

PUBLIC UTILITIES COMMISSION
505 Van Ness Avenue
San Francisco CA 94102-3298



Pacific Gas & Electric Company
ELC (Corp ID 39)
Status of Advice Letter 6898E
As of May 8, 2023

Subject: Information Only: After-Meeting Reports for Semi-Annual Resiliency Workshops Pursuant to Decisions 20-06-017

Division Assigned: Energy

Date Filed: 03-29-2023

Date to Calendar: 04-05-2023

Authorizing Documents: D2006017

Disposition:	Accepted
Effective Date:	03-19-2023

Resolution Required: No

Resolution Number: None

Commission Meeting Date: None

CPUC Contact Information:

edtariffunit@cpuc.ca.gov

AL Certificate Contact Information:

Stuart Rubio
(415) 973-8794
PGETariffs@pge.com

PUBLIC UTILITIES COMMISSION
505 Van Ness Avenue
San Francisco CA 94102-3298



To: Energy Company Filing Advice Letter

From: Energy Division PAL Coordinator

Subject: Your Advice Letter Filing

The Energy Division of the California Public Utilities Commission has processed your recent Advice Letter (AL) filing and is returning an AL status certificate for your records.

The AL status certificate indicates:

- Advice Letter Number
- Name of Filer
- CPUC Corporate ID number of Filer
- Subject of Filing
- Date Filed
- Disposition of Filing (Accepted, Rejected, Withdrawn, etc.)
- Effective Date of Filing
- Other Miscellaneous Information (e.g., Resolution, if applicable, etc.)

The Energy Division has made no changes to your copy of the Advice Letter Filing; please review your Advice Letter Filing with the information contained in the AL status certificate, and update your Advice Letter and tariff records accordingly.

All inquiries to the California Public Utilities Commission on the status of your Advice Letter Filing will be answered by Energy Division staff based on the information contained in the Energy Division's PAL database from which the AL status certificate is generated. If you have any questions on this matter please contact the:

Energy Division's Tariff Unit by e-mail to
edtariffunit@cpuc.ca.gov



Sidney Bob Dietz II
Director
Regulatory Relations

Pacific Gas and Electric Company
77 Beale St., Mail Code B13U
P.O. Box 770000
San Francisco, CA 94177

Fax: 415-973-3582

March 29, 2023

Advice 6898-E

(Pacific Gas and Electric Company ID U 39 E)

Public Utilities Commission of the State of California

Subject: Information Only: After-Meeting Reports for Semi-Annual Resiliency Workshops Pursuant to Decisions 20-06-017

Purpose

Pacific Gas and Electric Company (PG&E) hereby submits this information-only Tier 1 Advice Letter (“AL”) in compliance with the California Public Utilities Commission (“CPUC” or “Commission”) Decision (“D.”) 20-06-017 (“Decision”) Ordering Paragraph (“OP”) 8. The AL demonstrates PG&E’s compliance with Section 4.3.2.1 which requires (1) the investor-owned utilities (“IOUs”) to conduct semi-annual workshops designed to, among other things, help empower local and tribal jurisdictions with a better understanding of grid operations, utility infrastructure, and the nature of weather events alongside public safety power shutoff (“PSPS”) mitigation initiatives and (2) submit on the first day of each calendar quarter an advice letter that compiles all after-meeting reports from the prior quarter, if applicable.

Background

The Commission initiated Rulemaking (“R.”) 19-09-009 to develop a policy framework surrounding the commercialization of microgrids and related resiliency strategies and to implement Senate Bill (SB) 1339 (Stern, 2018).

On December 20, 2019 the assigned Commissioner’s Scoping Memo and Ruling was issued, adopting a scope and schedule for Track 1 of the proceeding. Track 1 addressed deploying resiliency planning in areas that are prone to outage events and wildfires, with the goal of establishing key microgrid and resiliency strategies as soon as possible. Subsequently, on January 21, 2020, Administrative Law Judge Rizzo issued a Ruling with Energy Division staff’s (“Staff’s”) proposal on short-term actions related to microgrids and other resiliency strategies that could be initiated in early 2020 to reduce the impact of PSPS outages or other catastrophic events.

On June 11, 2020, the Commission adopted D.20-06-017, which, among other actions, approved certain Staff proposals for information sharing with local and tribal governments.

This AL addresses the requirements included in Ordering Paragraph 8 of D.20-06-017, which requires:

Pacific Gas and Electric Company (PG&E), Southern California Edison Company (SCE), and San Diego Gas & Electric Company (SDG&E) shall each submit informational filings in this proceeding, no later than five business days after the local and tribal government semi-annual meetings are held. These after-meeting reports shall demonstrate compliance with Section 4.3.2.1 of this decision by showing:

- a) Commission staff were notified at least one (1) month prior to the meeting date;*
- b) Presentations and other materials were distributed to attendees at least twenty-four (24) hours in advance;*
- c) Contact information for meeting attendees, with a copies of a sign-in sheet;*
- d) Workshop agenda;*
- e) Workshop minutes or transcript;*
- f) Any presentations shown at the workshop; and*
- g) Any data formally provided to stakeholders at the workshop*

PG&E submits this information-only Tier 1 Advice Letter in compliance with Ordering Paragraph 8 of D.20-06-017.

Discussion

Pursuant to OP 8 of D.20-06-017, PG&E is attaching to this Advice Letter a compiled set of after-meeting reports for semi-annual resiliency workshops held between March 22, 2023 and March 24, 2023. This includes the following attachments:

- Attachment 1 – Pacific Gas and Electric Company Community Wildfire Safety Program – Regional Working Groups (First Quarter, 2023) Meeting Summary
- Attachment 2 – Agenda and Presentations for the First Quarter 2023, Regional Working Groups (including Resiliency Workshop)

Protests

Anyone wishing to protest this submittal may do so by letter sent electronically via E-mail, no later than April 18, 2023, which is 20 days after the date of this submittal.¹ Protests must be submitted to:

¹ Per CPUC's Rule 1.15, if deadline falls on a Saturday, Sunday, holiday or other day when the Commission offices are closed, the time limit is extended to include the first day thereafter.

CPUC Energy Division
ED Tariff Unit
E-mail: EDTariffUnit@cpuc.ca.gov

The protest shall also be electronically sent to PG&E via E-mail at the address shown below on the same date it is electronically delivered to the Commission:

Sidney Bob Dietz II
Director, Regulatory Relations
c/o Megan Lawson
E-mail: PGETariffs@pge.com

Any person (including individuals, groups, or organizations) may protest or respond to an advice letter (General Order 96-B, Section 7.4). The protest shall contain the following information: specification of the advice letter protested; grounds for the protest; supporting factual information or legal argument; name and e-mail address of the protestant; and statement that the protest was sent to the utility no later than the day on which the protest was submitted to the reviewing Industry Division (General Order 96-B, Section 3.11).

Effective Date

Pursuant to General Order (GO) 96-B, Rule 5.1, and General Rule 7.3.3, and OP 8 of D. 20-06-017, this advice letter is submitted with a Tier 1 designation. PG&E requests that this Tier 1 advice submittal become effective upon date of submittal, which is March 29, 2023.

Notice

In accordance with General Order 96-B, Section IV, a copy of this advice letter is being sent electronically to parties shown on the attached list and the parties on the service list for R.19-09-009. Address changes to the General Order 96-B service list should be directed to PG&E at email address PGETariffs@pge.com. For changes to any other service list, please contact the Commission's Process Office at (415) 703-2021 or at Process_Office@cpuc.ca.gov. Send all electronic approvals to PGETariffs@pge.com. Advice letter submittals can also be accessed electronically at: <http://www.pge.com/tariffs/>.

_____/S/
Sidney Bob Dietz II
Director, Regulatory Relations

Attachments

cc: Service Lists R.19-09-009, R.18-12-005



ADVICE LETTER SUMMARY

ENERGY UTILITY



MUST BE COMPLETED BY UTILITY (Attach additional pages as needed)

Company name/CPUC Utility No.: Pacific Gas and Electric Company (ID U39 E)

Utility type:

- ELC GAS WATER
 PLC HEAT

Contact Person: Stuart Rubio

Phone #: (415) 973-8794

E-mail: PGETariffs@pge.com

E-mail Disposition Notice to: SHR8@pge.com

EXPLANATION OF UTILITY TYPE

ELC = Electric GAS = Gas WATER = Water
 PLC = Pipeline HEAT = Heat

(Date Submitted / Received Stamp by CPUC)

Advice Letter (AL) #: 6898-E

Tier Designation: Info-Only

Subject of AL: Information Only: After-Meeting Reports for Semi-Annual Resiliency Workshops Pursuant to Decisions 20-06-017

Keywords (choose from CPUC listing): Compliance

AL Type: Monthly Quarterly Annual One-Time Other:

If AL submitted in compliance with a Commission order, indicate relevant Decision/Resolution #: D.20-06-017

Does AL replace a withdrawn or rejected AL? If so, identify the prior AL:

Summarize differences between the AL and the prior withdrawn or rejected AL:

Confidential treatment requested? Yes No

If yes, specification of confidential information:

Confidential information will be made available to appropriate parties who execute a nondisclosure agreement. Name and contact information to request nondisclosure agreement/ access to confidential information:

Resolution required? Yes No

Requested effective date: 3/29/23

No. of tariff sheets: N/A

Estimated system annual revenue effect (%): N/A

Estimated system average rate effect (%): N/A

When rates are affected by AL, include attachment in AL showing average rate effects on customer classes (residential, small commercial, large C/I, agricultural, lighting).

Tariff schedules affected: N/A

Service affected and changes proposed¹: N/A

Pending advice letters that revise the same tariff sheets: N/A

¹Discuss in AL if more space is needed.

Protests and correspondence regarding this AL are to be sent via email and are due no later than 20 days after the date of this submittal, unless otherwise authorized by the Commission, and shall be sent to:

California Public Utilities Commission
Energy Division Tariff Unit Email:
EDTariffUnit@cpuc.ca.gov

Contact Name: Sidnev Bob Dietz II. c/o Megan Lawson
Title: Director, Regulatory Relations
Utility/Entity Name: Pacific Gas and Electric Company

Telephone (xxx) xxx-xxxx: (415)973-2093
Facsimile (xxx) xxx-xxxx: (415)973-3582
Email: PGETariffs@pge.com

Contact Name:
Title:
Utility/Entity Name:

Telephone (xxx) xxx-xxxx:
Facsimile (xxx) xxx-xxxx:
Email:

CPUC
Energy Division Tariff Unit
505 Van Ness Avenue
San Francisco, CA 94102

Clear Form

Attachment 1

**Pacific Gas and Electric Company Community Wildfire
Safety Program – Regional Working Groups
(First Quarter, 2023)
Meeting Summary**



March 29, 2023

**Pacific Gas and Electric Company
Community Wildfire Safety Program – Regional Working Groups
(First Quarter, 2023)
Meeting Summary**

Background

From March 22-24, Pacific Gas and Electric Company (PG&E) hosted the first quarterly Regional Working Group meetings of 2023 with key stakeholders in each of the five regions of PG&E's service area: Central Valley, North Valley/Sierra, North Coast, South Bay/Central Coast and Bay Area. These meetings provided participants and PG&E a forum to provide updates regarding wildfire safety, Enhanced Powerline Safety Settings (EPSS), microgrids, other resiliency efforts, as well as safety and reliability trends.

The 2023 first quarter Regional Working Group meetings addressed the topics required under the California Public Utilities Commission's (CPUC) PSPS Phase II Decision¹: lessons learned and feedback from prior PSPS events, communication strategies and information sharing and strategies for supporting people and communities with Access and Functional Needs (AFN).

As we have done in past meetings, we also addressed the topics required under the California Public Utilities Commission's (CPUC) Microgrids and Resiliency Strategies Rulemaking (Microgrid OIR)² which directs utilities to conduct semi-annual workshops to share valuable information and take a collaborative approach to planning grid resiliency measures responsive to local needs. The Microgrid OIR also expanded the meeting scope to include grid resiliency and hardening efforts, data on resilience progress in each region and an adjusted invitee list.

PG&E representatives participated in the meetings to answer questions and engage with meeting participants. Working group participants included representatives from tribal and local government entities; small multi-jurisdictional electric utilities; publicly owned electric utilities; communications and water service providers; public safety partners; AFN community-based organizations (CBO) and agencies (e.g., -members of local Independent Living Centers) and CPUC staff. Meetings were structured to provide attendees with key information and metrics on the above topics. Participants were encouraged to provide feedback, engage and collaborate with each other.

¹ D.20-05-051

² D.20-06-017

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

Timing and Facilitation

The Regional Working Group meetings were held from March 22-24 and moderated by a PG&E Senior Manager assigned as a lead, with support from Local Government Affairs representatives, Tribal Liaisons, Vegetation Management Subject Matter Experts, and Public Safety Specialists from each respective region. PG&E's Regional Vice Presidents also participated in two of the five meetings (Central Valley Region and Bay Area Region).

Attendance

The Regional Working Group meetings were attended by an average of 21 participants per session this quarter.

Sample Comments Received

The 2023 first quarter Regional Working Group meetings were held virtually on Microsoft Teams, which allowed attendees to participate verbally and through the chat feature and granted access to live captions for participants with access and functional needs. All questions and comments were addressed in real-time and below are some participant comments captured during the five working groups:

- *“Overall, I'd like to THANK PG&E for the education to the public regarding EPSS in 2022 over 2021. In particular the AFN community. This education/awareness has helped with individuals being prepared for outages during these events as well as any blue-sky day outage, THANK YOU!”*
- *“I wanted to thank Aaron Johnson and all the PG&E crews for their incredible work during this unprecedented series of storms. We are all in this together. We appreciate the partnership!”*
- *“Thank you for the update. I appreciate the information and the opportunity to provide feedback.”*

Continued Engagement

The feedback gathered during each Regional Working Group and subsequent participant surveys help to further inform our plans and local solutions to reduce PSPS impacts and wildfire risk. Additionally, we are continuing to engage with key stakeholders. For reference, detailed follow-up items captured during each meeting, along with meeting participant lists, are in the meeting summary forms located in the Appendix. We are also collecting survey data but are not able to include it in this summary due to the expedited timing required by the Microgrid OIR.

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

Appendix



**Community Wildfire Safety Program
Regional Working Group Summary Sheet**

MEETING INFORMATION		
Region: Central Valley	Quarter: 2023 Q1	Date: Wednesday, March 22

INFORMATION REQUESTS & FOLLOW-UP ITEMS			
Description	Owner	Recipient	Status
Requested access to point of contact for coordination with Vegetation Management team when coordinating with challenging customers	G. Race	Josh Archibeque, Comcast Cable	Complete
Inquiry on processes and procedures for coordination on managing downed powerlines and joint utility pole work	G. Race	Josh Archibeque, Comcast Cable	Complete

FEEDBACK & LESSONS LEARNED	
Section	Summary
Wildfire Mitigation Plan	<ul style="list-style-type: none"> J. Archibeque inquired on local contact collaboration and ways to partner with PG&E around pole work. Participant was advised to contact PG&E’s Public Safety Specialist team.
Community Wildfire Safety Program	<ul style="list-style-type: none"> A. McDonald commented “Overall, I'd like to THANK PG&E for the education to the public regarding EPSS in 2022 over 2021. In particular the AFN community. This education/awareness has helped with individuals being prepared for outages during these events as well as any blue-sky day outage, THANK YOU!”
Local Resilience Efforts	<ul style="list-style-type: none"> N/A
Open Discussion and Q&A	<ul style="list-style-type: none"> J. Archibeque inquired on vegetation management and PG&E’s process for accessing backyards of challenging customers. Comcast would like to partner on downed lines, pole replacement, and transfers. <ul style="list-style-type: none"> Discussion followed explaining the process for pre-inspection and how customers are contacted. Participants were informed that education is key to customers understanding the importance of vegetation management work. Additional coordination with PG&E’s construction team may be necessary and follow-up will be conducted.

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

MEETING PARTICIPANTS		
Name	Title	Agency
Aaron McDonald	Emergency Services & Safety Specialist	Valley Mountain Regional Center
Annette Rogers	Emergency Coordinator	Central Valley Regional Center
Anthony Noll	Program Manager	California Public Utilities Commission
Brandon Purcell	Lieutenant	Fresno County Sheriff's Office
Cindy Xuan Chen		California Public Utilities Commission
Darrell D Johnson	Technical Operations Supervisor	Comcast Cable
Daryl Hayes	Management, Quality Assurance	Frontier Communications
Frank Leschinsky	Public Sector Manager	Volcano Telephone Company
Hai Normen		Resources for Independence Central Valley
John Archibeque	Director of Compliance	Comcast Cable
Liliana Altamirano	Community Service Director	Disability Resources Agency for Independent Living
Mabel Wu	Analyst	California Public Utilities Commission
Reina Amo	Operations Manager	Pilot Energy
Robert Wells	Planning & Development	Tuolumne Me-Wuk Tribal Council
Ronald DeMayo		California Public Utilities Commission
Ryan Taylor	Operations Director	Energy Data Management Services, LLC

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



**Community Wildfire Safety Program
Regional Working Group Summary Sheet**

MEETING INFORMATION		
Region: North Valley/Sierra	Quarter: 2023 Q1	Date: Wednesday, March 22

INFORMATION REQUESTS & FOLLOW-UP ITEMS			
Description	Owner	Recipient	Status
D. Johnson inquired about coordination between PG&E’s vegetation management program with Comcast	R. Willis	Darrell Johnson, Comcast Cable	In Progress
A. Retallack inquired about backup power options for customers with well water affected by outages	E. Gonzales	Alexia Retallack, Pioneer Community Energy	In Progress
A. Retallack inquired whether the remote grids program is voluntary or mandatory	E. Gonzales	Alexia Retallack, Pioneer Community Energy	In Progress
D. Corcoran requested coordination with PG&E on planned system improvements and backup power to better allocate their resources	E. Alvarado	Dan Corcoran, El Dorado Irrigation District	In Progress

FEEDBACK & LESSONS LEARNED	
Section	Summary
Wildfire Mitigation Plan	<ul style="list-style-type: none"> D. Corcoran expressed gratitude for PG&E’s support of a critical water facility following the winter storms. Participant noted that PG&E responded immediately on a weekend, and that the El Dorado Irrigation District was able to maintain water service for the community.
Community Wildfire Safety Program	<ul style="list-style-type: none"> D. Johnson inquired if PG&E had considered coordinating a co-op vegetation management program for joint pole work.
Local Resilience Efforts	<ul style="list-style-type: none"> S. Regli inquired whether remote grids are hosted on PG&E property or customer property. Discussion followed and the topic was discussed on the call.
Open Discussion and Q&A	<ul style="list-style-type: none"> N/A

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

MEETING PARTICIPANTS		
Name	Title	Agency
Aaron Sanchez		
Alexia Retallack	Communications, and Customer Relations Specialist	Pioneer Community Energy
Chris Lee		California Public Utilities Commission
Cindy Xuan Chen		California Public Utilities Commission
Dan Corcoran	Operations Director	El Dorado Irrigation District
Darrell D Johnson	Technical Operations Supervisor	Comcast Cable
Desmond Lew	Senior Utilities Engineer	California Public Utilities Commission
Jake Carter	Electric Utility Director	City of Gridley
James D. Sarmento	Executive Director of Cultural Resources	Shingle Springs Band of Miwok Indians
Jeremy Shepard	Director Of Technical Services	Placer County Water Agency
Jessica Tse	Senior Analyst - Grid Resiliency	California Public Utilities Commission
Joshua Jimerfield	Deputy Administrative Officer	Butte County Office of Emergency Management
Kevin Silvas		Nevada County Office of Emergency Services
Kristin Weivoda	Chief of Emergency Services	Yolo County Office of Emergency Services
Maria Marino	Management and Facilities Coordinator	North Bay Regional Center
Matthew Hawkins	Emergency Manager	Sac County Office of Emergency Services
Meagan Montalto		Placer County
Randy Howard	General Manager	North California Power Agency
Rebecca Boyles	Director of Customer Care and Marketing	Valley Clean Energy
Richard A Saldivar	Project Manager	American Water
Ronald DeMayo		California Public Utilities Commission
Sally Regli	Program Project Manager	Redwood Coast Energy Authority
Theresa Laughlin	Director	Pit River Tribe Office of Emergency Services
Tracy Crane	Wastewater and Recycled Water Manager	El Dorado Irrigation District

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**Community Wildfire Safety Program
Regional Working Group Summary Sheet**

MEETING INFORMATION		
Region: North Coast	Quarter: 2023 Q1	Date: Thursday, March 23

INFORMATION REQUESTS & FOLLOW-UP ITEMS			
Description	Owner	Recipient	Status
Follow up on tribal notifications for storm and non-PSPS outages	R. Franklin	Sorhna Li, Scotts Valley Band of Pomo Indians	Complete
Request for copy of WMP once submitted	R. Franklin	Tim Campbell, Graton Rancheria Tribe	In Process
Request for an update on project work involving the transmission towers along Highway 37	A. Sharp, R. Franklin	Tim Campbell, Graton Rancheria Tribe	In Process
Inquired if there will be back up generators installed in Lake County	J. Metcalf, M. Rivera, A. Sharp	Michelle Dibble, Lake County	In Process
Follow up regarding Enhanced Powerline Safety Settings outages, average time of restoration and customers impacted	A. Sharp	Erica Torgerson, Sonoma Clean Power	Complete
Inquiry if PG&E is considering Community Resource Centers for customers experiencing prolonged outages	R. Franklin	Tim Campbell, Graton Rancheria Tribe	Complete
Request to borrow a portable battery for an upcoming community event	R. Franklin	Tim Campbell, Graton Rancheria Tribe	In Progress
Follow up if there will be funds set aside for tribes in the Microgrid Incentive Program	R. Franklin	Sorhna Li, Scotts Valley Band of Pomo Indians	Complete

FEEDBACK & LESSONS LEARNED	
Section	Summary
Wildfire Mitigation Plan	<ul style="list-style-type: none"> S. Li mentioned losing power at night without notification. Discussion followed to explain that outage notifications for non-PSPS outages are not distributed overnight.

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	<ul style="list-style-type: none"> • C. Saroch inquired if natural gas was cut in Novato due to a mudslide caused by recent winter storms. Discussion followed to explain that PG&E did not anticipate a disruption to gas service.
Community Wildfire Safety Program	<ul style="list-style-type: none"> • E. Torgerson inquired about outages on Enhanced Powerline Safety Setting enabled circuits in the region. Inquiry was addressed on the call and PG&E elaborated on EPSS. • J. Parmelee inquired if PG&E has a measurement of customer impacts on EPSS-capable powerlines. Discussion followed and the question was addressed in the meeting. • S. Li inquired if customer resources presentation slide can be shared with customers. PG&E confirmed that the customer resources can be shared. • T. Campbell commented that PG&E is busier than ever with winter storm response. • A comment was received from J. DuVall that Sonoma County will be asking their PG&E Public Safety Specialist for resources when they have prolonged weather outages. • C. Saroch inquired about resources for customers with medical needs who may need financial assistance. Participants were provided information on the CARE and Medical Baseline Programs.
Local Resilience Efforts	<ul style="list-style-type: none"> • S. Li inquired if there will be funds set aside for tribes in the Microgrid Incentive Program.
Open Discussion and Q&A	<ul style="list-style-type: none"> • N/A

MEETING PARTICIPANTS		
Name	Title	Agency
Alisa Lembke		Valley Clean Energy
Alyson Feldmeir	Disability Disaster Access and Resources Manager	California Foundation for Independent Living Centers
Anthony Noll	Program Manager	California Public Utilities Commission
Brandi Bluel	Executive Director	Resources for Independent Living
Carolyn Nava	Coordinador	Disability Action Center
Chris Saroch	Community Resiliency Navigator	Marin Center for Independent Living
Christina Lara		Coyote Valley Environmental Protection
Crystal Markytan		
Darrell Johnson	Technical Operations Supervisor	Comcast Cable
Daryl Hayes	Management	Frontier Communications
Eddie Morgan		
Edwin Schmitt	Public Utilities Research Analyst	California Public Utilities Commission

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

Erica Torgerson	Director of Customer Service	Sonoma Clean Power
Garrett James	Emergency Services Specialist	Mendocino County
Hector Corral	Local Government & Community Liaison	California Public Utilities Commission
Hope Christman	Local Government Liaison	California Public Utilities Commission
Jana Kopyciok-Lande	Strategic Policy Manager	Marin Clean Energy
Jeff DuVall	Deputy Director	Sonoma County Department of Emergency Management
John Archibeque	Director of Compliance and Continuity	Comcast
Justine Parmelee	Manager of Internal Operations	Marin Clean Energy
Karen Flores	Customer Care Specialist	Sonoma Clean Power
Kelsey Carreiro	Emergency Manager	City of Healdsburg
Luke Lundberg		Optimum
Maria Marino	Management and Facilities Coordinator	North Bay Regional Center
Michele Dibble		Lake County
Philip Simi	Manager	Trinity County Office of Emergency Services
Sergio Arreguin		Coyote Valley Band of Pomo Indians
Shawn Swatosh	Director Area Operations	Mediacom Communications
Sorhna Li	Government Liaison	Scotts Valley Band of Pomo Indians
Tim Campbell	Grants Administrator	Graton Rancheria Tribe
Vickey Macias	Tribal Treasurer	Cloverdale Rancheria of Pomo Indians of California

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**Community Wildfire Safety Program
Regional Working Group Summary Sheet**

MEETING INFORMATION		
Region: South Bay/Central Coast	Quarter: 2023 Q1	Date: Thursday, March 23

INFORMATION REQUESTS & FOLLOW-UP ITEMS			
Description	Owner	Recipient	Status
Follow up if there are any updates related to system hardening on Hicks 1116 and 1117 lines in Santa Clara County	M. Schneiderman	Dana Reed, Santa Clara County Office of Emergency Services	Ongoing

FEEDBACK & LESSONS LEARNED	
Section	Summary
Wildfire Mitigation Plan	<ul style="list-style-type: none"> D. Reed inquired if there are any updates to system hardening of circuits, specifically for tree wire on the Hicks 1116 and 1117 lines. PG&E's Vegetation management team and Regional Senior Manager discussed in the meeting. PG&E is working with the County on an ongoing basis.
Community Wildfire Safety Program	<ul style="list-style-type: none"> D. Reed commented "Special thank you to Kevin Conant and the PG&E team for providing Go-Bags to be distributed to residents impacted by extended outages during this series of storms."
Local Resilience Efforts	<ul style="list-style-type: none"> N/A
Open Discussion and Q&A	<ul style="list-style-type: none"> D. Reed noted the Santa Clara County Office of Emergency Services is interested in looking for sites for backup power, specifically for 911 emergency (FirstNet) telecommunication sites. Discussion followed and PG&E noted that the company continues to evaluate these opportunities.

MEETING PARTICIPANTS		
Name	Title	Agency
Dana Reed	Director	Santa Clara Office of Emergency Management
Daniel Moskowitz	Lieutenant	City of Sunnyvale
Darrell Johnson	Technical Operations Supervisor	Comcast Cable
George Nunez	Fire Captain	CALFIRE

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

Hope Christman	Local Government Liaison	California Public Utilities Commission
Jasdeep Lally		California Public Utilities Commission
Kathleen Hughes		
Myisha Aban		Tri-Counties Regional Center
Norma Amaro	Public Safety Specialist	City of Sunnyvale
Robert Cascone	Paramedic Supervisor	Cupertino Office of Emergency Services
Vu Huynh		Silicon Valley Power

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



**Community Wildfire Safety Program
Regional Working Group Summary Sheet**

MEETING INFORMATION		
Region: Bay Area	Quarter: 2023 Q1	Date: Friday, March 24

INFORMATION REQUESTS & FOLLOW-UP ITEMS			
Description	Owner	Recipient	Status
Request to be added to any outreach lists for public outreach meetings	Y. Thao	Kim Springer, City/County Association of Governments of San Mateo County	In Progress
Request to be added to any outreach lists for public outreach meetings	Y. Thao, D. Gutierrez	Leslie Brown, Peninsula Clean Energy	In Progress
Follow up on microgrids programs and if microgrid programs shared are new or existing	J. Metcalf	Kim Springer, City/County Association of Governments of San Mateo County	In Progress

FEEDBACK & LESSONS LEARNED	
Section	Summary
Wildfire Mitigation Plan	<ul style="list-style-type: none"> R. Halog inquired whether there is discussion about undergrounding lines for winter storms outside of wildfire prevention efforts. A. Johnson discussed PG&E's undergrounding plan and explained that undergrounding efforts are prioritized based on highest wildfire risk areas. K. Springer commented that customers often lack understanding of the extensive effort required to respond to winter storms. Discussion followed and PG&E noted the ongoing customer webinars and Town Hall meetings that PG&E hosts. L. Brown noted that customers in their area are concerned about Service Planning timelines for upgrades to transformer panels, solar battery, and new service. A. Johnson discussed PG&E's process for prioritizing work and how PG&E is working to shorten timelines.
Key Wildfire Safety Objectives This Year	<ul style="list-style-type: none"> Comment received from A. Delay: "I wanted to thank Aaron Johnson and all the PG&E crews for their incredible work during this unprecedented

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

	series of storms. We are all in this together. We appreciate the partnership!”
Local Resilience Efforts	<ul style="list-style-type: none"> N/A
Open Discussion and Q&A	<ul style="list-style-type: none"> Comment received from R. Halog: “Thank you for the update. I appreciate the information and the opportunity to provide feedback.”

MEETING PARTICIPANTS		
Name	Title	Agency
Alejandra Hacker	Human Resources Coordinator	Community Resources for Independent Living
Ari Delay	Fire Chief	San Bruno Fire Department
Ed Barberini		
Ed Pike		California Public Utilities Commission
Hope Christman		California Public Utilities Commission
Jonelyn Whales	Senior Emergency Planning Coordinator	Contra Costa County Office of Emergency Services
Kim Springer	Transportation Systems Coordinator	City/County Association Governments of San Mateo County
Larry Mares	Manager Emergency Operations and Planning	San Francisco International Airport
Leslie Brown	Director Of Account Services	Peninsula Clean Energy
Michael Galvan	Executive Director	Community Resources for Independent Living
Mihail Cucu	Wildfire Safety Enforcement	California Public Utilities Commission
Nacho Mendoza	Management Program Analyst	Diablo Water District
Nelson Alegria	Emergency Preparedness Coordinator	Pittsburg Unified School District
Roderick Sims	Senior Rail Safety Officer	SamTrans/Caltrain
Ron Halog	Emergency Preparedness Coordinator	Independent Living Resources Solano and Contra Costa Counties
Ronald DeMayo		California Public Utilities Commission
Ryan Reynolds		San Mateo County Department of Emergency Management
Shawn Thomas	Senior Director of Technical Operations	Astound West
Steven Klaiber		California Public Utilities Commission
Will Dundon	Senior Utilities Engineer	California Public Utilities Commission

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

Attachment 2

**Agenda and Presentations for the First Quarter 2023,
Regional Working Groups
(including Resiliency Workshop)**



Q1 Regional Working Group – March 2023

Agenda

Topic	Subtopics	Duration
Introductions and Safety	<ul style="list-style-type: none">▪ Regional Highlights	15 min
Wildfire Mitigation Plan	<ul style="list-style-type: none">▪ Upcoming Milestones	5 min
Community Wildfire Safety Program	<ul style="list-style-type: none">▪ Wildfire Safety Objectives in 2023<ul style="list-style-type: none">– Progress to Date– Overhead System Hardening– Undergrounding– Vegetation Management▪ Wildfire Safety Outages<ul style="list-style-type: none">– Enhanced Powerline Safety Settings (EPSS)– PSPS Notification Improvements– Customer Resources	40 min
Local Resilience Efforts	<ul style="list-style-type: none">▪ Microgrids, Remote Grids and Backup Generation	20 min
Open Discussion/Q&A	<ul style="list-style-type: none">▪ Feedback▪ Requests for Discussion Topics	10 min

Community Wildfire Safety Program

Q1 2023 REGIONAL WORKING GROUP

Central Valley Region

March 22, 2023



Virtual Sign In Reminder

Please “sign in” using the chat function and provide your **name, organization and email**.



Safety

Preparedness Tips

Always be prepared in case of a natural disaster or an emergency

Build a disaster supply kit for you, your family or your business

Be sure to include food, water, medication, flashlights, first aid kits, a list of emergency contacts and more

Visit safetyactioncenter.pge.com to help prepare for an emergency





Agenda

- 1 Wildfire Mitigation Plan

- 2 Community Wildfire Safety Program

- 3 Local Resilience Efforts

- 4 Open Discussion and Q&A

PG&E SPEAKERS

Joshua Simes

Vice President, Central Valley Region

Tracy Mello

Regional Senior Manager

Nathan Alonzo

Local Government Affairs

Todd Crawford

Public Safety Specialist

Reno Franklin

Tribal Liaison

Amanda Carrell

Vegetation Management



An Update on Your Winter Storm Response



Supporting those impacted by flooding at the Merced County Fairgrounds and at Planada Elementary School

An Update on Your Winter Storm Response



Deploying sandbags throughout Merced County to prevent flooding

An Update on Your Winter Storm Response



Central Valley crews restoring gas and electric service

Wildfire Mitigation Plan



We will submit our annual Wildfire Mitigation Plan to California's Office of Energy and Infrastructure Safety (OEIS).

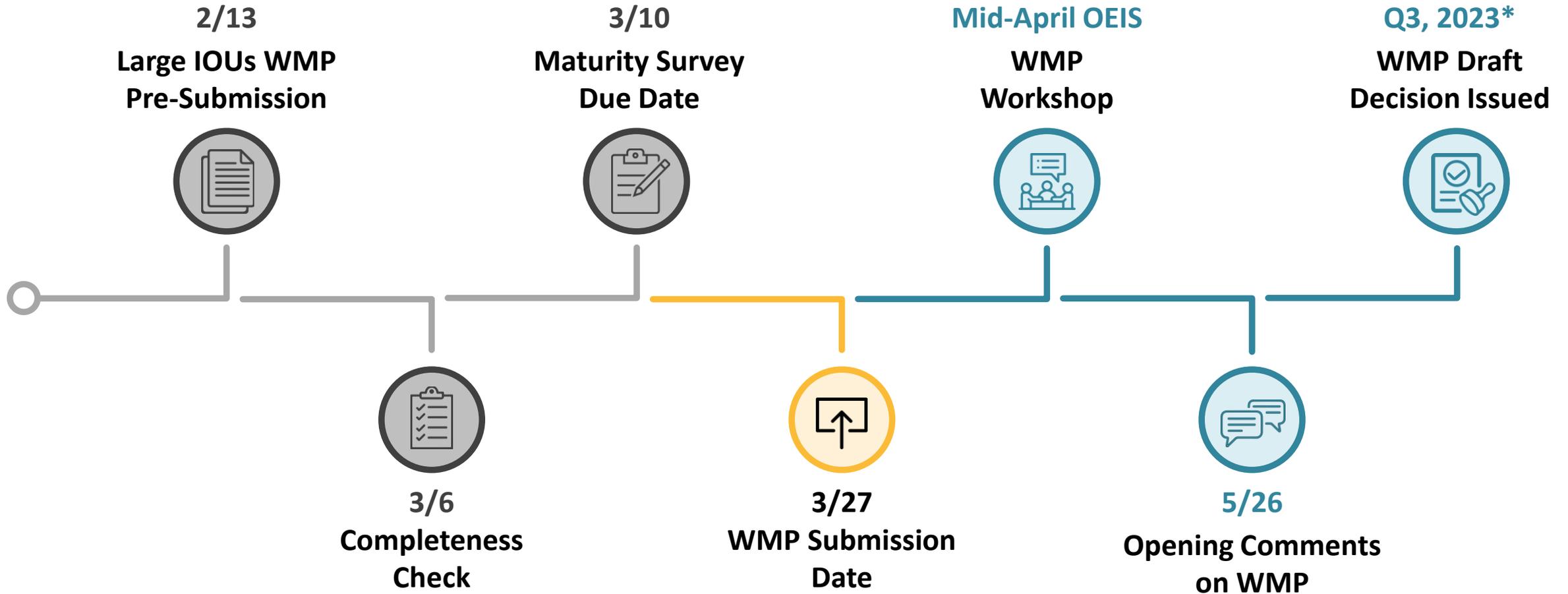
The Wildfire Mitigation Plan:

- ✓ Outlines our strategy for mitigating wildfire risk
- ✓ Aligns strategic goals of engaging with our stakeholders
- ✓ Provides updates to key wildfire mitigation programs
- ✓ Fulfills regulatory requirements



i To learn more, visit pge.com/wildfiremitigationplan

Important 2023 Wildfire Mitigation Plan Dates



Community Wildfire Safety Program



Wildfire Safety Objectives in the Central Valley Region



Key Wildfire Safety Objectives This Year

Prevent Wildfires



Reduce Customer Impacts



Provide Better Resources





Multiple Layers of Safety

Our work since 2017 has **eliminated 90% of wildfire risk from our system** through:

Ongoing Safety Efforts

Vegetation Management

System Inspections

Long-Term System Improvements

Undergrounding Powerlines

Overhead System Hardening

Safety Programs and Technology

Public Safety Power Shutoff

Enhanced Powerline Safety Settings

Situational Awareness

High-Definition Cameras

Weather Stations

These efforts add additional layers of protection on top of our system and technology improvements.

PG&E is strengthening its electric system by hardening powerlines. This includes undergrounding powerlines, as well as replacing overhead lines and equipment with sturdier materials.

Our overhead hardening includes:

- Stronger poles
- Larger crossarms
- Covered powerlines

Overhead hardening benefits include:

- Mitigating the risk of wildfires
- Enhancing long-term safety
- Improving reliability

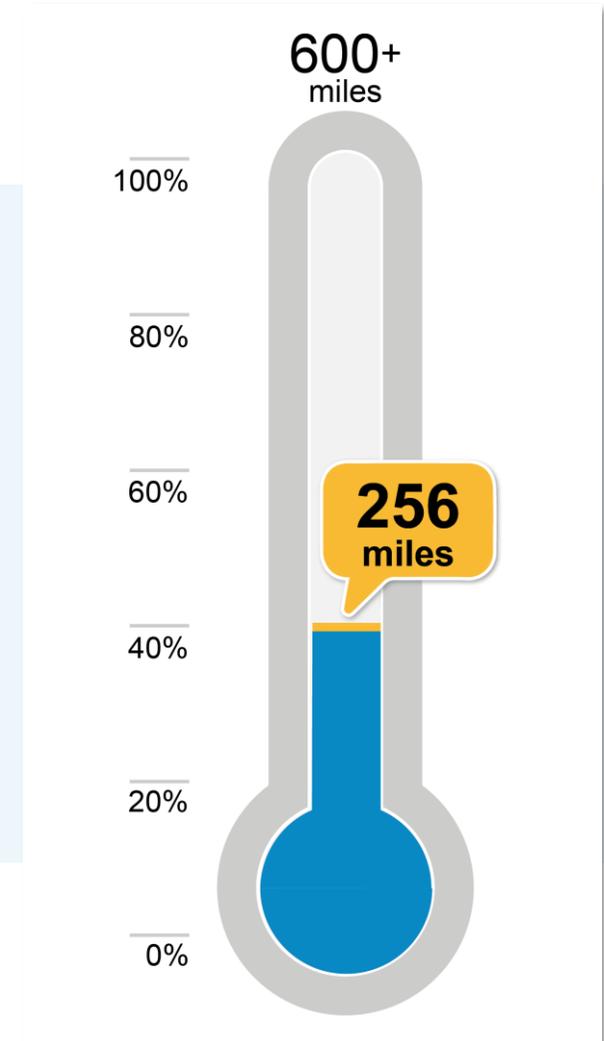


In 2022, PG&E completed **54 miles** of overhead hardening and line removal in the **Central Valley Region.**

Since the program's announcement in 2021, **we have undergrounded 256 miles**, with 180 of those completed in 2022.



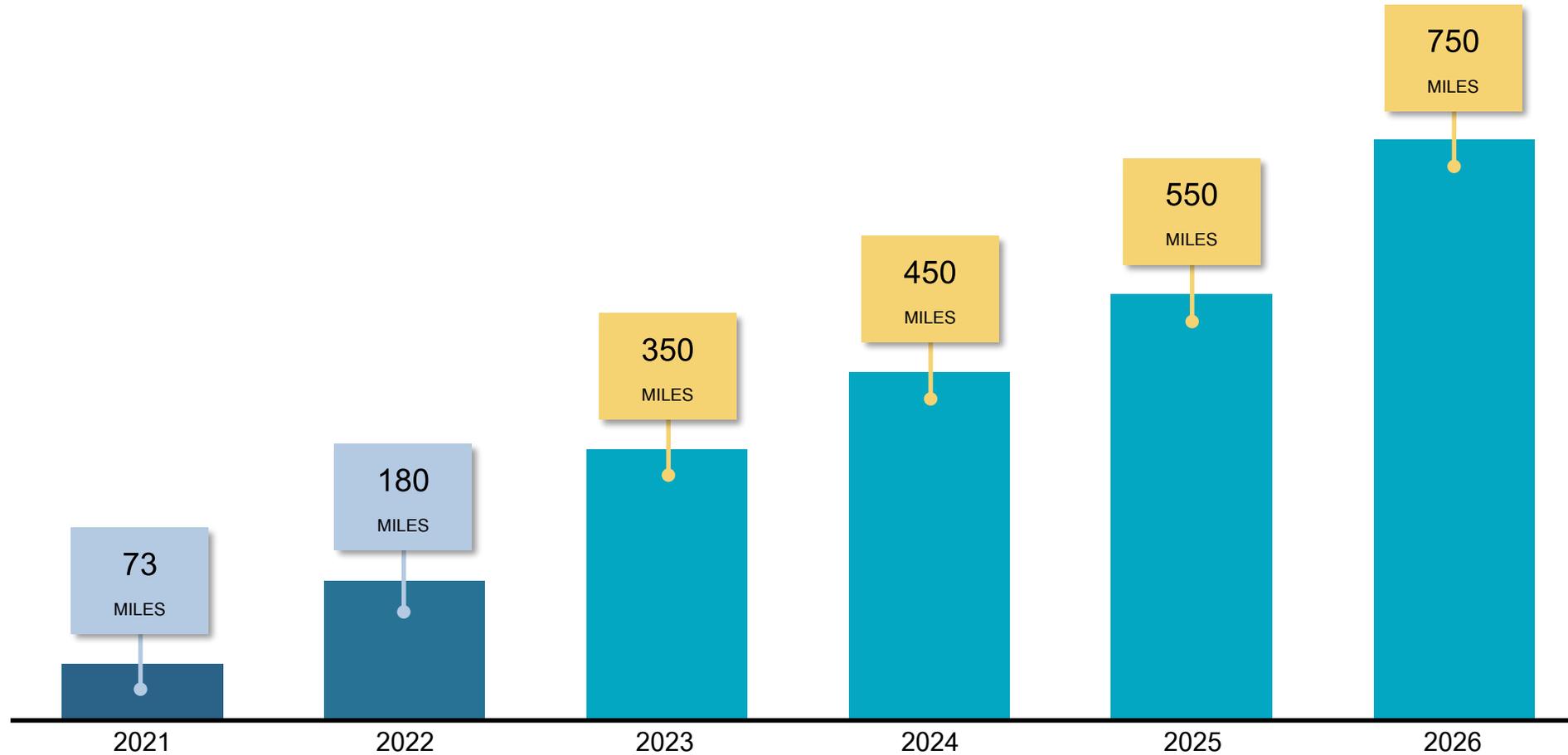
We are on target to underground 600+ miles by the end 2023.



*Data as of XX/XX



Ramping Up Our Undergrounding Efforts to Meet Our Targets



*Pending California Public Utilities Commission (CPUC) and California Office of Energy Infrastructure Safety (OEIS) approval.

