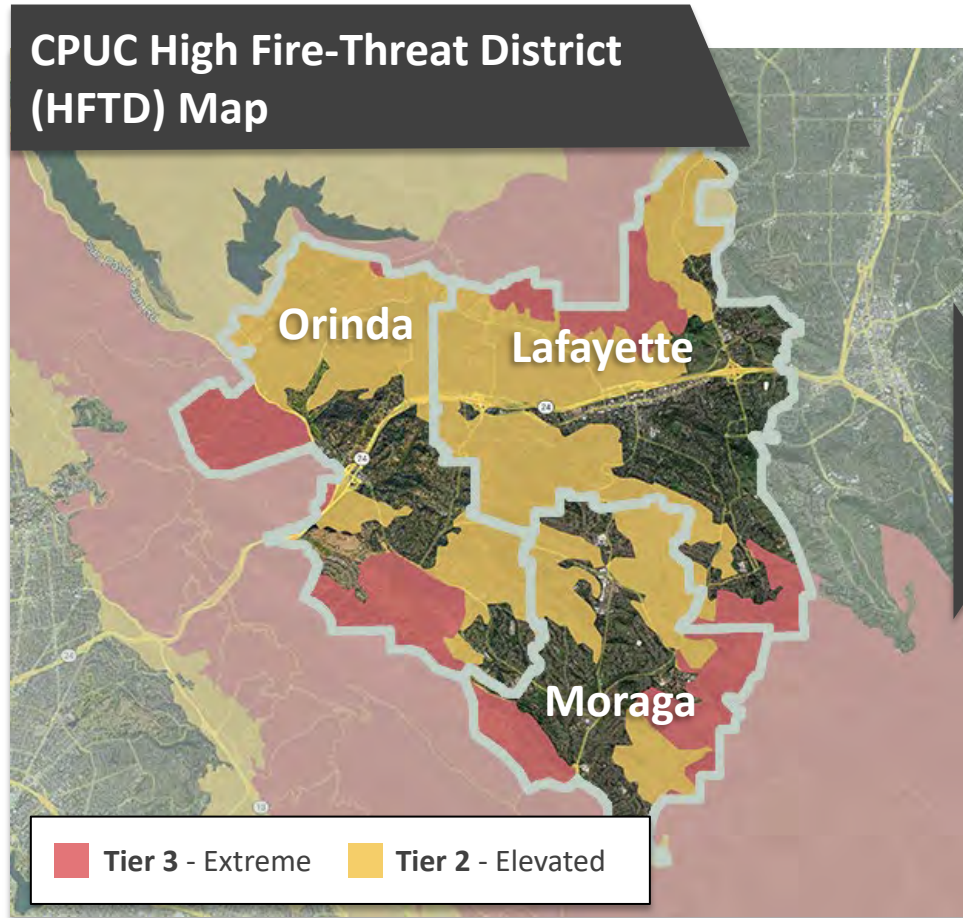
Improve Situational Awareness



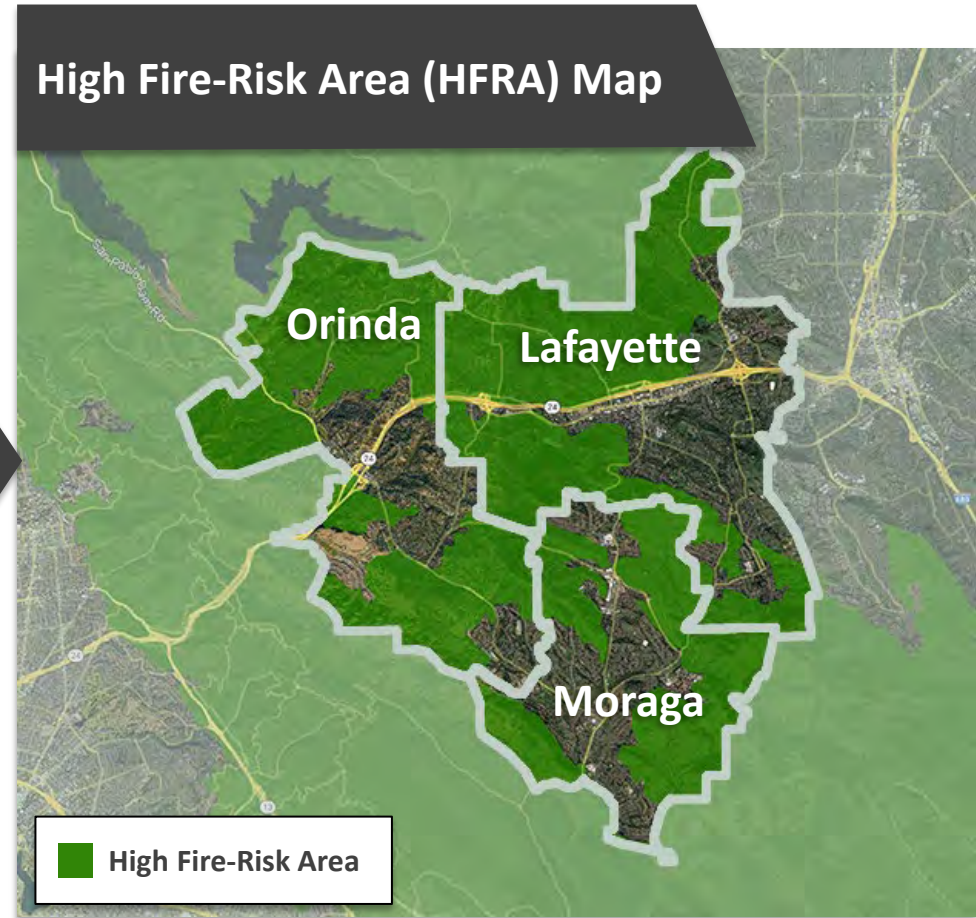
- **Enhance understanding** of where risk is located
- **Further refine weather modeling** and ability to detect wildfires
- **Improve our ability to capture and analyze data** from all hazards

Identifying Wildfire Risk

We target wildfire mitigation efforts in the areas and communities at highest risk.



The California Public Utilities Commission's (CPUC) High Fire-Threat District (HFTD) map designates areas most at risk for wildfire.



PG&E's High Fire-Risk Area (HFRA) map builds upon the CPUC's map, providing a greater understanding of wildfire risk and where to prioritize work.



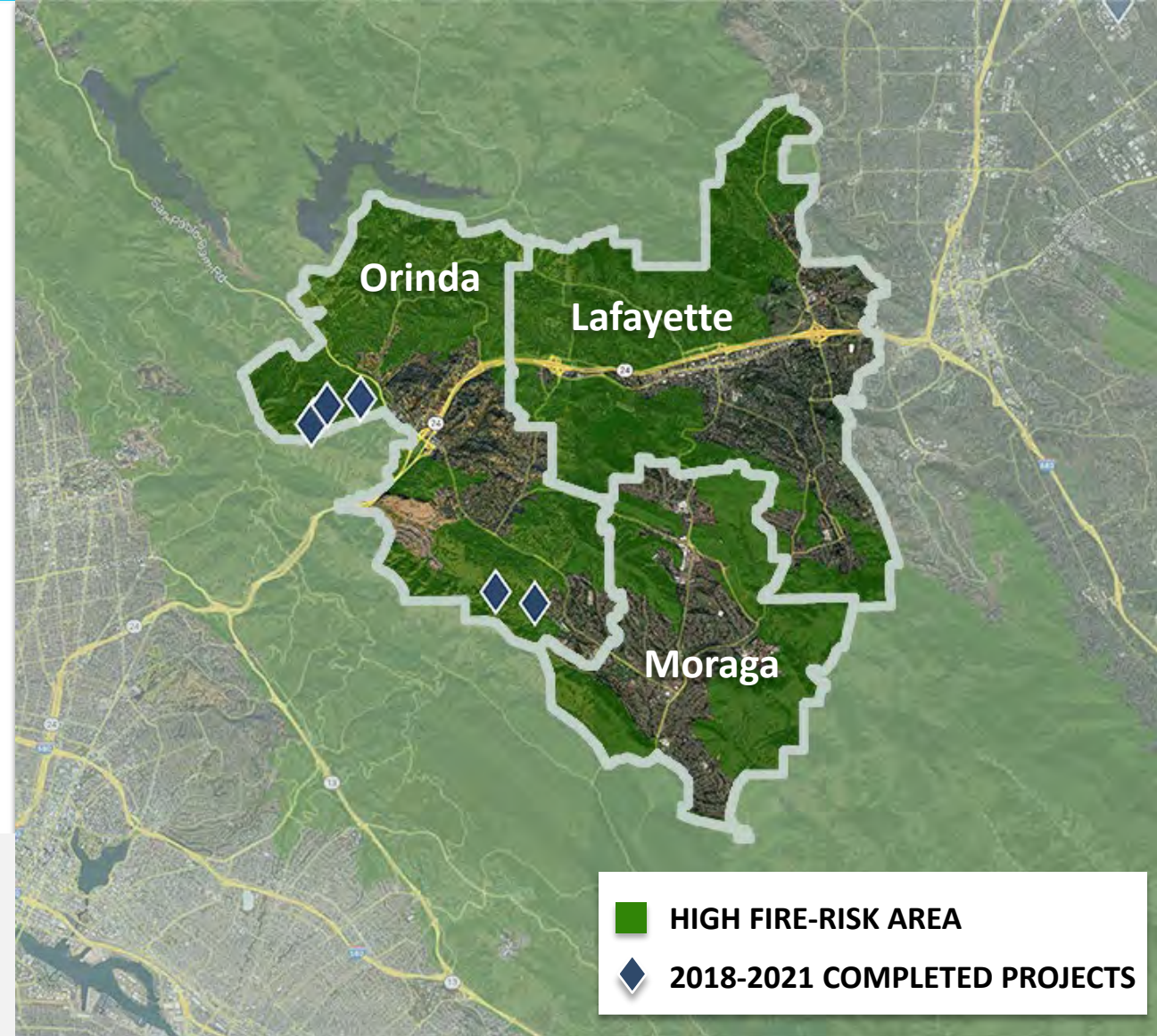
Overhead System Hardening

Strengthening the electric system by installing stronger poles and covered powerlines which are more resistant to severe weather and wildfire risk.

MILES COMPLETED THROUGH 2021

LAFAYETTE	MORAGA	ORINDA
0	0	8

Learn more about our system hardening work by visiting: pge.com/systemhardening



Data as of 3/14/22. Local work plans are subject to change. Locations are approximate and may overlap.

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



Undergrounding

Strengthening the electric system by undergrounding our powerlines in and near high fire-threat areas.

MILES PLANNED FOR 2022-2023

LAFAYETTE	MORAGA	ORINDA
0.6	-	0.2

- 2022 PLANNED/COMPLETED MILES
- 2023 PLANNED MILES
- HIGH FIRE-RISK AREA

Learn more about our undergrounding efforts by visiting: pge.com/systemhardening



Note: This map is for illustrative purposes only. Work plans are subject to change due to weather, access, and permitting,

Data is as of 02/1/22 and does not include undergrounding work related to the California Public Utilities Commission's Rule 20 Program.