Identifying Undergrounding Projects to Reduce Wildfire Risk

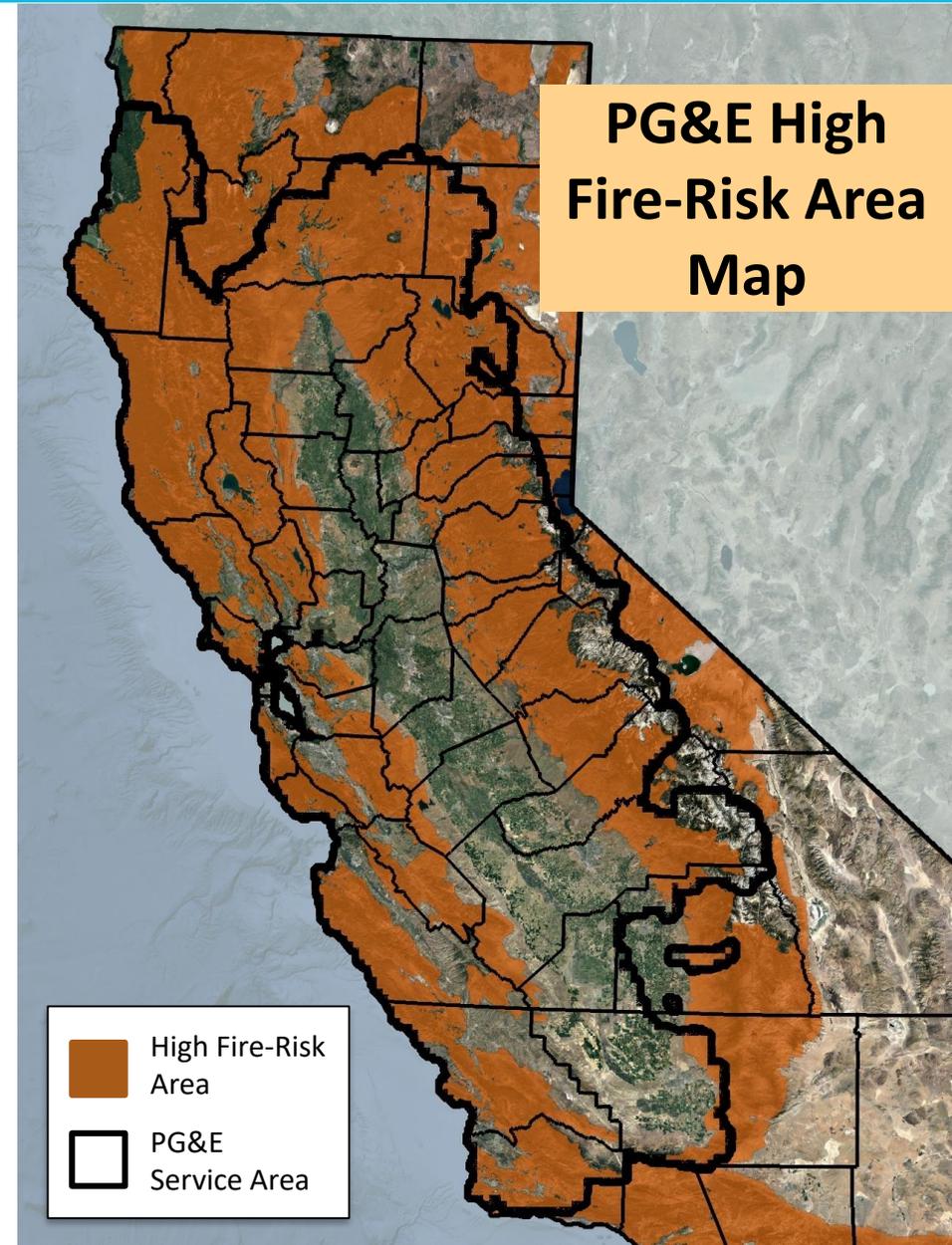
We are prioritizing undergrounding in areas where we have the greatest impact on reducing wildfire risk.

We use advanced machine-learning based risk modeling and partner with wildfire analysis providers. This modeling considers:

- Historic ignitions
- Vegetation
- Topography
- Age and condition of the electrical equipment

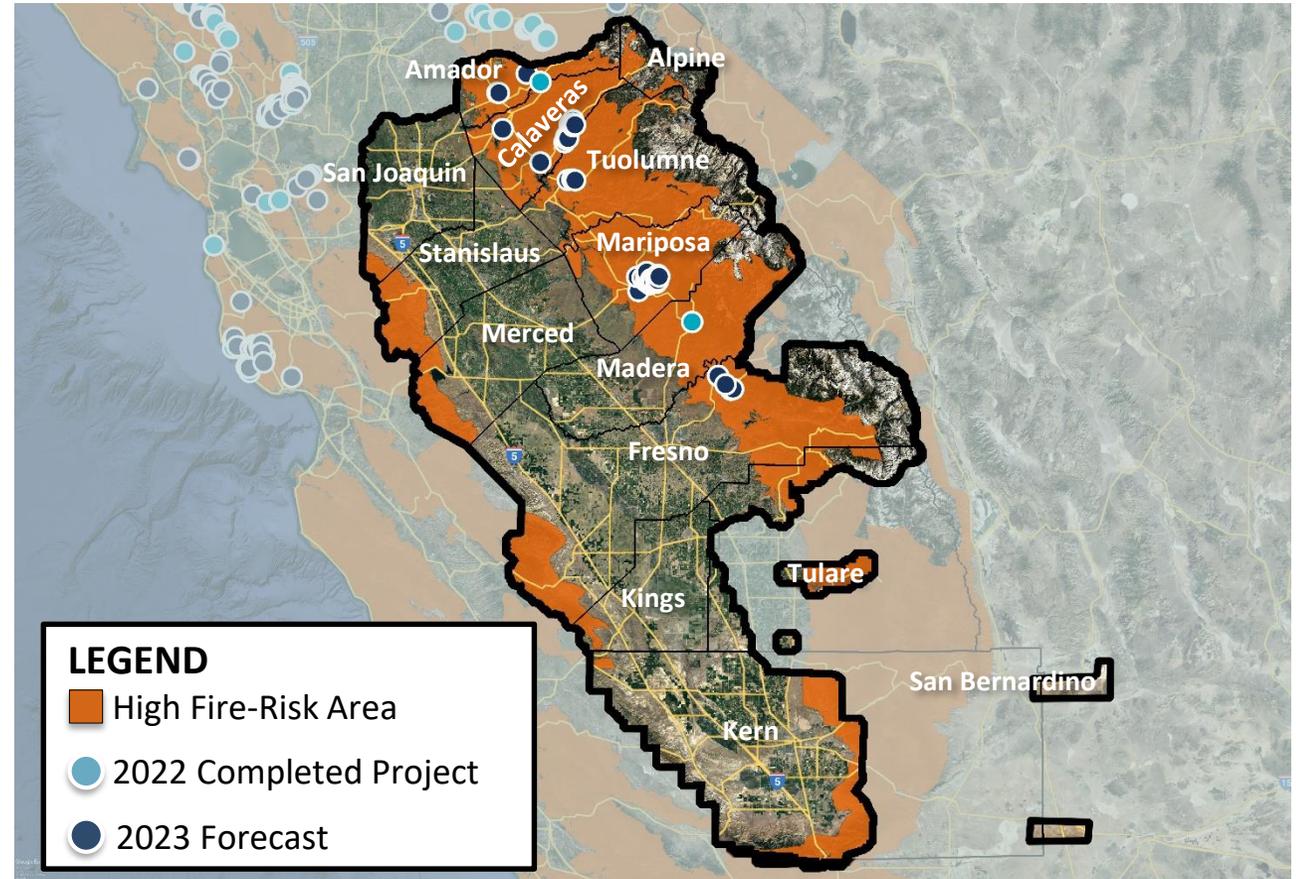
We also consider the probability of an ignition and consequences if a wildfire were to start in a specific location.

To learn more, visit [pge.com/undergrounding](https://www.pge.com/undergrounding)



Central Valley 2022-2023 Undergrounding

Central Valley Undergrounding		
COUNTY	2022 (Completed)	2023 (Forecast)
Alpine	-	-
Amador	<1	10
Calaveras	<1	28
Fresno	-	1
Kern	-	-
Kings	-	-
Madera	-	-
Mariposa	-	21
Merced	-	-
San Bernardino	-	-
San Joaquin	-	-
Stanislaus	-	-
Tulare	-	-
Tuolumne	-	3
TOTAL	1	63



**Data as of 01/03/2023. This map is for illustrative purposes. Forecasts can change as our risk model evolves to address the greatest wildfire risk. Forecast miles also exceed annual targets. Mileage in your community may increase or decrease due to access, weather, permitting or other constraints. In most cases, if a project is not completed during the year originally identified, it will continue through planning/construction phases during subsequent years.*

Vegetation Management

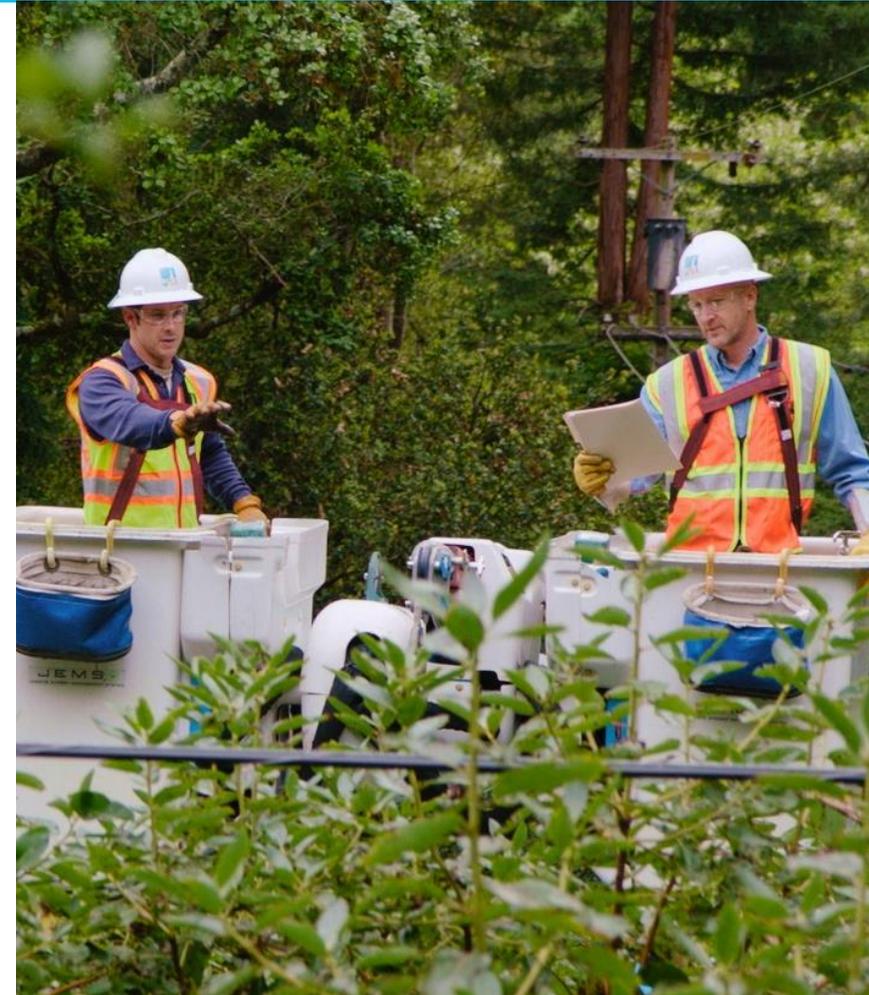


Keeping Trees Away From Powerlines

When trees are too close to powerlines, they can cause outages and serious safety issues.

That's why each year we:

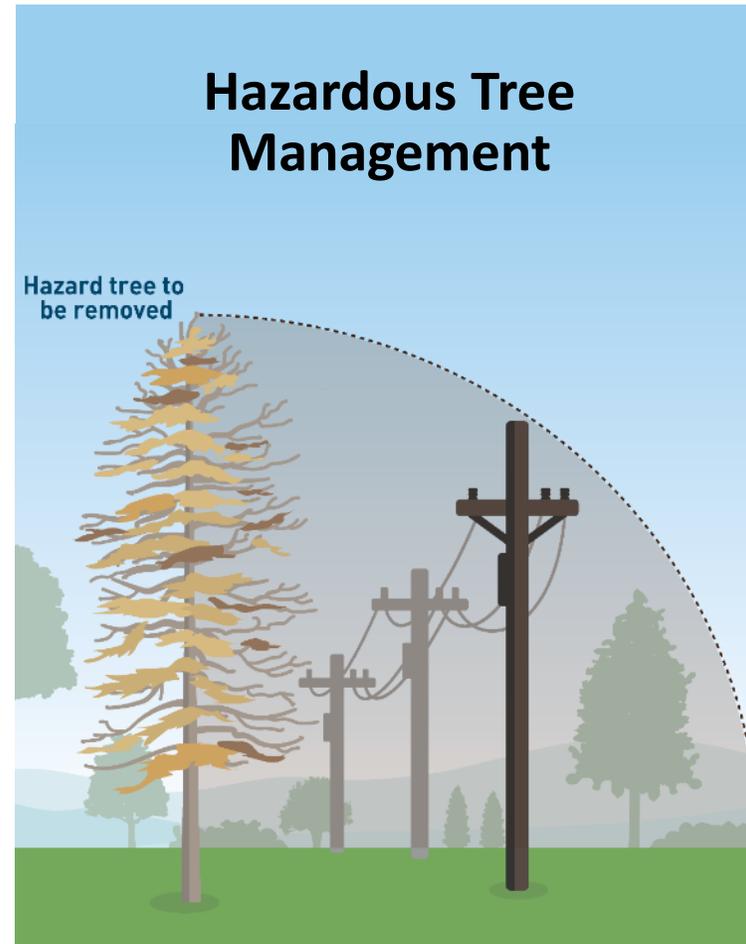
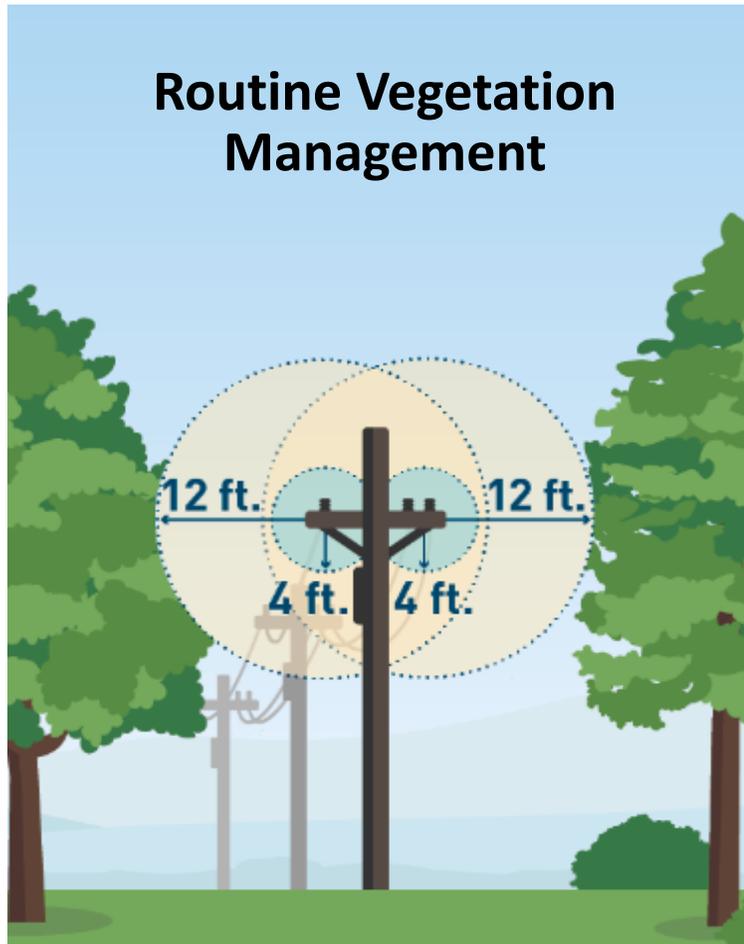
- ✓ **Inspect ~100,000 miles** of overhead powerlines
- ✓ **Prune or cut down more than 1 million trees** that are an unsafe distance from the line
- ✓ **Address dead, dying or hazard trees**
- ✓ **Conduct additional trimming** around lines that have had a lot of vegetation-caused outages



i To learn more, visit pge.com/trees

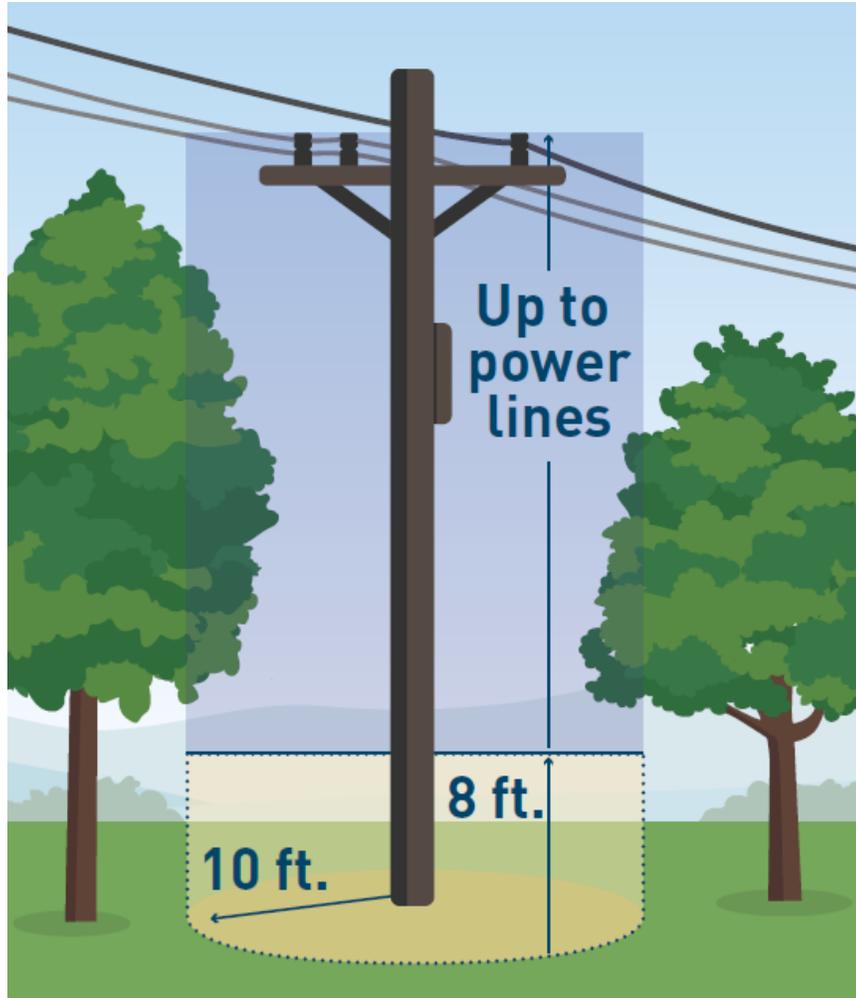
Keeping Trees Away From Overhead Powerlines

Annual inspections along all electric distribution lines

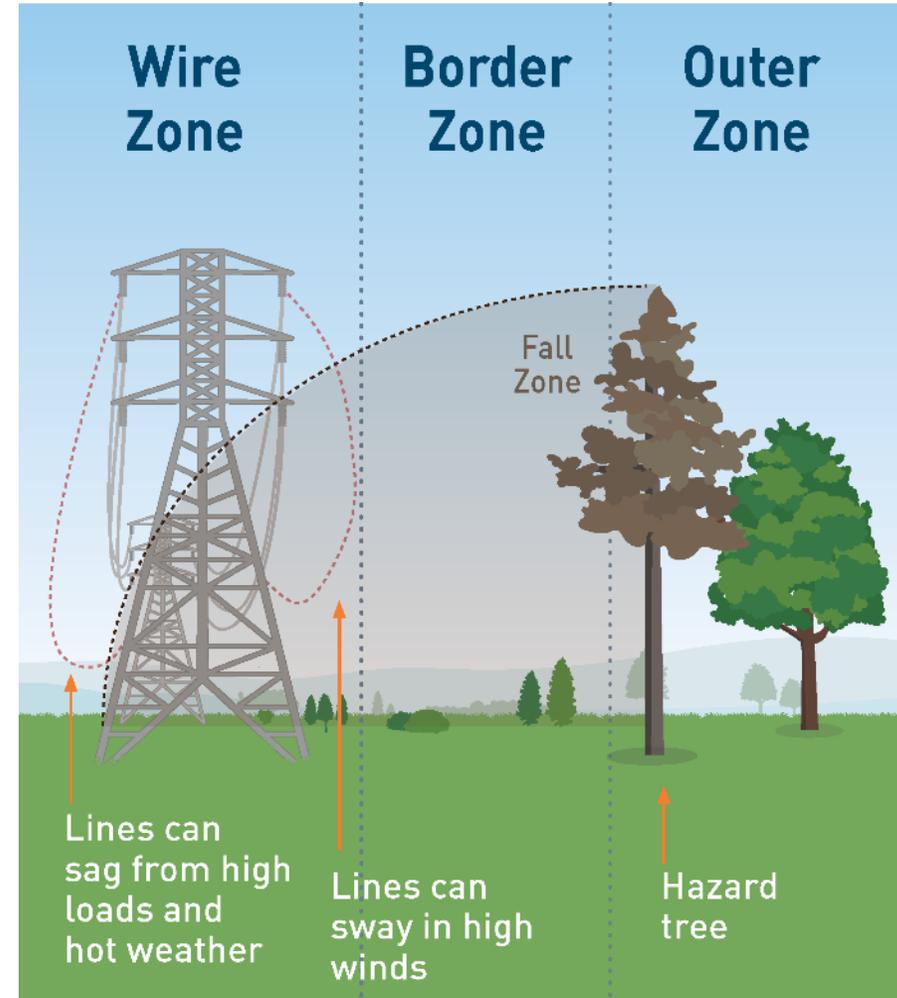


We are managing vegetation near our powerlines through a variety of programs.

Distribution Pole Clearing and Vegetation Work Around Transmission Lines



Pole Clearing



Work Around Transmission Lines

Customers can expect the following when vegetation management work is being conducted in their communities:

- ① **Advance notifications** before inspections or tree work begins on your property
- ② **Inspections** to identify potential safety concerns
- ③ **Tree work** following the inspection to complete any necessary safety work
- ④ **Safety and quality checks** through follow-up inspections to ensure work meets the required safety standards



Our crews manage woody debris, which is material smaller than four inches in diameter, through methods such as chipping or scattering onsite.

Wood management may include:

- ✓ Relocating wood to a safe location on the property
- ✓ Hauling wood offsite
- ✓ Chipping wood onsite
- ✓ Lopping and scattering material onsite



i To learn more, visit pge.com/woodmanagement

Wildfire Safety Outages





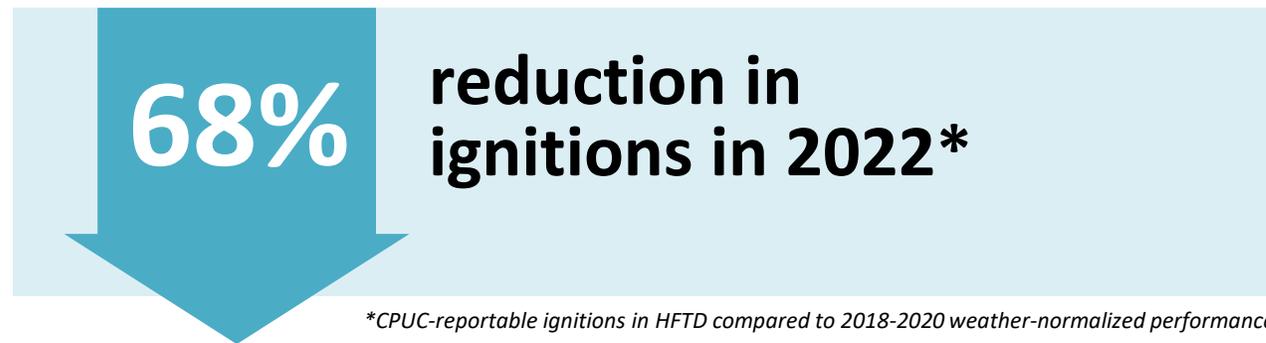
Enhanced Powerline Safety Settings A Technology To Prevent Wildfires

How It Works

Turning off power within one-tenth of a second if a tree branch or other object strikes the line.

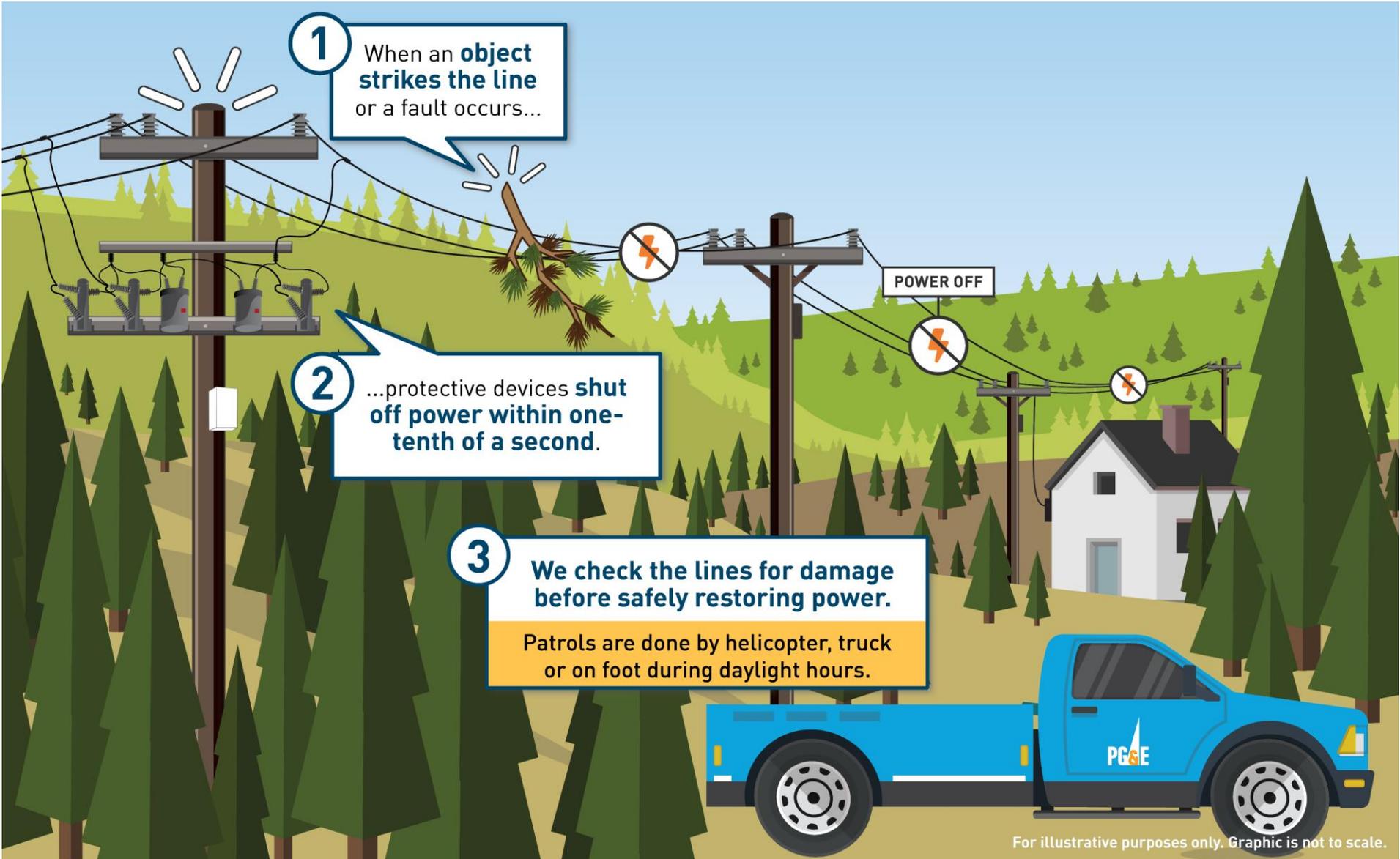
Why We Do It

Stopping wildfires before they have a chance to start.



SAFETY SETTINGS IN ACTION IN NAPA COUNTY

Safety Settings, Step-By-Step





Efforts To Improve Reliability and the Customer Experience

We are continuing to engage and provide resources to all customers and increasing our efforts with those customers most impacted. This includes:

- ✓ **Targeting** additional outreach to the most impacted customers
- ✓ **Expanding** backup power support for vulnerable and highly impacted customers
- ✓ **Installing** more fault indicators and line sensors to reduce outage length
- ✓ **Improving** outage notifications so they are clearer and more accurate
- ✓ **Conducting** targeted vegetation management and animal mitigation work
- ✓ **Improving** reliability using our multi-outage review process
- ✓ **Supporting** customers through partnerships with community-based organizations



PSPS Notification Improvements

In 2022, we made improvements to the way we notify customers before, during and after a Public Safety Power Shutoff.

PSPS notification improvements include:

- ✓ Informing customers when a PSPPS is delayed, and de-energization may still occur
- ✓ Informing customers when power is “off” at time of de-energization
- ✓ PSPPS notifications no longer allow for opt-outs

PG&E resources to help customers prepare:

Receive notifications for any address at

pge.com/addressalerts

Find resources and support at

pge.com/pspsresources

Update your contact information at

pge.com/pspsalerts



How and When are Stakeholders Notified?

	Severe Weather Forecasted			PSPS Event		CPUC Report	
	3 Days PRIORITY / ADVANCE	2 Day and 1 Day WATCH	Just Before WARNING	Power Turned Off	Weather Passed	ETOR Update	Power Restored
Agency/Critical Customer/CBO* Resource Partner Notifications	✓	✓	✓	✓	✓	✓	✓
Transmission Customers	✓	✓	✓	✓	✓	✓	✓
Customer Notifications Includes Address Alerts		✓	✓	✓	✓	✓	✓

*Community-Based Organization

**Electricity Dependent includes customers who use electricity for Durable Medical Equipment or Assistive Technology.

Medical Baseline Program, Self-Identified Vulnerable Status Participants and electricity dependent customers**, also receive:

- Hourly Texts, Calls and Emails until contact is made
- Doorbell Rings if no positive contact is made
- Door Hanger Left if no contact is made

We have taken significant steps to reduce wildfire ignitions while ensuring a continued focus on minimizing unplanned outages.

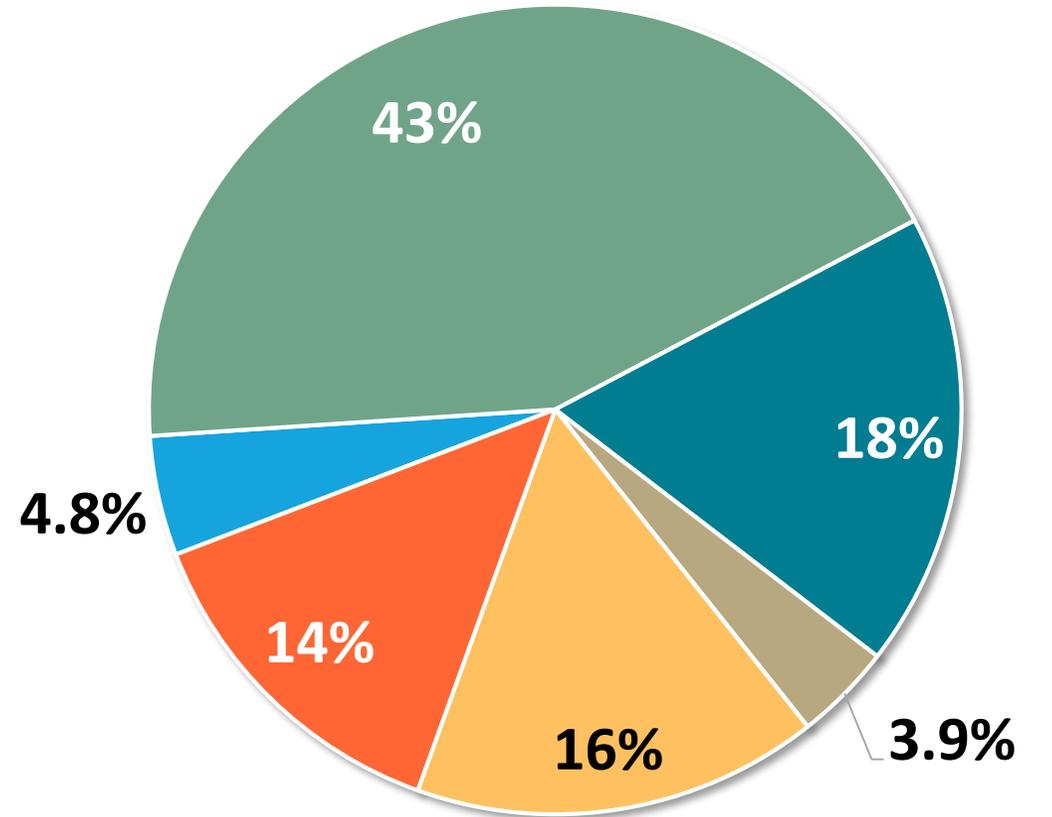
Power was on **99.9%** of the time

Average Customers Impacted per Outage:

104

Average Outage Duration (Hours):

3.6



Types of Outages

- Third- Party Incident
- Weather/Vegetation
- PG&E Maintenance/Operations
- Animal Interference
- Equipment Issue
- Unknown

Customer Resources



Target audience: Electricity-dependent individuals with Access & Functional Needs (AFN) living in HFTDs.

Electricity-dependent:

Individuals who are at an increased risk of harm to their health, safety and independence during a PSPS, including, but not limited to:

- Medical and Non-Medical
- Behavioral, Mental and Emotional Health
- Mobility and Movement
- Communication
- Individuals who require devices for health, safety and independence

Resources Provided:

- Emergency Planning Assistance
- Portable backup batteries
- Accessible hotel accommodations
- Accessible transportation
- Food vouchers
- Fuel cards for generators
- Other resources as applicable

i To learn more, visit disabilitydisasteraccess.org/

Assistance offered through this program:

- Additional monthly allotment of energy at the lowest price at your current rate*
- Extra notifications in advance of a Public Safety Power Shutoff event, including in-person doorbell rings by a PG&E representative

*Please note that only certain rate plans are eligible for this additional allotment of energy



i Apply to the MBL program at:
pge.com/medicalbaseline

Community Resource Centers

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

Customer Resources

- Personal and medical device charging
- Mobile battery chargers
- ADA-accessible restroom
- Wi-Fi
- Bottled water/Snacks
- Cooling/heating*
- Seating*
- Ice*

*Indoor locations only

COVID Considerations

- Facial coverings required
- Physical distancing
- Number of visitors limited
- Surfaces are sanitized



i To learn more, visit: [pge.com/crc](https://www.pge.com/crc)

Portable Battery Program

Supporting eligible customers with fully subsidized portable battery solutions.

 pge.com/pspsresources

Partnership with 211

24-7 free and confidential support and resources via calls or texts to 211.

 211ca.org

Generator and Battery Rebate Program

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

 pge.com/backuppowers

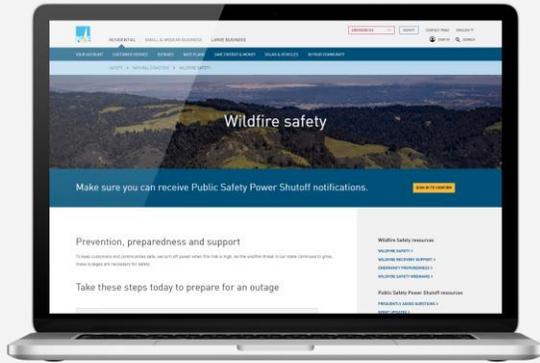
California Foundation for Independent Living Centers

Providing qualifying customers with hotel stays, food stipends and more.

 cfilc.org



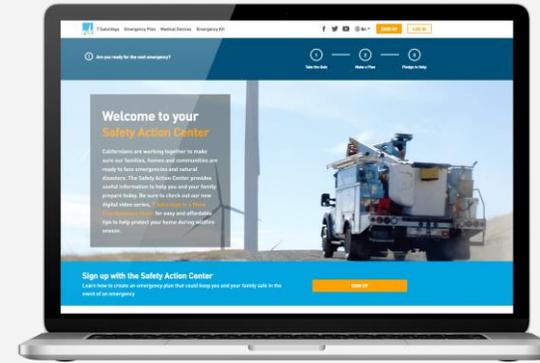
More Information and Tools For Customers to Prepare



Wildfire Safety

Information on wildfire prevention efforts

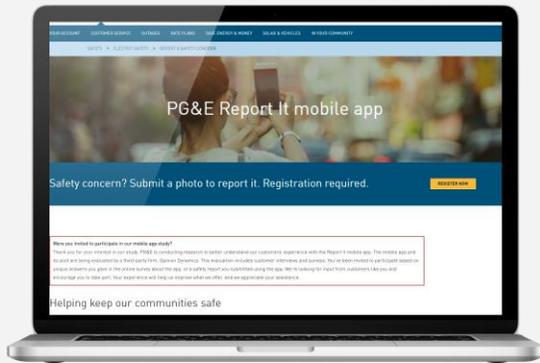
 pge.com/wildfiresafety



Safety Action Center

Create an emergency safety plan to keep you and your family safe

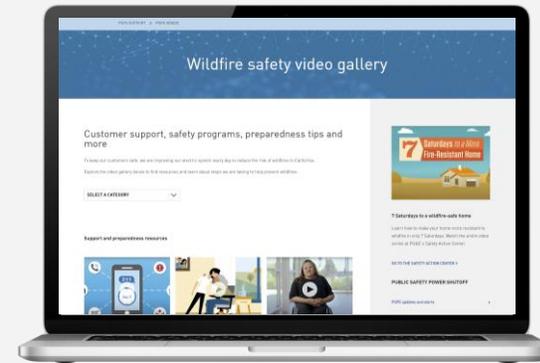
 safetyactioncenter.pge.com



Report It App

Submit photos of nonemergency potential safety concerns

 pge.com/reportit



Wildfire Safety Videos

Videos about wildfire resources and safety

 pge.com/wildfiresafetyvideos

Dedicated wildfire safety contacts: Hotline: 1-866-743-6589 | Email: wildfiresafety@pge.com

Local Resilience Efforts





Microgrid Incentive Program (MIP)

PG&E, along with San Diego Gas and Electric and Southern California Edison are awaiting CPUC approval of a new Microgrid Incentive Program to fund clean community microgrids that support the critical needs of vulnerable populations most likely to be impacted by outages.

- ✓ **Increase reliability and resiliency for critical public facilities** for disadvantaged and vulnerable populations impacted by grid outages.
- ✓ **Prioritize communities** with higher portions of low-income, Access and Functional Needs, and electricity dependent residents.
- ✓ **Enable communities with lower ability** to fund development of backup generation to maintain critical loads during outages.

Pending CPUC approval, we expect to be able to share additional details about the program later this year. Incentive fund requests will be evaluated and awarded on a competitive basis.



Community Microgrid Enablement Program (CMEP)

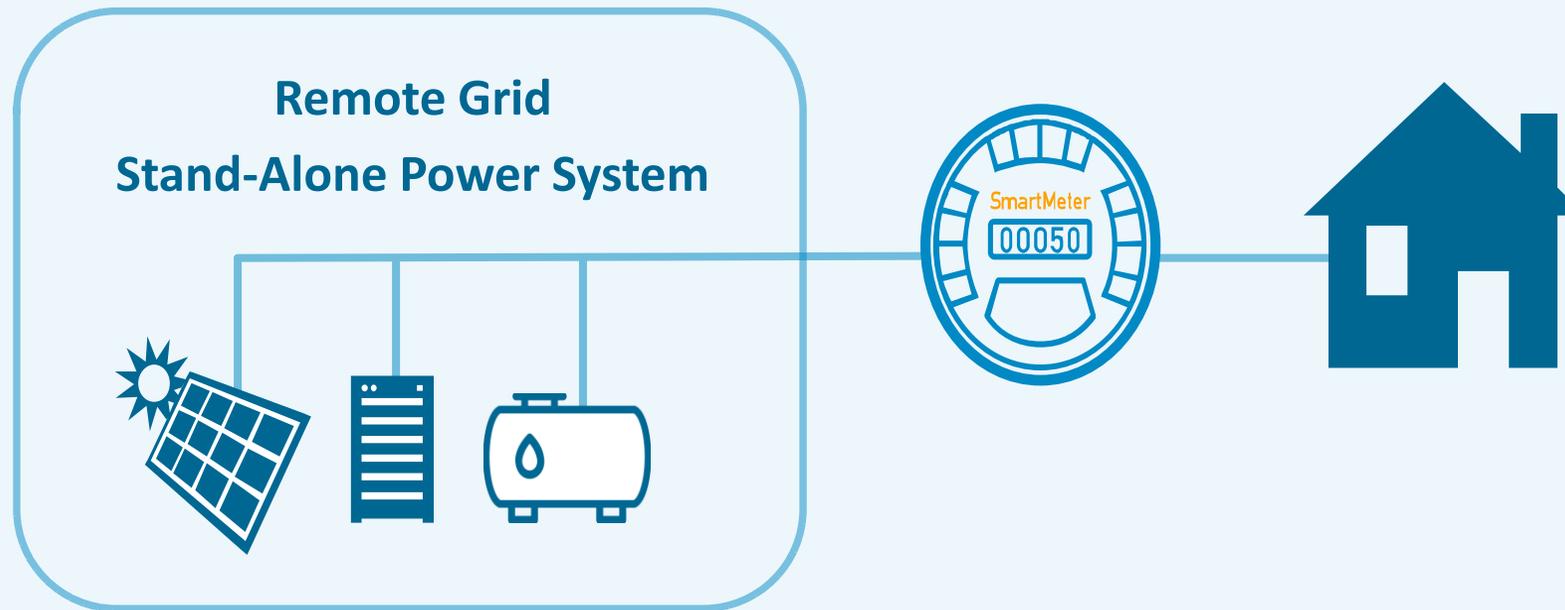
PG&E introduced the CMEP in April 2021 as part of our proposal to address PSPS mitigation. The program consists of four key elements:

- 1 Web-Based Tools and Information** – Providing financial, technical, and interconnection resources for community resilience projects.
- 2 Enhanced Utility Technical Support** – Three-stage process provides incremental support to facilitate development of multi-customer microgrids from initial concept exploration, through assessment, and execution.
- 3 Community Microgrid Enablement Tariff (E-CMET)** – Governs the eligibility, development, and island and transitional operation of community microgrids.
- 4 Cost Offsets** – Up to \$3 million per project to offset the cost of equipment to enable the islanding of a microgrid. Does not cover generation or storage costs.

What is a Remote Grid?

A remote grid is a standalone power system that is independent of the electric grid.

It uses solar, batteries and fuel-powered generation to provide continuous electric service to your home or business. The system is safe, reliable and clean, and significantly reduces wildfire risk by eliminating powerlines in high fire-threat areas.



- ✓ **Reduce wildfire risk** from electric poles and wires
- ✓ **Allow for fewer service interruptions** during winter weather or PSPS
- ✓ **Equal or improved quality and level of service** provided with no change to existing PG&E billing
- ✓ **Are built, maintained and serviced by PG&E professionals** and its qualified contractors





Microgrid Technology Pilots

PG&E has initiated a variety of technology-related pilot programs to help mitigate the risk of wildfires and PSPS events.

Pilot	Description	Status
Mobile BESS Development	<ul style="list-style-type: none">Continued development of mobile battery storage for PSPS mitigation through Tesla Megapack batteriesUndergoing additional safety and operational improvements, tested and studied at the Foresthill site	In Progress
Vehicle Grid Integration (VGI) Microgrid Pilot #3	<ul style="list-style-type: none">As part of the VGI Decision, PG&E plans to test vehicle-to-grid technology to support resiliency in multi-customer PSPS impacted microgridsWill be tested on vehicle-to-grid chargers installed within PSPS microgrids during 2023	Beginning in 2023
Calistoga Clean Substation Pilot	<ul style="list-style-type: none">A proposed, highly innovative, renewable energy microgrid to mitigate PSPS outages using green hydrogen fuel cells and batteriesUses mobile diesel generators to provide backup power at substationsExpected to have no operating emissions of greenhouse gases or other local air pollutants, while still meeting all operating and cost containment requirements for substation microgrids	Pending CPUC Approval

Open Discussion/Q&A



Thank You



Appendix





2022 Q4 Follow Up and Action Items

Description	Agency	Status
Inquiry on WMP performance and if PG&E will complete the remaining 30% of undergrounding work this year to meet the 2022 target.	California Public Utilities Commission	Complete
Inquiry on undergrounding that has occurred in Placer and El Dorado Counties, specifically how much of the undergrounding is transmission line.	Pioneer Community Energy	Complete
Inquiry regarding EPSS statistics and how they are factored into the planning and prioritizing for undergrounding of distribution lines.	Pioneer Community Energy	Complete
Question on capacity restrictions in the Humboldt area, whether there are restrictions or areas where load will not meet industrial or large housing growth needs.	Pioneer Community Energy	Complete
Follow up about whether PG&E is continuing to use the remote grid program in the Sierra Nevada area.	Pioneer Community Energy	Complete
Follow up regarding CRC capacity for large battery devices and PG&E's provided transportation and device transport to the CRC sites.	Independent Living Resources of Solano & Contra Costa Counties	Complete
Request to provide updates on EPSS and Undergrounding pilots in San Mateo County.	Peninsula Clean Energy	Complete
Follow up regarding plans for the conversion of bare wire to covered wire on the Hicks lines in Santa Clara County.	County of Santa Clara	Complete
Follow up with OEM to schedule a more detailed briefing on continued improvements in 2023 Q1 on the Hicks circuit.	County of Santa Clara	Complete



Public Safety Partner Support

PG&E is committed to working collaboratively with Public Safety Partners in advance of and during PSPS outages to support affected customers and communities.