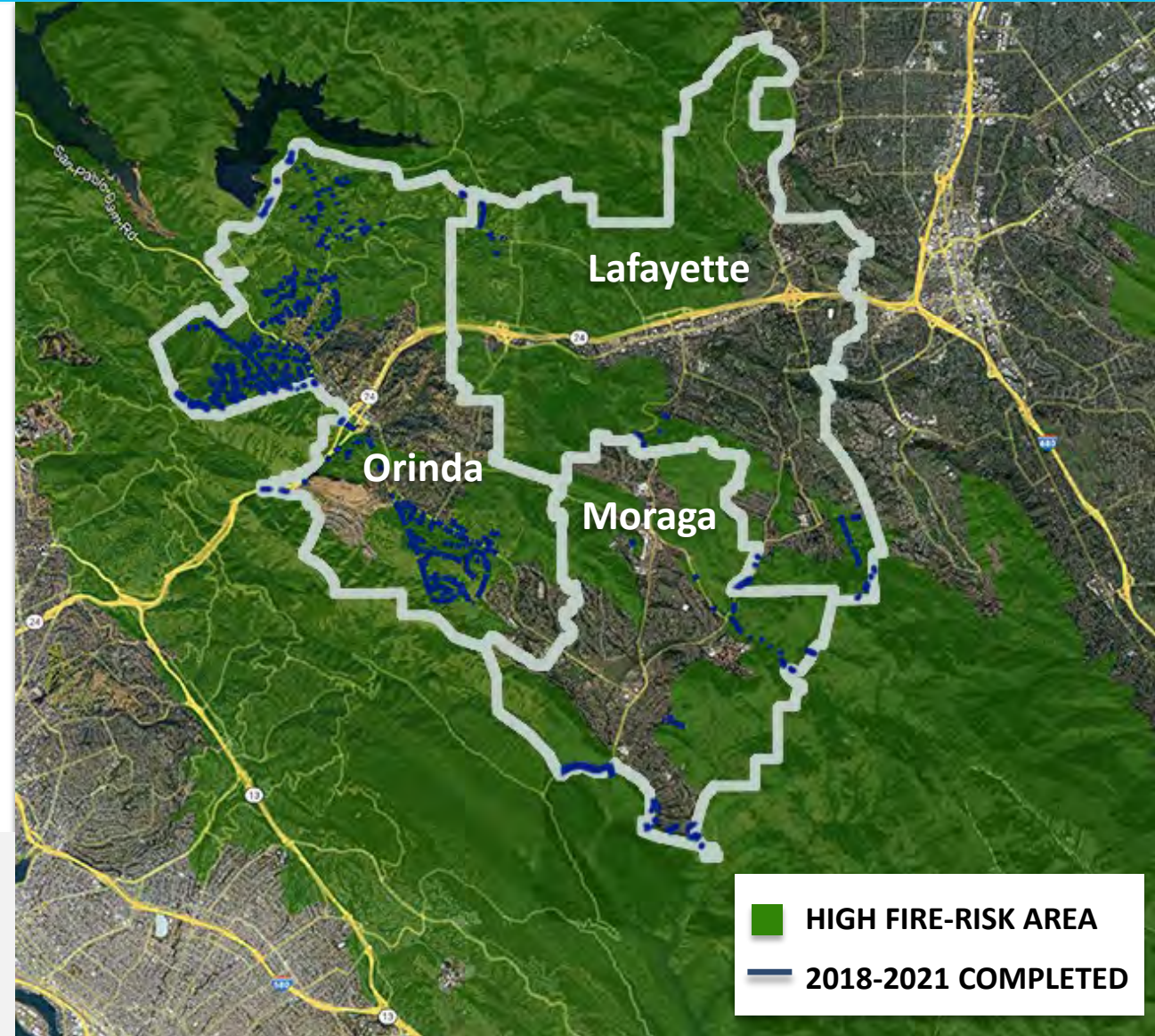


Enhanced Vegetation Management

Addressing vegetation that poses a higher potential for wildfire risk in high fire-threat areas.

MILES COMPLETED THROUGH 2021

LAFAYETTE	MORAGA	ORINDA
2	3	23



Learn more about our vegetation management work by visiting: pge.com/evm

Data as of 3/10/2022. Local work plans are subject to change. Locations are approximate and may overlap.

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Sectionalizing Devices

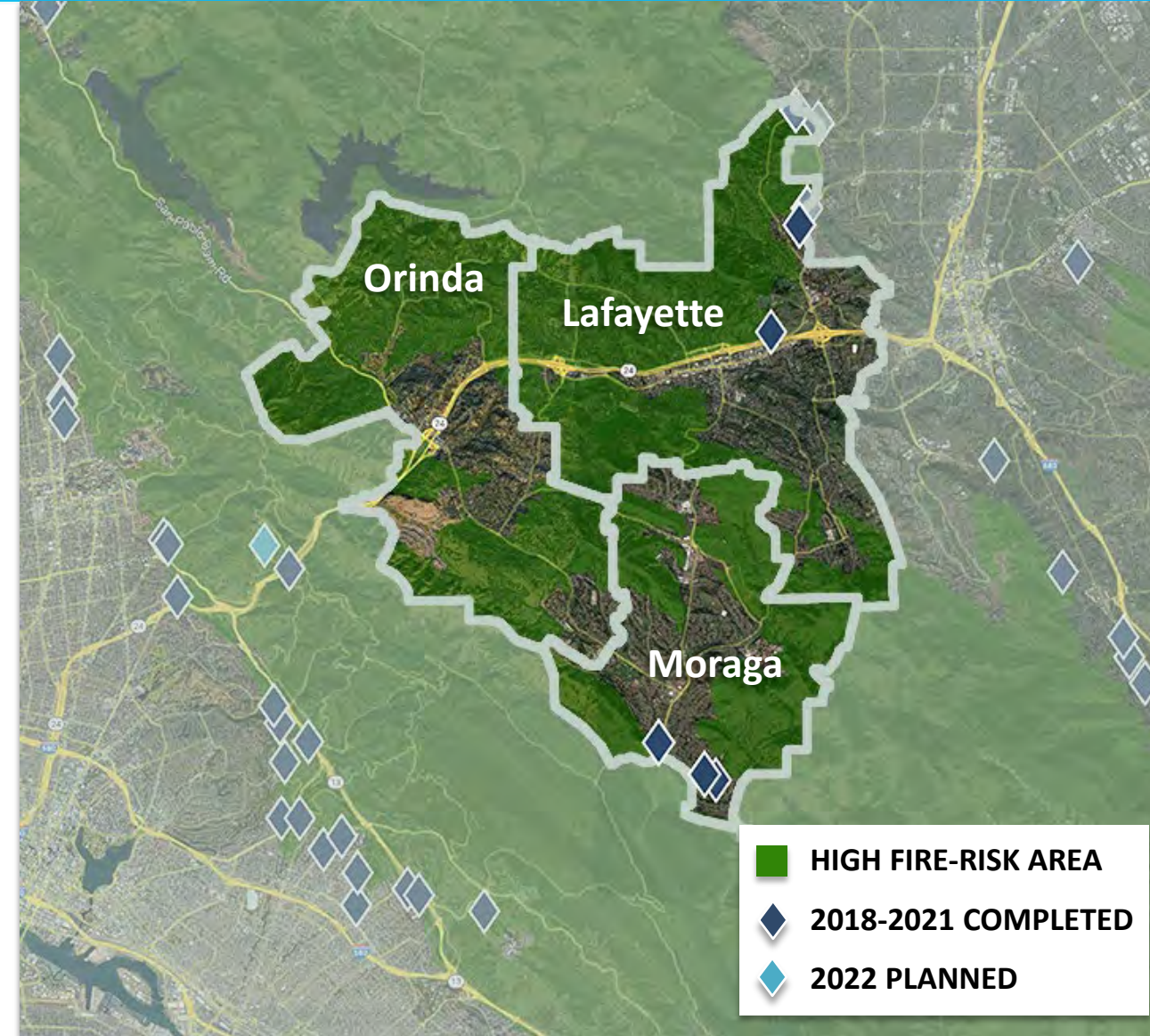
Separating the grid into smaller sections, limiting the number of customers impacted during a Public Safety Power Shutoff (PSPS) outage and giving us more operational flexibility.