You can send updates to your contact information to the following:

**Water, Wastewater and
Communication Service Providers**

Richard Navarro:
ricardo.navarro@pge.com
209-604-5066

**For Federal, State, Local and Tribal
Agencies, CCAs and POUs**

Roy Regala:
roy.regala@pge.com
650-418-6771



If you have questions, please contact PGELiaisonOfficer@pge.com



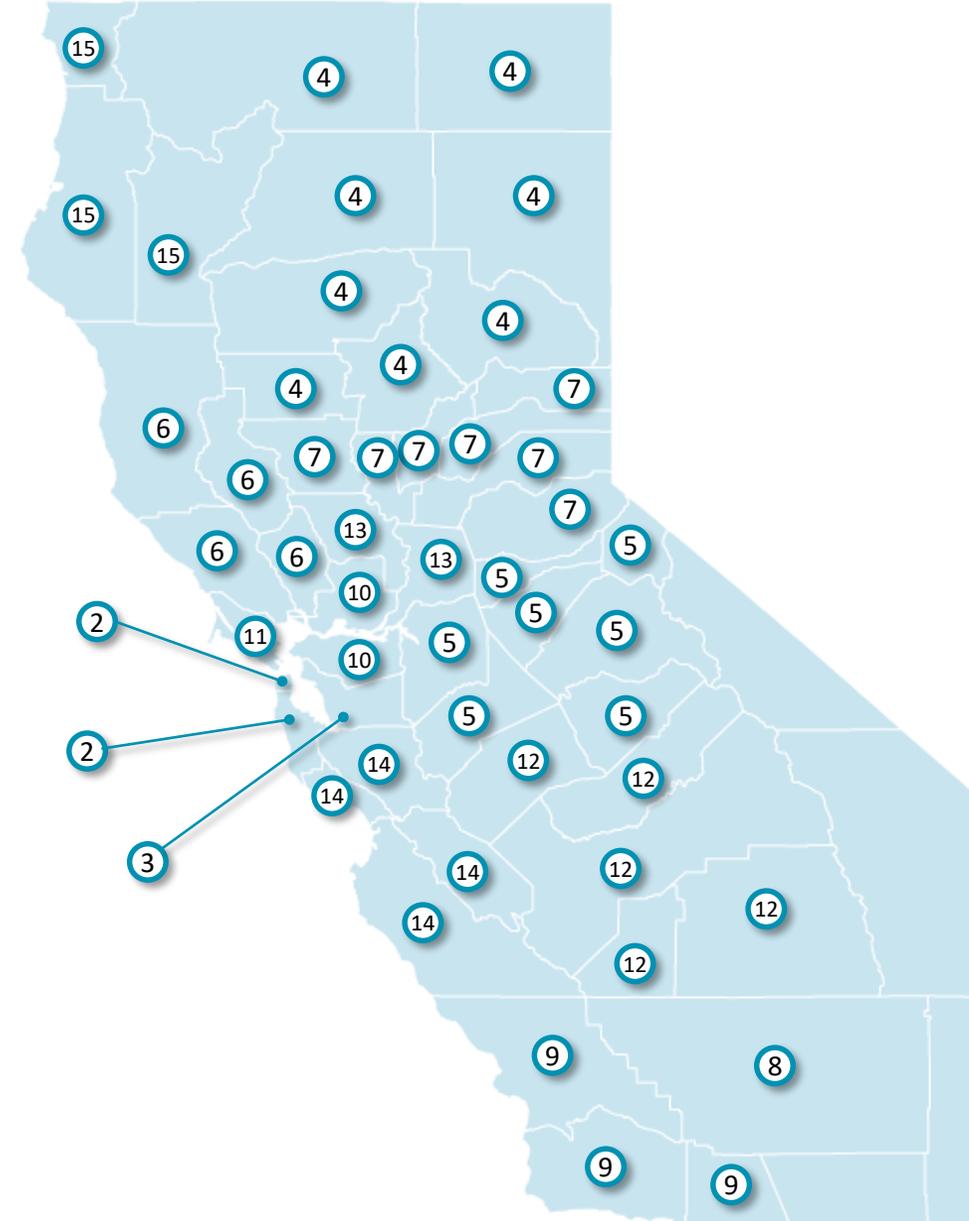
DDAR Centers

Organization

1	The Center for Independent Living (CIL)
2	Center for Independence of Individuals with Disabilities (CID)
3	Community Resources for Independent Living (CRIL)
4	Disability Action Center (DAC)
5	Disability Resources Agency for Independent Living (DRAIL)
6	Disability Services & Legal Center (DSLCL)
7	Center for Independent Living (FREED)
8	Independent Living Center of Kern County (ILCKC)
9	Independent Living Resource Center (ILRC)
10	Independent Living Resources of Solano & Contra Costa Counties (ILRSCC)
11	Marin Center for Independent Living (MCIL)
12	Resources for Independent Living Central Valley (RICV)
13	Resources for Independent Living (RIL)
14	Silicon Valley Independent Living Center (SVILC)
15	Tri-County Independent Living Center (TCIL)
16	The California Foundation for Independent Living Centers (CFILC)*

Counties Served

Alameda
San Mateo
Alameda
Butte, Glenn, Lassen, Modoc, Plumas, Shasta, Siskiyou, Tehama
Alpine, Amador, Calaveras, Mariposa, San Joaquin, Stanislaus, Tuolumne
Lake, Mendocino, Napa, Sonoma
Colusa, El Dorado, Nevada, Placer, Sierra, Sutter, Yuba
Kern
San Luis Obispo, Santa Barbara, Ventura
Contra Costa, Solano
Marin
Fresno, Kings, Madera, Merced, Tulare
Sacramento, Yolo
Santa Clara, Santa Cruz, San Benito, Monterey
Humboldt, Trinity, Del Norte
*Systemwide

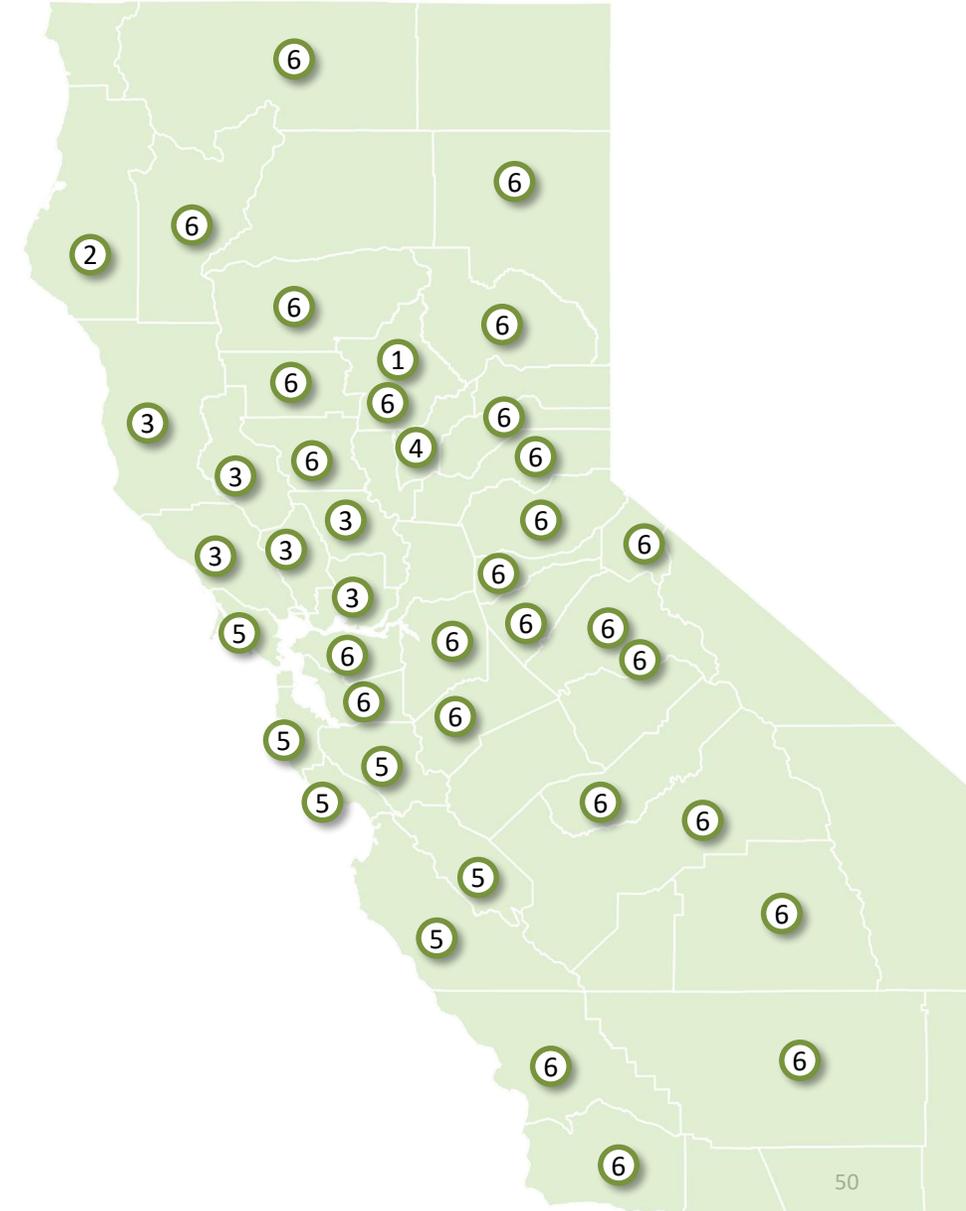


Some of the measures included in this presentation are contemplated as additional precautionary measures intended to further reduce the risk of wildfires.



Portable Battery Providers

Organization	Counties Served
1 Community Action Agency of Butte County, Inc. (LiHEAP vendor) 181 E. Shasta Avenue, Chico, CA 95973 Phone: (530) 712-2600	Butte
2 Redwood Community Action Agency (LiHEAP vendor) 904 G Street, Eureka, CA 95501 (707) 269-2001	Humboldt
3 North Coast Energy Services, Inc. (LiHEAP vendor) 966 Mazzoni Street, Ukiah, CA 95482 Toll-free:(800) 233-4480 Phone:(707) 463-0303	Lake, Mendocino, Napa, Solano, Sonoma, Yolo
4 Community Resource Project, Inc. (LiHEAP vendor) 250 Harris Avenue, Sacramento, CA 95838 Phone: (916) 567-5220	Yuba
5 Central Coast Energy Services, Inc. (LiHEAP vendor) 800-564-4012	Monterey, San Benito, Santa Cruz, San Mateo, Santa Clara, Marin
6 Richard Heath & Associates 559-214-1190	Alameda, Alpine, Amador, Butte, Calaveras, Colusa, Contra Costa, El Dorado, Fresno, Glenn, Kern, Lassen, Madera, Mariposa, Nevada, Placer, Plumas, San Joaquin, San Luis Obispo, Santa Barbara, Shasta, Sierra, Siskiyou, Stanislaus, Tehama, Trinity, Tulare, Tuolumne



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

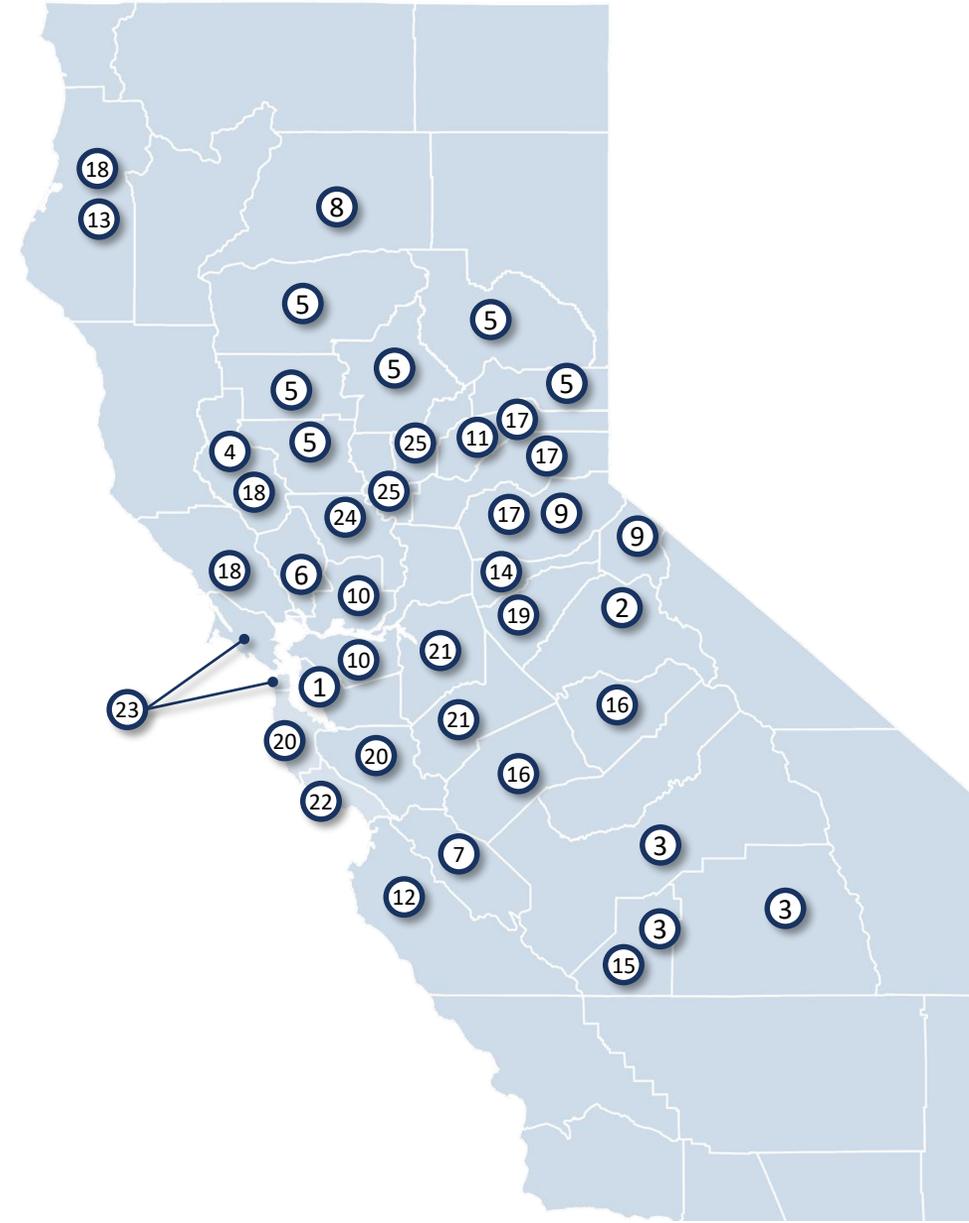


Food Banks

Organization

Counties Served

1	Alameda County Food Bank	Alameda
2	ATCAA Food Bank	Tuolumne
3	Central California Food Bank	Fresno, Kings, Tulare
4	Clear Lake Gleamers Food Bank	Lake
5	Community Action Agency of Butte County	Butte, Colusa, Glenn, Plumas, Sierra, Tehama
6	Community Action of Napa Valley Food Bank	Napa
7	Community Food Bank of San Benito	San Benito
8	Dignity Health Connected Living	Shasta
9	El Dorado Food Bank	Alpine, El Dorado
10	Food Bank of Contra Costa & Solano	Contra Costa, Solano
11	Food Bank of Nevada County	Nevada
12	Food Bank for Monterey County	Monterey
13	Food for People	Humboldt
14	Interfaith Council of Amador	Amador
15	Kings Community Action Organization	Kings
16	Merced County Food Bank	Mariposa, Merced
17	Placer Food Bank	Placer, Nevada, El Dorado
18	Redwood Empire Food Bank	Sonoma, Humboldt, Lake
19	Resource Connection	Calaveras
20	Second Harvest Food Bank of Silicon Valley	San Mateo, Santa Clara
21	Second Harvest Food Bank San Joaquin & Stanislaus	San Joaquin, Stanislaus
22	Second Harvest Food Bank Santa Cruz County	Santa Cruz
23	The San Francisco-Marín Food Bank	Marin, San Francisco
24	Yolo Food Bank	Yolo
25	Yuba Sutter Food Bank	Sutter, Yuba





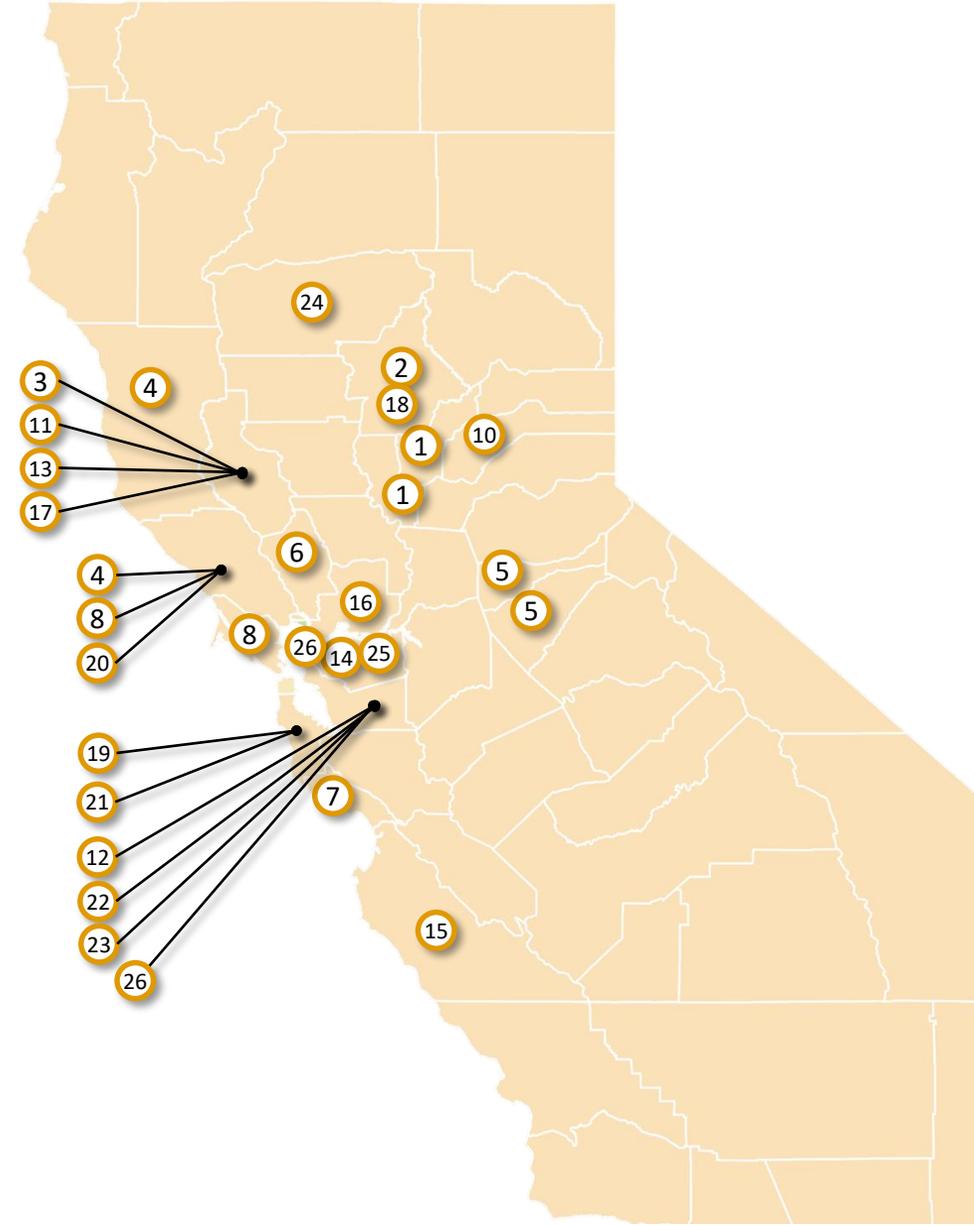
Meals on Wheels

Organization

1	Area Agency on Aging (Yuba Sutter Meals on Wheels)
2	Chico Meals on Wheels
3	Clearlake Senior Center
4	Coastal Seniors
5	Common Ground Senior Services
6	Community Action Agency of Napa Valley
7	Community Bridges
8	Council on Aging
9	Dignity Health Connected Living
10	Gold Country Community Services
11	Lakeport Senior Center
12	Life ElderCare
13	Liveoak Senior Center
14	Meals on Wheels Diablo Region
15	Meals on Wheels Monterey Peninsula
16	Meals on Wheels Solano County
17	Middletown Senior Center
18	Passages
19	Peninsula Volunteers
20	Petaluma People Services
21	Senior Coastsiders
22	Service Opportunity for Seniors
23	Spectrum Community Services
24	Tehama County Community Action Agency
25	West Contra Costa Meals on Wheels
26	J-Sei

Counties Served

Yuba, Sutter
Butte
Lake
Mendocino, Sonoma
Amador, Calaveras
Napa
Santa Cruz
Marin, Sonoma
Shasta
Nevada
Lake
Alameda
Lake
Contra Costa
Monterey
Solano
Lake
Butte
San Mateo
Sonoma
San Mateo
Alameda
Alameda
Tehama
Contra Costa
Alameda, Contra Costa



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



Status of Planned/Upcoming Resilience Efforts – Systemwide

Program	County	Site Name/Area	Status	Estimated Completion
Distribution Microgrids*	Butte	Magalia	Operational	N/A
	Calaveras	Arnold	Operational	N/A
	El Dorado	Georgetown	Operational	N/A
	El Dorado	Pollock Pines	Operational	N/A
	Humboldt	Redwood Coast Airport Microgrid*****	Operational	N/A
	Lake	Clearlake North	Construction Complete	Q2 2023
	Lake	Lucerne	Operational	N/A
	Lake	Middletown	Operational	N/A
	Napa	Angwin	Operational	N/A
	Napa	Calistoga	Operational	N/A
	Placer	Colfax	Operational	N/A
	Placer	Foresthill	Operational	N/A
	Shasta	Shingletown	Operational	N/A
	Tuolumne	Groveland	Operational	N/A
Islanding	Calaveras**	Salt Springs Island	Operational	N/A
	Calaveras***	West Point Island	Operational	N/A
	Humboldt	Humboldt Bay Island	Operational	N/A
	Plumas	Caribou Island	Operational	N/A
	Tehama	Red Bluff Island	Operational	N/A
	Tuolumne	Spring Gap	Operational	N/A

Local work plans are subject to change and data is based on the best available information at this time.

**Distribution microgrids are considered operational once temporary generation is available and energization plans are finalized.*

***Also serves portions of Amador and Alpine Counties.*

****Also serves portions of Amador County.*

*****Facility owned by Redwood Costa Energy Authority; PG&E owns, operates and maintains microgrid circuit*



Status of Planned/Upcoming Resilience Efforts – Systemwide

Program	County	Site Name/Area	Status	Estimated Completion
Remote Grids	Mariposa	Briceburg - Mariposa Remote 001	Operational	N/A
	Tehama	Corning Remote 0001 - 0002	Operational	Q4 2022
	Mariposa	Slaughter House	Under Construction	Q1 2023
	Mariposa	Miami Mountain	Under Construction	Q1 2023
	Madera	Melvin	Planning	Q4 2023
	Sonoma	Pepperwood	Planning	Q4 2023
	Tehama	Battle Creek	Planning	Q4 2023
	Tehama	Manton Wildcat	Planning	Q4 2023
	Tulare	Whitaker Forest	Planning	Q4 2023
	Tuolumne	Forebay	Planning	Q4 2023
	Lake	Anderson Springs	Planning	Q1 2024
	Shasta	Shingletown Wildcat	Planning	Q1 2024

Local work plans are subject to change and data is based on the best available information at this time.

Community Wildfire Safety Program

Q1 2023 REGIONAL WORKING GROUP

North Valley & Sierra Region

March 22, 2023



Virtual Sign In Reminder

Please “sign in” using the chat function and provide your **name, organization and email**.



Safety

Preparedness Tips

Always be prepared in case of a natural disaster or an emergency

Build a disaster supply kit for you, your family or your business

Be sure to include food, water, medication, flashlights, first aid kits, a list of emergency contacts and more

Visit safetyactioncenter.pge.com to help prepare for an emergency





Agenda

- 1 Wildfire Mitigation Plan

- 2 Community Wildfire Safety Program

- 3 Local Resilience Efforts

- 4 Open Discussion and Q&A

PG&E SPEAKERS

Alison Feliz-Wukasinovich
Regional Senior Manager

Clay Merrill
Local Government Affairs

Mike Weber
Public Safety Specialist

Reno Franklin
Tribal Liaison

Ryan Willis
Vegetation Management



An Update on Your Winter Storm Response



1

Multiple poles down in Wheatland, Yuba County



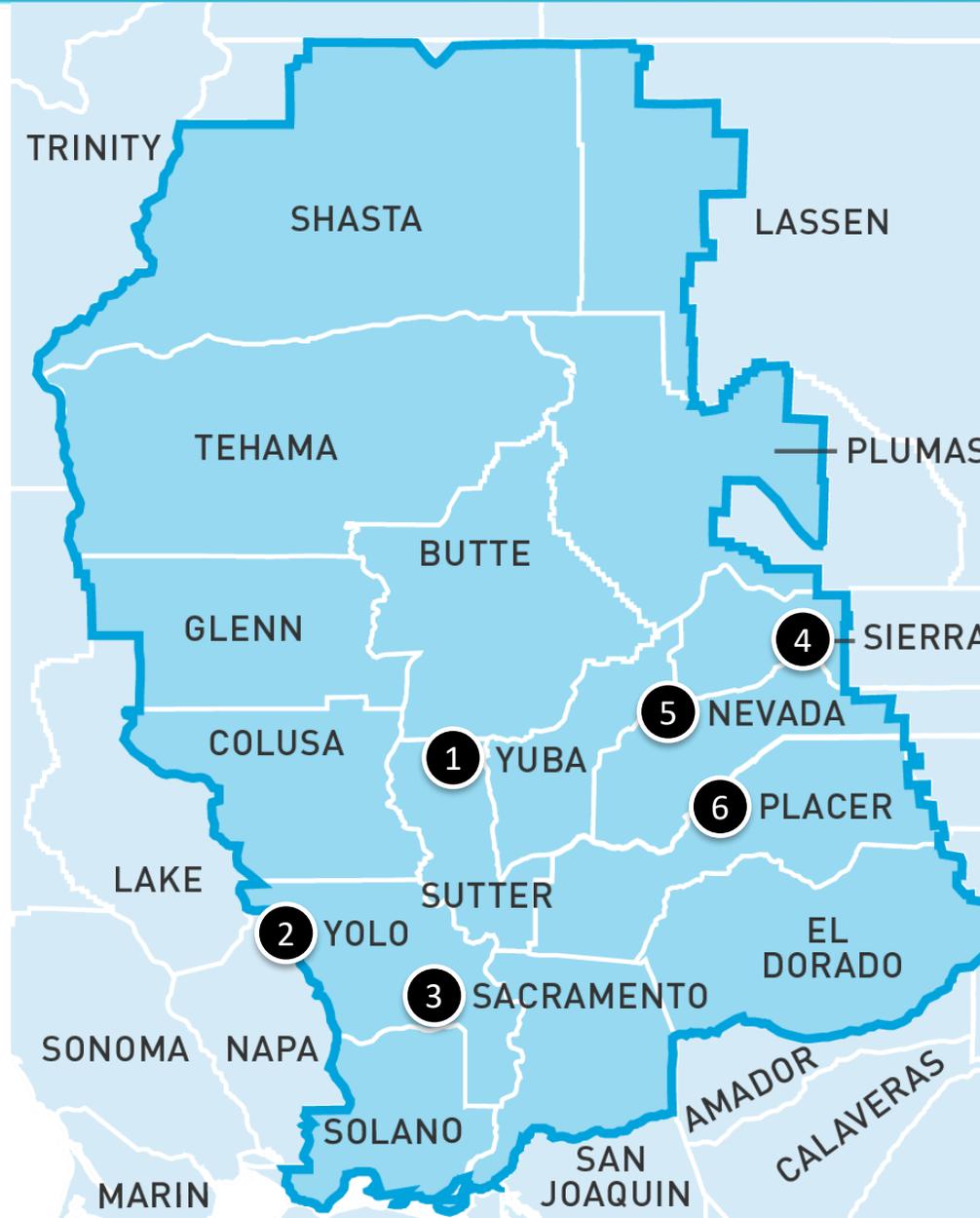
2

Flooding causing multiple poles down in Yolo County



3

Tree blocking road in Sacramento



4

Inspector in Sierra County snowfall



5

Vegetation crews removing tree posing risk to powerlines nearby in Nevada County



6

Crew repairing conductor in Placer County

Wildfire Mitigation Plan



We will submit our annual Wildfire Mitigation Plan to California's Office of Energy and Infrastructure Safety (OEIS).

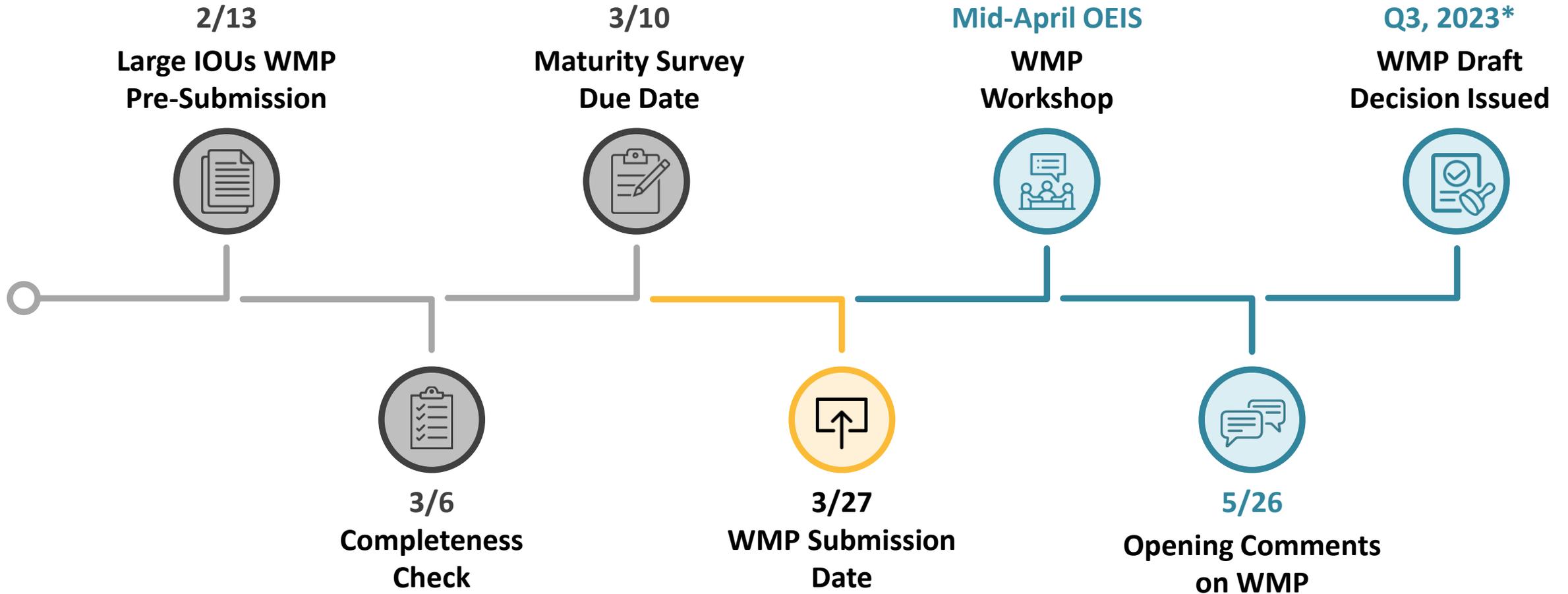
The Wildfire Mitigation Plan:

- ✓ Outlines our strategy for mitigating wildfire risk
- ✓ Aligns strategic goals of engaging with our stakeholders
- ✓ Provides updates to key wildfire mitigation programs
- ✓ Fulfills regulatory requirements



i To learn more, visit pge.com/wildfiremitigationplan

Important 2023 Wildfire Mitigation Plan Dates



Community Wildfire Safety Program



Wildfire Safety Objectives in the North Valley & Sierra Region



Key Wildfire Safety Objectives This Year

Prevent Wildfires



Reduce Customer Impacts



Provide Better Resources





Multiple Layers of Safety

Our work since 2017 has **eliminated 90% of wildfire risk from our system** through:

Ongoing Safety Efforts

Vegetation Management

System Inspections

Long-Term System Improvements

Undergrounding Powerlines

Overhead System Hardening

Safety Programs and Technology

Public Safety Power Shutoff

Enhanced Powerline Safety Settings

Situational Awareness

High-Definition Cameras

Weather Stations

These efforts add additional layers of protection on top of our system and technology improvements.

PG&E is strengthening its electric system by hardening powerlines. This includes undergrounding powerlines, as well as replacing overhead lines and equipment with sturdier materials.

Our overhead hardening includes:

- Stronger poles
- Larger crossarms
- Covered powerlines

Overhead hardening benefits include:

- Mitigating the risk of wildfires
- Enhancing long-term safety
- Improving reliability

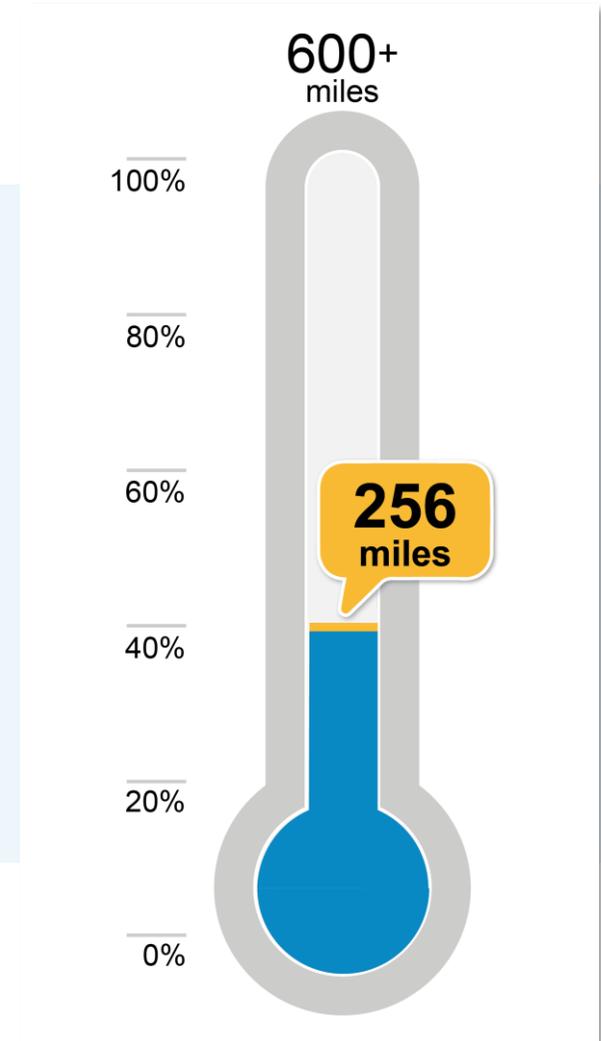


In 2022, PG&E completed **216 miles** of overhead hardening and line removal in the **North Valley & Sierra Region.**

Since the program's announcement in 2021, **we have undergrounded 256 miles**, with 180 of those completed in 2022.



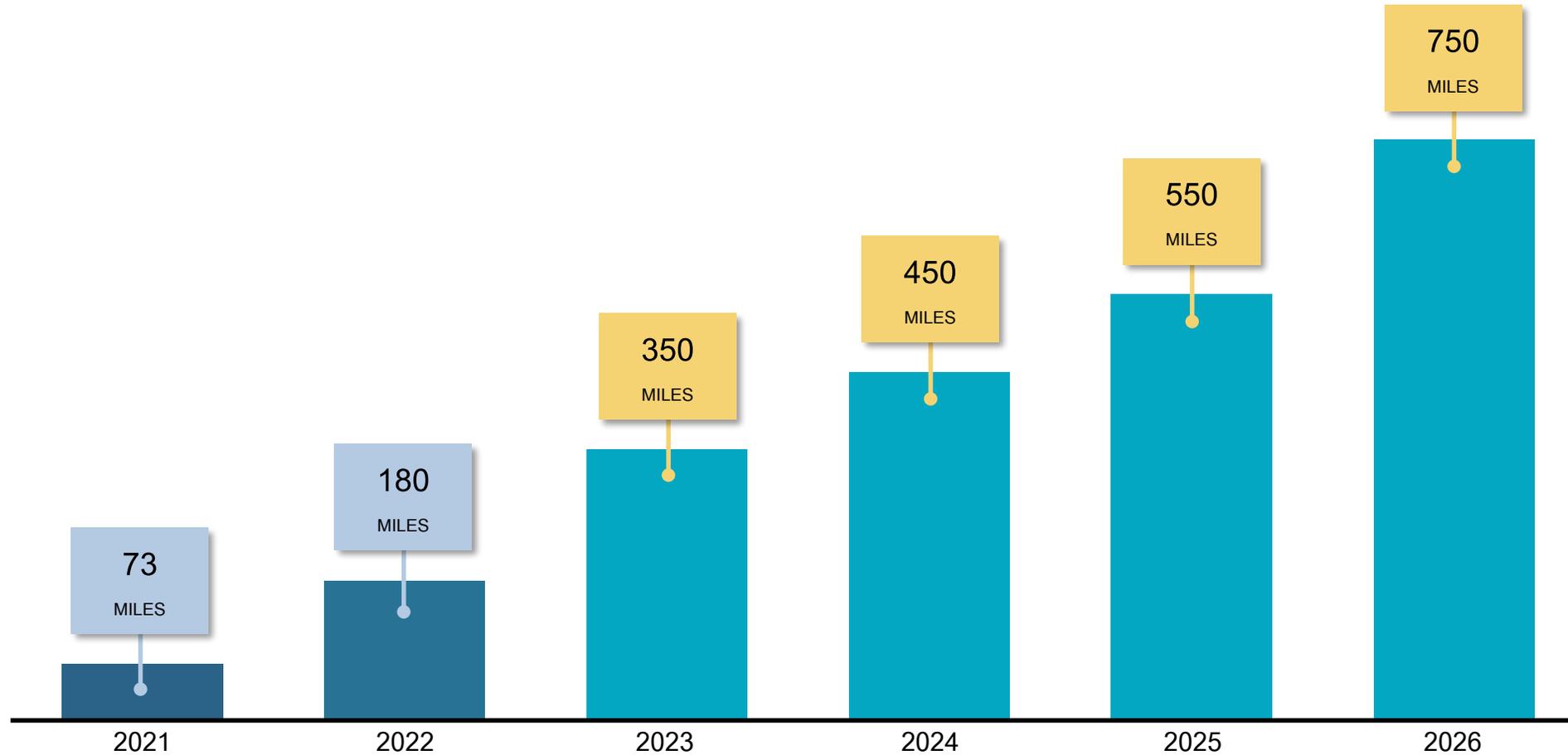
We are on target to underground 600+ miles by the end 2023.



*Data as of XX/XX



Ramping Up Our Undergrounding Efforts to Meet Our Targets



*Pending California Public Utilities Commission (CPUC) and California Office of Energy Infrastructure Safety (OEIS) approval.



Identifying Undergrounding Projects to Reduce Wildfire Risk

We are prioritizing undergrounding in areas where we have the greatest impact on reducing wildfire risk.

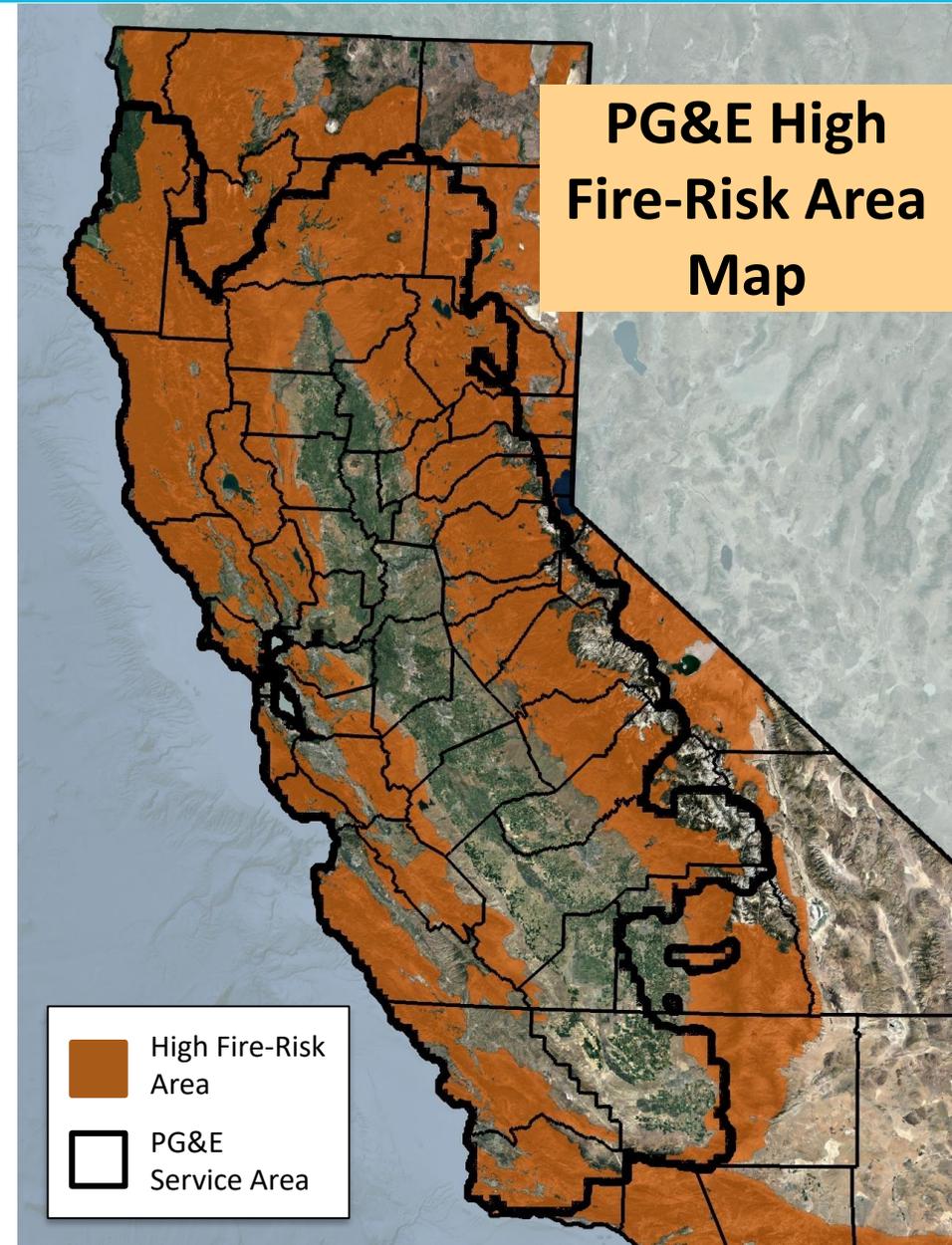
We use advanced machine-learning based risk modeling and partner with wildfire analysis providers. This modeling considers:

- Historic ignitions
- Vegetation
- Topography
- Age and condition of the electrical equipment

We also consider the probability of an ignition and consequences if a wildfire were to start in a specific location.