DEVICES COMPLETED THROUGH 2021

LAFAYETTE	MORAGA	ORINDA
2	3	0

Additional SECTIONALIZING DEVICES

are adjacent to these communities and can potentially provide support during an outage



Data as of 2/7/22. Local work plans are subject to change. Locations are approximate and may overlap.

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



Weather Stations

Improving our weather forecasting capabilities and allowing us to better predict and respond to severe weather threats.

STATIONS COMPLETED THROUGH 2021

LAFAYETTE	MORAGA	ORINDA
1	1	1

Planning is currently underway and locations will be identified on a rolling basis

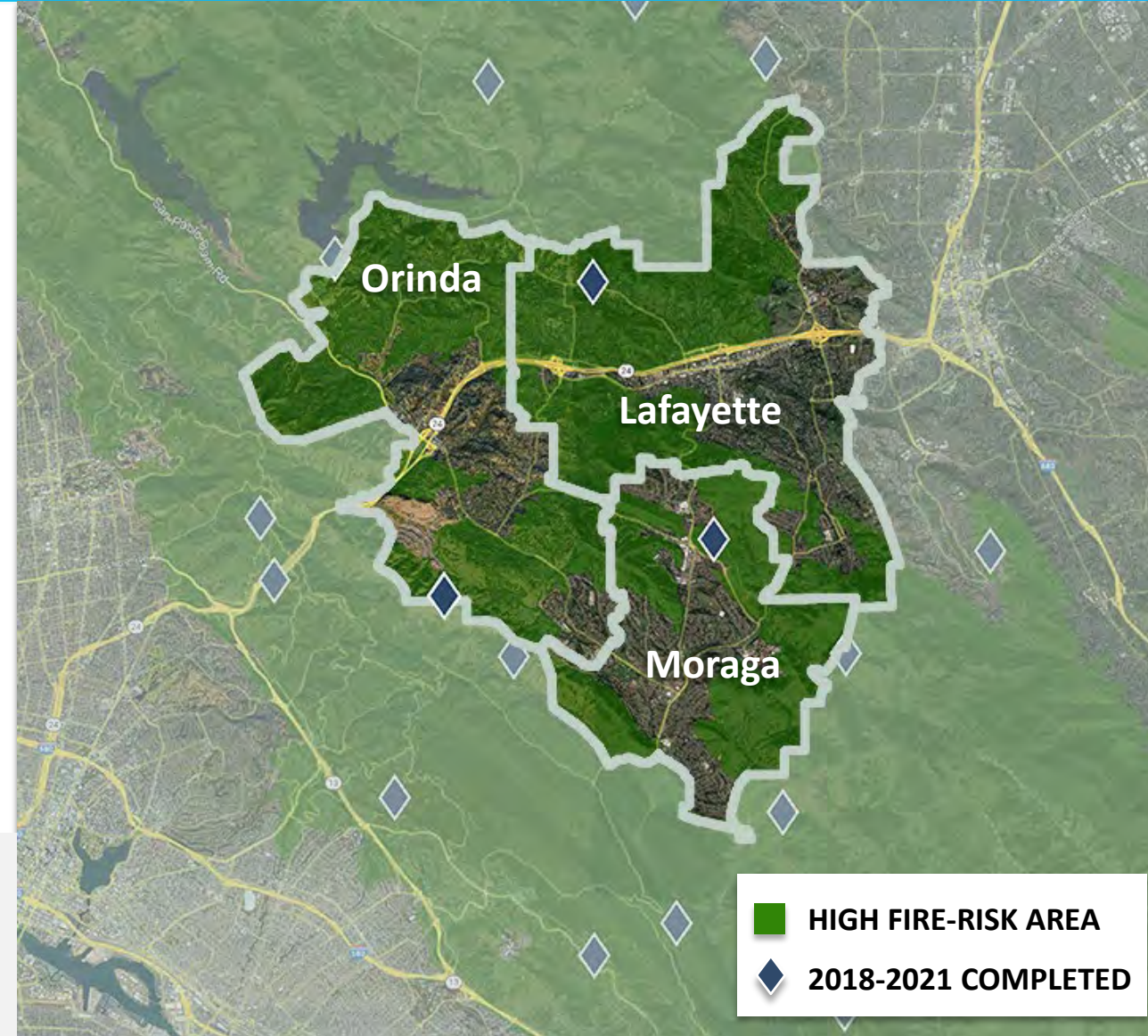
Additional WEATHER STATIONS



are adjacent to these communities and can support weather forecasting capabilities

Learn more about our weather stations by visiting:

pge.com/weather



- HIGH FIRE-RISK AREA
- ◆ 2018-2021 COMPLETED

Data as of 2/7/22. Local work plans are subject to change. Locations are approximate and may overlap.

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



High-Definition Cameras

Enhancing our ability to monitor and respond to wildfires in our service area.