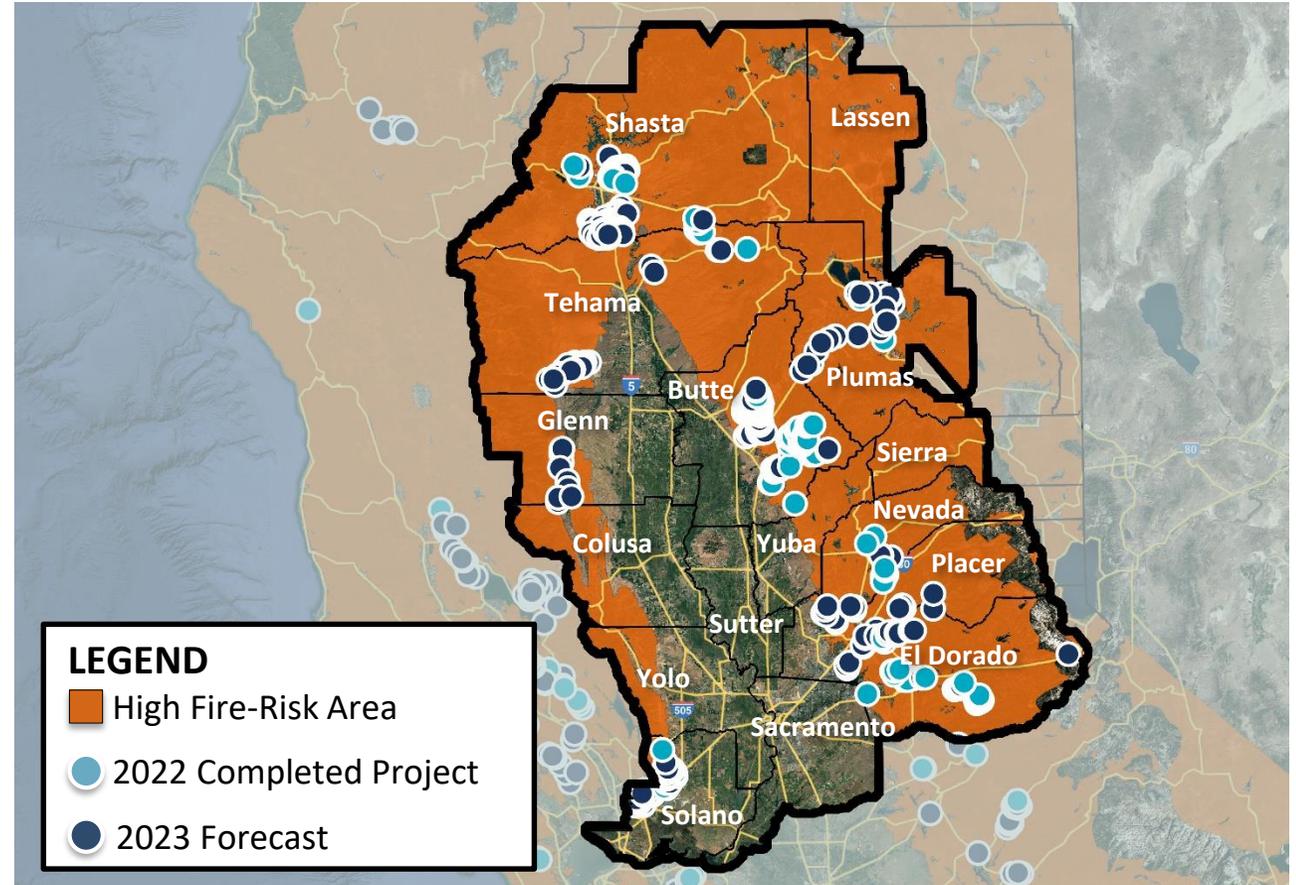
To learn more, visit [pge.com/undergrounding](https://www.pge.com/undergrounding)

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



North Valley & Sierra 2022-2023 Undergrounding

North Valley/Sierra Undergrounding		
COUNTY	2022 (Completed)	2023 (Forecast)
Butte	103	149
Colusa	-	-
El Dorado	29	19
Glenn	-	19
Lassen	-	-
Nevada	<1	26
Placer	3	41
Plumas	<1	43
Sacramento	-	-
Shasta	11	100
Sierra	-	-
Solano	3	57
Sutter	-	-
Tehama	1	33
Yolo	-	-
Yuba	-	-
TOTAL	150	487



**Data as of 01/03/2023. This map is for illustrative purposes. Forecasts can change as our risk model evolves to address the greatest wildfire risk. Forecast miles also exceed annual targets. Mileage in your community may increase or decrease due to access, weather, permitting or other constraints. In most cases, if a project is not completed during the year originally identified, it will continue through planning/construction phases during subsequent years.*

Vegetation Management

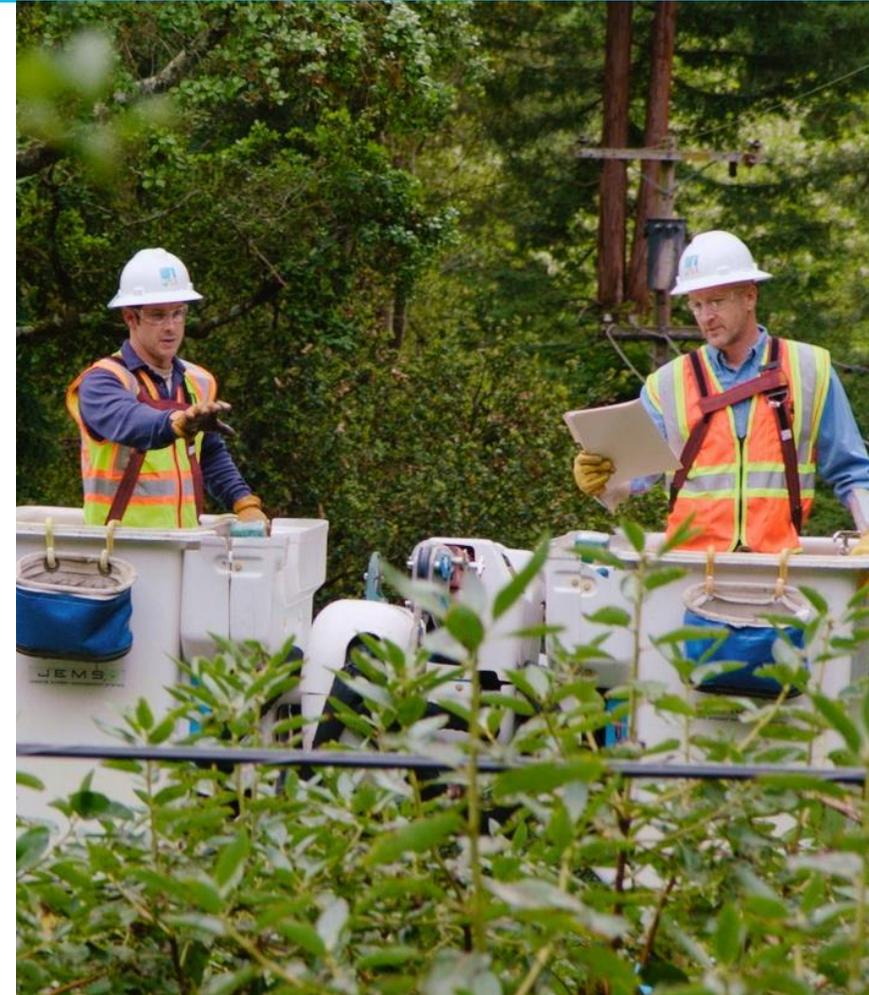


Keeping Trees Away From Powerlines

When trees are too close to powerlines, they can cause outages and serious safety issues.

That's why each year we:

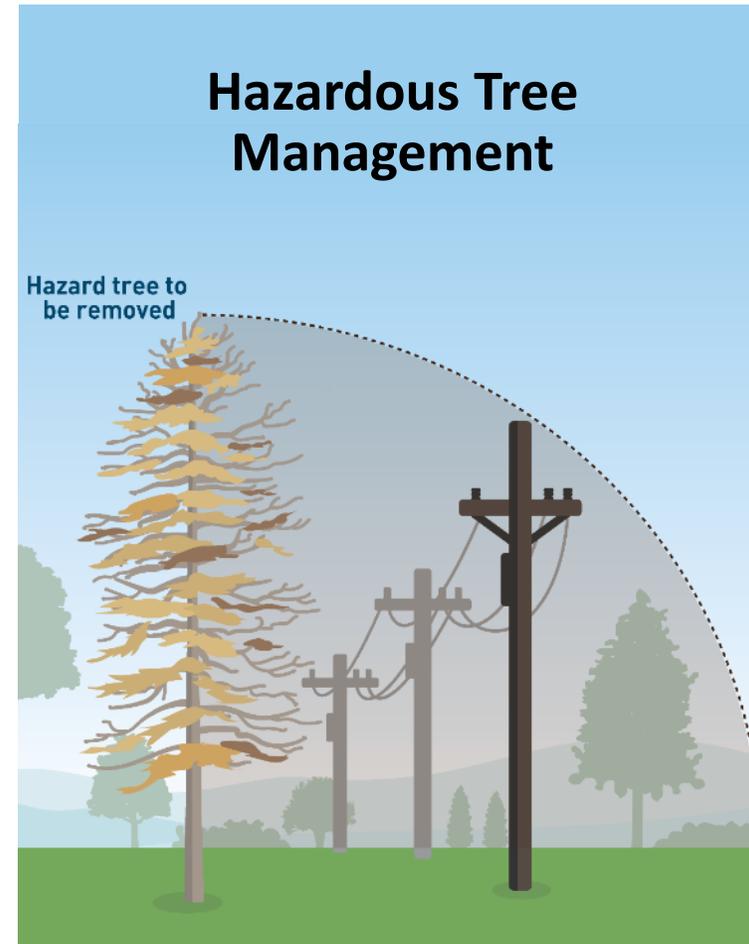
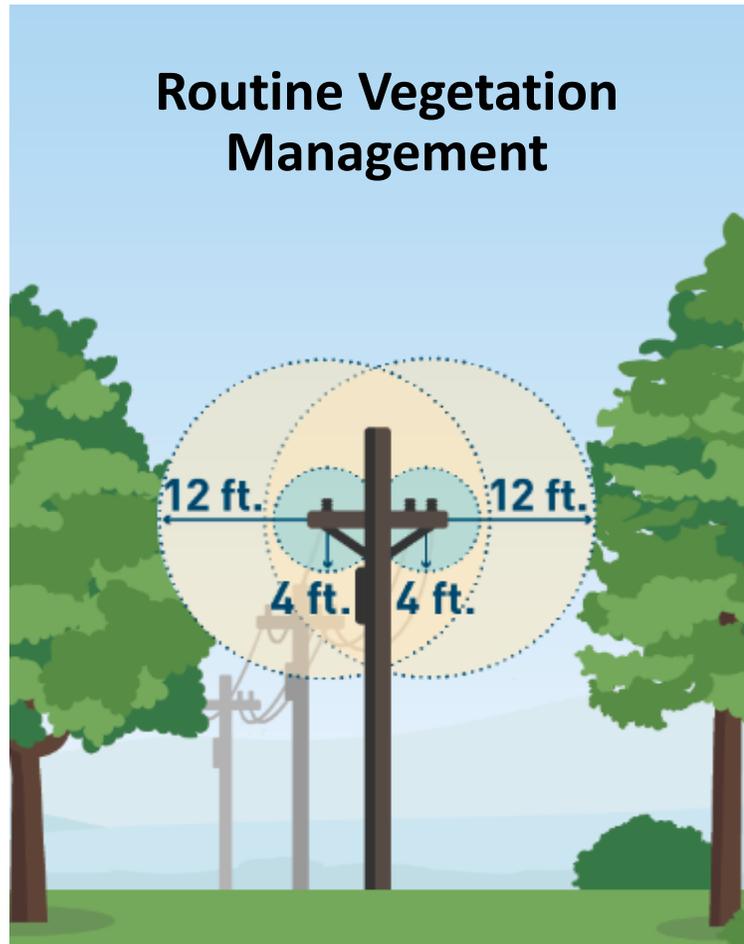
- ✓ **Inspect ~100,000 miles** of overhead powerlines
- ✓ **Prune or cut down more than 1 million trees** that are an unsafe distance from the line
- ✓ **Address dead, dying or hazard trees**
- ✓ **Conduct additional trimming** around lines that have had a lot of vegetation-caused outages



i To learn more, visit [pge.com/trees](https://www.pge.com/trees)

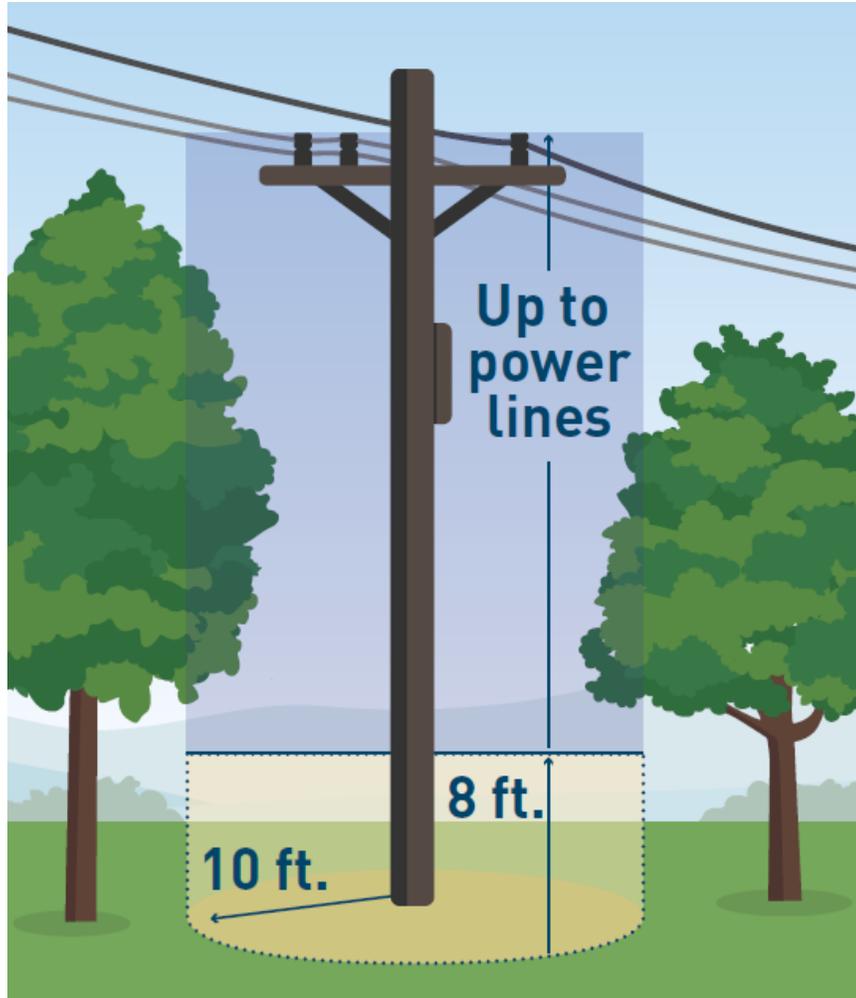
Keeping Trees Away From Overhead Powerlines

Annual inspections along all electric distribution lines

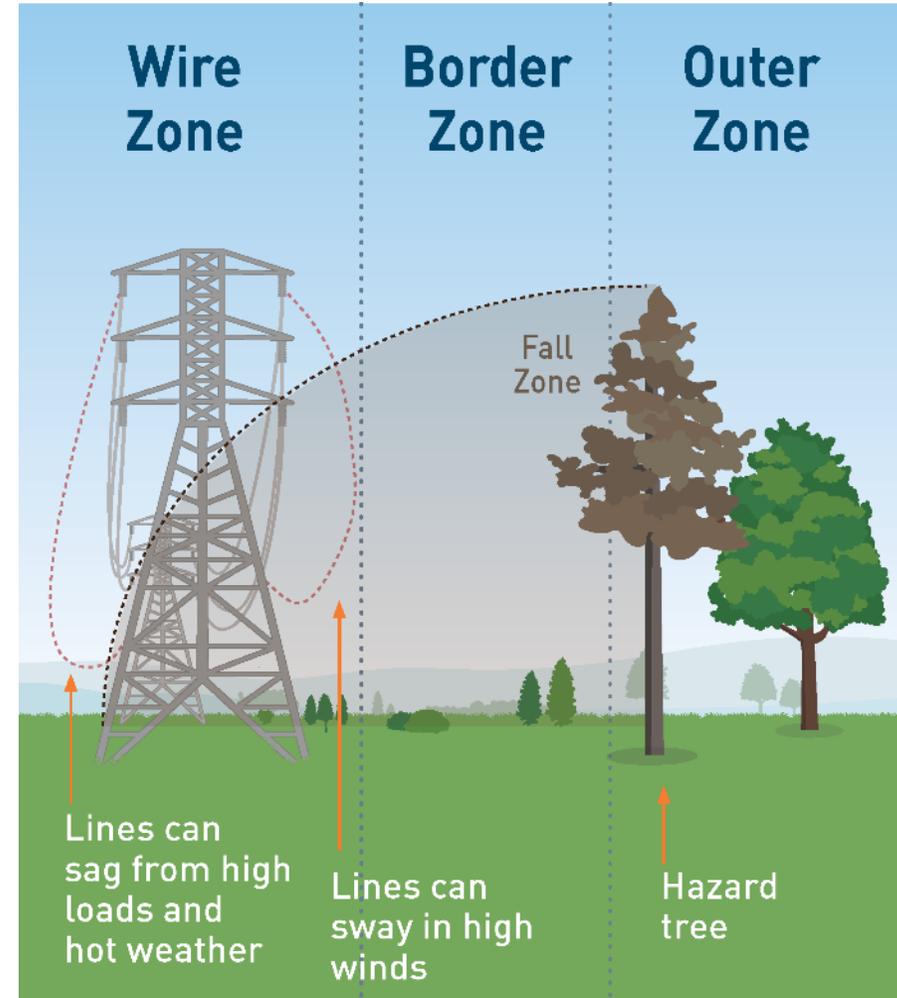


We are managing vegetation near our powerlines through a variety of programs.

Distribution Pole Clearing and Vegetation Work Around Transmission Lines



Pole Clearing



Work Around Transmission Lines

Customers can expect the following when vegetation management work is being conducted in their communities:

- ① **Advance notifications** before inspections or tree work begins on your property
- ② **Inspections** to identify potential safety concerns
- ③ **Tree work** following the inspection to complete any necessary safety work
- ④ **Safety and quality checks** through follow-up inspections to ensure work meets the required safety standards



Our crews manage woody debris, which is material smaller than four inches in diameter, through methods such as chipping or scattering onsite.

Wood management may include:

- ✓ Relocating wood to a safe location on the property
- ✓ Hauling wood offsite
- ✓ Chipping wood onsite
- ✓ Lopping and scattering material onsite



i To learn more, visit pge.com/woodmanagement

Wildfire Safety Outages





Enhanced Powerline Safety Settings A Technology To Prevent Wildfires

How It Works

Turning off power within one-tenth of a second if a tree branch or other object strikes the line.

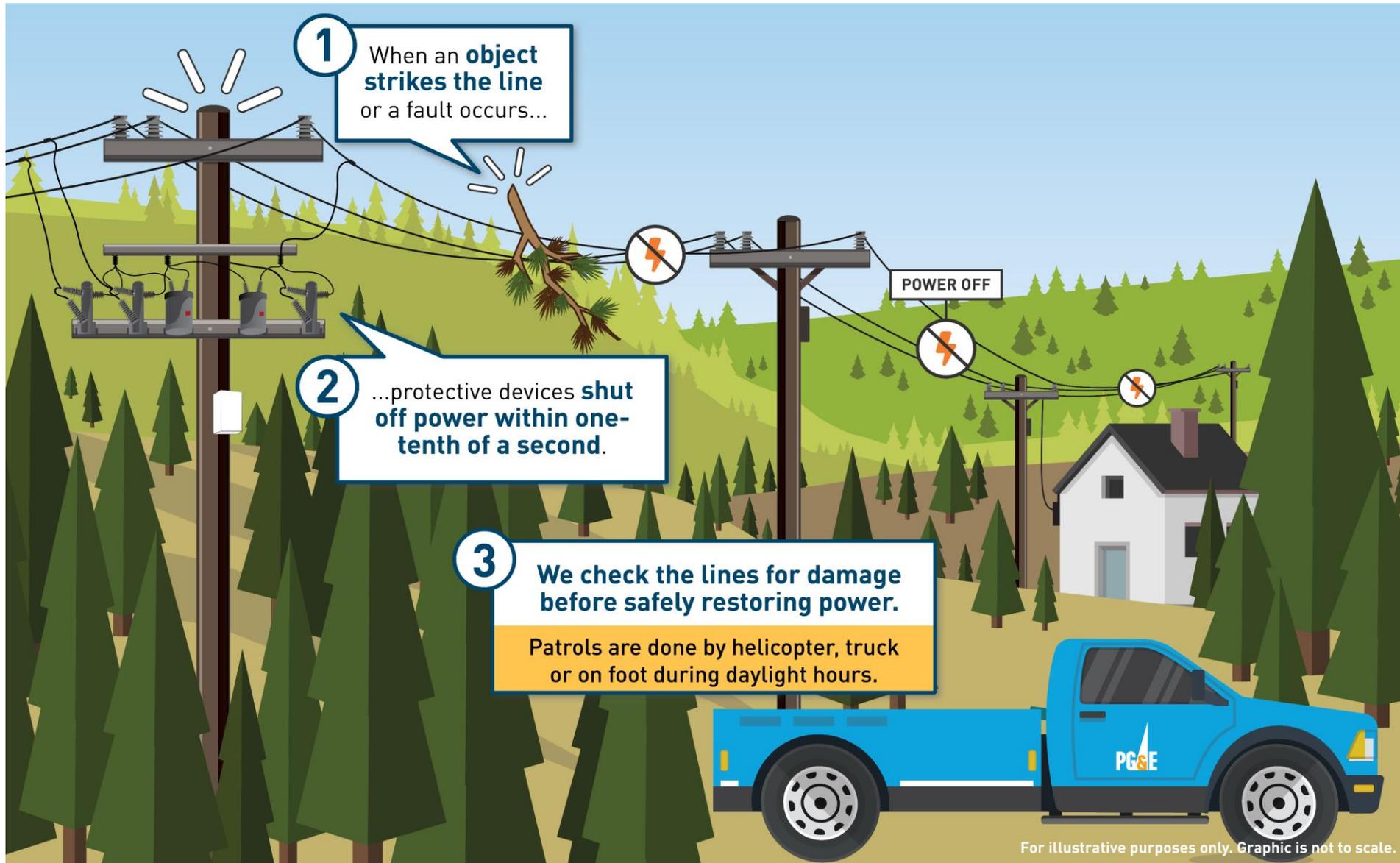
Why We Do It

Stopping wildfires before they have a chance to start.



SAFETY SETTINGS IN ACTION IN NAPA COUNTY

Safety Settings, Step-By-Step





Efforts To Improve Reliability and the Customer Experience

We are continuing to engage and provide resources to all customers and increasing our efforts with those customers most impacted. This includes:

- ✓ **Targeting** additional outreach to the most impacted customers
- ✓ **Expanding** backup power support for vulnerable and highly impacted customers
- ✓ **Installing** more fault indicators and line sensors to reduce outage length
- ✓ **Improving** outage notifications so they are clearer and more accurate
- ✓ **Conducting** targeted vegetation management and animal mitigation work
- ✓ **Improving** reliability using our multi-outage review process
- ✓ **Supporting** customers through partnerships with community-based organizations



PSPS Notification Improvements

In 2022, we made improvements to the way we notify customers before, during and after a Public Safety Power Shutoff.

PSPS notification improvements include:

- ✓ Informing customers when a PSPS is delayed, and de-energization may still occur
- ✓ Informing customers when power is “off” at time of de-energization
- ✓ PSPS notifications no longer allow for opt-outs

PG&E resources to help customers prepare:

Receive notifications for any address at

pge.com/addressalerts

Find resources and support at

pge.com/pspsresources

Update your contact information at

pge.com/pspsalerts



How and When are Stakeholders Notified?

	Severe Weather Forecasted			PSPS Event		CPUC Report	
	3 Days PRIORITY / ADVANCE	2 Day and 1 Day WATCH	Just Before WARNING	Power Turned Off	Weather Passed	ETOR Update	Power Restored
Agency/Critical Customer/CBO* Resource Partner Notifications	✓	✓	✓	✓	✓	✓	✓
Transmission Customers	✓	✓	✓	✓	✓	✓	✓
Customer Notifications Includes Address Alerts		✓	✓	✓	✓	✓	✓

*Community-Based Organization

**Electricity Dependent includes customers who use electricity for Durable Medical Equipment or Assistive Technology.

Medical Baseline Program, Self-Identified Vulnerable Status Participants and electricity dependent customers, also receive:**

- **Hourly Texts, Calls and Emails** until contact is made
- **Doorbell Rings** if no positive contact is made
- **Door Hanger Left** if no contact is made



Safety and Reliability in the North Valley & Sierra Region

We have taken significant steps to reduce wildfire ignitions while ensuring a continued focus on minimizing unplanned outages.

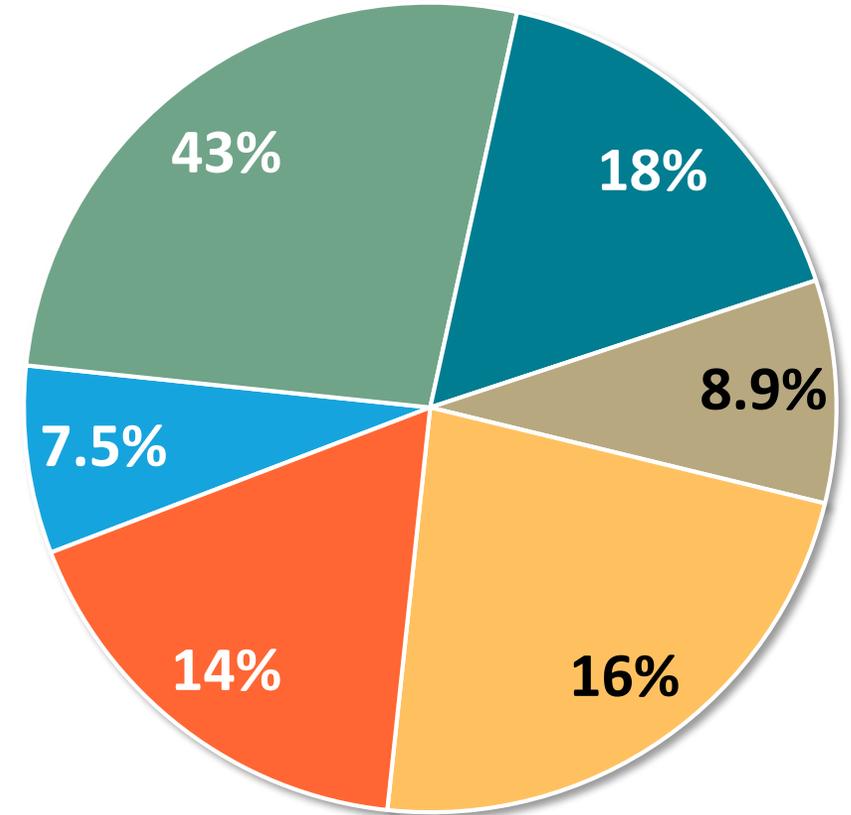
Power was on
99.9% of the time

Average Customers Impacted per Outage:

98

Average Outage Duration (Hours):

3.5



Types of Outages

- Third-Party Incident
- Weather/Vegetation
- PG&E Maintenance/Operations
- Animal Interference
- Equipment Issue
- Unknown

Customer Resources





Disability Disaster Access & Resources

Target audience: Electricity-dependent individuals with Access & Functional Needs (AFN) living in HFTDs.

Electricity-dependent:

Individuals who are at an increased risk of harm to their health, safety and independence during a PSPS, including, but not limited to:

- Medical and Non-Medical
- Behavioral, Mental and Emotional Health
- Mobility and Movement
- Communication
- Individuals who require devices for health, safety and independence

Resources Provided:

- Emergency Planning Assistance
- Portable backup batteries
- Accessible hotel accommodations
- Accessible transportation
- Food vouchers
- Fuel cards for generators
- Other resources as applicable

i To learn more, visit disabilitydisasteraccess.org/

Assistance offered through this program:

- Additional monthly allotment of energy at the lowest price at your current rate*
- Extra notifications in advance of a Public Safety Power Shutoff event, including in-person doorbell rings by a PG&E representative

*Please note that only certain rate plans are eligible for this additional allotment of energy



i Apply to the MBL program at:
pge.com/medicalbaseline

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

Customer Resources

- Personal and medical device charging
- Mobile battery chargers
- ADA-accessible restroom
- Wi-Fi
- Bottled water/Snacks
- Cooling/heating*
- Seating*
- Ice*

*Indoor locations only

COVID Considerations

- Facial coverings required
- Physical distancing
- Number of visitors limited
- Surfaces are sanitized



i To learn more, visit: [pge.com/crc](https://www.pge.com/crc)

Portable Battery Program

Supporting eligible customers with fully subsidized portable battery solutions.

 pge.com/pspsresources

Partnership with 211

24-7 free and confidential support and resources via calls or texts to 211.

 211ca.org

Generator and Battery Rebate Program

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

 pge.com/backuppowers

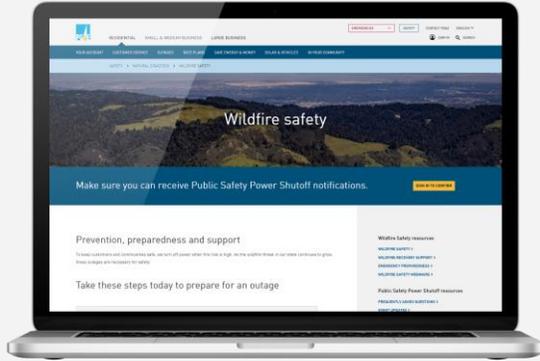
California Foundation for Independent Living Centers

Providing qualifying customers with hotel stays, food stipends and more.

 cfilc.org



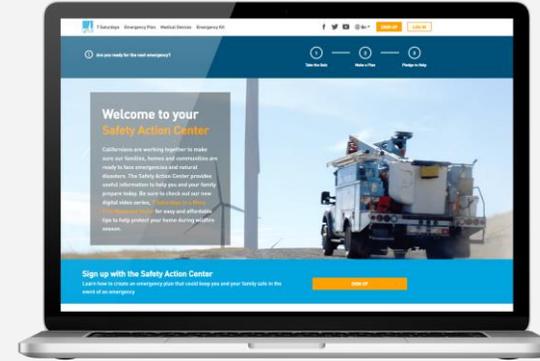
More Information and Tools For Customers to Prepare



Wildfire Safety

Information on wildfire prevention efforts

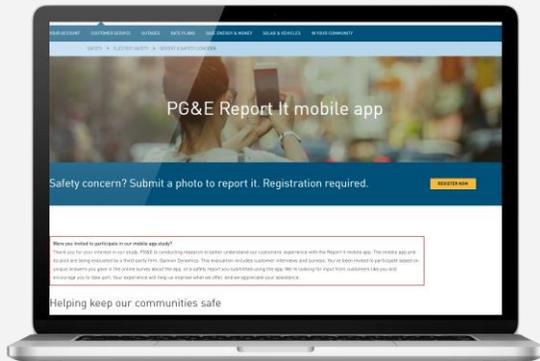
 pge.com/wildfiresafety



Safety Action Center

Create an emergency safety plan to keep you and your family safe

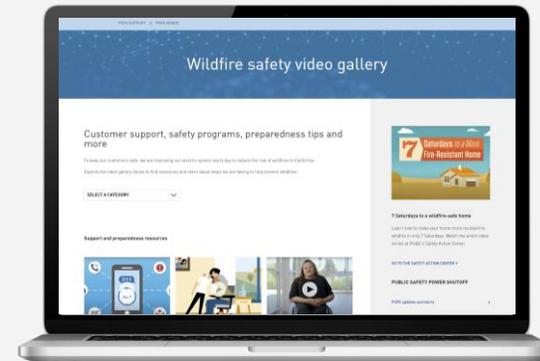
 safetyactioncenter.pge.com



Report It App

Submit photos of non-emergency potential safety concerns

 pge.com/reportit



Wildfire Safety Videos

Videos about wildfire resources and safety

 pge.com/wildfiresafetyvideos

Dedicated wildfire safety contacts: Hotline: 1-866-743-6589 | Email: wildfiresafety@pge.com

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

Local Resilience Efforts





Microgrid Incentive Program (MIP)

PG&E, along with San Diego Gas and Electric and Southern California Edison are awaiting CPUC approval of a new Microgrid Incentive Program to fund clean community microgrids that support the critical needs of vulnerable populations most likely to be impacted by outages.

- ✓ **Increase reliability and resiliency for critical public facilities** for disadvantaged and vulnerable populations impacted by grid outages.
- ✓ **Prioritize communities** with higher portions of low-income, Access and Functional Needs, and electricity dependent residents.
- ✓ **Enable communities with lower ability** to fund development of backup generation to maintain critical loads during outages.

Pending CPUC approval, we expect to be able to share additional details about the program later this year. Incentive fund requests will be evaluated and awarded on a competitive basis.



Community Microgrid Enablement Program (CMEP)

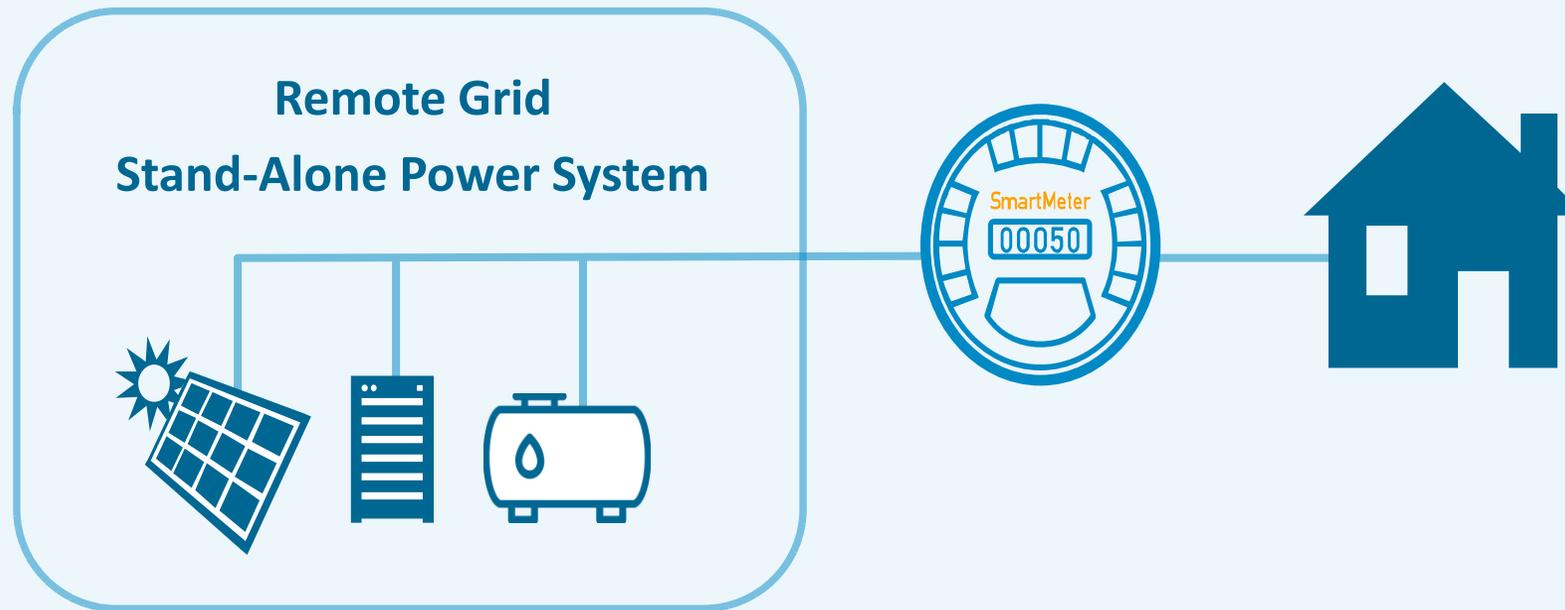
PG&E introduced the CMEP in April 2021 as part of our proposal to address PSPS mitigation. The program consists of four key elements:

- 1 Web-Based Tools and Information** – Providing financial, technical, and interconnection resources for community resilience projects.
- 2 Enhanced Utility Technical Support** – Three-stage process provides incremental support to facilitate development of multi-customer microgrids from initial concept exploration, through assessment, and execution.
- 3 Community Microgrid Enablement Tariff (E-CMET)** – Governs the eligibility, development, and island and transitional operation of community microgrids.
- 4 Cost Offsets** – Up to \$3 million per project to offset the cost of equipment to enable the islanding of a microgrid. Does not cover generation or storage costs.

What is a Remote Grid?

A remote grid is a standalone power system that is independent of the electric grid.

It uses solar, batteries and fuel-powered generation to provide continuous electric service to your home or business. The system is safe, reliable and clean, and significantly reduces wildfire risk by eliminating powerlines in high fire-threat areas.



Remote Grid Benefits

- ✓ **Reduce wildfire risk** from electric poles and wires
- ✓ **Allow for fewer service interruptions** during winter weather or PSPS
- ✓ **Equal or improved quality and level of service** provided with no change to existing PG&E billing
- ✓ **Are built, maintained and serviced by PG&E professionals** and its qualified contractors





Microgrid Technology Pilots

PG&E has initiated a variety of technology-related pilot programs to help mitigate the risk of wildfires and PSPS events.

Pilot	Description	Status
Mobile BESS Development	<ul style="list-style-type: none">Continued development of mobile battery storage for PSPS mitigation through Tesla Megapack batteriesUndergoing additional safety and operational improvements, tested and studied at the Foresthill site	In Progress
Vehicle Grid Integration (VGI) Microgrid Pilot #3	<ul style="list-style-type: none">As part of the VGI Decision, PG&E plans to test vehicle-to-grid technology to support resiliency in multi-customer PSPS impacted microgridsWill be tested on vehicle-to-grid chargers installed within PSPS microgrids during 2023	Beginning in 2023
Calistoga Clean Substation Pilot	<ul style="list-style-type: none">A proposed, highly innovative, renewable energy microgrid to mitigate PSPS outages using green hydrogen fuel cells and batteriesUses mobile diesel generators to provide backup power at substationsExpected to have no operating emissions of greenhouse gases or other local air pollutants, while still meeting all operating and cost containment requirements for substation microgrids	Pending CPUC Approval

Open Discussion/Q&A



Thank You



Appendix





2022 Q4 Follow Up and Action Items

Description	Agency	Status
Inquiry on WMP performance and if PG&E will complete the remaining 30% of undergrounding work this year to meet the 2022 target.	California Public Utilities Commission	Complete
Inquiry on undergrounding that has occurred in Placer and El Dorado Counties, specifically how much of the undergrounding is transmission line.	Pioneer Community Energy	Complete
Inquiry regarding EPSS statistics and how they are factored into the planning and prioritizing for undergrounding of distribution lines.	Pioneer Community Energy	Complete
Question on capacity restrictions in the Humboldt area, whether there are restrictions or areas where load will not meet industrial or large housing growth needs.	Pioneer Community Energy	Complete
Follow up about whether PG&E is continuing to use the remote grid program in the Sierra Nevada area.	Pioneer Community Energy	Complete
Follow up regarding CRC capacity for large battery devices and PG&E's provided transportation and device transport to the CRC sites.	Independent Living Resources of Solano & Contra Costa Counties	Complete
Request to provide updates on EPSS and Undergrounding pilots in San Mateo County.	Peninsula Clean Energy	Complete
Follow up regarding plans for the conversion of bare wire to covered wire on the Hicks lines in Santa Clara County.	County of Santa Clara	Complete
Follow up with OEM to schedule a more detailed briefing on continued improvements in 2023 Q1 on the Hicks circuit.	County of Santa Clara	Complete



Public Safety Partner Support

PG&E is committed to working collaboratively with Public Safety Partners in advance of and during PSPS outages to support affected customers and communities.

You can send updates to your contact information to the following:

**Water, Wastewater and
Communication Service Providers**

Richard Navarro:
ricardo.navarro@pge.com
209-604-5066

**For Federal, State, Local and Tribal
Agencies, CCAs and POU's**

Roy Regala:
roy.regala@pge.com
650-418-6771



If you have questions, please contact PGELiaisonOfficer@pge.com



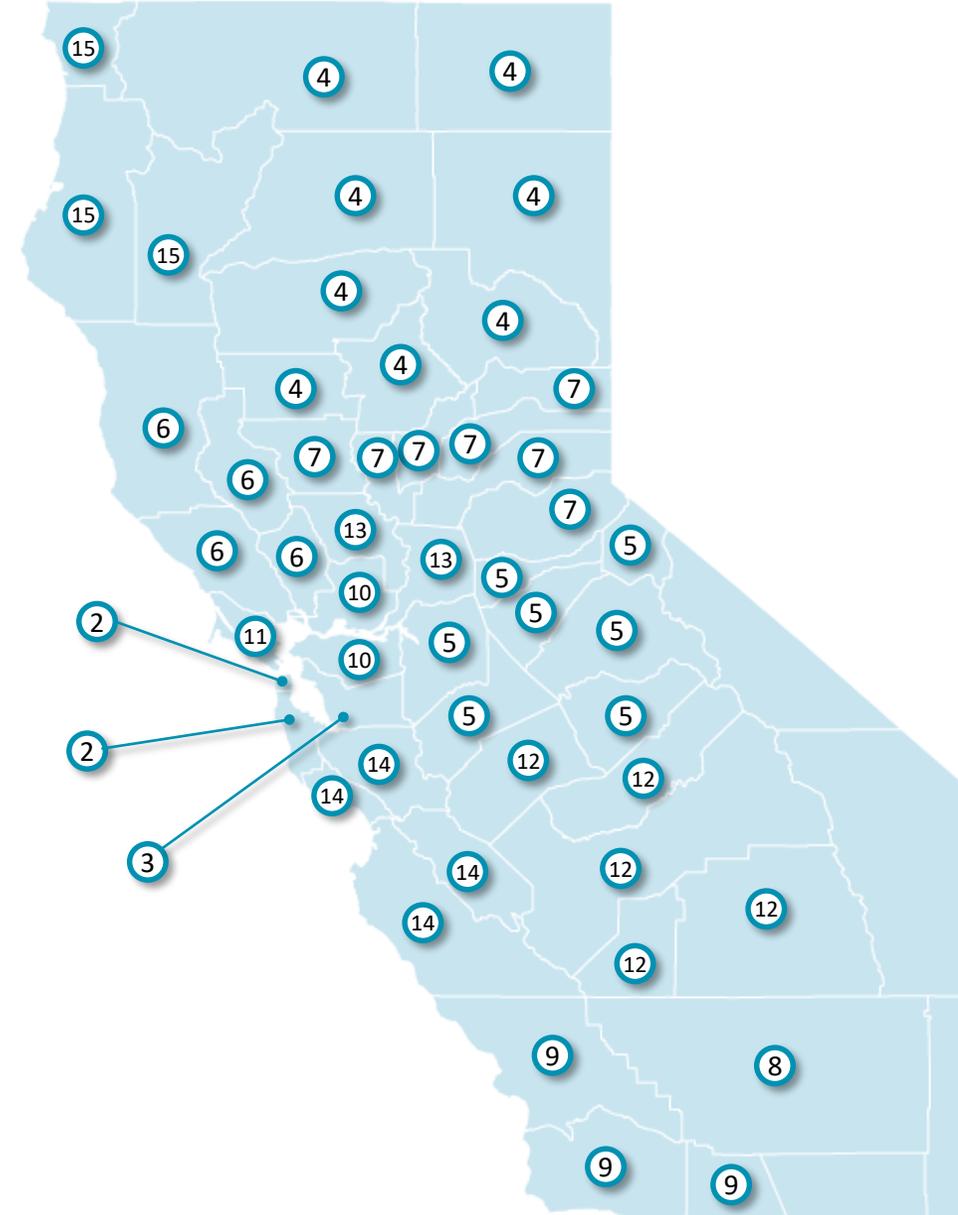
DDAR Centers

Organization

1	The Center for Independent Living (CIL)
2	Center for Independence of Individuals with Disabilities (CID)
3	Community Resources for Independent Living (CRIL)
4	Disability Action Center (DAC)
5	Disability Resources Agency for Independent Living (DRAIL)
6	Disability Services & Legal Center (DSLCL)
7	Center for Independent Living (FREED)
8	Independent Living Center of Kern County (ILCKC)
9	Independent Living Resource Center (ILRC)
10	Independent Living Resources of Solano & Contra Costa Counties (ILRSCC)
11	Marin Center for Independent Living (MCIL)
12	Resources for Independent Living Central Valley (RICV)
13	Resources for Independent Living (RIL)
14	Silicon Valley Independent Living Center (SVILC)
15	Tri-County Independent Living Center (TCIL)
16	The California Foundation for Independent Living Centers (CFILC)*

Counties Served

Alameda
San Mateo
Alameda
Butte, Glenn, Lassen, Modoc, Plumas, Shasta, Siskiyou, Tehama
Alpine, Amador, Calaveras, Mariposa, San Joaquin, Stanislaus, Tuolumne
Lake, Mendocino, Napa, Sonoma
Colusa, El Dorado, Nevada, Placer, Sierra, Sutter, Yuba
Kern
San Luis Obispo, Santa Barbara, Ventura
Contra Costa, Solano
Marin
Fresno, Kings, Madera, Merced, Tulare
Sacramento, Yolo
Santa Clara, Santa Cruz, San Benito, Monterey
Humboldt, Trinity, Del Norte
*Systemwide

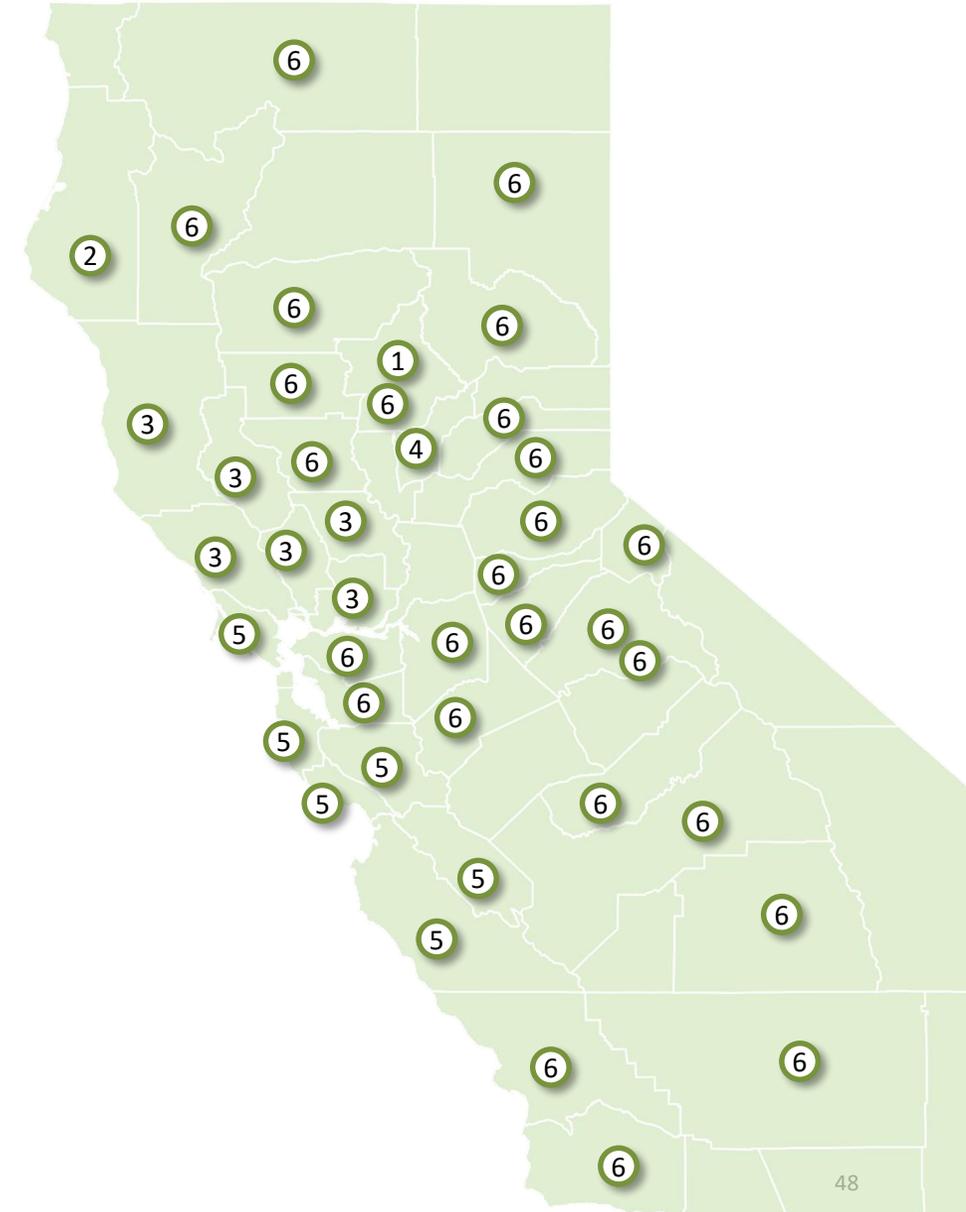


Some of the measures included in this presentation are contemplated as additional precautionary measures intended to further reduce the risk of wildfires.



Portable Battery Providers

Organization		Counties Served
1	Community Action Agency of Butte County, Inc. (LiHEAP vendor) 181 E. Shasta Avenue, Chico, CA 95973 Phone: (530) 712-2600	Butte
2	Redwood Community Action Agency (LiHEAP vendor) 904 G Street, Eureka, CA 95501 (707) 269-2001	Humboldt
3	North Coast Energy Services, Inc. (LiHEAP vendor) 966 Mazzoni Street, Ukiah, CA 95482 Toll-free:(800) 233-4480 Phone:(707) 463-0303	Lake, Mendocino, Napa, Solano, Sonoma, Yolo
4	Community Resource Project, Inc. (LiHEAP vendor) 250 Harris Avenue, Sacramento, CA 95838 Phone: (916) 567-5220	Yuba
5	Central Coast Energy Services, Inc. (LiHEAP vendor) 800-564-4012	Monterey, San Benito, Santa Cruz, San Mateo, Santa Clara, Marin
6	Richard Heath & Associates 559-214-1190	Alameda, Alpine, Amador, Butte, Calaveras, Colusa, Contra Costa, El Dorado, Fresno, Glenn, Kern, Lassen, Madera, Mariposa, Nevada, Placer, Plumas, San Joaquin, San Luis Obispo, Santa Barbara, Shasta, Sierra, Siskiyou, Stanislaus, Tehama, Trinity, Tulare, Tuolumne



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

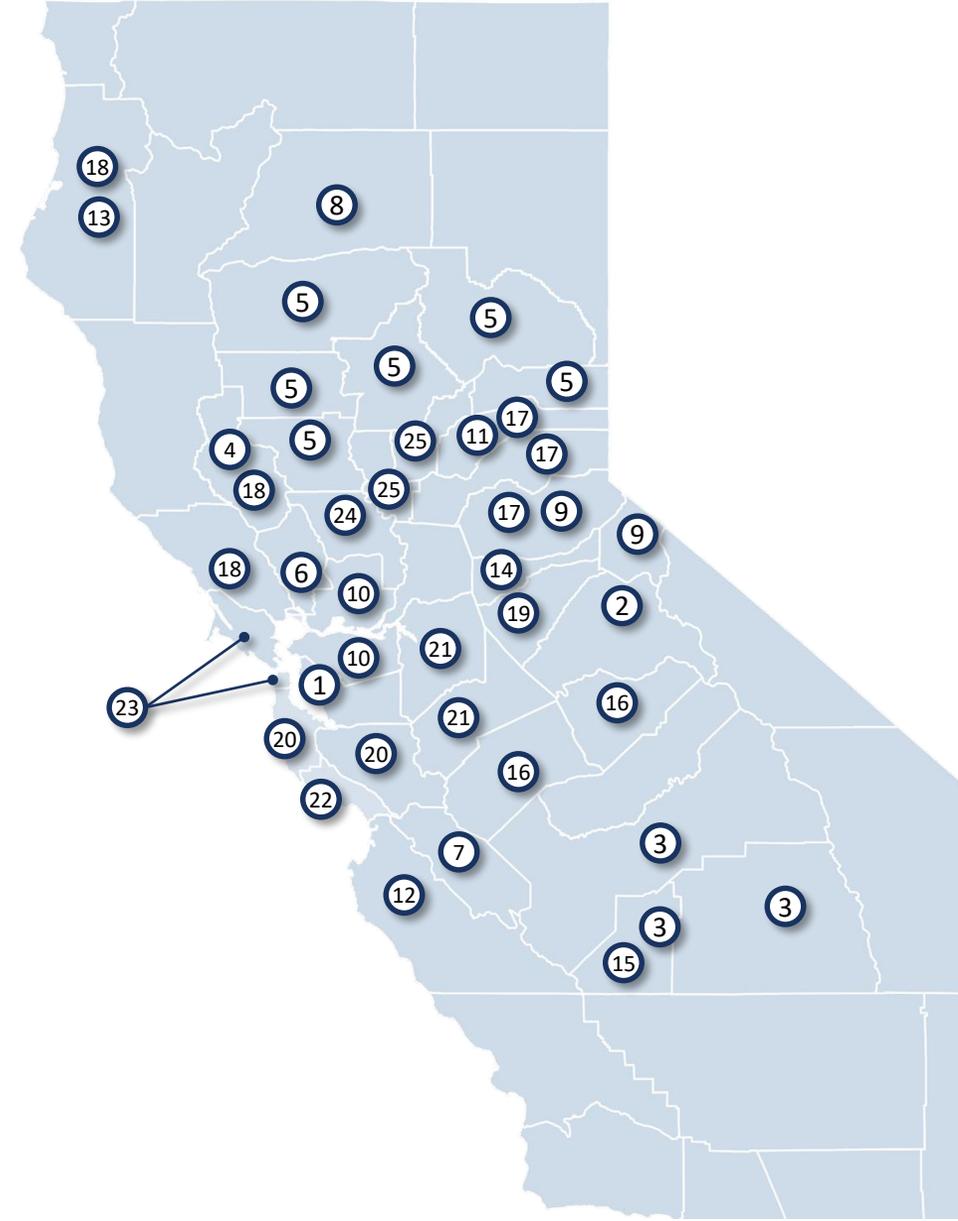


Food Banks

Organization

Counties Served

1	Alameda County Food Bank	Alameda
2	ATCAA Food Bank	Tuolumne
3	Central California Food Bank	Fresno, Kings, Tulare
4	Clear Lake Gleamers Food Bank	Lake
5	Community Action Agency of Butte County	Butte, Colusa, Glenn, Plumas, Sierra, Tehama
6	Community Action of Napa Valley Food Bank	Napa
7	Community Food Bank of San Benito	San Benito
8	Dignity Health Connected Living	Shasta
9	El Dorado Food Bank	Alpine, El Dorado
10	Food Bank of Contra Costa & Solano	Contra Costa, Solano
11	Food Bank of Nevada County	Nevada
12	Food Bank for Monterey County	Monterey
13	Food for People	Humboldt
14	Interfaith Council of Amador	Amador
15	Kings Community Action Organization	Kings
16	Merced County Food Bank	Mariposa, Merced
17	Placer Food Bank	Placer, Nevada, El Dorado
18	Redwood Empire Food Bank	Sonoma, Humboldt, Lake
19	Resource Connection	Calaveras
20	Second Harvest Food Bank of Silicon Valley	San Mateo, Santa Clara
21	Second Harvest Food Bank San Joaquin & Stanislaus	San Joaquin, Stanislaus
22	Second Harvest Food Bank Santa Cruz County	Santa Cruz
23	The San Francisco-Marín Food Bank	Marin, San Francisco
24	Yolo Food Bank	Yolo
25	Yuba Sutter Food Bank	Sutter, Yuba



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



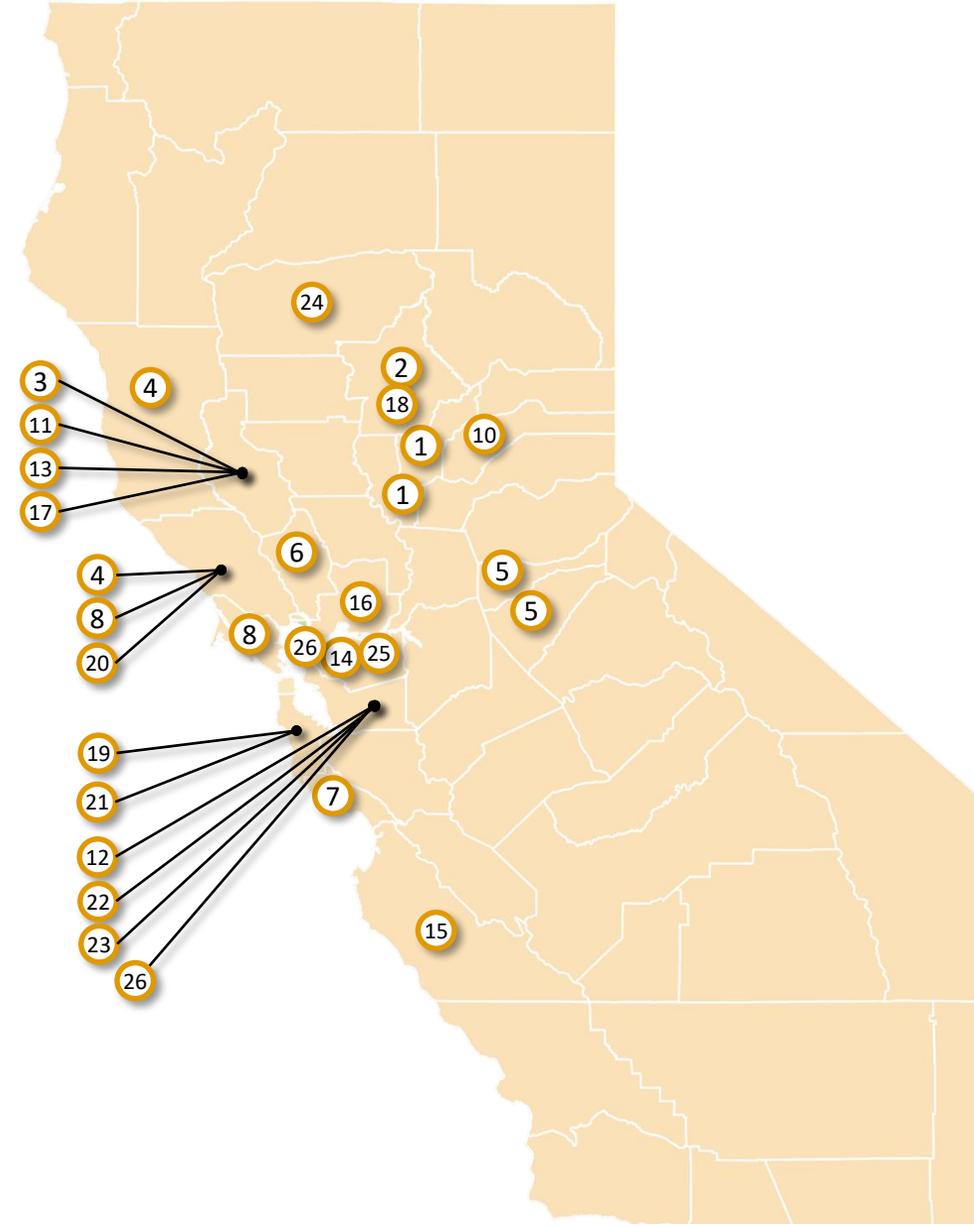
Meals on Wheels

Organization

1	Area Agency on Aging (Yuba Sutter Meals on Wheels)
2	Chico Meals on Wheels
3	Clearlake Senior Center
4	Coastal Seniors
5	Common Ground Senior Services
6	Community Action Agency of Napa Valley
7	Community Bridges
8	Council on Aging
9	Dignity Health Connected Living
10	Gold Country Community Services
11	Lakeport Senior Center
12	Life ElderCare
13	Liveoak Senior Center
14	Meals on Wheels Diablo Region
15	Meals on Wheels Monterey Peninsula
16	Meals on Wheels Solano County
17	Middletown Senior Center
18	Passages
19	Peninsula Volunteers
20	Petaluma People Services
21	Senior Coastsiders
22	Service Opportunity for Seniors
23	Spectrum Community Services
24	Tehama County Community Action Agency
25	West Contra Costa Meals on Wheels
26	J-Sei

Counties Served

Yuba, Sutter
Butte
Lake
Mendocino, Sonoma
Amador, Calaveras
Napa
Santa Cruz
Marin, Sonoma
Shasta
Nevada
Lake
Alameda
Lake
Contra Costa
Monterey
Solano
Lake
Butte
San Mateo
Sonoma
San Mateo
Alameda
Alameda
Tehama
Contra Costa
Alameda, Contra Costa



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



Status of Planned/Upcoming Resilience Efforts – Systemwide

Program	County	Site Name/Area	Status	Estimated Completion
Distribution Microgrids*	Butte	Magalia	Operational	N/A
	Calaveras	Arnold	Operational	N/A
	El Dorado	Georgetown	Operational	N/A
	El Dorado	Pollock Pines	Operational	N/A
	Humboldt	Redwood Coast Airport Microgrid*****	Operational	N/A
	Lake	Clearlake North	Construction Complete	Q2 2023
	Lake	Lucerne	Operational	N/A
	Lake	Middletown	Operational	N/A
	Napa	Angwin	Operational	N/A
	Napa	Calistoga	Operational	N/A
	Placer	Colfax	Operational	N/A
	Placer	Foresthill	Operational	N/A
	Shasta	Shingletown	Operational	N/A
	Tuolumne	Groveland	Operational	N/A
Islanding	Calaveras**	Salt Springs Island	Operational	N/A
	Calaveras***	West Point Island	Operational	N/A
	Humboldt	Humboldt Bay Island	Operational	N/A
	Plumas	Caribou Island	Operational	N/A
	Tehama	Red Bluff Island	Operational	N/A
	Tuolumne	Spring Gap	Operational	N/A

Local work plans are subject to change and data is based on the best available information at this time.

**Distribution microgrids are considered operational once temporary generation is available and energization plans are finalized.*

***Also serves portions of Amador and Alpine Counties.*

****Also serves portions of Amador County.*

*****Facility owned by Redwood Costa Energy Authority; PG&E owns, operates and maintains microgrid circuit*



Status of Planned/Upcoming Resilience Efforts – Systemwide

Program	County	Site Name/Area	Status	Estimated Completion
Remote Grids	Mariposa	Briceburg - Mariposa Remote 001	Operational	N/A
	Tehama	Corning Remote 0001 - 0002	Operational	Q4 2022
	Mariposa	Slaughter House	Under Construction	Q1 2023
	Mariposa	Miami Mountain	Under Construction	Q1 2023
	Madera	Melvin	Planning	Q4 2023
	Sonoma	Pepperwood	Planning	Q4 2023
	Tehama	Battle Creek	Planning	Q4 2023
	Tehama	Manton Wildcat	Planning	Q4 2023
	Tulare	Whitaker Forest	Planning	Q4 2023
	Tuolumne	Forebay	Planning	Q4 2023
	Lake	Anderson Springs	Planning	Q1 2024
	Shasta	Shingletown Wildcat	Planning	Q1 2024

Local work plans are subject to change and data is based on the best available information at this time.

Community Wildfire Safety Program

Q1 2023 REGIONAL WORKING GROUP

North Coast Region

March 23, 2023



Virtual Sign In Reminder

Please “sign in” using the chat function and provide your **name, organization and email**.



Safety

Preparedness Tips

Always be prepared in case of a natural disaster or an emergency

Build a disaster supply kit for you, your family or your business

Be sure to include food, water, medication, flashlights, first aid kits, a list of emergency contacts and more

Visit safetyactioncenter.pge.com to help prepare for an emergency





Agenda

- 1 Wildfire Mitigation Plan

- 2 Community Wildfire Safety Program

- 3 Local Resilience Efforts

- 4 Open Discussion and Q&A

PG&E SPEAKERS

Austin Sharp
Regional Senior Manager

Mark Van Gorder
Local Government Affairs

Ron Karlen
Public Safety Specialist

Reno Franklin
Tribal Liaison

Eric Haggerty
Vegetation Management

An Update on Your Winter Storm Response

SURF Surf Market · Following
1d · 🌐

Thank you!

Say thank you, give them a wave and let's show our appreciation for the 500+ PG&E workers and sub-contractors who are here in town and helping us to get the lights back on.



Customer appreciation in Gualala



Redwood Empire Food Bank team event



Meeting with the Yurok Tribe and Hoopa Tribe

An Update on Your Winter Storm Response



Salmon Creek Temporary Generation helped keep power on for customers



Tree down in Bodega Bay



Crews working to repair downed electrical equipment

Wildfire Mitigation Plan



We will submit our annual Wildfire Mitigation Plan to California's Office of Energy and Infrastructure Safety (OEIS).

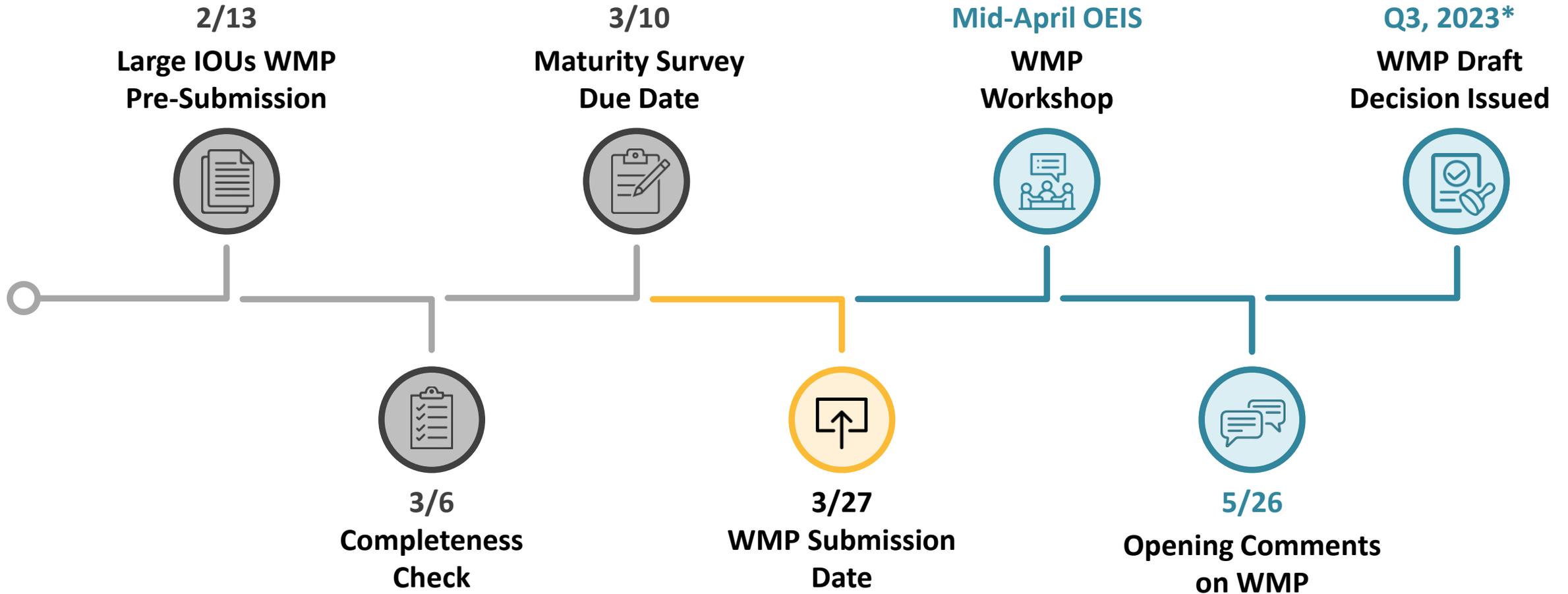
The Wildfire Mitigation Plan:

- ✓ Outlines our strategy for mitigating wildfire risk
- ✓ Aligns strategic goals of engaging with our stakeholders
- ✓ Provides updates to key wildfire mitigation programs
- ✓ Fulfills regulatory requirements



i To learn more, visit pge.com/wildfiremitigationplan

Important 2023 Wildfire Mitigation Plan Dates



Community Wildfire Safety Program



Wildfire Safety Objectives in the North Coast Region



Key Wildfire Safety Objectives This Year

Prevent Wildfires



Reduce Customer Impacts



Provide Better Resources





Multiple Layers of Safety

Our work since 2017 has **eliminated 90% of wildfire risk from our system** through:

Ongoing Safety Efforts

Vegetation Management

System Inspections

Long-Term System Improvements

Undergrounding Powerlines

Overhead System Hardening

Safety Programs and Technology

Public Safety Power Shutoff

Enhanced Powerline Safety Settings

Situational Awareness

High-Definition Cameras

Weather Stations

These efforts add additional layers of protection on top of our system and technology improvements.

PG&E is strengthening its electric system by hardening powerlines. This includes undergrounding powerlines, as well as replacing overhead lines and equipment with sturdier materials.

Our overhead hardening includes:

- Stronger poles
- Larger crossarms
- Covered powerlines

Overhead hardening benefits include:

- Mitigating the risk of wildfires
- Enhancing long-term safety
- Improving reliability

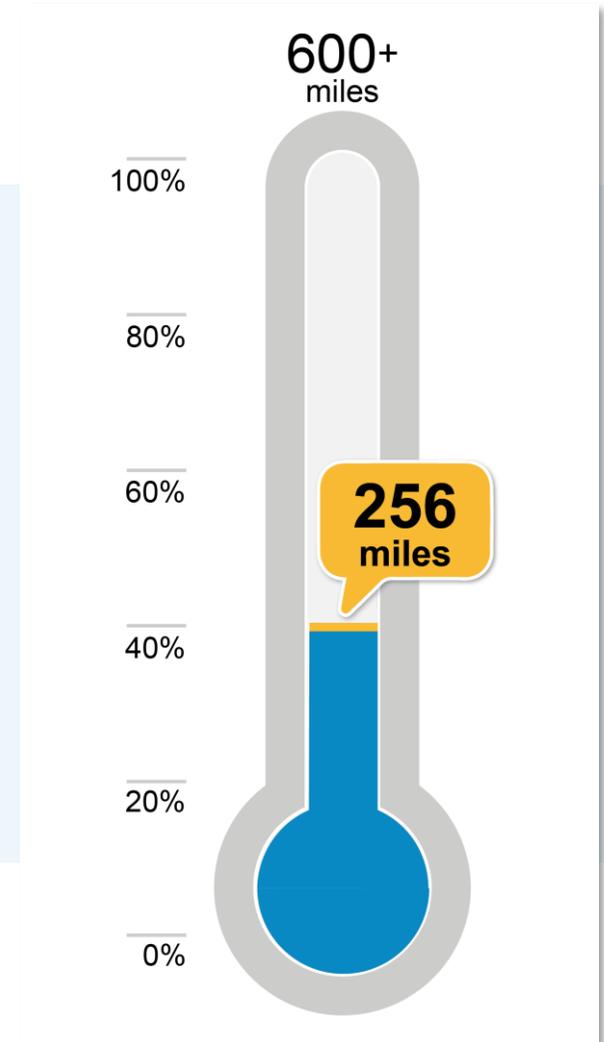


In 2022, PG&E completed **42 miles** of overhead hardening and line removal in the **North Coast Region.**

Since the program's announcement in 2021, **we have undergrounded 256 miles**, with 180 of those completed in 2022.



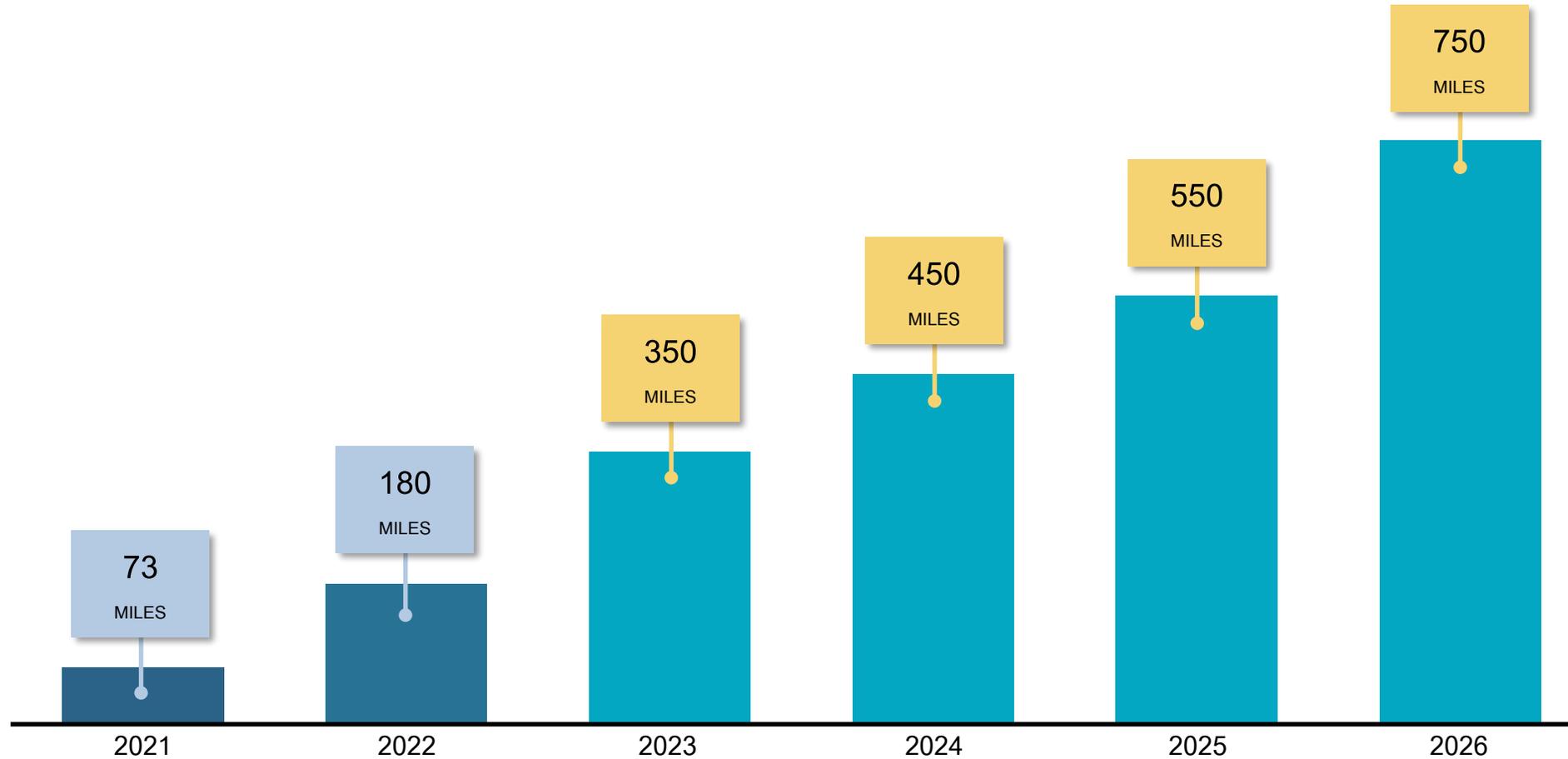
We are on target to underground 600+ miles by the end 2023.



*Data as of XX/XX



Ramping Up Our Undergrounding Efforts to Meet Our Targets



*Pending California Public Utilities Commission (CPUC) and California Office of Energy Infrastructure Safety (OEIS) approval.



Identifying Undergrounding Projects to Reduce Wildfire Risk

We are prioritizing undergrounding in areas where we have the greatest impact on reducing wildfire risk.

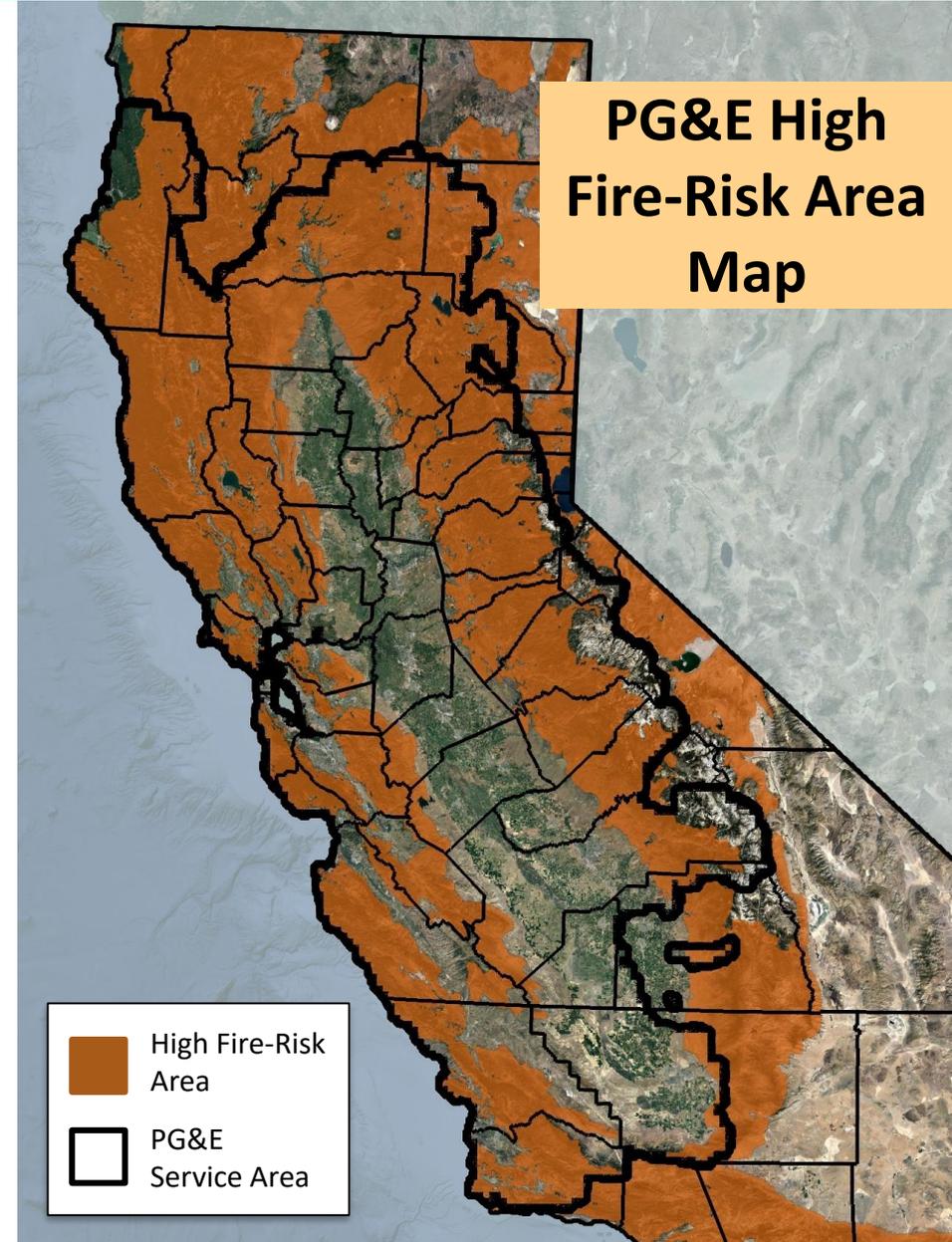
We use advanced machine-learning based risk modeling and partner with wildfire analysis providers. This modeling considers:

- Historic ignitions
- Vegetation
- Topography
- Age and condition of the electrical equipment

We also consider the probability of an ignition and consequences if a wildfire were to start in a specific location.

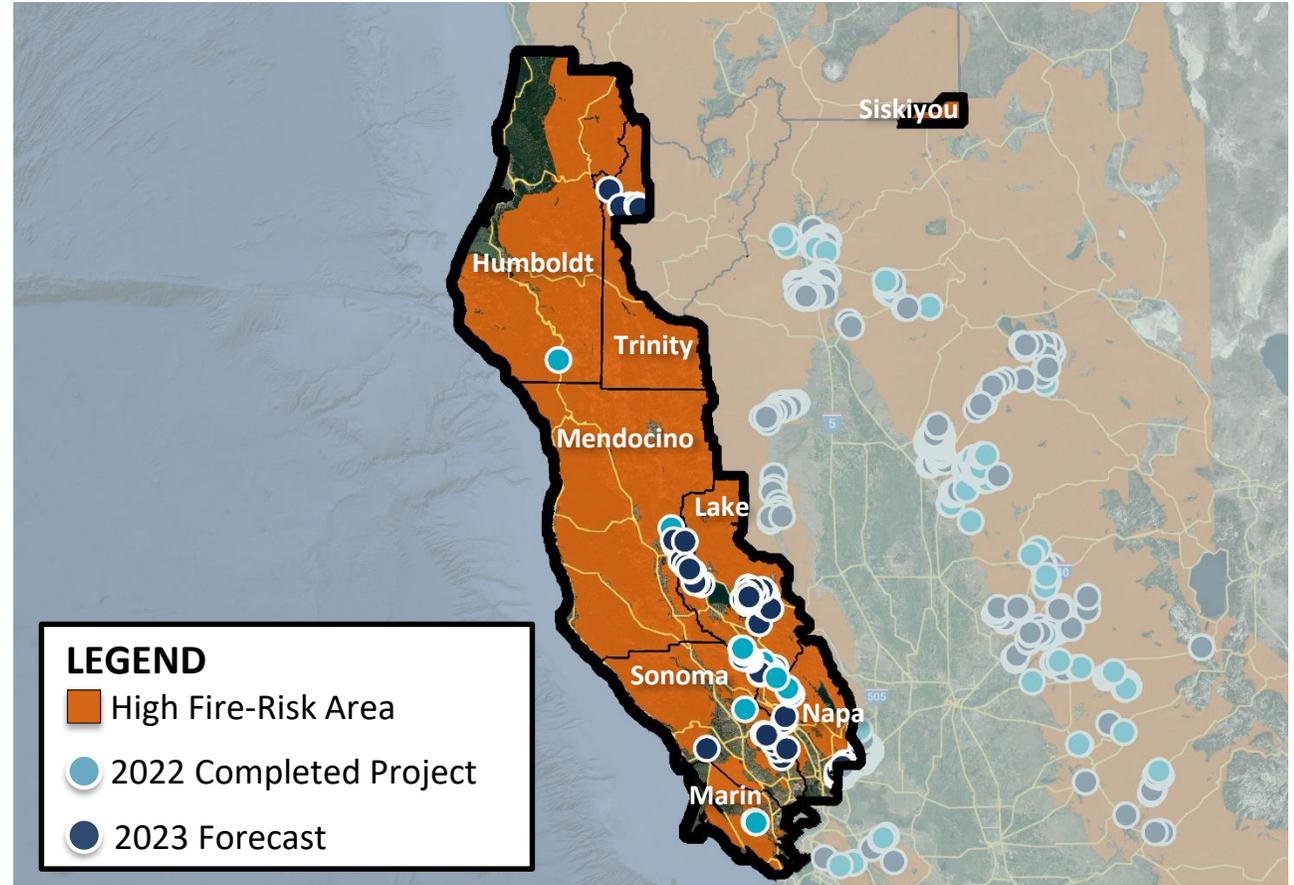
To learn more, visit [pge.com/undergrounding](https://www.pge.com/undergrounding)

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



North Coast 2022-2023 Undergrounding

North Coast Undergrounding		
COUNTY	2022 (Completed)	2023 (Forecast)
Humboldt	<1	-
Lake	11	85
Marin	1	1
Mendocino	<1	4
Napa	5	12
Siskiyou	-	-
Sonoma	2	6
Trinity	-	11
TOTAL	20	120



**Data as of 01/03/2023. This map is for illustrative purposes. Forecasts can change as our risk model evolves to address the greatest wildfire risk. Forecast miles also exceed annual targets. Mileage in your community may increase or decrease due to access, weather, permitting or other constraints. In most cases, if a project is not completed during the year originally identified, it will continue through planning/construction phases during subsequent years.*

Vegetation Management

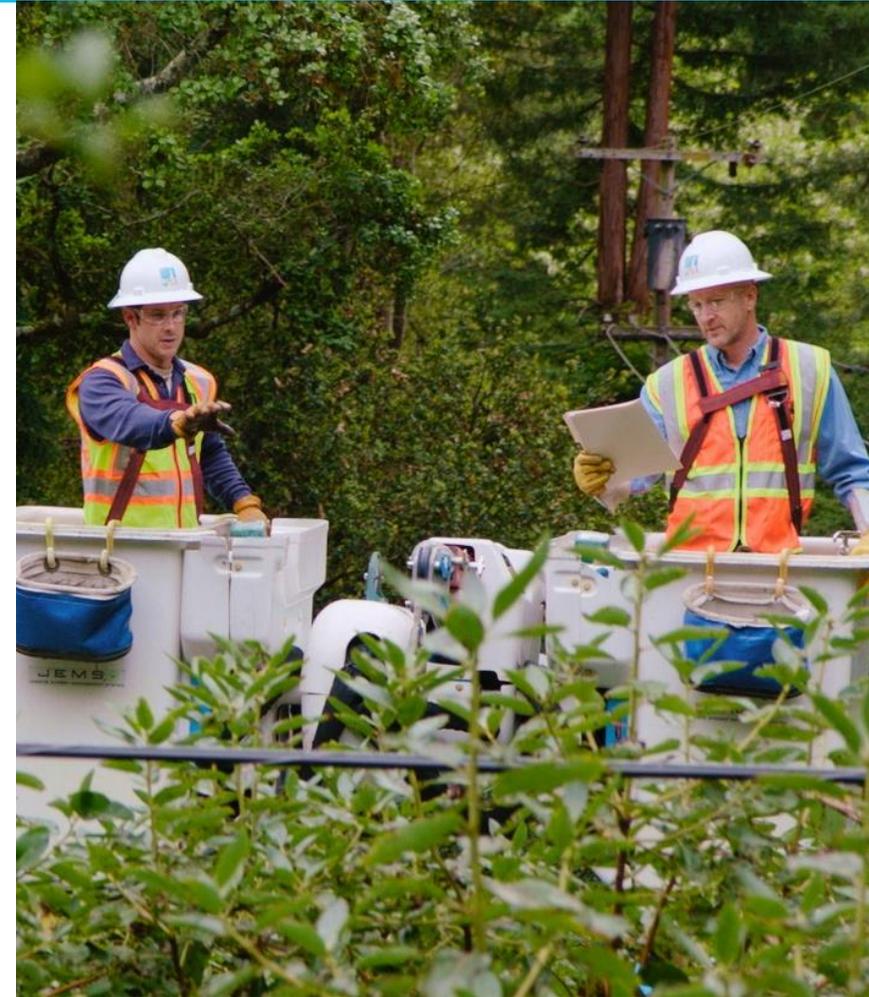


Keeping Trees Away From Powerlines

When trees are too close to powerlines, they can cause outages and serious safety issues.