CAMERAS COMPLETED THROUGH 2021

LAFAYETTE	MORAGA	ORINDA
2	1	1

Additional HIGH-DEFINITION CAMERAS

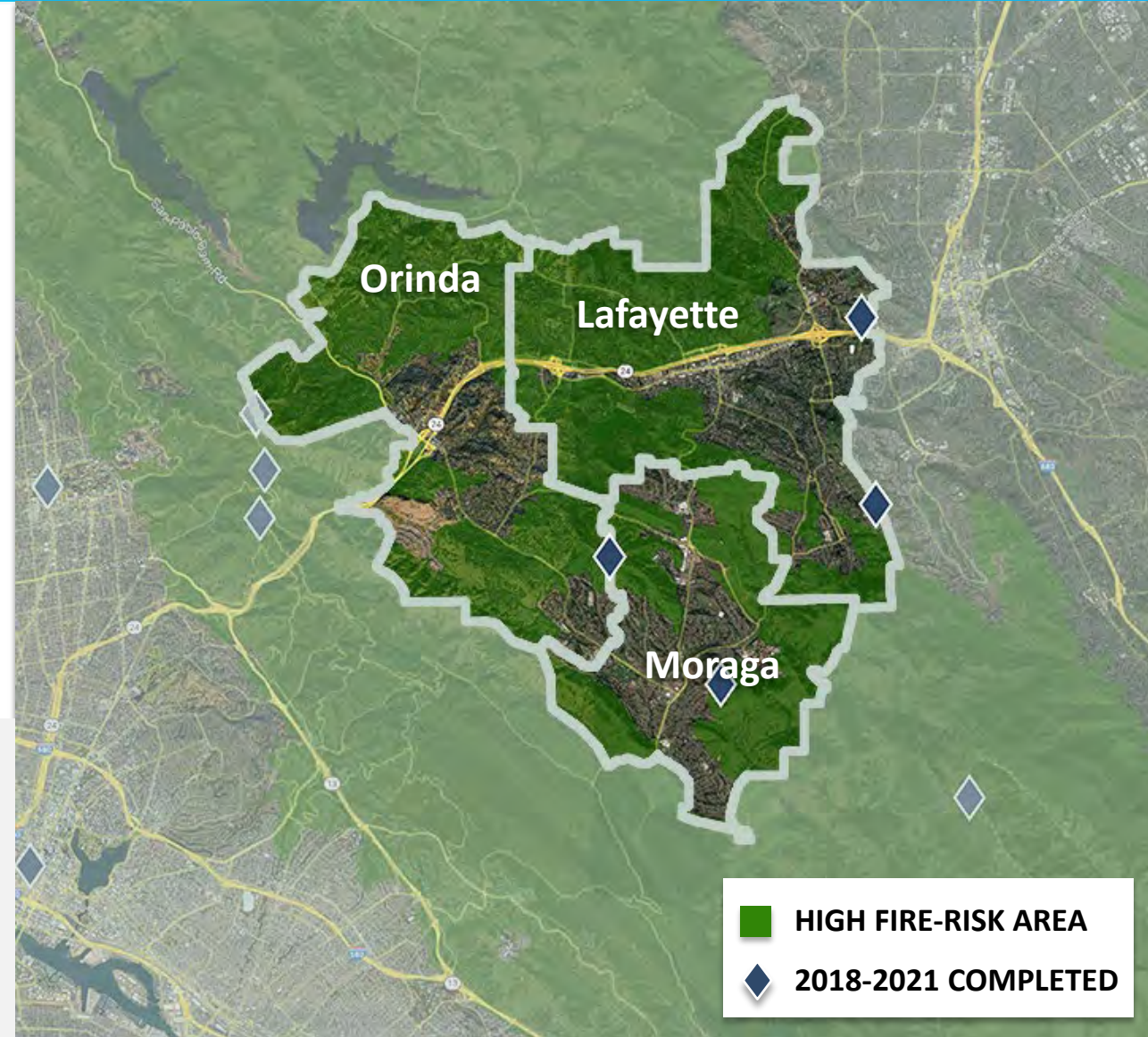


are adjacent to these communities and can support weather monitoring

Our cameras are part of the **ALERTWildfire system** used by fire managers at the Bureau of Land Management, the U.S. Forest Service, CAL FIRE and local fire departments in four states.

Alertwildfire.org

pge.com/weather



Data as of 2/7/22. Local work plans are subject to change. Locations are approximate and may overlap.

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Enhanced Powerline Safety Settings



Preventing Potential Wildfires

Enhanced Powerline Safety Settings (EPSS): A new tool to prevent wildfires

HOW IT WORKS

PG&E powerlines have equipment that allows them to turn off power within one-tenth of a second if a tree branch or other object strikes the line.



WHY WE DO IT

Quickly and automatically shutting off power when there is a problem can **help stop wildfires before they have a chance to start.**



PREVENTING WILDFIRES

~80% 

decrease in CPUC-reportable ignitions in 2021 on EPSS-enabled circuits.*

**Compared to the prior three-year average.*

SAFETY SETTINGS IN ACTION

In 2021, these settings prevented a potential ignition when a tree branch fell into a powerline and power quickly and automatically turned off.

What Are Enhanced Powerline Safety Settings?

1 When an **object strikes the line** or a fault occurs...

To help prevent wildfires during the hot and dry season, we adjust the sensitivity settings on our equipment to quickly and automatically turn off power if the system detects a problem.

2 ...protective devices detect the change in current and **shut off power within one-tenth of a second.**

3 We check the lines for damage before safely restoring power. This process can take several hours, depending on terrain.

Patrols are done by helicopter, truck or on foot during daylight hours.

POWER OFF

PG&E

For illustrative purposes only. Graphic is not to scale.

When Are EPSS Outages Most Likely to Occur?

During hot and dry summer conditions. These conditions are most likely from May to November.



Notifying Customers of Outages

We will share updates about when you can expect power to return. Outages are triggered automatically due to a safety threat, therefore we are unable to provide advance notification.



Reducing Customer Impacts by:

- Providing better notifications
- Fine-tuning device sensitivity
- Reducing the length, frequency and number of customers impacted
- Expanding customer resource eligibility



How Customers Can Prepare for Outages

Stay Up-to-Date
View outages and restoration times
pge.com/outages



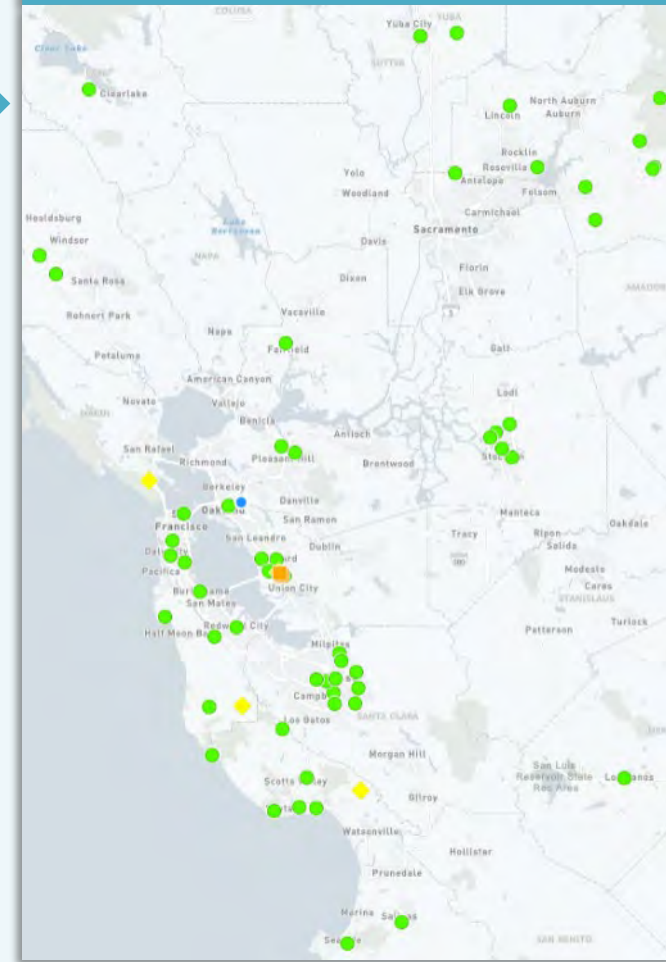
Update Contact Information

Receive outage and restoration notifications
pge.com/myalerts

Explore Backup Power Options

Determine the right solution and generator rebate qualifications
pge.com/backuppowers

PG&E'S OUTAGE MAP



Public Safety Power Shutoff



What is a Public Safety Power Shutoff?