That's why each year we:

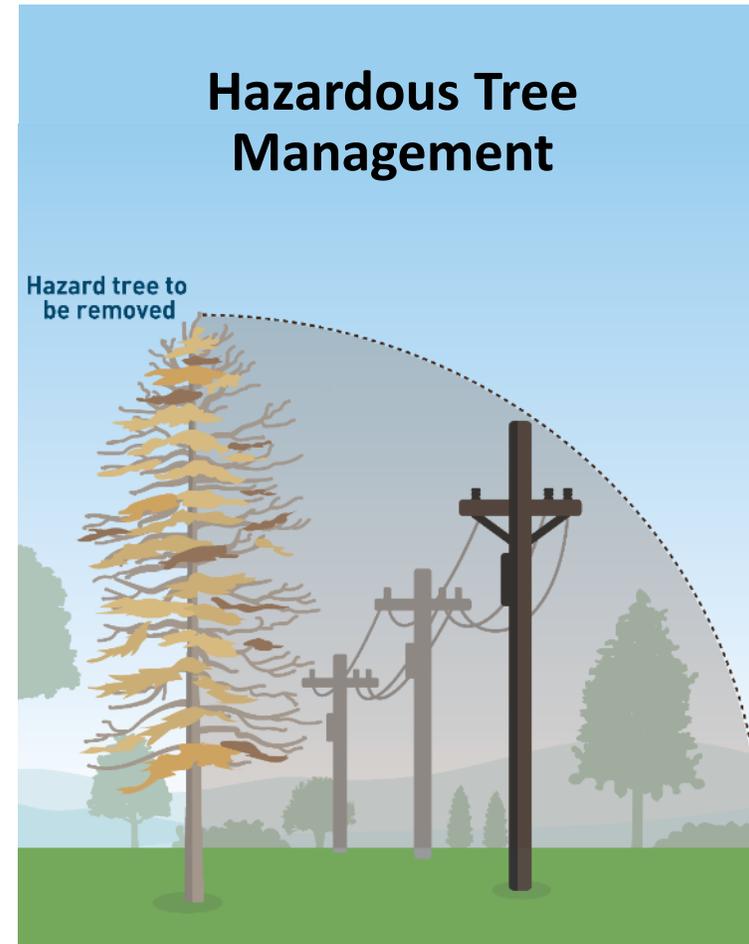
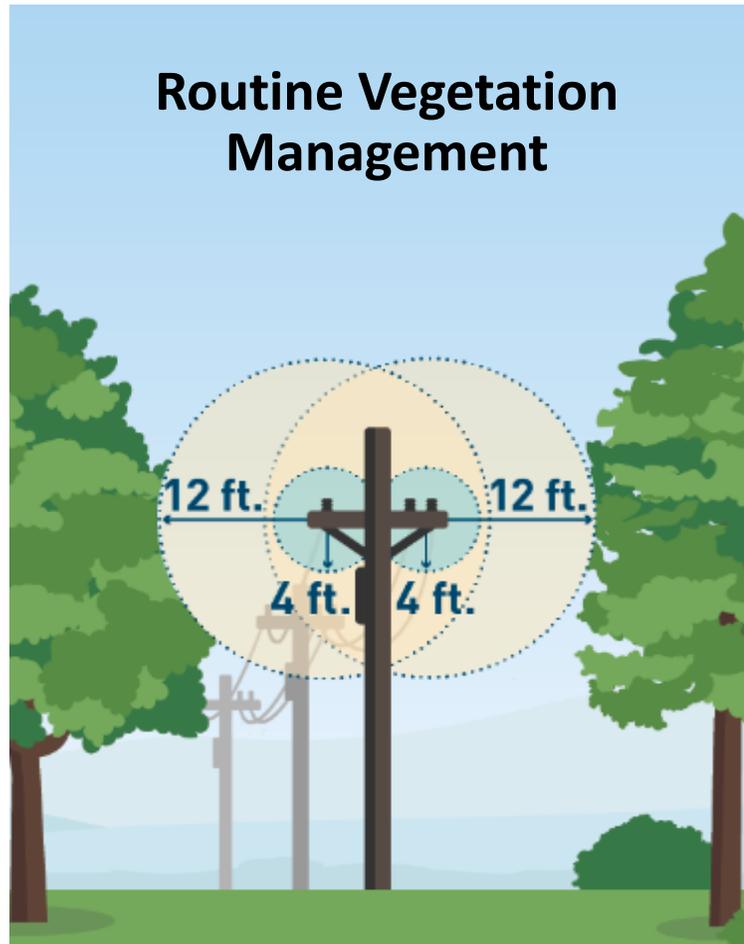
- ✓ **Inspect ~100,000 miles** of overhead powerlines
- ✓ **Prune or cut down more than 1 million trees** that are an unsafe distance from the line
- ✓ **Address dead, dying or hazard trees**
- ✓ **Conduct additional trimming** around lines that have had a lot of vegetation-caused outages



i To learn more, visit [pge.com/trees](https://www.pge.com/trees)

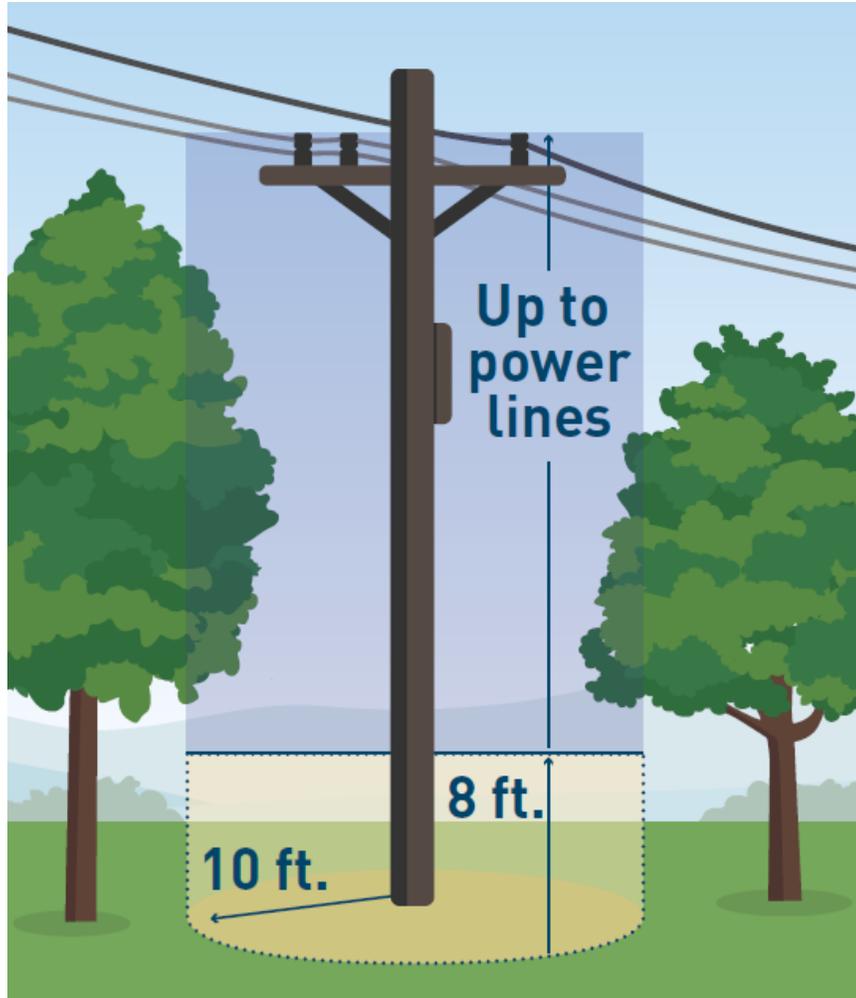
Keeping Trees Away From Overhead Powerlines

Annual inspections along all electric distribution lines

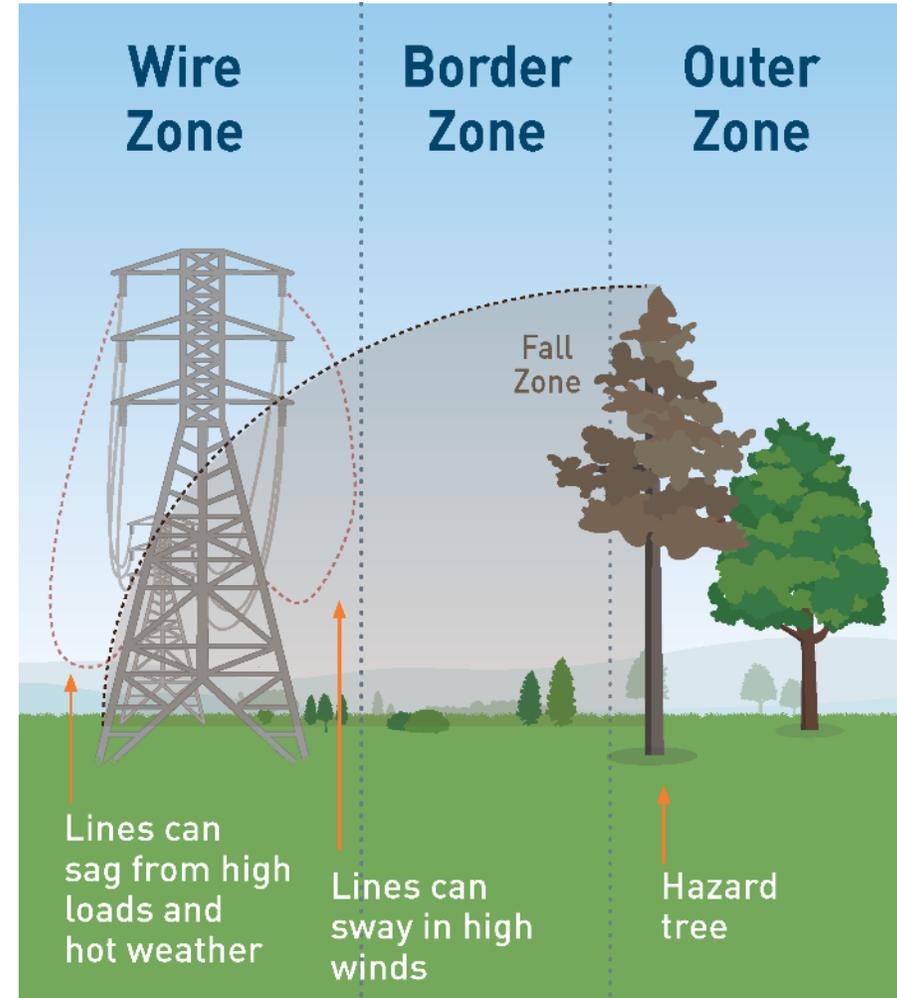


We are managing vegetation near our powerlines through a variety of programs.

Distribution Pole Clearing and Vegetation Work Around Transmission Lines



Pole Clearing



Work Around Transmission Lines

Customers can expect the following when vegetation management work is being conducted in their communities:

- ① **Advance notifications** before inspections or tree work begins on your property
- ② **Inspections** to identify potential safety concerns
- ③ **Tree work** following the inspection to complete any necessary safety work
- ④ **Safety and quality checks** through follow-up inspections to ensure work meets the required safety standards



Our crews manage woody debris, which is material smaller than four inches in diameter, through methods such as chipping or scattering onsite.

Wood management may include:

- ✓ Relocating wood to a safe location on the property
- ✓ Hauling wood offsite
- ✓ Chipping wood onsite
- ✓ Lopping and scattering material onsite



i To learn more, visit pge.com/woodmanagement

Wildfire Safety Outages





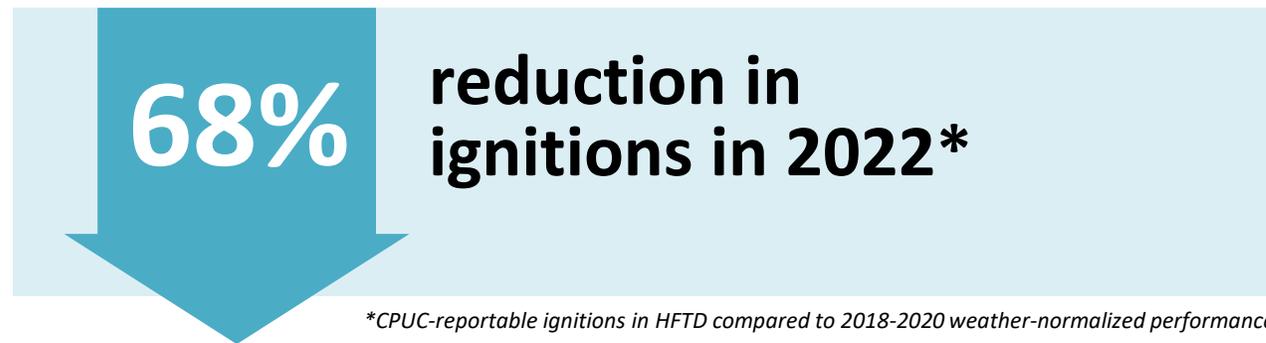
Enhanced Powerline Safety Settings A Technology To Prevent Wildfires

How It Works

Turning off power within one-tenth of a second if a tree branch or other object strikes the line.

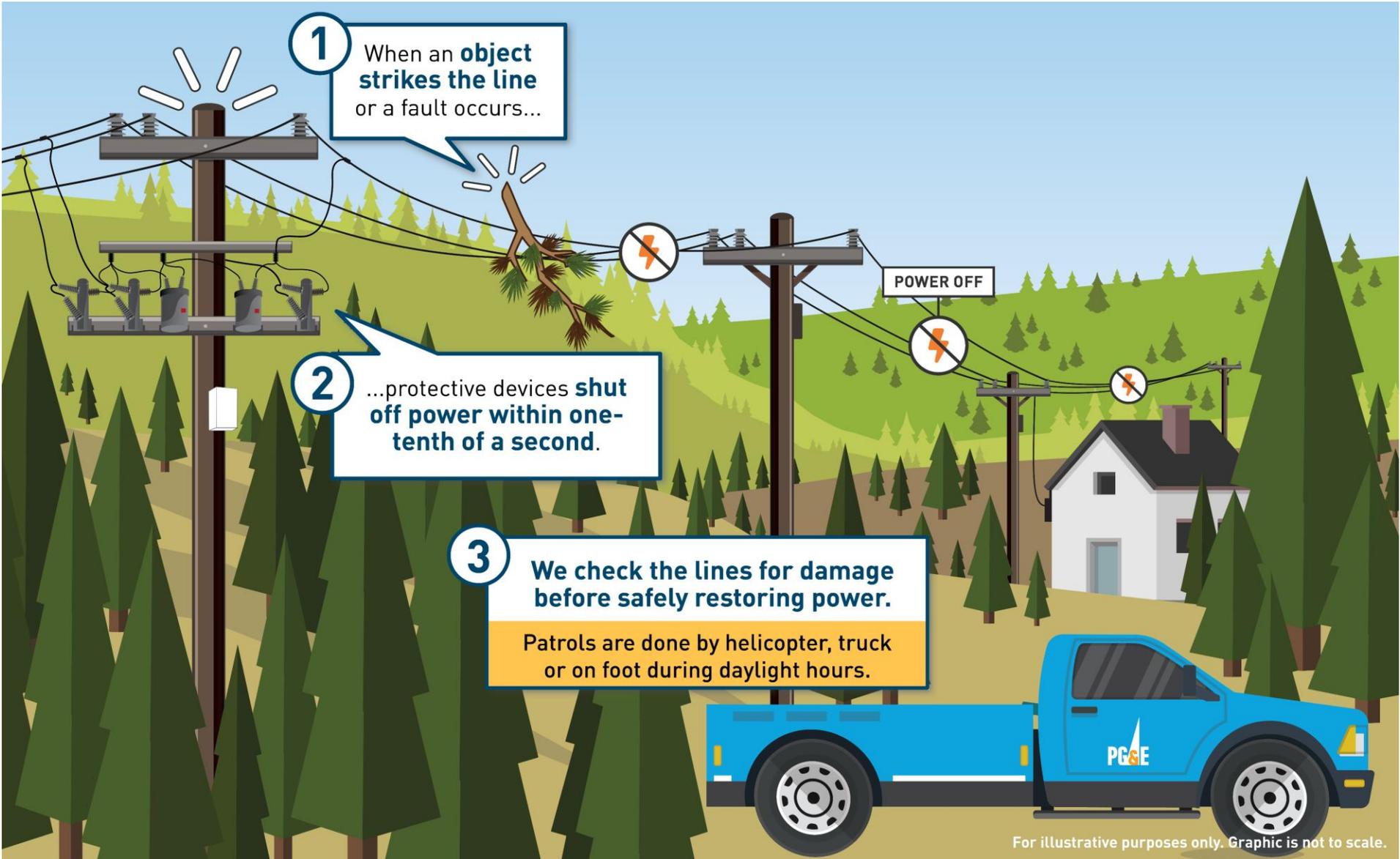
Why We Do It

Stopping wildfires before they have a chance to start.



SAFETY SETTINGS IN ACTION IN NAPA COUNTY

Safety Settings, Step-By-Step





Efforts To Improve Reliability and the Customer Experience

We are continuing to engage and provide resources to all customers and increasing our efforts with those customers most impacted. This includes:

- ✓ **Targeting** additional outreach to the most impacted customers
- ✓ **Expanding** backup power support for vulnerable and highly impacted customers
- ✓ **Installing** more fault indicators and line sensors to reduce outage length
- ✓ **Improving** outage notifications so they are clearer and more accurate
- ✓ **Conducting** targeted vegetation management and animal mitigation work
- ✓ **Improving** reliability using our multi-outage review process
- ✓ **Supporting** customers through partnerships with community-based organizations



PSPS Notification Improvements

In 2022, we made improvements to the way we notify customers before, during and after a Public Safety Power Shutoff.

PSPS notification improvements include:

- ✓ Informing customers when a PSPS is delayed, and de-energization may still occur
- ✓ Informing customers when power is “off” at time of de-energization
- ✓ PSPS notifications no longer allow for opt-outs

PG&E resources to help customers prepare:

Receive notifications for any address at

pge.com/addressalerts

Find resources and support at

pge.com/pspsresources

Update your contact information at

pge.com/pspsalerts



How and When are Stakeholders Notified?

	Severe Weather Forecasted			PSPS Event		CPUC Report	
	3 Days PRIORITY / ADVANCE	2 Day and 1 Day WATCH	Just Before WARNING	Power Turned Off	Weather Passed	ETOR Update	Power Restored
Agency/Critical Customer/CBO* Resource Partner Notifications	✓	✓	✓	✓	✓	✓	✓
Transmission Customers	✓	✓	✓	✓	✓	✓	✓
Customer Notifications Includes Address Alerts		✓	✓	✓	✓	✓	✓

*Community-Based Organization

**Electricity Dependent includes customers who use electricity for Durable Medical Equipment or Assistive Technology.

Medical Baseline Program, Self-Identified Vulnerable Status Participants and electricity dependent customers**, also receive:

- Hourly Texts, Calls and Emails until contact is made
- Doorbell Rings if no positive contact is made
- Door Hanger Left if no contact is made

We have taken significant steps to reduce wildfire ignitions while ensuring a continued focus on minimizing unplanned outages.

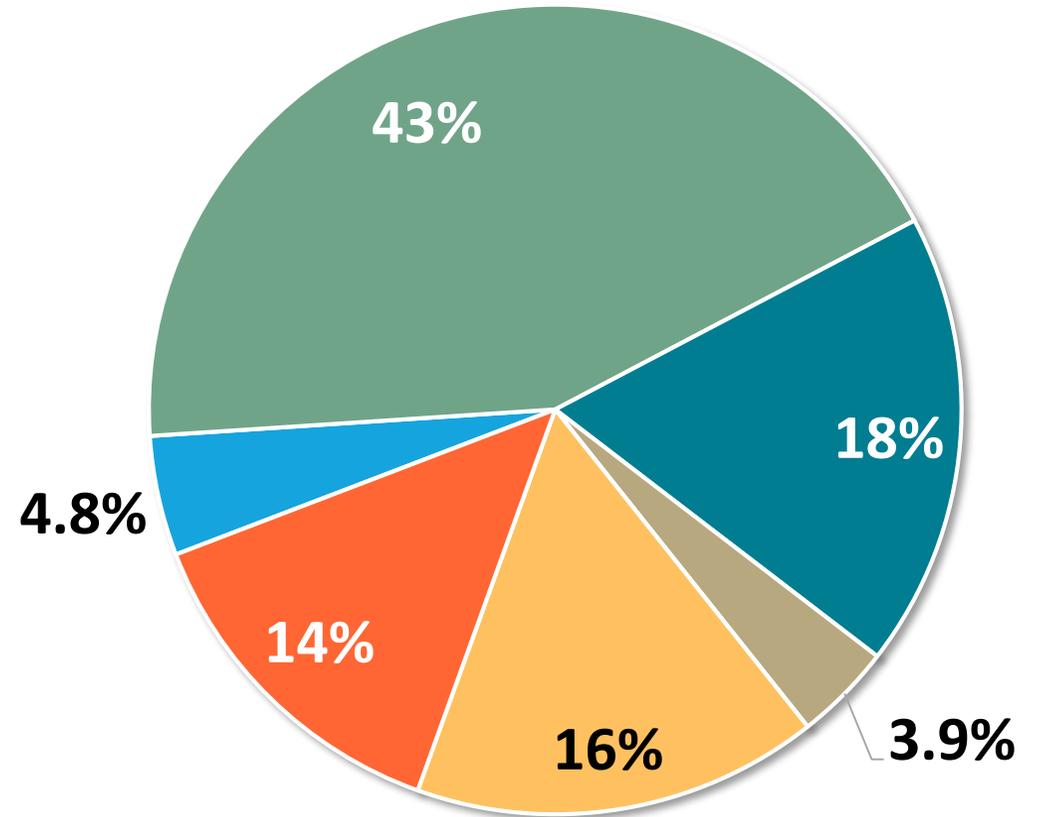
Power was on
99.9% of the time

Average Customers Impacted per Outage:

108

Average Outage Duration (Hours):

3.9



Types of Outages

- Third- Party Incident
- Weather/Vegetation
- PG&E Maintenance/Operations
- Animal Interference
- Equipment Issue
- Unknown

Customer Resources



Target audience: Electricity-dependent individuals with Access & Functional Needs (AFN) living in HFTDs.

Electricity-dependent:

Individuals who are at an increased risk of harm to their health, safety and independence during a PSPS, including, but not limited to:

- Medical and Non-Medical
- Behavioral, Mental and Emotional Health
- Mobility and Movement
- Communication
- Individuals who require devices for health, safety and independence

Resources Provided:

- Emergency Planning Assistance
- Portable backup batteries
- Accessible hotel accommodations
- Accessible transportation
- Food vouchers
- Fuel cards for generators
- Other resources as applicable

i To learn more, visit disabilitydisasteraccess.org/

Assistance offered through this program:

- Additional monthly allotment of energy at the lowest price at your current rate*
- Extra notifications in advance of a Public Safety Power Shutoff event, including in-person doorbell rings by a PG&E representative

*Please note that only certain rate plans are eligible for this additional allotment of energy



i Apply to the MBL program at:
pge.com/medicalbaseline

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

Customer Resources

- Personal and medical device charging
- Mobile battery chargers
- ADA-accessible restroom
- Wi-Fi
- Bottled water/Snacks
- Cooling/heating*
- Seating*
- Ice*

*Indoor locations only

COVID Considerations

- Facial coverings required
- Physical distancing
- Number of visitors limited
- Surfaces are sanitized



i To learn more, visit: [pge.com/crc](https://www.pge.com/crc)

Portable Battery Program

Supporting eligible customers with fully subsidized portable battery solutions.

 pge.com/pspsresources

Partnership with 211

24-7 free and confidential support and resources via calls or texts to 211.

 211ca.org

Generator and Battery Rebate Program

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

 pge.com/backupper

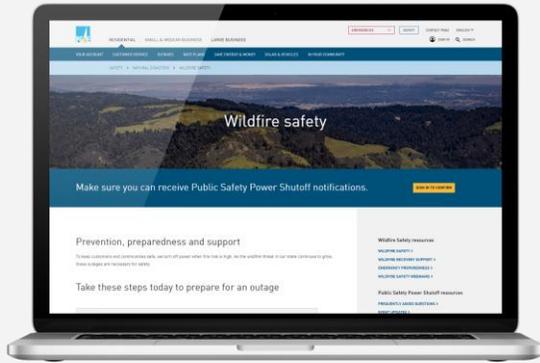
California Foundation for Independent Living Centers

Providing qualifying customers with hotel stays, food stipends and more.

 cfilc.org



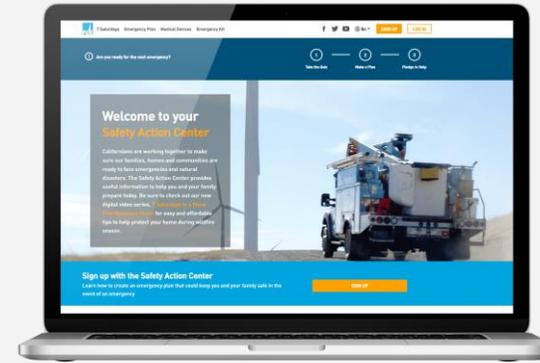
More Information and Tools For Customers to Prepare



Wildfire Safety

Information on wildfire prevention efforts

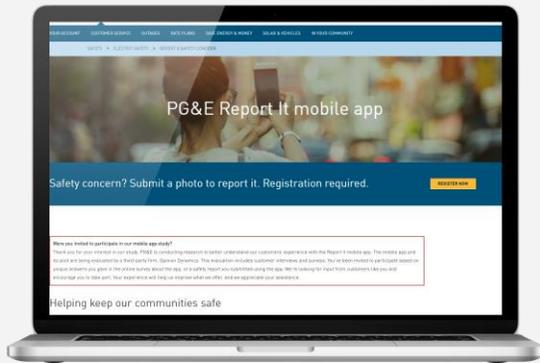
 pge.com/wildfiresafety



Safety Action Center

Create an emergency safety plan to keep you and your family safe

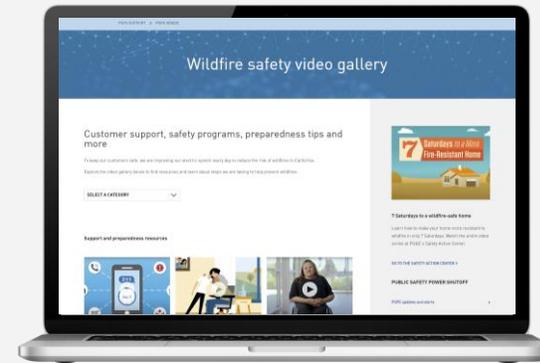
 safetyactioncenter.pge.com



Report It App

Submit photos of non-emergency potential safety concerns

 pge.com/reportit



Wildfire Safety Videos

Videos about wildfire resources and safety

 pge.com/wildfiresafetyvideos

Dedicated wildfire safety contacts: Hotline: 1-866-743-6589 | Email: wildfiresafety@pge.com

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

Local Resilience Efforts





Microgrid Incentive Program (MIP)

PG&E, along with San Diego Gas and Electric and Southern California Edison are awaiting CPUC approval of a new Microgrid Incentive Program to fund clean community microgrids that support the critical needs of vulnerable populations most likely to be impacted by outages.

- ✓ **Increase reliability and resiliency for critical public facilities** for disadvantaged and vulnerable populations impacted by grid outages.
- ✓ **Prioritize communities** with higher portions of low-income, Access and Functional Needs, and electricity dependent residents.
- ✓ **Enable communities with lower ability** to fund development of backup generation to maintain critical loads during outages.

Pending CPUC approval, we expect to be able to share additional details about the program later this year. Incentive fund requests will be evaluated and awarded on a competitive basis.



Community Microgrid Enablement Program (CMEP)

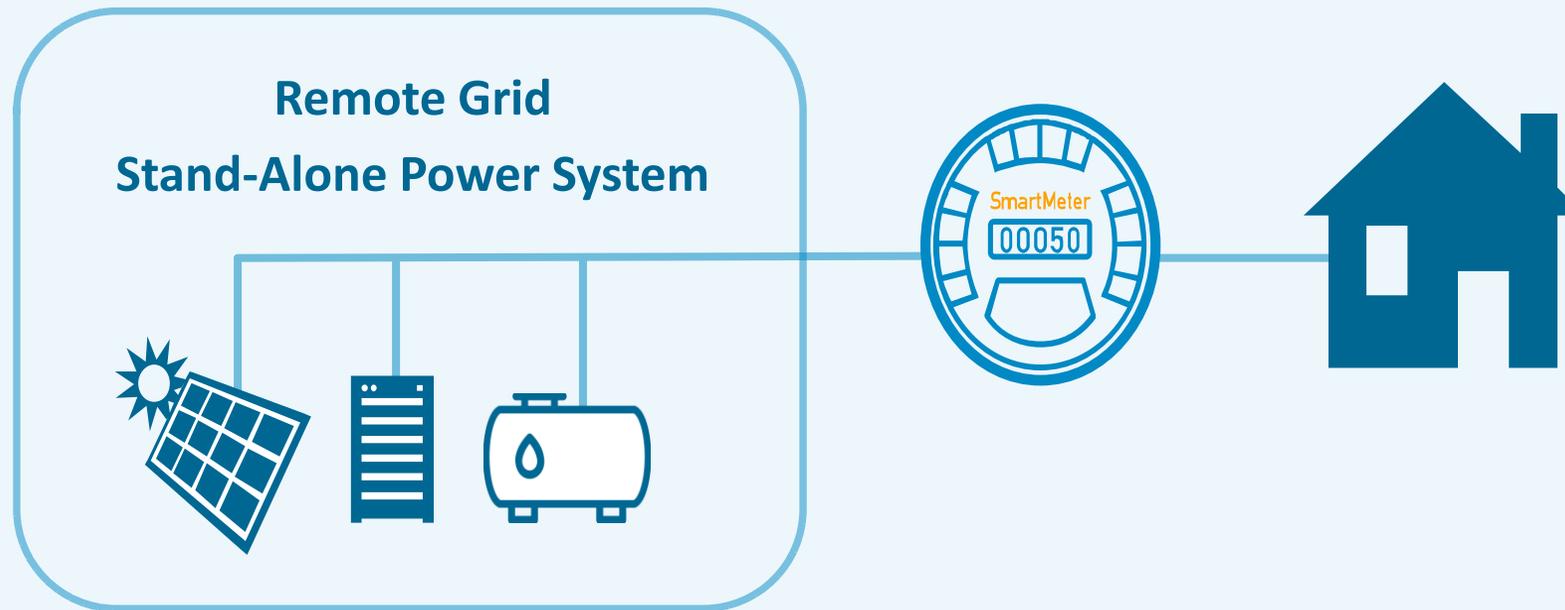
PG&E introduced the CMEP in April 2021 as part of our proposal to address PSPS mitigation. The program consists of four key elements:

- 1 Web-Based Tools and Information** – Providing financial, technical, and interconnection resources for community resilience projects.
- 2 Enhanced Utility Technical Support** – Three-stage process provides incremental support to facilitate development of multi-customer microgrids from initial concept exploration, through assessment, and execution.
- 3 Community Microgrid Enablement Tariff (E-CMET)** – Governs the eligibility, development, and island and transitional operation of community microgrids.
- 4 Cost Offsets** – Up to \$3 million per project to offset the cost of equipment to enable the islanding of a microgrid. Does not cover generation or storage costs.

What is a Remote Grid?

A remote grid is a standalone power system that is independent of the electric grid.

It uses solar, batteries and fuel-powered generation to provide continuous electric service to your home or business. The system is safe, reliable and clean, and significantly reduces wildfire risk by eliminating powerlines in high fire-threat areas.



- ✓ **Reduce wildfire risk** from electric poles and wires
- ✓ **Allow for fewer service interruptions** during winter weather or PSPS
- ✓ **Equal or improved quality and level of service** provided with no change to existing PG&E billing
- ✓ **Are built, maintained and serviced by PG&E professionals** and its qualified contractors





Microgrid Technology Pilots

PG&E has initiated a variety of technology-related pilot programs to help mitigate the risk of wildfires and PSPS events.

Pilot	Description	Status
Mobile BESS Development	<ul style="list-style-type: none">Continued development of mobile battery storage for PSPS mitigation through Tesla Megapack batteriesUndergoing additional safety and operational improvements, tested and studied at the Foresthill site	In Progress
Vehicle Grid Integration (VGI) Microgrid Pilot #3	<ul style="list-style-type: none">As part of the VGI Decision, PG&E plans to test vehicle-to-grid technology to support resiliency in multi-customer PSPS impacted microgridsWill be tested on vehicle-to-grid chargers installed within PSPS microgrids during 2023	Beginning in 2023
Calistoga Clean Substation Pilot	<ul style="list-style-type: none">A proposed, highly innovative, renewable energy microgrid to mitigate PSPS outages using green hydrogen fuel cells and batteriesUses mobile diesel generators to provide backup power at substationsExpected to have no operating emissions of greenhouse gases or other local air pollutants, while still meeting all operating and cost containment requirements for substation microgrids	Pending CPUC Approval

Open Discussion/Q&A



Thank You



Appendix





2022 Q4 Follow Up and Action Items

Description	Agency	Status
Inquiry on WMP performance and if PG&E will complete the remaining 30% of undergrounding work this year to meet the 2022 target.	California Public Utilities Commission	Complete
Inquiry on undergrounding that has occurred in Placer and El Dorado Counties, specifically how much of the undergrounding is transmission line.	Pioneer Community Energy	Complete
Inquiry regarding EPSS statistics and how they are factored into the planning and prioritizing for undergrounding of distribution lines.	Pioneer Community Energy	Complete
Question on capacity restrictions in the Humboldt area, whether there are restrictions or areas where load will not meet industrial or large housing growth needs.	Pioneer Community Energy	Complete
Follow up about whether PG&E is continuing to use the remote grid program in the Sierra Nevada area.	Pioneer Community Energy	Complete
Follow up regarding CRC capacity for large battery devices and PG&E’s provided transportation and device transport to the CRC sites.	Independent Living Resources of Solano & Contra Costa Counties	Complete
Request to provide updates on EPSS and Undergrounding pilots in San Mateo County.	Peninsula Clean Energy	Complete
Follow up regarding plans for the conversion of bare wire to covered wire on the Hicks lines in Santa Clara County.	County of Santa Clara	Complete
Follow up with OEM to schedule a more detailed briefing on continued improvements in 2023 Q1 on the Hicks circuit.	County of Santa Clara	Complete



Public Safety Partner Support

PG&E is committed to working collaboratively with Public Safety Partners in advance of and during PSPS outages to support affected customers and communities.

You can send updates to your contact information to the following:

**Water, Wastewater and
Communication Service Providers**

Richard Navarro:
ricardo.navarro@pge.com
209-604-5066

**For Federal, State, Local and Tribal
Agencies, CCAs and POUs**

Roy Regala:
roy.regala@pge.com
650-418-6771



If you have questions, please contact PGELiaisonOfficer@pge.com



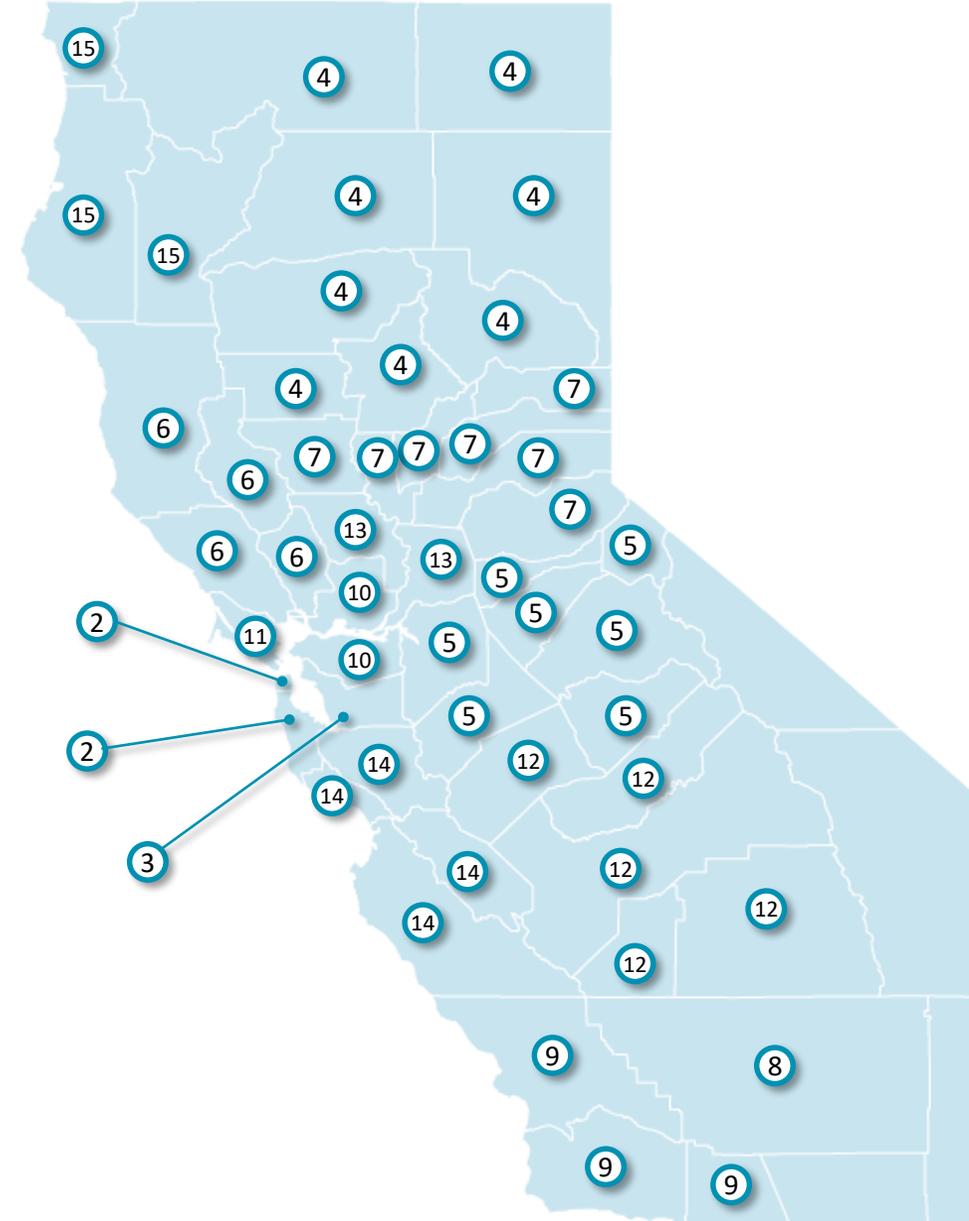
DDAR Centers

Organization

1	The Center for Independent Living (CIL)
2	Center for Independence of Individuals with Disabilities (CID)
3	Community Resources for Independent Living (CRIL)
4	Disability Action Center (DAC)
5	Disability Resources Agency for Independent Living (DRAIL)
6	Disability Services & Legal Center (DSLCL)
7	Center for Independent Living (FREED)
8	Independent Living Center of Kern County (ILCKC)
9	Independent Living Resource Center (ILRC)
10	Independent Living Resources of Solano & Contra Costa Counties (ILRSCC)
11	Marin Center for Independent Living (MCIL)
12	Resources for Independent Living Central Valley (RICV)
13	Resources for Independent Living (RIL)
14	Silicon Valley Independent Living Center (SVILC)
15	Tri-County Independent Living Center (TCIL)
16	The California Foundation for Independent Living Centers (CFILC)*

Counties Served

Alameda
San Mateo
Alameda
Butte, Glenn, Lassen, Modoc, Plumas, Shasta, Siskiyou, Tehama
Alpine, Amador, Calaveras, Mariposa, San Joaquin, Stanislaus, Tuolumne
Lake, Mendocino, Napa, Sonoma
Colusa, El Dorado, Nevada, Placer, Sierra, Sutter, Yuba
Kern
San Luis Obispo, Santa Barbara, Ventura
Contra Costa, Solano
Marin
Fresno, Kings, Madera, Merced, Tulare
Sacramento, Yolo
Santa Clara, Santa Cruz, San Benito, Monterey
Humboldt, Trinity, Del Norte
*Systemwide

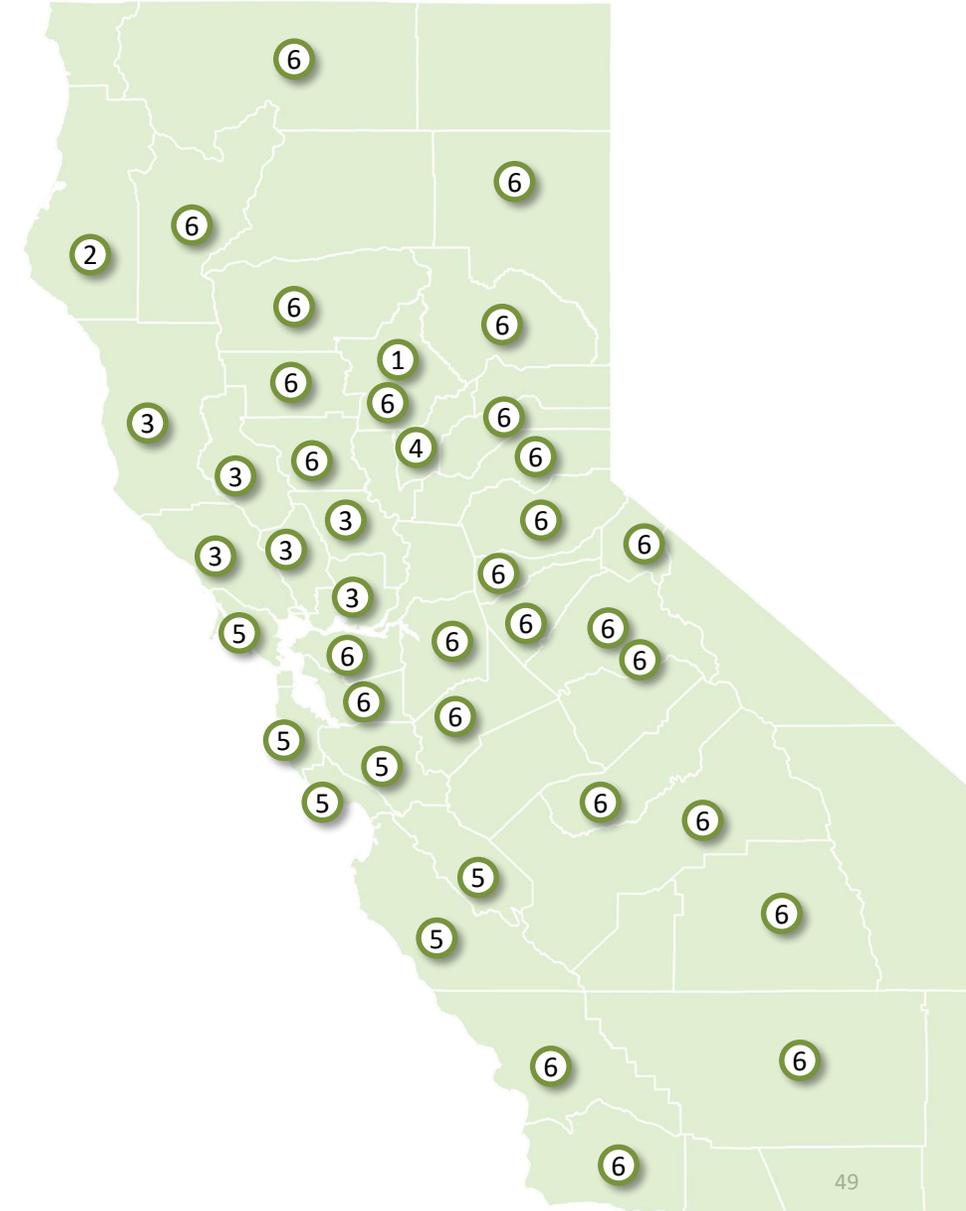


Some of the measures included in this presentation are contemplated as additional precautionary measures intended to further reduce the risk of wildfires.



Portable Battery Providers

Organization		Counties Served
1	Community Action Agency of Butte County, Inc. (LiHEAP vendor) 181 E. Shasta Avenue, Chico, CA 95973 Phone: (530) 712-2600	Butte
2	Redwood Community Action Agency (LiHEAP vendor) 904 G Street, Eureka, CA 95501 (707) 269-2001	Humboldt
3	North Coast Energy Services, Inc. (LiHEAP vendor) 966 Mazzoni Street, Ukiah, CA 95482 Toll-free:(800) 233-4480 Phone:(707) 463-0303	Lake, Mendocino, Napa, Solano, Sonoma, Yolo
4	Community Resource Project, Inc. (LiHEAP vendor) 250 Harris Avenue, Sacramento, CA 95838 Phone: (916) 567-5220	Yuba
5	Central Coast Energy Services, Inc. (LiHEAP vendor) 800-564-4012	Monterey, San Benito, Santa Cruz, San Mateo, Santa Clara, Marin
6	Richard Heath & Associates 559-214-1190	Alameda, Alpine, Amador, Butte, Calaveras, Colusa, Contra Costa, El Dorado, Fresno, Glenn, Kern, Lassen, Madera, Mariposa, Nevada, Placer, Plumas, San Joaquin, San Luis Obispo, Santa Barbara, Shasta, Sierra, Siskiyou, Stanislaus, Tehama, Trinity, Tulare, Tuolumne



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

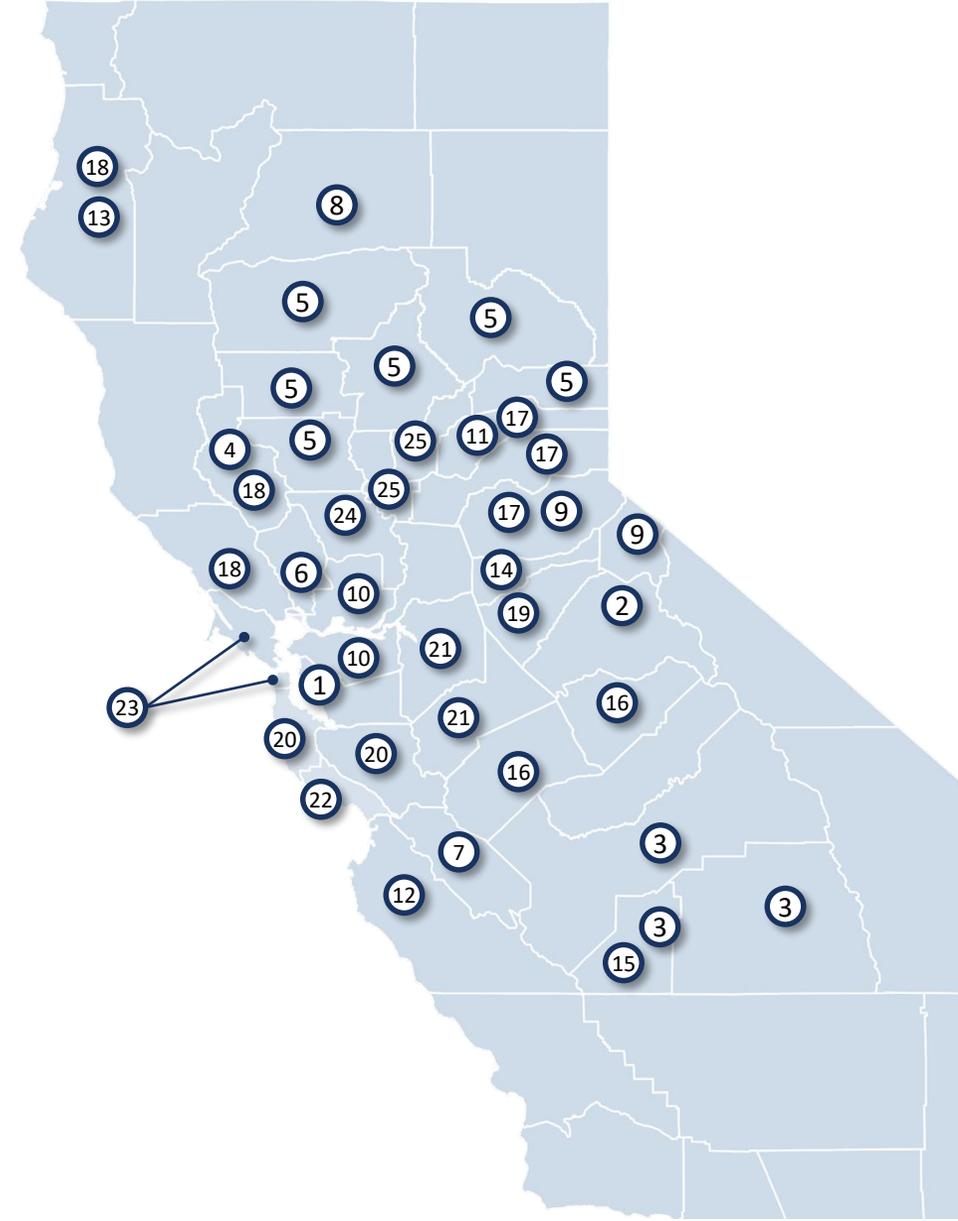


Food Banks

Organization

Counties Served

1	Alameda County Food Bank	Alameda
2	ATCAA Food Bank	Tuolumne
3	Central California Food Bank	Fresno, Kings, Tulare
4	Clear Lake Gleamers Food Bank	Lake
5	Community Action Agency of Butte County	Butte, Colusa, Glenn, Plumas, Sierra, Tehama
6	Community Action of Napa Valley Food Bank	Napa
7	Community Food Bank of San Benito	San Benito
8	Dignity Health Connected Living	Shasta
9	El Dorado Food Bank	Alpine, El Dorado
10	Food Bank of Contra Costa & Solano	Contra Costa, Solano
11	Food Bank of Nevada County	Nevada
12	Food Bank for Monterey County	Monterey
13	Food for People	Humboldt
14	Interfaith Council of Amador	Amador
15	Kings Community Action Organization	Kings
16	Merced County Food Bank	Mariposa, Merced
17	Placer Food Bank	Placer, Nevada, El Dorado
18	Redwood Empire Food Bank	Sonoma, Humboldt, Lake
19	Resource Connection	Calaveras
20	Second Harvest Food Bank of Silicon Valley	San Mateo, Santa Clara
21	Second Harvest Food Bank San Joaquin & Stanislaus	San Joaquin, Stanislaus
22	Second Harvest Food Bank Santa Cruz County	Santa Cruz
23	The San Francisco-Marín Food Bank	Marin, San Francisco
24	Yolo Food Bank	Yolo
25	Yuba Sutter Food Bank	Sutter, Yuba



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



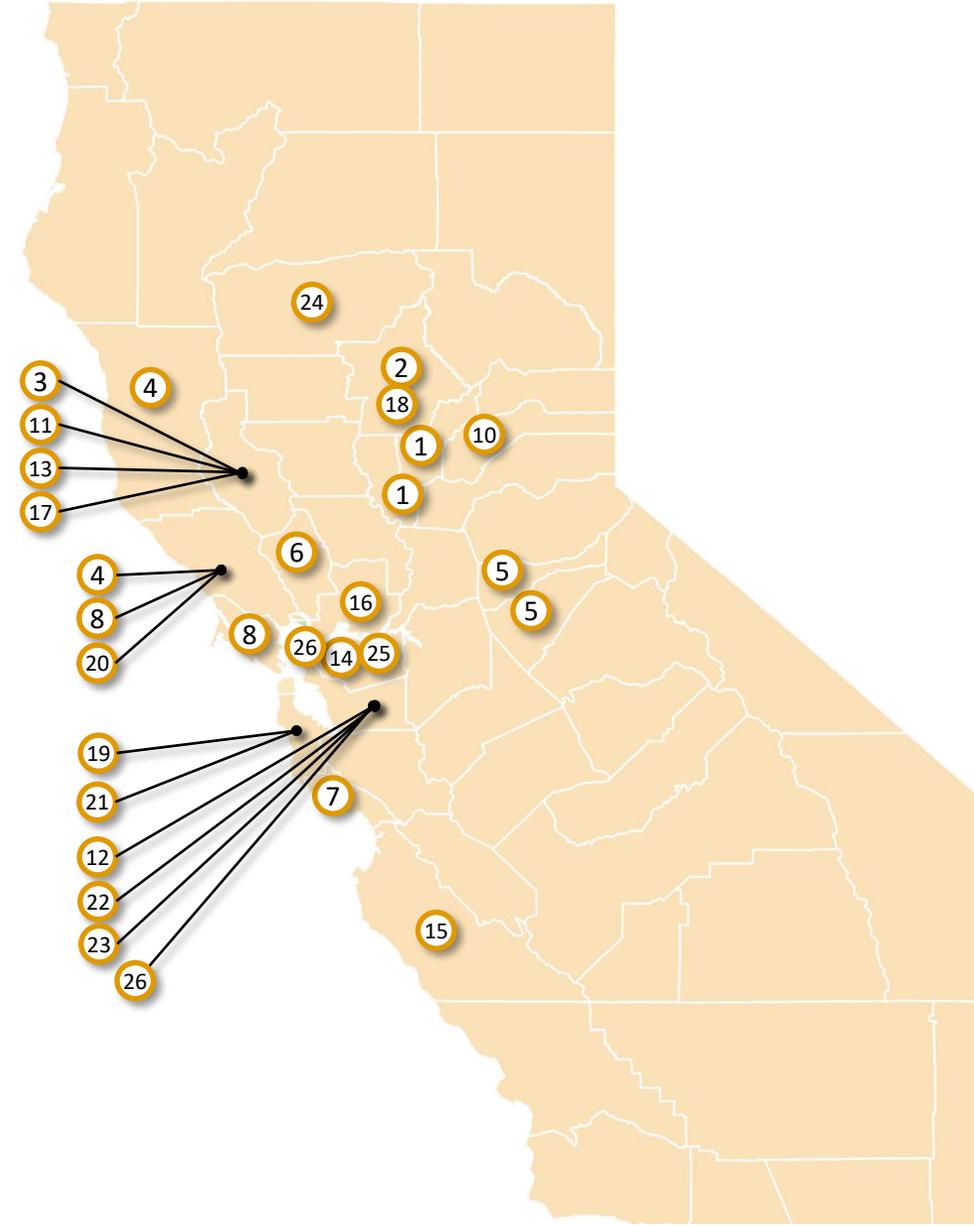
Meals on Wheels

Organization

1	Area Agency on Aging (Yuba Sutter Meals on Wheels)
2	Chico Meals on Wheels
3	Clearlake Senior Center
4	Coastal Seniors
5	Common Ground Senior Services
6	Community Action Agency of Napa Valley
7	Community Bridges
8	Council on Aging
9	Dignity Health Connected Living
10	Gold Country Community Services
11	Lakeport Senior Center
12	Life ElderCare
13	Liveoak Senior Center
14	Meals on Wheels Diablo Region
15	Meals on Wheels Monterey Peninsula
16	Meals on Wheels Solano County
17	Middletown Senior Center
18	Passages
19	Peninsula Volunteers
20	Petaluma People Services
21	Senior Coastsiders
22	Service Opportunity for Seniors
23	Spectrum Community Services
24	Tehama County Community Action Agency
25	West Contra Costa Meals on Wheels
26	J-Sei

Counties Served

Yuba, Sutter
Butte
Lake
Mendocino, Sonoma
Amador, Calaveras
Napa
Santa Cruz
Marin, Sonoma
Shasta
Nevada
Lake
Alameda
Lake
Contra Costa
Monterey
Solano
Lake
Butte
San Mateo
Sonoma
San Mateo
Alameda
Alameda
Tehama
Contra Costa
Alameda, Contra Costa



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



Status of Planned/Upcoming Resilience Efforts – Systemwide

Program	County	Site Name/Area	Status	Estimated Completion
Distribution Microgrids*	Butte	Magalia	Operational	N/A
	Calaveras	Arnold	Operational	N/A
	El Dorado	Georgetown	Operational	N/A
	El Dorado	Pollock Pines	Operational	N/A
	Humboldt	Redwood Coast Airport Microgrid*****	Operational	N/A
	Lake	Clearlake North	Construction Complete	Q2 2023
	Lake	Lucerne	Operational	N/A
	Lake	Middletown	Operational	N/A
	Napa	Angwin	Operational	N/A
	Napa	Calistoga	Operational	N/A
	Placer	Colfax	Operational	N/A
	Placer	Foresthill	Operational	N/A
	Shasta	Shingletown	Operational	N/A
	Tuolumne	Groveland	Operational	N/A
Islanding	Calaveras**	Salt Springs Island	Operational	N/A
	Calaveras***	West Point Island	Operational	N/A
	Humboldt	Humboldt Bay Island	Operational	N/A
	Plumas	Caribou Island	Operational	N/A
	Tehama	Red Bluff Island	Operational	N/A
	Tuolumne	Spring Gap	Operational	N/A

Local work plans are subject to change and data is based on the best available information at this time.

**Distribution microgrids are considered operational once temporary generation is available and energization plans are finalized.*

***Also serves portions of Amador and Alpine Counties.*

****Also serves portions of Amador County.*

*****Facility owned by Redwood Costa Energy Authority; PG&E owns, operates and maintains microgrid circuit*



Status of Planned/Upcoming Resilience Efforts – Systemwide

Program	County	Site Name/Area	Status	Estimated Completion
Remote Grids	Mariposa	Briceburg - Mariposa Remote 001	Operational	N/A
	Tehama	Corning Remote 0001 - 0002	Operational	Q4 2022
	Mariposa	Slaughter House	Under Construction	Q1 2023
	Mariposa	Miami Mountain	Under Construction	Q1 2023
	Madera	Melvin	Planning	Q4 2023
	Sonoma	Pepperwood	Planning	Q4 2023
	Tehama	Battle Creek	Planning	Q4 2023
	Tehama	Manton Wildcat	Planning	Q4 2023
	Tulare	Whitaker Forest	Planning	Q4 2023
	Tuolumne	Forebay	Planning	Q4 2023
	Lake	Anderson Springs	Planning	Q1 2024
	Shasta	Shingletown Wildcat	Planning	Q1 2024

Local work plans are subject to change and data is based on the best available information at this time.

Community Wildfire Safety Program

Q1 2023 REGIONAL WORKING GROUP

South Bay & Central Coast Region

March 23, 2023



Virtual Sign In Reminder

Please “sign in” using the chat function and provide your **name, organization and email**.



Safety

Preparedness Tips

Always be prepared in case of a natural disaster or an emergency

Build a disaster supply kit for you, your family or your business

Be sure to include food, water, medication, flashlights, first aid kits, a list of emergency contacts and more

Visit safetyactioncenter.pge.com to help prepare for an emergency





Agenda

- 1 Wildfire Mitigation Plan

- 2 Community Wildfire Safety Program

- 3 Local Resilience Efforts

- 4 Open Discussion and Q&A

PG&E SPEAKERS

Jeremy Howard
Regional Senior Manager

Jeana Arnold
Local Government Affairs

Kevin Conant
Public Safety Specialist

Reno Franklin
Tribal Liaison

Justin Kephart
Vegetation Management

An Update on Your Winter Storm Response



Santa Cruz Base Camp Local Elected Official Briefing



Congressman Panetta Town Hall in Felton



An Update on Your Winter Storm Response

PG&E is mobilizing the largest storm response team in company history.

1,500

dedicated personnel
responding to the storm

1.3

million customers
restored in the region

PG&E's Vacaville Emergency Response Center (VERC) has been activated as needed, along with Regional Emergency Centers and Operations Emergency Centers for a comprehensive and coordinated response.

PG&E set up basecamps to stage resources and house personnel.



Utility crews from around the country are supporting the storm response.



Wildfire Mitigation Plan



We will submit our annual Wildfire Mitigation Plan to California's Office of Energy and Infrastructure Safety (OEIS).

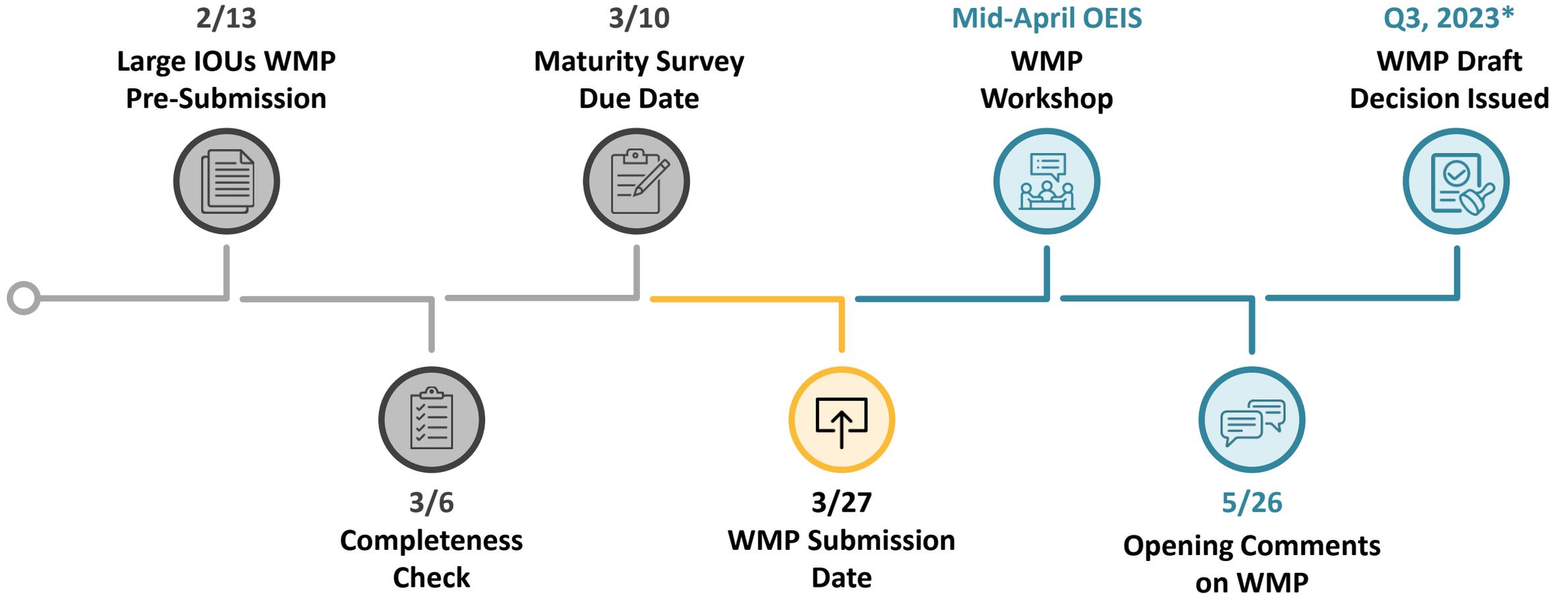
The Wildfire Mitigation Plan:

- ✓ Outlines our strategy for mitigating wildfire risk
- ✓ Aligns strategic goals of engaging with our stakeholders
- ✓ Provides updates to key wildfire mitigation programs
- ✓ Fulfills regulatory requirements



i To learn more, visit pge.com/wildfiremitigationplan

Important 2023 Wildfire Mitigation Plan Dates



Community Wildfire Safety Program



Wildfire Safety Objectives in the South Bay & Central Coast Region



Key Wildfire Safety Objectives This Year

Prevent Wildfires



Reduce Customer Impacts



Provide Better Resources





Multiple Layers of Safety

Our work since 2017 has **eliminated 90% of wildfire risk from our system** through:

Ongoing Safety Efforts

Vegetation Management

System Inspections

Long-Term System Improvements

Undergrounding Powerlines

Overhead System Hardening

Safety Programs and Technology

Public Safety Power Shutoff

Enhanced Powerline Safety Settings

Situational Awareness

High-Definition Cameras

Weather Stations

These efforts add additional layers of protection on top of our system and technology improvements.

Hardening California's Next Generation Electric Grid

PG&E is strengthening its electric system by hardening powerlines. This includes undergrounding powerlines, as well as replacing overhead lines and equipment with sturdier materials.

Our overhead hardening includes:

- Stronger poles
- Larger crossarms
- Covered powerlines

Overhead hardening benefits include:

- Mitigating the risk of wildfires
- Enhancing long-term safety
- Improving reliability



In 2022, PG&E completed **51 miles** of overhead hardening and line removal in the **South Bay & Central Coast Region.**

Identifying Undergrounding Projects to Reduce Wildfire Risk

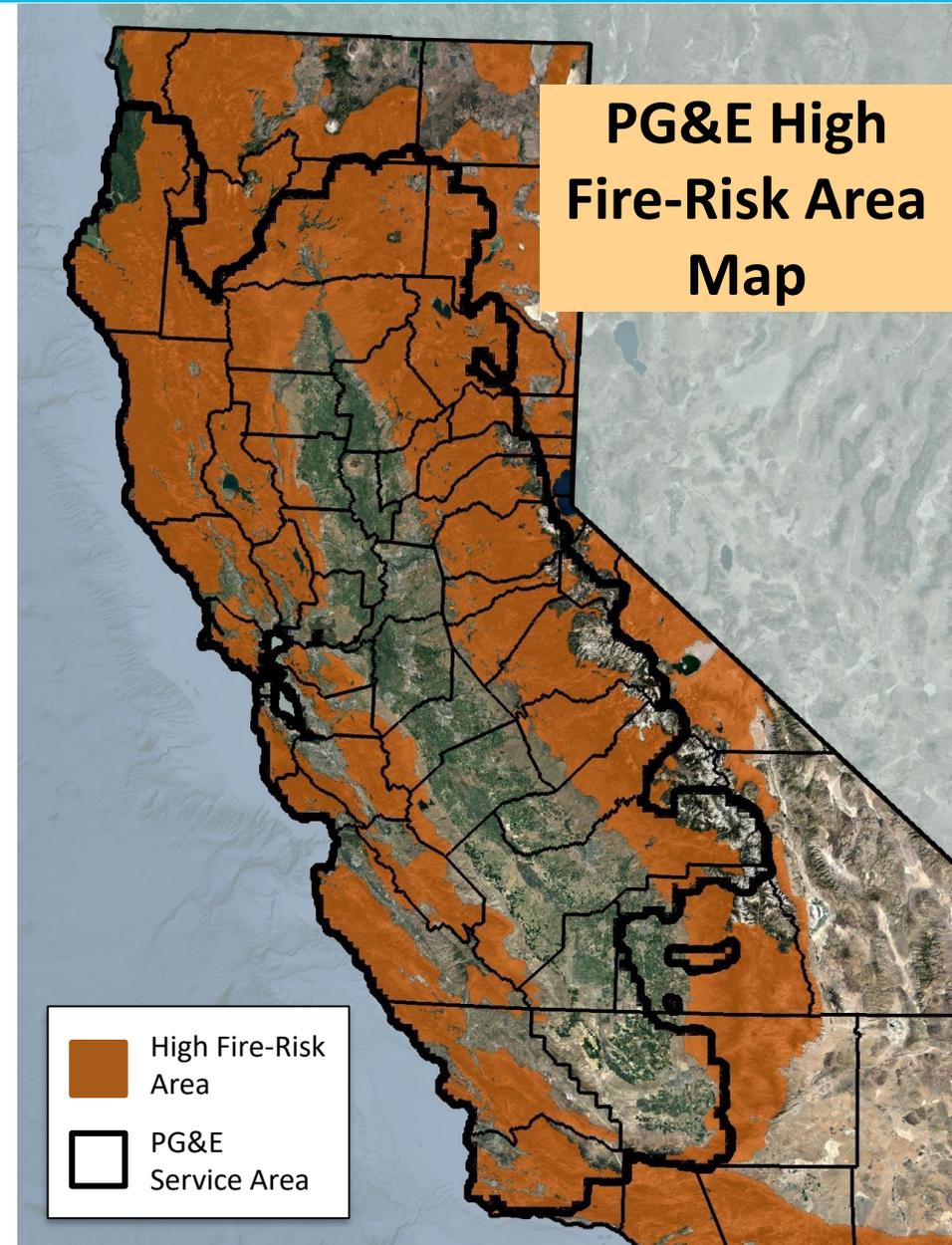
We are prioritizing undergrounding in areas where we have the greatest impact on reducing wildfire risk.

We use advanced machine-learning based risk modeling and partner with wildfire analysis providers. This modeling considers:

- Historic ignitions
- Vegetation
- Topography
- Age and condition of the electrical equipment

We also consider the probability of an ignition and consequences if a wildfire were to start in a specific location.

To learn more, visit [pge.com/undergrounding](https://www.pge.com/undergrounding)



Vegetation Management

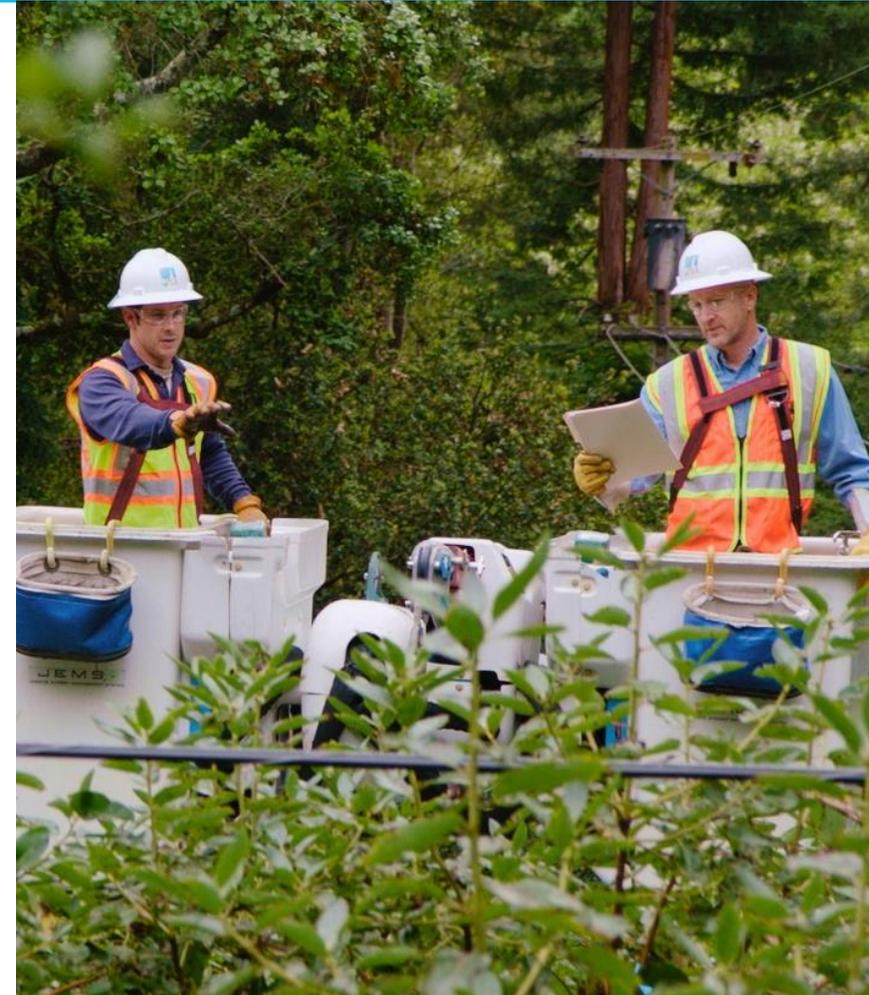


Keeping Trees Away From Powerlines

When trees are too close to powerlines, they can cause outages and serious safety issues.

That's why each year we:

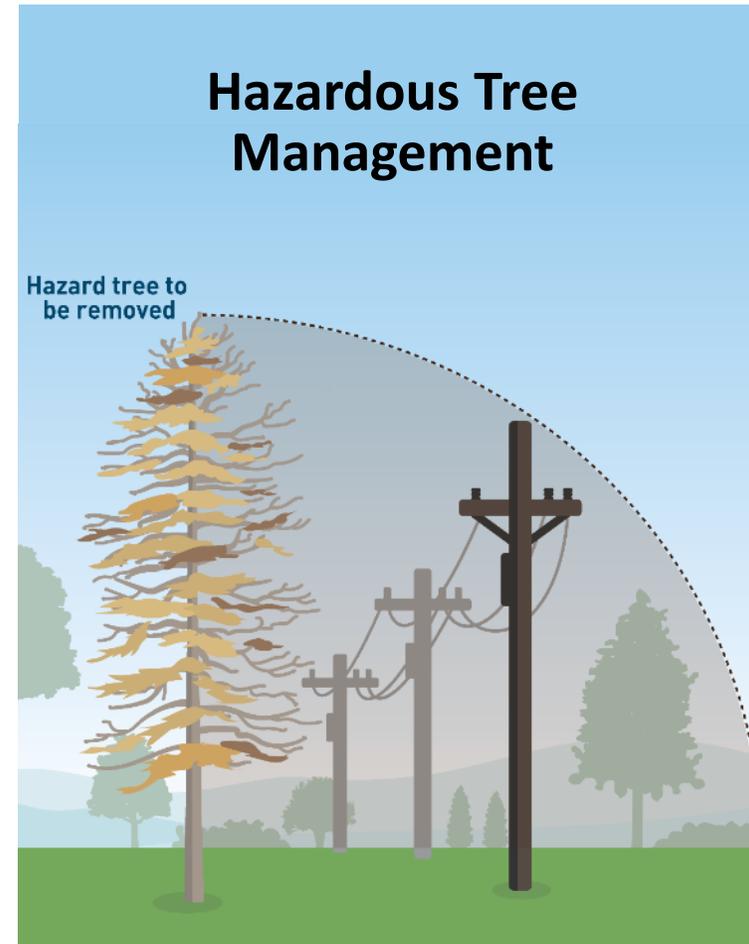
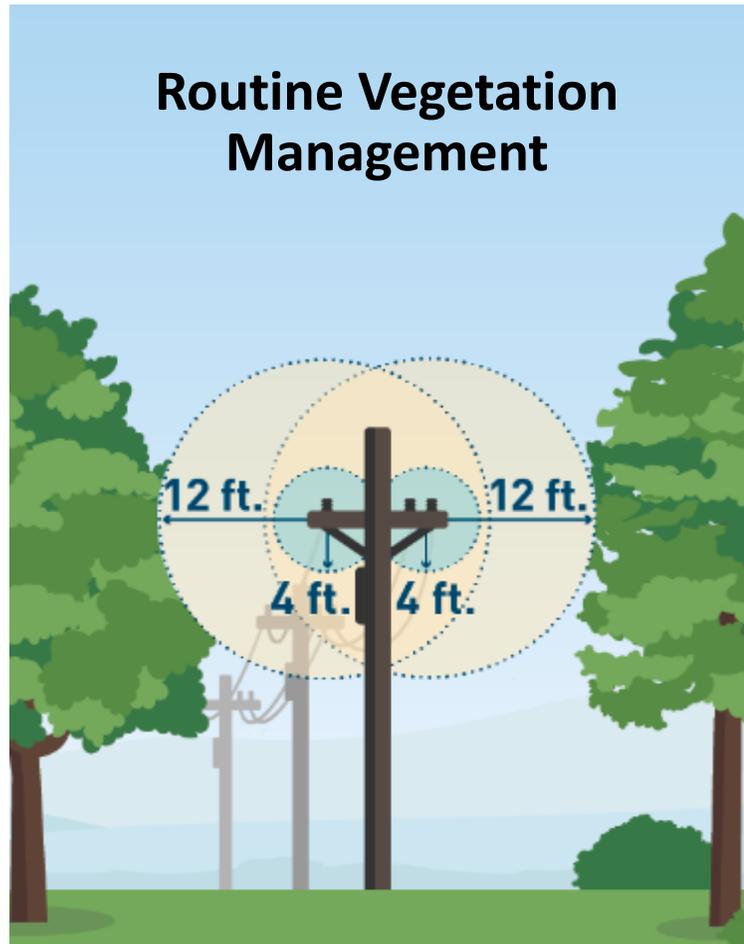
- ✓ **Inspect ~100,000 miles** of overhead powerlines
- ✓ **Prune or cut down more than 1 million trees** that are an unsafe distance from the line
- ✓ **Address dead, dying or hazard trees**
- ✓ **Conduct additional trimming** around lines that have had a lot of vegetation-caused outages



i To learn more, visit [pge.com/trees](https://www.pge.com/trees)

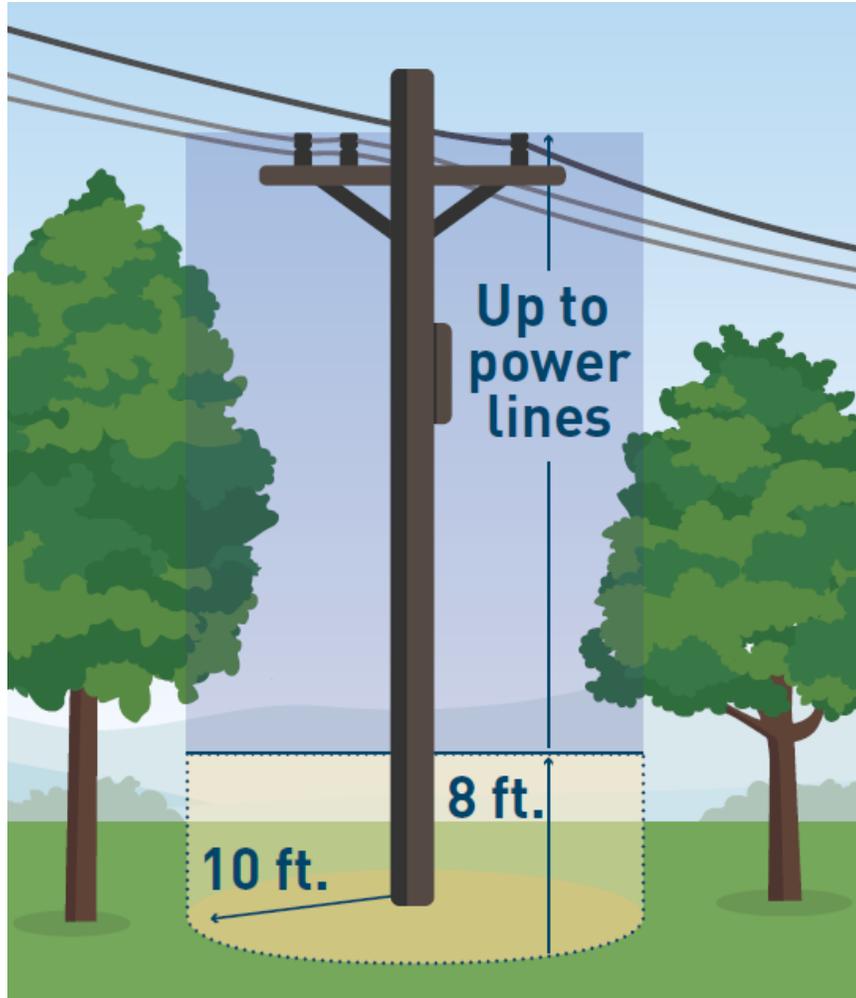
Keeping Trees Away From Overhead Powerlines

Annual inspections along all electric distribution lines

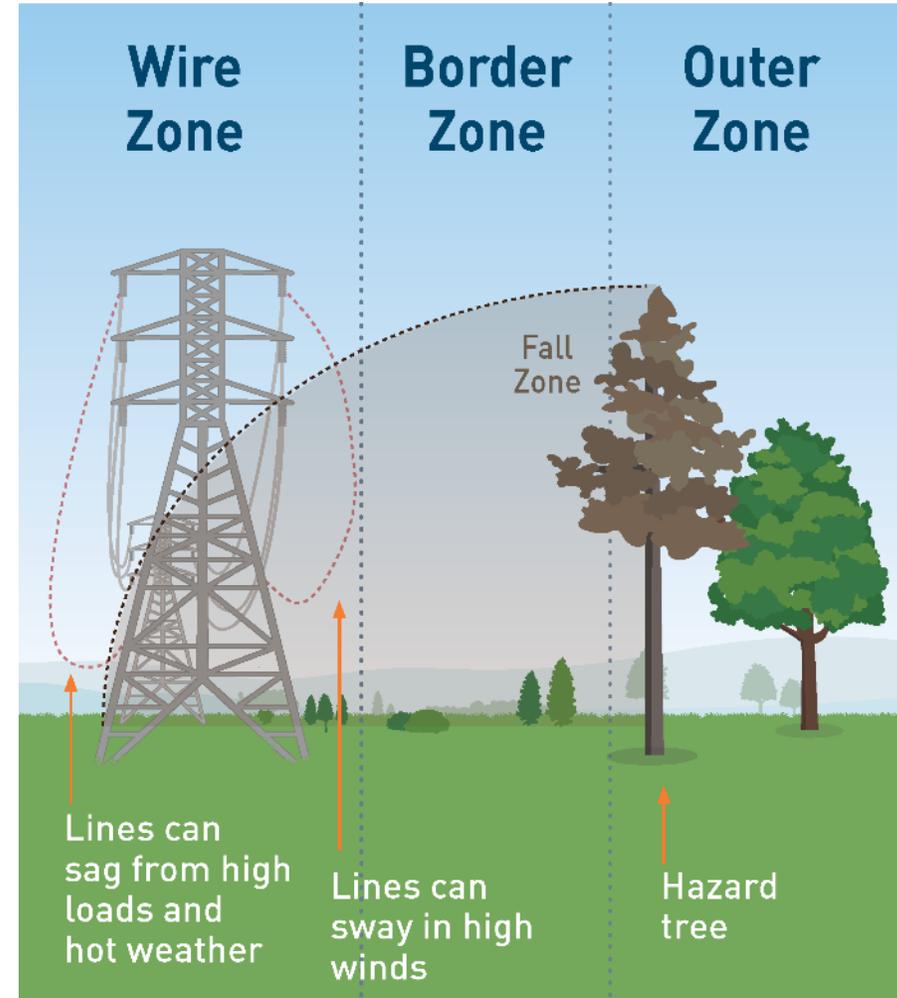


We are managing vegetation near our powerlines through a variety of programs.

Distribution Pole Clearing and Vegetation Work Around Transmission Lines



Pole Clearing



Work Around Transmission Lines

Customers can expect the following when vegetation management work is being conducted in their communities:

- ① **Advance notifications** before inspections or tree work begins on your property
- ② **Inspections** to identify potential safety concerns
- ③ **Tree work** following the inspection to complete any necessary safety work
- ④ **Safety and quality checks** through follow-up inspections to ensure work meets the required safety standards



Our crews manage woody debris, which is material smaller than four inches in diameter, through methods such as chipping or scattering onsite.

Wood management may include:

- ✓ Relocating wood to a safe location on the property
- ✓ Hauling wood offsite
- ✓ Chipping wood onsite
- ✓ Lopping and scattering material onsite



i To learn more, visit pge.com/woodmanagement

Wildfire Safety Outages





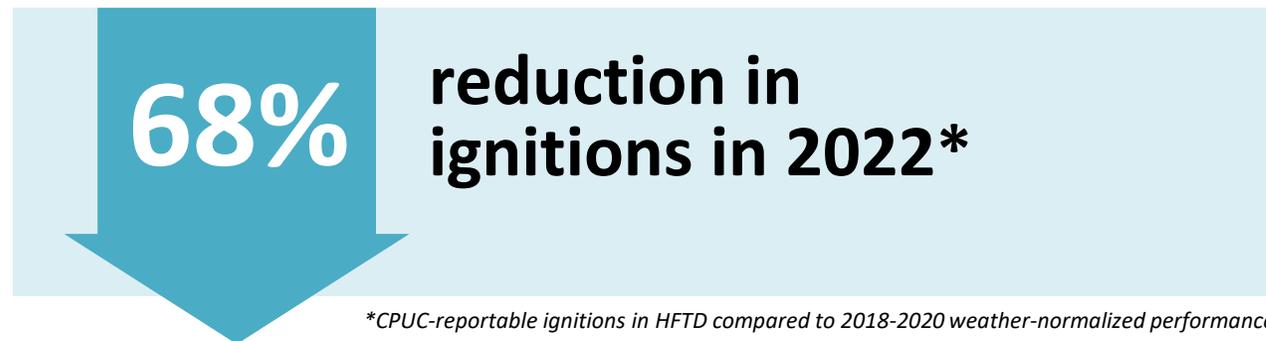
Enhanced Powerline Safety Settings A Technology To Prevent Wildfires

How It Works

Turning off power within one-tenth of a second if a tree branch or other object strikes the line.

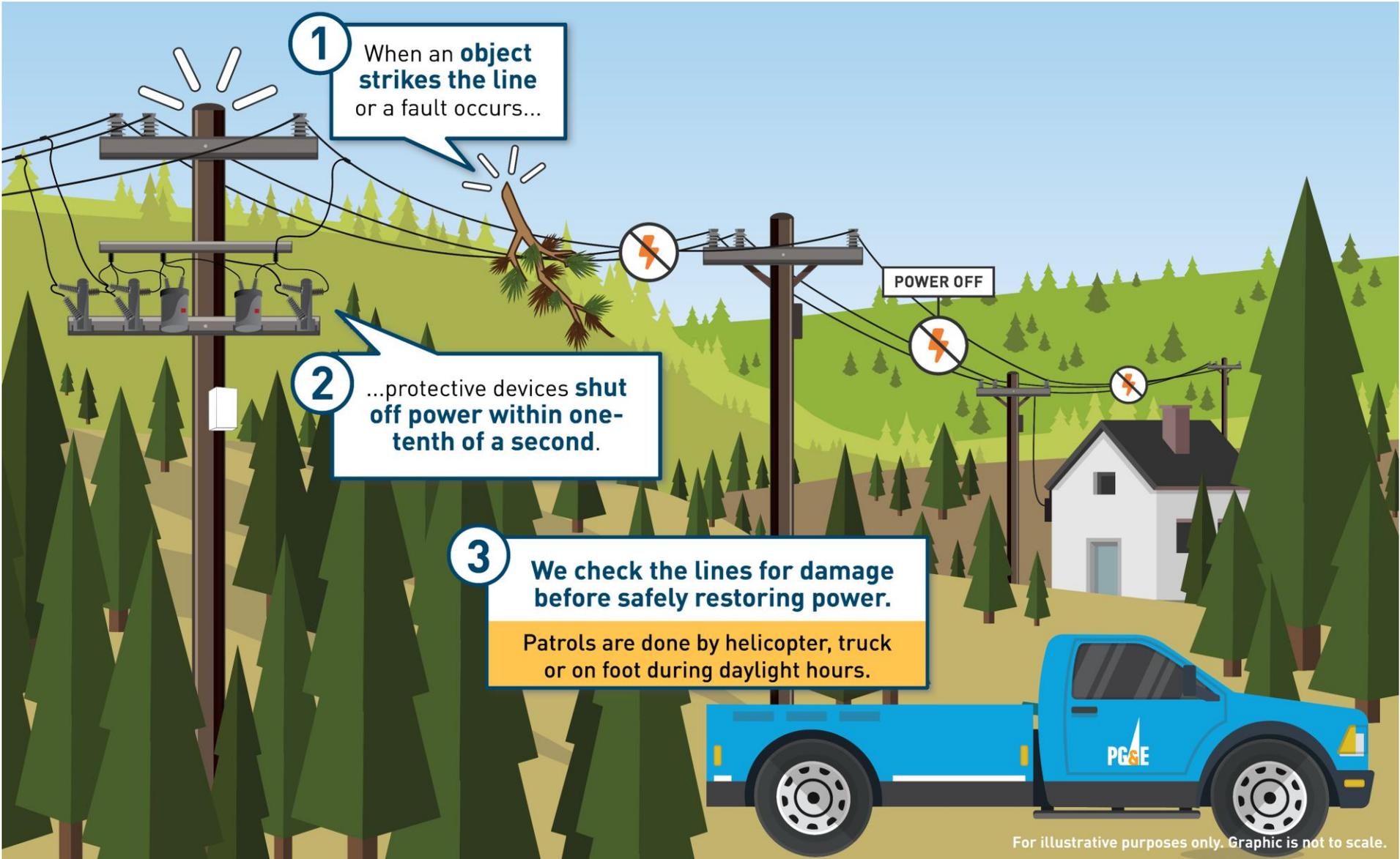
Why We Do It

Stopping wildfires before they have a chance to start.



SAFETY SETTINGS IN ACTION IN NAPA COUNTY

Safety Settings, Step-By-Step





Efforts to Improve Reliability and the Customer Experience

We are continuing to engage and provide resources to all customers and increasing our efforts with those customers most impacted. This includes:

- ✓ **Targeting** additional outreach to the most impacted customers
- ✓ **Expanding** backup power support for vulnerable and highly impacted customers
- ✓ **Installing** more fault indicators and line sensors to reduce outage length
- ✓ **Improving** outage notifications so they are clearer and more accurate
- ✓ **Conducting** targeted vegetation management and animal mitigation work
- ✓ **Improving** reliability using our multi-outage review process
- ✓ **Supporting** customers through partnerships with community-based organizations



PSPS Notification Improvements

In 2022, we made improvements to the way we notify customers before, during and after a Public Safety Power Shutoff.

PSPS notification improvements include:

- ✓ Informing customers when a PSPS is delayed, and de-energization may still occur
- ✓ Informing customers when power is “off” at time of de-energization
- ✓ PSPS notifications no longer allow for opt-outs

PG&E resources to help customers prepare:

Receive notifications for any address at

pge.com/addressalerts

Find resources and support at

pge.com/pspsresources

Update your contact information at

pge.com/pspsalerts



How and When are Stakeholders Notified?

	Severe Weather Forecasted			PSPS Event		CPUC Report	
	3 Days PRIORITY / ADVANCE	2 Day and 1 Day WATCH	Just Before WARNING	Power Turned Off	Weather Passed	ETOR Update	Power Restored
Agency/Critical Customer/CBO* Resource Partner Notifications	✓	✓	✓	✓	✓	✓	✓
Transmission Customers	✓	✓	✓	✓	✓	✓	✓
Customer Notifications Includes Address Alerts		✓	✓	✓	✓	✓	✓

*Community-Based Organization

**Electricity Dependent includes customers who use electricity for Durable Medical Equipment or Assistive Technology.

Medical Baseline Program, Self-Identified Vulnerable Status Participants and electricity dependent customers, also receive:**

- **Hourly Texts, Calls and Emails** until contact is made
- **Doorbell Rings** if no positive contact is made
- **Door Hanger Left** if no contact is made



Safety and Reliability in the South Bay & Central Coast Region

We have taken significant steps to reduce wildfire ignitions while ensuring a continued focus on minimizing unplanned outages.

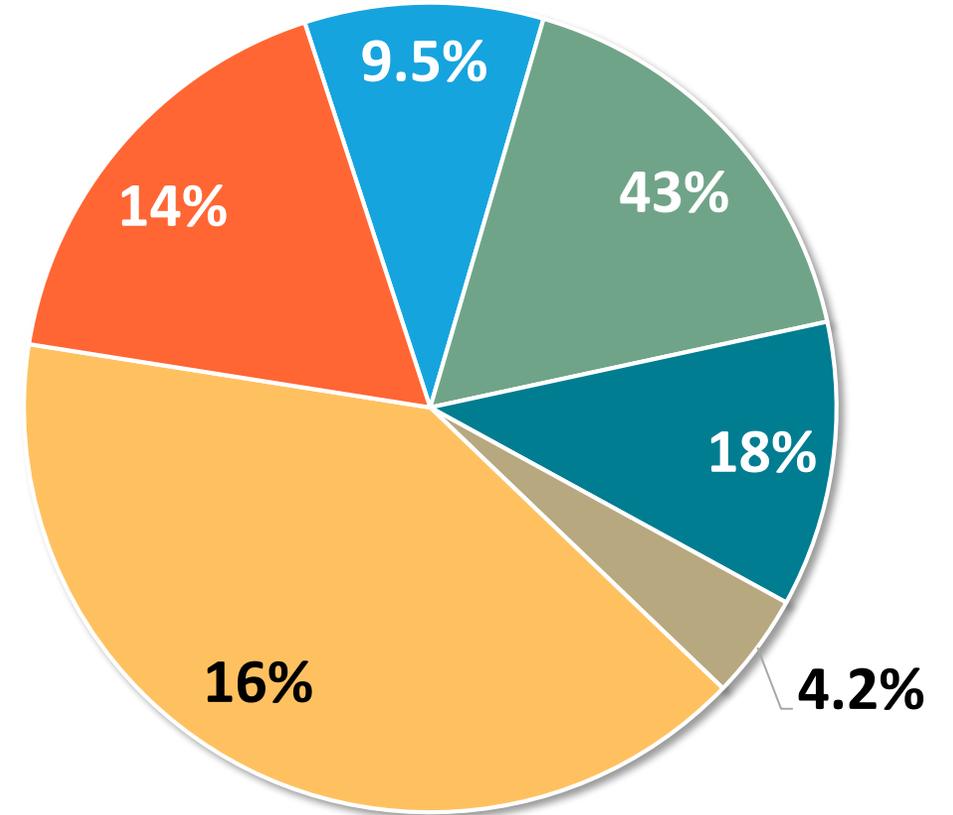
Power was on
99.9% of the time

Average Customers Impacted per Outage:

178

Average Outage Duration (Hours):

2.8



Types of Outages

- Third-Party Incident
- Weather/Vegetation
- PG&E Maintenance/Operations
- Animal Interference
- Equipment Issue
- Unknown

Customer Resources



Target audience: Electricity-dependent individuals with Access & Functional Needs (AFN) living in HFTDs.

Electricity-dependent:

Individuals who are at an increased risk of harm to their health, safety and independence during a PSPS, including, but not limited to:

- Medical and Non-Medical
- Behavioral, Mental and Emotional Health
- Mobility and Movement
- Communication
- Individuals who require devices for health, safety and independence

Resources Provided:

- Emergency Planning Assistance
- Portable backup batteries
- Accessible hotel accommodations
- Accessible transportation
- Food vouchers
- Fuel cards for generators
- Other resources as applicable

i To learn more, visit disabilitydisasteraccess.org/

Assistance offered through this program:

- Additional monthly allotment of energy at the lowest price at your current rate*
- Extra notifications in advance of a Public Safety Power Shutoff event, including in-person doorbell rings by a PG&E representative

*Please note that only certain rate plans are eligible for this additional allotment of energy



i Apply to the MBL program at:
pge.com/medicalbaseline

Community Resource Centers

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

Customer Resources

- Personal and medical device charging
- Mobile battery chargers
- ADA-accessible restroom
- Wi-Fi
- Bottled water/Snacks
- Cooling/heating*
- Seating*
- Ice*

*Indoor locations only

COVID Considerations

- Facial coverings required
- Physical distancing
- Number of visitors limited
- Surfaces are sanitized



i To learn more, visit: [pge.com/crc](https://www.pge.com/crc)

Portable Battery Program

Supporting eligible customers with fully subsidized portable battery solutions.

 pge.com/pspsresources

Partnership with 211

24-7 free and confidential support and resources via calls or texts to 211.