Safety is our most important responsibility. That is why we may need to turn off power as a last resort to prevent wildfires during severe weather conditions.

High winds and dangerous conditions can cause branches and debris to contact energized powerlines.

This could damage our equipment and cause a wildfire.



To prevent such fires, we may need to turn off power.

This is called a **Public Safety Power Shutoff (PSPS)**.



Once severe weather has passed, we will inspect the system and repair any damage.



Once inspections and any repairs are complete, power is restored.



What Conditions Could Lead to a PSPS?

We carefully review a combination of factors when deciding if power must be turned off for safety. These factors include:



Low humidity levels generally 30% and below



Forecasted high winds above 19 mph and gusts above 30-40 mph



A Red Flag Warning issued by the National Weather Service



Condition of dry material on the ground and low moisture content of vegetation



On-the-ground, real-time observations



Public Safety Power Shutoff (PSPS)

We are working year-round and nonstop to make our system safer and more resilient and improve PSPS for our customers and communities.

LAFAYETTE PSPS OVERVIEW			
PSPS OUTAGES	2019 Oct. 9	2019 Oct. 26	2020 Oct. 25
CUSTOMERS IMPACTED	7,447	8,111	2,834

MORAGA PSPS OVERVIEW				
PSPS OUTAGES	2019 Oct. 9	2019 Oct. 26	2020 Oct. 14	2020 Oct. 25
CUSTOMERS IMPACTED	6,522	5,541	2	3,537

ORINDA PSPS OVERVIEW				
PSPS OUTAGES	2019 Oct. 9	2019 Oct. 26	2020 Oct. 14	2020 Oct. 25
CUSTOMERS IMPACTED	7,636	7,639	17	7,860

Data as of 3/16/2022.

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

How We're Improving PSPS This Year:

- **Focusing on lessening impacts** in the areas at highest risk
- **Reducing the number of customers impacted**
- **Reducing the length of outages**
- **Improving our coordination** with customers and communities
- **Providing more accurate and timely notifications**
- **Partnering with community-based organizations** to provide targeted support and resources



Community Resource Centers

During PSPS outages, we open Community Resources Centers (CRCs) where customers can access resources and up-to-date information.

CRC Locations in the City of Lafayette and the Town of Moraga

SITE NAME	ADDRESS	TYPE
Lafayette Community Center	500 St Marys Rd	Indoor
Our Savior's Lutheran Church	1035 Carol Ln	Outdoor
Moraga Valley Presbyterian Church	10 Moraga Valley Ln	Outdoor

For more information about CRCs and where to find a location in your area leading up to and during a PSPS event, visit pge.com/crc

COVID-19 CONSIDERATIONS

To keep our customers and communities safe, all CRCs reflect appropriate COVID-19 health considerations* and state and county guidelines.

- Facial coverings are required
- Physical distancing and limits on the number of visitors at any time are required
- Temperature checks are administered before entry into indoor facilities
- Surfaces are regularly sanitized

*Currently being revised to align with recent announcements for state and county guidelines.

Community Resource Center Types and Resources



Details/Resources	Indoor	Micro	Mobile
CRC Overview	Indoor site (i.e., Community Center)	Open air tents at outdoor site	Sprinter van and tents at outdoor site
COVID-19 Health and Safety Measures	X	X	X
ADA-Accessible Restroom	X	X	X
Heating and Cooling	X		
Device Charging*	X	X	X
Wi-Fi Service	X	X	X
Bottled Water	X	X	X
Non-Perishable Snacks	X	X	X
“Grab and go” resource offerings**	X	X	X
Tables and Chairs	X	X	X
Bagged Ice	X		
Blankets (quantities limited)	X	X	X
Security Personnel	X	X	X
Cellular Coverage	X	X	X
Customer Service Staff	X	X	X
Wind/Weather-Resistant	X		

* Medical device charging will be prioritized in times of high demand

** Grab and go bag contains device charger, water, snacks and info card.

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Community Based Organization (CBO) Partnerships

Losing power disrupts lives. That is why we are providing targeted resources and support through our partnerships with community-based organizations.

2	Meals on Wheels
	<ul style="list-style-type: none"> ▪ Meals on Wheels Diablo Region ▪ West Coast Contra Meals on Wheels
1	Food Banks
	<ul style="list-style-type: none"> ▪ Food Bank of Contra Costa & Solano
2	Other
	<ul style="list-style-type: none"> ▪ 211 ▪ California Council of the Blind

We are partnering with

5

Community based organizations
in your hometowns



Customer Resources





Self-Generation Incentive Program

Providing customers rebates for battery storage and renewable generation.

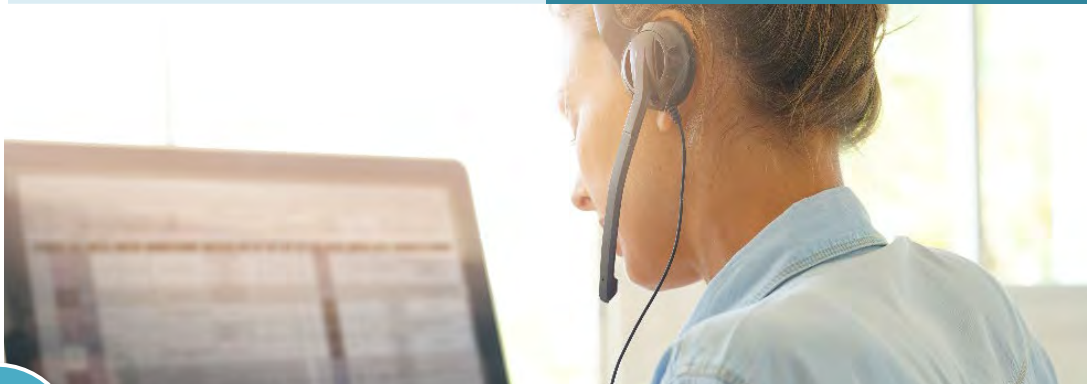
pge.com/batteryincentive



Portable Battery Program

Supporting eligible customers with fully subsidized portable battery solutions.

pge.com/pspsresources



Generator and Battery Rebate* Program

Rebates for eligible customers to purchase a qualifying generator or battery.

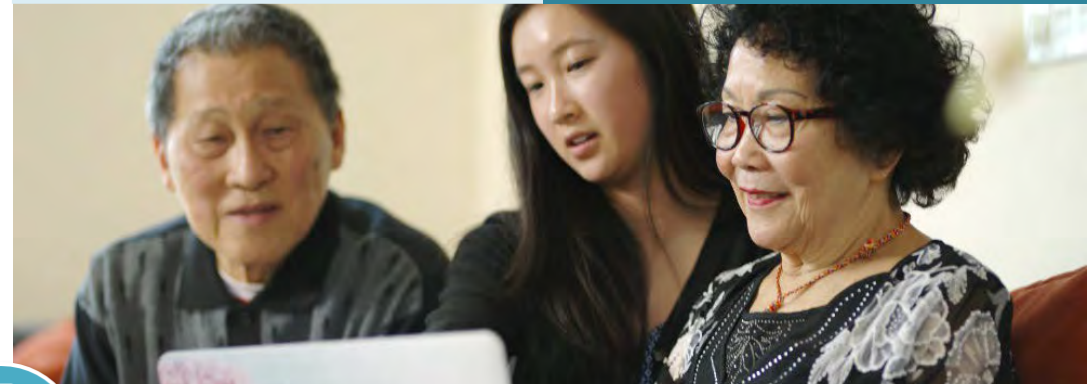
pge.com/backuppowers



Partnership with 211

Twenty-four seven free and confidential support and access resources during periods of critical need via calls or texts to 211.

211.org



**Please note the battery rebate program is not eligible for customers experiencing EPSS.*

Notifications

- Clearer outage notification language
- More accurate estimated times of restoration

Resiliency Programs

- More portable batteries for our most vulnerable customers
- Expanded Generator and Battery Rebate Program
- New Backup Power Meter Support Program

Partnerships

- New partnerships with community-based organizations to share resources and information
- Food resource partnerships with Meals on Wheels and local food banks

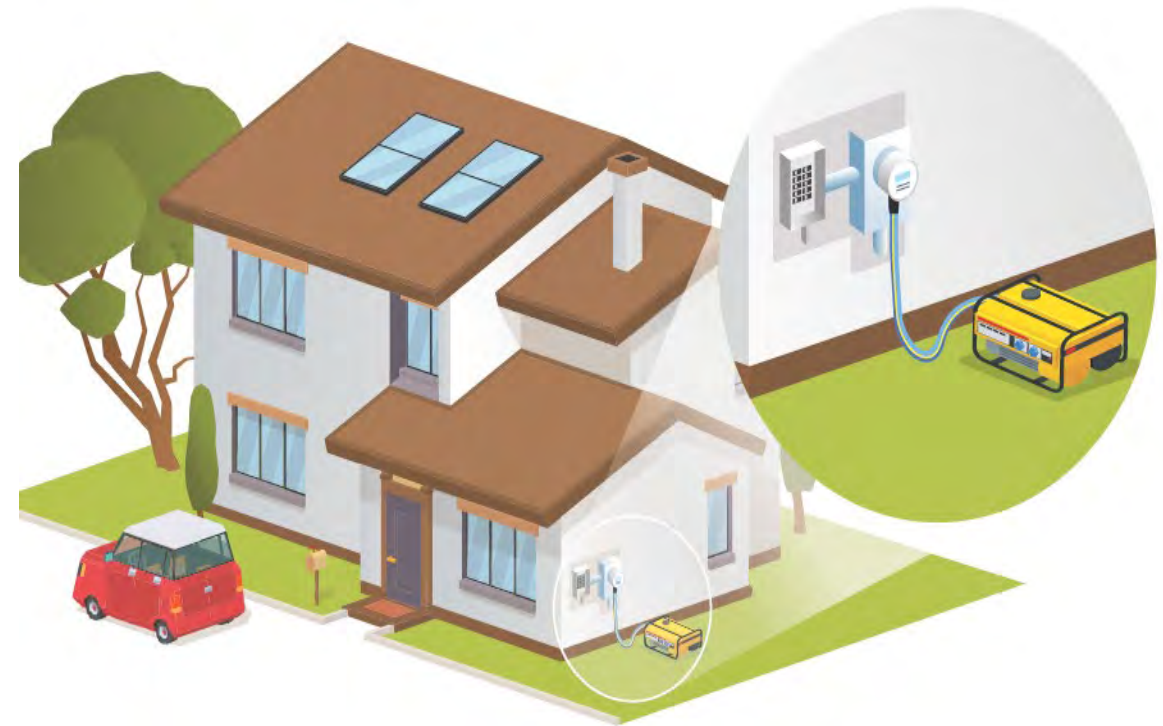


Backup Power Transfer Meter Support

A new meter program to help customers safely connect generator power to their homes during emergency outages.

- **Power is delivered directly to the circuit breaker** which eliminates any power cords running through your home.
- **Be sure to start the generator at a safe location** and program to your home specifics.
- **This program also provides an affordable solution** for customers who are unable to afford solar or backup battery systems.

Learn more at pge.com/transfERMeter



When utility power returns:

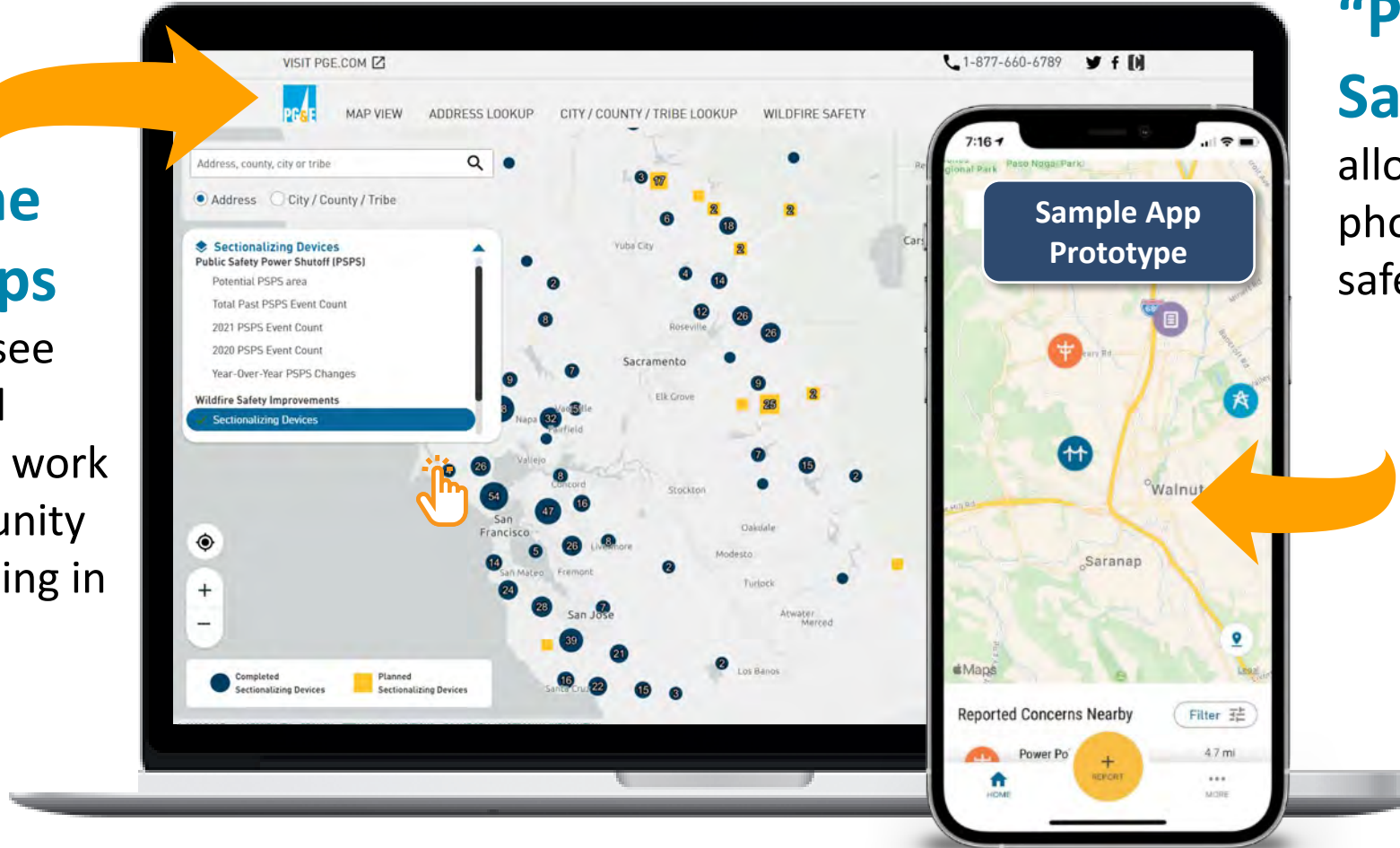
- 1 **Turn off** your generator
- 2 **Adjust your breaker panel** to set all circuit to the “on” position
- 3 **Unplug the cord** from the generator to disconnect from the meter



Personalized Information for Our Customers

New Online Safety Maps

let customers see completed and planned safety work in their community (EPSS info coming in June)



“PG&E Report It” Safety App

allows customers to submit photos of non-emergency safety concerns

- 2 Report It App Submissions in the Town of Moraga
- 7 Report It App Submissions in the City of Lafayette
- 8 Report It App Submissions in the City of Orinda

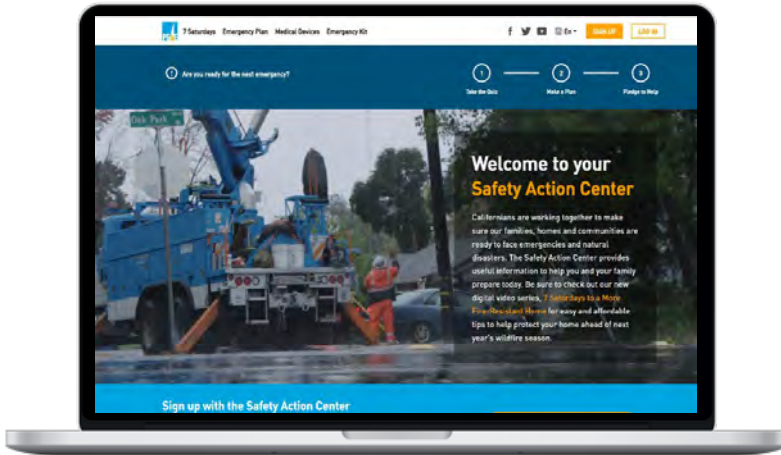
pge.com/customerpspsplanningmaps

pge.com/reportit



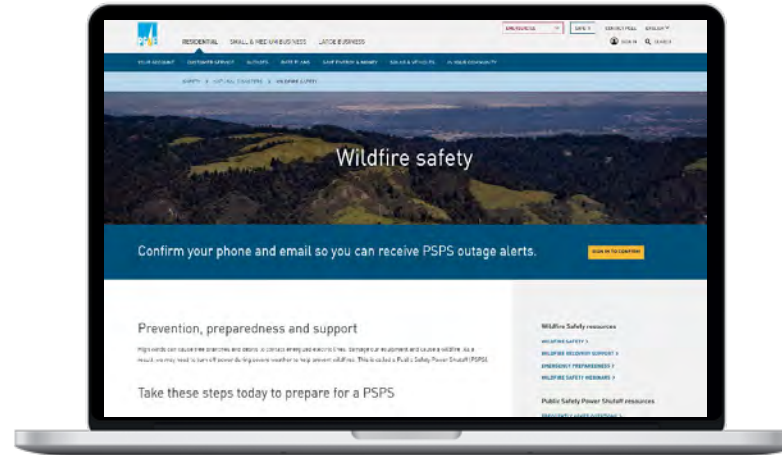
More Information and Tools For Customers to Prepare

Safety Action Center



Prepare for wildfire season
safetyactioncenter.pge.com

Wildfire Safety



Wildfire prevention efforts
pge.com/wildfiresafety

Safety for Kids



Teach kids emergency safety
safetyactioncenter.pge.com

Dedicated wildfire safety contacts

Hotline: 1-866-743-6589 | Email: wildfiresafety@pge.com

Thank You