 211ca.org

Generator and Battery Rebate Program

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

 pge.com/backuppowers

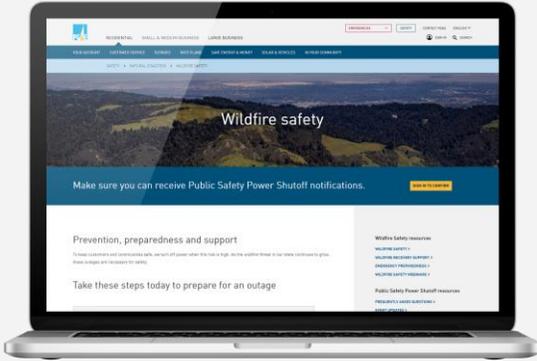
California Foundation for Independent Living Centers

Providing qualifying customers with hotel stays, food stipends and more.

 cfilc.org



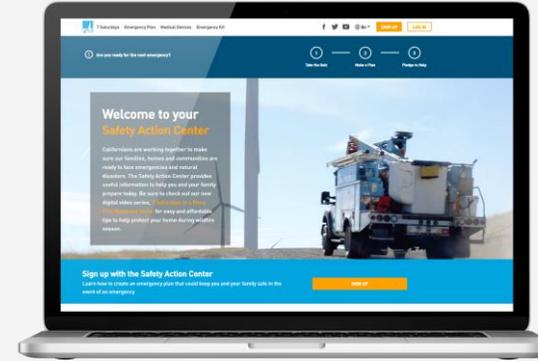
More Information and Tools For Customers to Prepare



Wildfire Safety

Information on wildfire prevention efforts

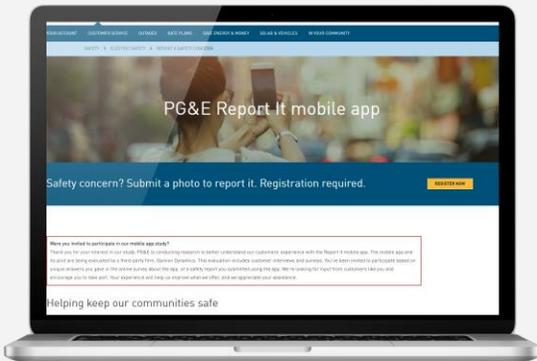
 pge.com/wildfiresafety



Safety Action Center

Create an emergency safety plan to keep you and your family safe

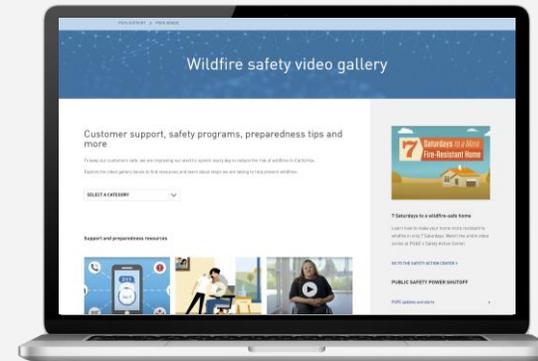
 safetyactioncenter.pge.com



Report It App

Submit photos of non-emergency potential safety concerns

 pge.com/reportit



Wildfire Safety Videos

Videos about wildfire resources and safety

 pge.com/wildfiresafetyvideos

Dedicated wildfire safety contacts: Hotline: 1-866-743-6589 | Email: wildfiresafety@pge.com

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

Local Resilience Efforts





Microgrid Incentive Program (MIP)

PG&E, along with San Diego Gas and Electric and Southern California Edison are awaiting CPUC approval of a new Microgrid Incentive Program to fund clean community microgrids that support the critical needs of vulnerable populations most likely to be impacted by outages.

- ✓ **Increase reliability and resiliency for critical public facilities** for disadvantaged and vulnerable populations impacted by grid outages.
- ✓ **Prioritize communities** with higher portions of low-income, Access and Functional Needs, and electricity dependent residents.
- ✓ **Enable communities with lower ability** to fund development of backup generation to maintain critical loads during outages.

Pending CPUC approval, we expect to be able to share additional details about the program later this year. Incentive fund requests will be evaluated and awarded on a competitive basis.



Community Microgrid Enablement Program (CMEP)

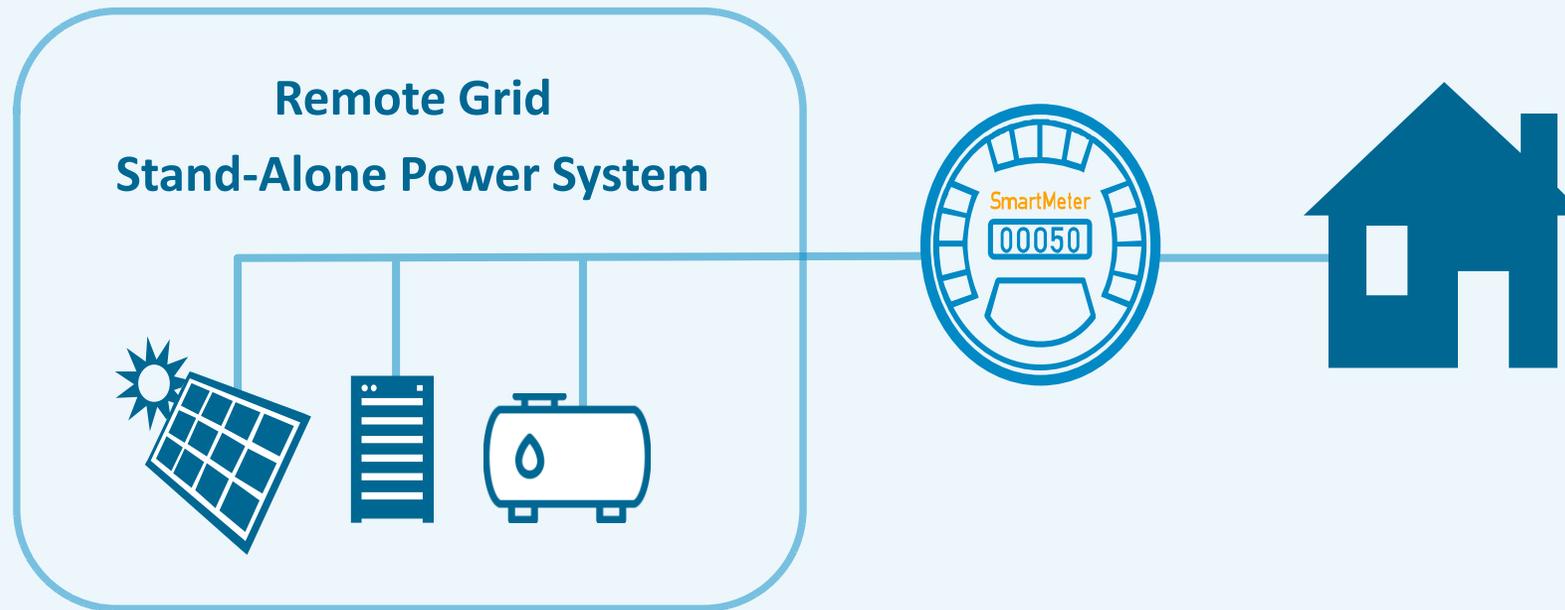
PG&E introduced the CMEP in April 2021 as part of our proposal to address PSPS mitigation. The program consists of four key elements:

- 1 Web-Based Tools and Information** – Providing financial, technical, and interconnection resources for community resilience projects.
- 2 Enhanced Utility Technical Support** – Three-stage process provides incremental support to facilitate development of multi-customer microgrids from initial concept exploration, through assessment, and execution.
- 3 Community Microgrid Enablement Tariff (E-CMET)** – Governs the eligibility, development, and island and transitional operation of community microgrids.
- 4 Cost Offsets** – Up to \$3 million per project to offset the cost of equipment to enable the islanding of a microgrid. Does not cover generation or storage costs.

What is a Remote Grid?

A remote grid is a standalone power system that is independent of the electric grid.

It uses solar, batteries and fuel-powered generation to provide continuous electric service to your home or business. The system is safe, reliable and clean, and significantly reduces wildfire risk by eliminating powerlines in high fire-threat areas.



- ✓ **Reduce wildfire risk** from electric poles and wires
- ✓ **Allow for fewer service interruptions** during winter weather or PSPS
- ✓ **Equal or improved quality and level of service** provided with no change to existing PG&E billing
- ✓ **Are built, maintained and serviced by PG&E professionals** and its qualified contractors





Microgrid Technology Pilots

PG&E has initiated a variety of technology-related pilot programs to help mitigate the risk of wildfires and PSPS events.

Pilot	Description	Status
Mobile BESS Development	<ul style="list-style-type: none">Continued development of mobile battery storage for PSPS mitigation through Tesla Megapack batteriesUndergoing additional safety and operational improvements, tested and studied at the Foresthill site	In Progress
Vehicle Grid Integration (VGI) Microgrid Pilot #3	<ul style="list-style-type: none">As part of the VGI Decision, PG&E plans to test vehicle-to-grid technology to support resiliency in multi-customer PSPS impacted microgridsWill be tested on vehicle-to-grid chargers installed within PSPS microgrids during 2023	Beginning in 2023
Calistoga Clean Substation Pilot	<ul style="list-style-type: none">A proposed, highly innovative, renewable energy microgrid to mitigate PSPS outages using green hydrogen fuel cells and batteriesUses mobile diesel generators to provide backup power at substationsExpected to have no operating emissions of greenhouse gases or other local air pollutants, while still meeting all operating and cost containment requirements for substation microgrids	Pending CPUC Approval

Open Discussion/Q&A



Thank You



Appendix





2022 Q4 Follow Up and Action Items

Description	Agency	Status
Inquiry on WMP performance and if PG&E will complete the remaining 30% of undergrounding work this year to meet the 2022 target.	California Public Utilities Commission	Complete
Inquiry on undergrounding that has occurred in Placer and El Dorado Counties, specifically how much of the undergrounding is transmission line.	Pioneer Community Energy	Complete
Inquiry regarding EPSS statistics and how they are factored into the planning and prioritizing for undergrounding of distribution lines.	Pioneer Community Energy	Complete
Question on capacity restrictions in the Humboldt area, whether there are restrictions or areas where load will not meet industrial or large housing growth needs.	Pioneer Community Energy	Complete
Follow up about whether PG&E is continuing to use the remote grid program in the Sierra Nevada area.	Pioneer Community Energy	Complete
Follow up regarding CRC capacity for large battery devices and PG&E's provided transportation and device transport to the CRC sites.	Independent Living Resources of Solano & Contra Costa Counties	Complete
Request to provide updates on EPSS and Undergrounding pilots in San Mateo County.	Peninsula Clean Energy	Complete
Follow up regarding plans for the conversion of bare wire to covered wire on the Hicks lines in Santa Clara County.	County of Santa Clara	Complete
Follow up with OEM to schedule a more detailed briefing on continued improvements in 2023 Q1 on the Hicks circuit.	County of Santa Clara	Complete



Public Safety Partner Support

PG&E is committed to working collaboratively with Public Safety Partners in advance of and during PSPS outages to support affected customers and communities.

You can send updates to your contact information to the following:

**Water, Wastewater and
Communication Service Providers**

Richard Navarro:
ricardo.navarro@pge.com
209-604-5066

**For Federal, State, Local and Tribal
Agencies, CCAs and POU's**

Roy Regala:
roy.regala@pge.com
650-418-6771



If you have questions, please contact PGELiaisonOfficer@pge.com



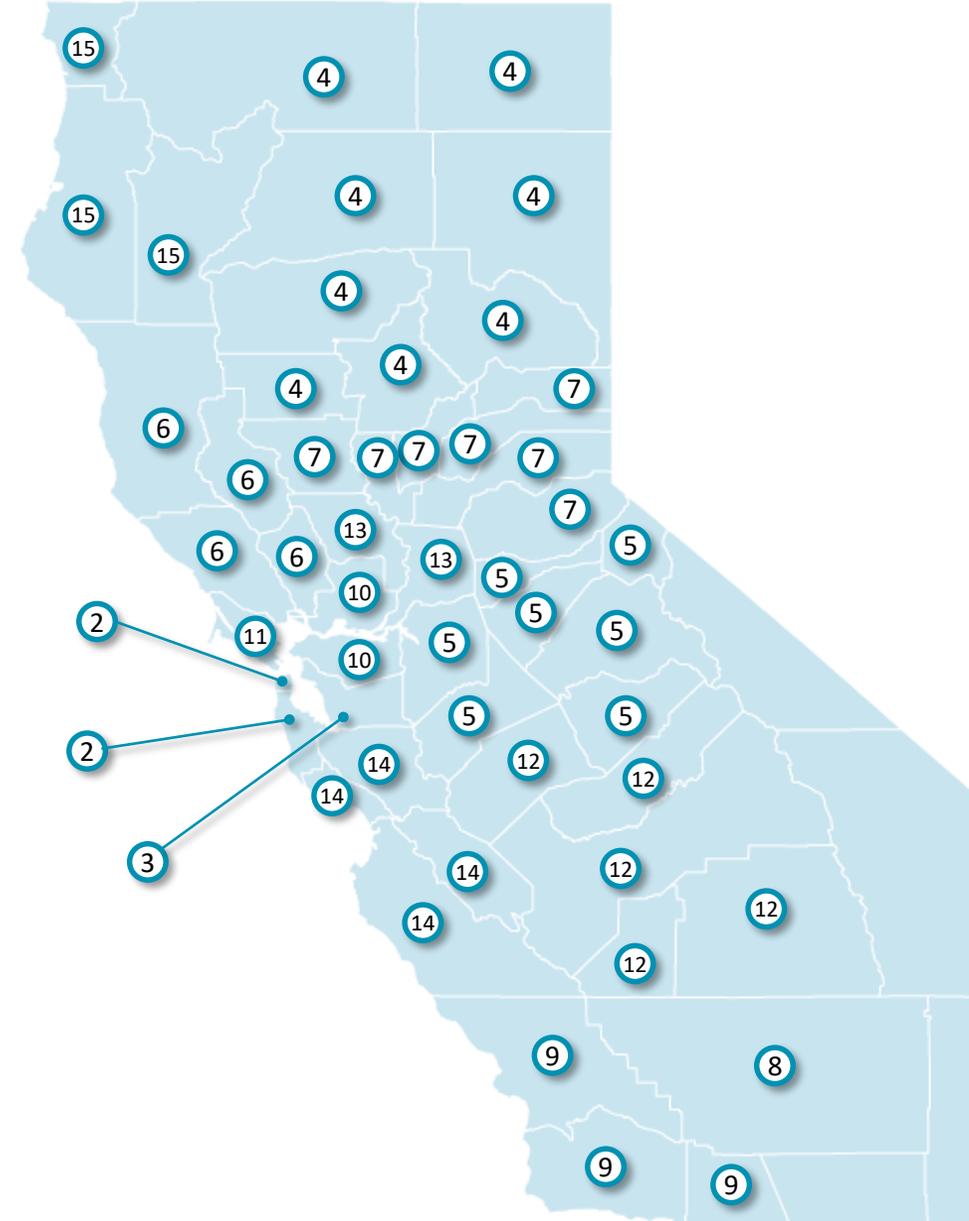
DDAR Centers

Organization

1	The Center for Independent Living (CIL)
2	Center for Independence of Individuals with Disabilities (CID)
3	Community Resources for Independent Living (CRIL)
4	Disability Action Center (DAC)
5	Disability Resources Agency for Independent Living (DRAIL)
6	Disability Services & Legal Center (DSLCL)
7	Center for Independent Living (FREED)
8	Independent Living Center of Kern County (ILCKC)
9	Independent Living Resource Center (ILRC)
10	Independent Living Resources of Solano & Contra Costa Counties (ILRSCC)
11	Marin Center for Independent Living (MCIL)
12	Resources for Independent Living Central Valley (RICV)
13	Resources for Independent Living (RIL)
14	Silicon Valley Independent Living Center (SVILC)
15	Tri-County Independent Living Center (TCIL)
16	The California Foundation for Independent Living Centers (CFILC)*

Counties Served

Alameda
San Mateo
Alameda
Butte, Glenn, Lassen, Modoc, Plumas, Shasta, Siskiyou, Tehama
Alpine, Amador, Calaveras, Mariposa, San Joaquin, Stanislaus, Tuolumne
Lake, Mendocino, Napa, Sonoma
Colusa, El Dorado, Nevada, Placer, Sierra, Sutter, Yuba
Kern
San Luis Obispo, Santa Barbara, Ventura
Contra Costa, Solano
Marin
Fresno, Kings, Madera, Merced, Tulare
Sacramento, Yolo
Santa Clara, Santa Cruz, San Benito, Monterey
Humboldt, Trinity, Del Norte
*Systemwide

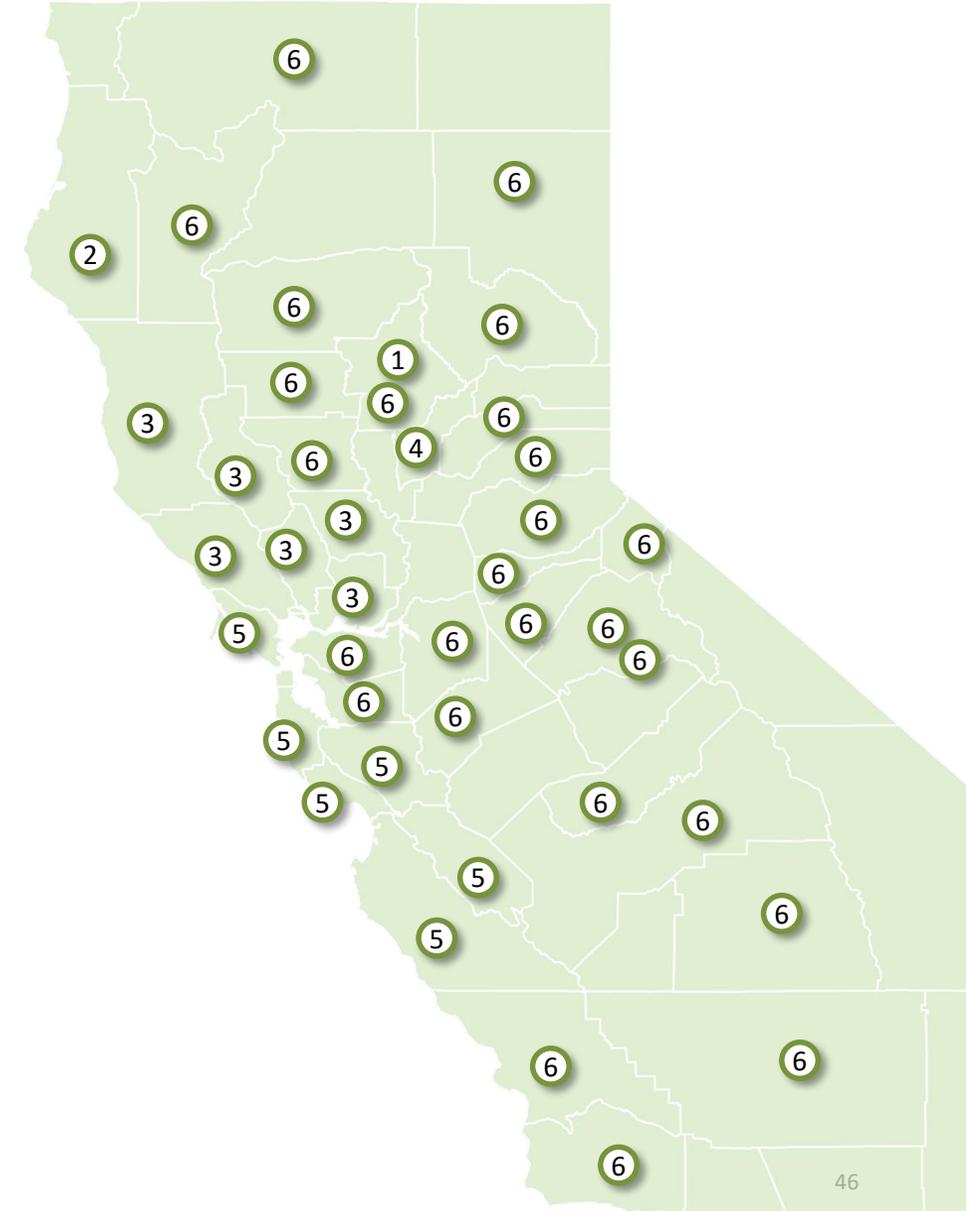


Some of the measures included in this presentation are contemplated as additional precautionary measures intended to further reduce the risk of wildfires.



Portable Battery Providers

Organization		Counties Served
1	Community Action Agency of Butte County, Inc. (LiHEAP vendor) 181 E. Shasta Avenue, Chico, CA 95973 Phone: (530) 712-2600	Butte
2	Redwood Community Action Agency (LiHEAP vendor) 904 G Street, Eureka, CA 95501 (707) 269-2001	Humboldt
3	North Coast Energy Services, Inc. (LiHEAP vendor) 966 Mazzoni Street, Ukiah, CA 95482 Toll-free:(800) 233-4480 Phone:(707) 463-0303	Lake, Mendocino, Napa, Solano, Sonoma, Yolo
4	Community Resource Project, Inc. (LiHEAP vendor) 250 Harris Avenue, Sacramento, CA 95838 Phone: (916) 567-5220	Yuba
5	Central Coast Energy Services, Inc. (LiHEAP vendor) 800-564-4012	Monterey, San Benito, Santa Cruz, San Mateo, Santa Clara, Marin
6	Richard Heath & Associates 559-214-1190	Alameda, Alpine, Amador, Butte, Calaveras, Colusa, Contra Costa, El Dorado, Fresno, Glenn, Kern, Lassen, Madera, Mariposa, Nevada, Placer, Plumas, San Joaquin, San Luis Obispo, Santa Barbara, Shasta, Sierra, Siskiyou, Stanislaus, Tehama, Trinity, Tulare, Tuolumne



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

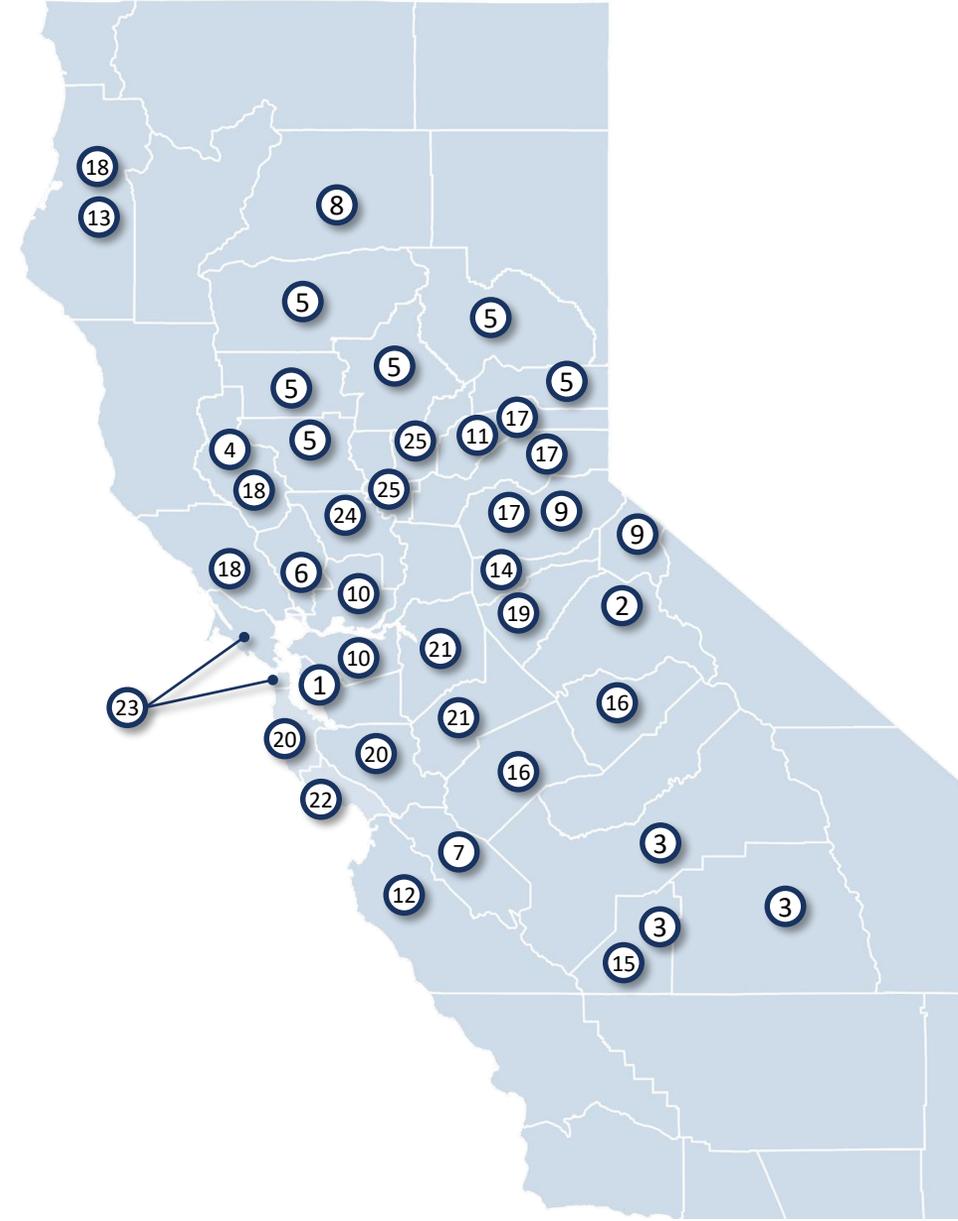


Food Banks

Organization

Counties Served

1	Alameda County Food Bank	Alameda
2	ATCAA Food Bank	Tuolumne
3	Central California Food Bank	Fresno, Kings, Tulare
4	Clear Lake Gleamers Food Bank	Lake
5	Community Action Agency of Butte County	Butte, Colusa, Glenn, Plumas, Sierra, Tehama
6	Community Action of Napa Valley Food Bank	Napa
7	Community Food Bank of San Benito	San Benito
8	Dignity Health Connected Living	Shasta
9	El Dorado Food Bank	Alpine, El Dorado
10	Food Bank of Contra Costa & Solano	Contra Costa, Solano
11	Food Bank of Nevada County	Nevada
12	Food Bank for Monterey County	Monterey
13	Food for People	Humboldt
14	Interfaith Council of Amador	Amador
15	Kings Community Action Organization	Kings
16	Merced County Food Bank	Mariposa, Merced
17	Placer Food Bank	Placer, Nevada, El Dorado
18	Redwood Empire Food Bank	Sonoma, Humboldt, Lake
19	Resource Connection	Calaveras
20	Second Harvest Food Bank of Silicon Valley	San Mateo, Santa Clara
21	Second Harvest Food Bank San Joaquin & Stanislaus	San Joaquin, Stanislaus
22	Second Harvest Food Bank Santa Cruz County	Santa Cruz
23	The San Francisco-Marín Food Bank	Marin, San Francisco
24	Yolo Food Bank	Yolo
25	Yuba Sutter Food Bank	Sutter, Yuba





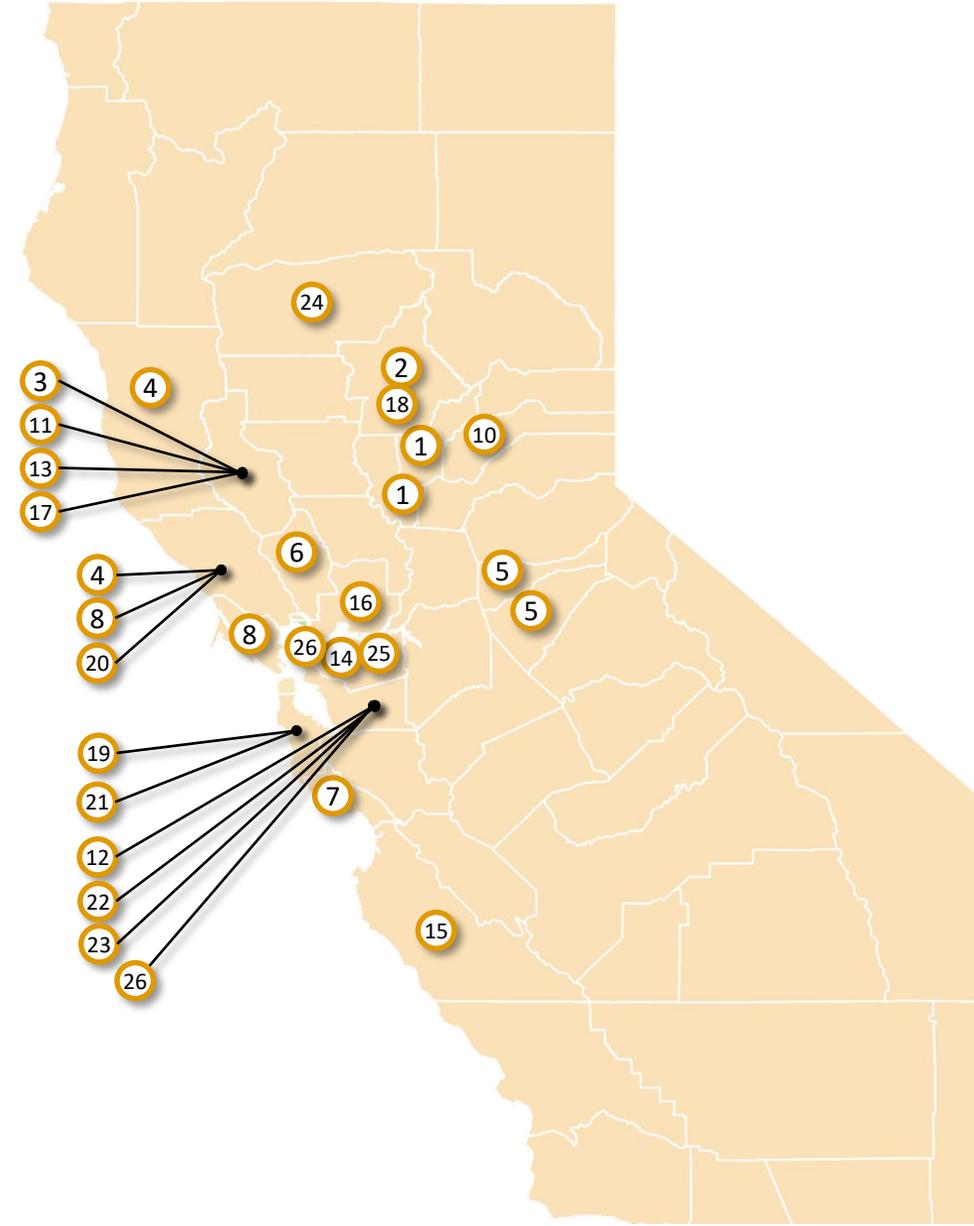
Meals on Wheels

Organization

1	Area Agency on Aging (Yuba Sutter Meals on Wheels)
2	Chico Meals on Wheels
3	Clearlake Senior Center
4	Coastal Seniors
5	Common Ground Senior Services
6	Community Action Agency of Napa Valley
7	Community Bridges
8	Council on Aging
9	Dignity Health Connected Living
10	Gold Country Community Services
11	Lakeport Senior Center
12	Life ElderCare
13	Liveoak Senior Center
14	Meals on Wheels Diablo Region
15	Meals on Wheels Monterey Peninsula
16	Meals on Wheels Solano County
17	Middletown Senior Center
18	Passages
19	Peninsula Volunteers
20	Petaluma People Services
21	Senior Coastsiders
22	Service Opportunity for Seniors
23	Spectrum Community Services
24	Tehama County Community Action Agency
25	West Contra Costa Meals on Wheels
26	J-Sei

Counties Served

Yuba, Sutter
Butte
Lake
Mendocino, Sonoma
Amador, Calaveras
Napa
Santa Cruz
Marin, Sonoma
Shasta
Nevada
Lake
Alameda
Lake
Contra Costa
Monterey
Solano
Lake
Butte
San Mateo
Sonoma
San Mateo
Alameda
Alameda
Tehama
Contra Costa
Alameda, Contra Costa



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



Status of Planned/Upcoming Resilience Efforts – Systemwide

Program	County	Site Name/Area	Status	Estimated Completion
Distribution Microgrids*	Butte	Magalia	Operational	N/A
	Calaveras	Arnold	Operational	N/A
	El Dorado	Georgetown	Operational	N/A
	El Dorado	Pollock Pines	Operational	N/A
	Humboldt	Redwood Coast Airport Microgrid*****	Operational	N/A
	Lake	Clearlake North	Construction Complete	Q2 2023
	Lake	Lucerne	Operational	N/A
	Lake	Middletown	Operational	N/A
	Napa	Angwin	Operational	N/A
	Napa	Calistoga	Operational	N/A
	Placer	Colfax	Operational	N/A
	Placer	Foresthill	Operational	N/A
	Shasta	Shingletown	Operational	N/A
	Tuolumne	Groveland	Operational	N/A
Islanding	Calaveras**	Salt Springs Island	Operational	N/A
	Calaveras***	West Point Island	Operational	N/A
	Humboldt	Humboldt Bay Island	Operational	N/A
	Plumas	Caribou Island	Operational	N/A
	Tehama	Red Bluff Island	Operational	N/A
	Tuolumne	Spring Gap	Operational	N/A

Local work plans are subject to change and data is based on the best available information at this time.

**Distribution microgrids are considered operational once temporary generation is available and energization plans are finalized.*

***Also serves portions of Amador and Alpine Counties.*

****Also serves portions of Amador County.*

*****Facility owned by Redwood Costa Energy Authority; PG&E owns, operates and maintains microgrid circuit*



Status of Planned/Upcoming Resilience Efforts – Systemwide

Program	County	Site Name/Area	Status	Estimated Completion
Remote Grids	Mariposa	Briceburg - Mariposa Remote 001	Operational	N/A
	Tehama	Corning Remote 0001 - 0002	Operational	Q4 2022
	Mariposa	Slaughter House	Under Construction	Q1 2023
	Mariposa	Miami Mountain	Under Construction	Q1 2023
	Madera	Melvin	Planning	Q4 2023
	Sonoma	Pepperwood	Planning	Q4 2023
	Tehama	Battle Creek	Planning	Q4 2023
	Tehama	Manton Wildcat	Planning	Q4 2023
	Tulare	Whitaker Forest	Planning	Q4 2023
	Tuolumne	Forebay	Planning	Q4 2023
	Lake	Anderson Springs	Planning	Q1 2024
	Shasta	Shingletown Wildcat	Planning	Q1 2024

Local work plans are subject to change and data is based on the best available information at this time.

Community Wildfire Safety Program

Q1 2023 REGIONAL WORKING GROUP

Bay Area Region

March 24, 2023



Virtual Sign In Reminder

Please “sign in” using the chat function and provide your **name, organization and email**.



Safety

Preparedness Tips

Always be prepared in case of a natural disaster or an emergency

Build a disaster supply kit for you, your family or your business

Be sure to include food, water, medication, flashlights, first aid kits, a list of emergency contacts and more

Visit safetyactioncenter.pge.com to help prepare for an emergency





Agenda

- 1 Wildfire Mitigation Plan

- 2 Community Wildfire Safety Program

- 3 Additional Resilience Efforts

- 4 Open Discussion and Q&A

PG&E SPEAKERS

Aaron Johnson

Vice President, Bay Area Region

Monica Tell

Regional Senior Manager

Claudia Luna

Local Government Affairs

Barry Stallard

Public Safety Specialist

Reno Franklin

Tribal Liaison

Brian Biancardi

Vegetation Management

An Update on Your Winter Storm Response



Access blocked for crews in Half Moon Bay

An Update on Your Winter Storm Response



Restoration work along the coast in the Peninsula Division

Wildfire Mitigation Plan



We will submit our annual Wildfire Mitigation Plan to California's Office of Energy and Infrastructure Safety (OEIS).

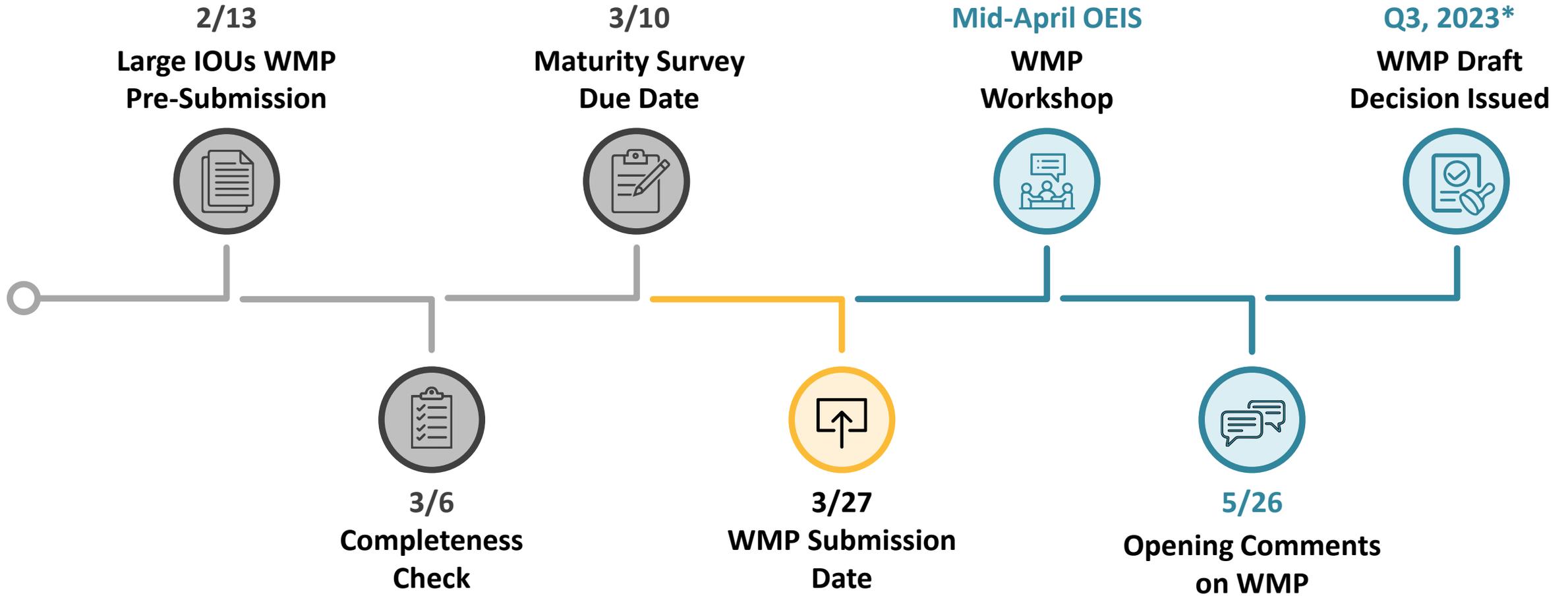
The Wildfire Mitigation Plan:

- ✓ Outlines our strategy for mitigating wildfire risk
- ✓ Aligns strategic goals of engaging with our stakeholders
- ✓ Provides updates to key wildfire mitigation programs
- ✓ Fulfills regulatory requirements



i To learn more, visit pge.com/wildfiremitigationplan

Important 2023 Wildfire Mitigation Plan Dates



Community Wildfire Safety Program Wildfire Safety Objectives



Key Wildfire Safety Objectives This Year

Prevent Wildfires



Reduce Customer Impacts



Provide Better Resources





Multiple Layers of Safety

Our work since 2017 has **eliminated 90% of wildfire risk from our system** through:

Ongoing Safety Efforts

Vegetation Management

System Inspections

Long-Term System Improvements

Undergrounding Powerlines

Overhead System Hardening

Safety Programs and Technology

Public Safety Power Shutoff

Enhanced Powerline Safety Settings

Situational Awareness

High-Definition Cameras

Weather Stations

These efforts add additional layers of protection on top of our system and technology improvements.

Hardening California's Next Generation Electric Grid

PG&E is creating a safer and more reliable electric system by hardening powerlines.

This includes replacing overhead lines and equipment with sturdier materials.

Our overhead hardening includes:

- Stronger poles
- Larger crossarms
- Covered powerlines

Overhead hardening benefits include:

- Mitigating the risk of wildfires
- Enhancing long-term safety
- Improving reliability



In 2022, PG&E completed **2 miles** of overhead hardening and line removal in the **Bay Area Region.**

Identifying Undergrounding Projects to Reduce Wildfire Risk

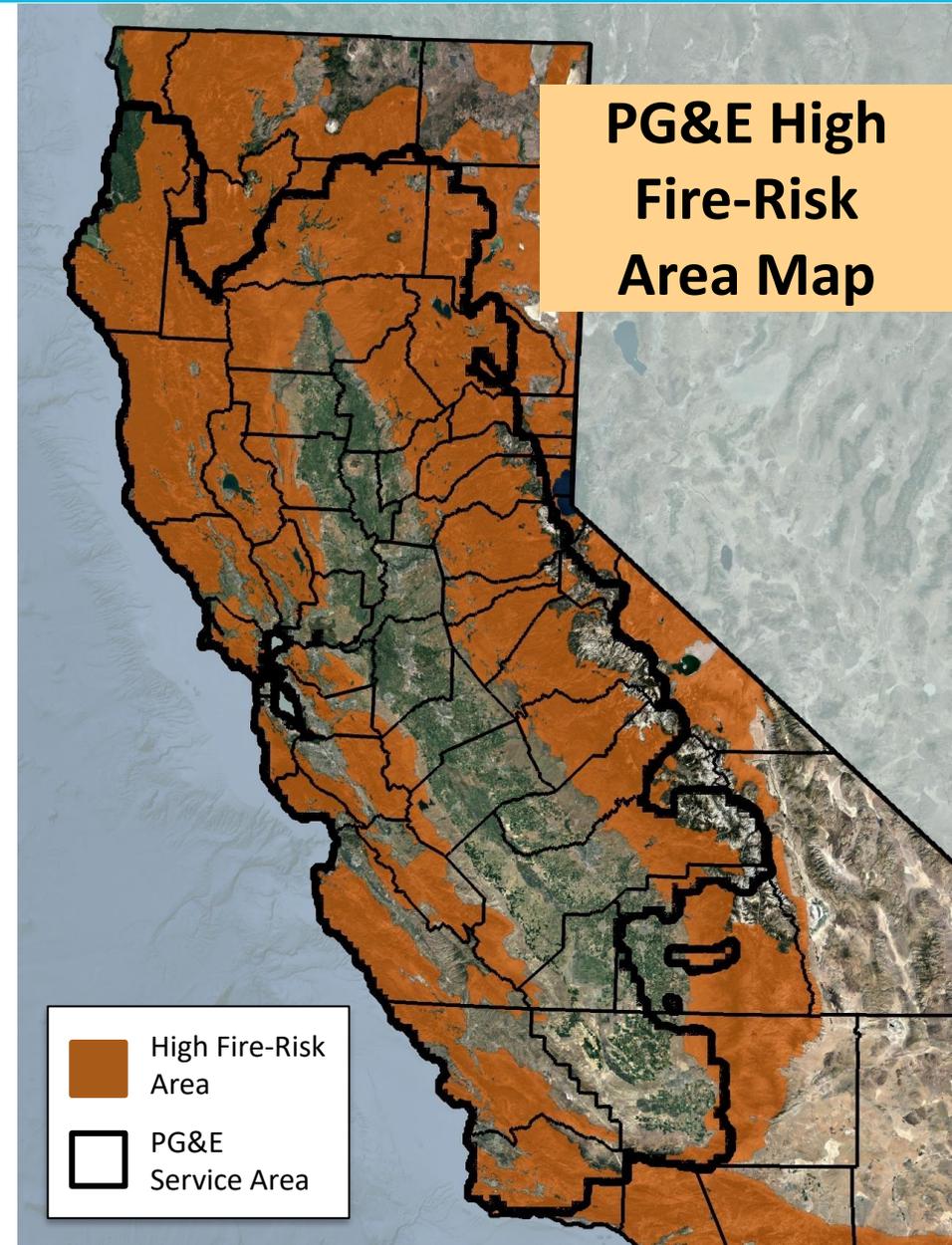
We are prioritizing undergrounding in areas where we have the greatest impact on reducing wildfire risk.

We use advanced machine-learning based risk modeling and partner with wildfire analysis providers. This modeling considers:

- Historic ignitions
- Vegetation
- Topography
- Age and condition of the electrical equipment

We also consider the probability of an ignition and consequences if a wildfire were to start in a specific location.

To learn more, visit [pge.com/undergrounding](https://www.pge.com/undergrounding)



Bay Area 2022-2023 Undergrounding

Bay Area Undergrounding		
COUNTY	2022 (Completed)	2023 (Forecast)
Alameda	-	1
Contra Costa	4	4
San Francisco	-	-
San Mateo	3	6
TOTAL	7	12

Overhead Hardening and Line Removal		
COUNTY	2022 (Completed)	2023 (Forecast)
Alameda	<1	-
Contra Costa	1	3
San Francisco	-	-
San Mateo	1	<1
TOTAL	2	3



**Data as of 01/03/2023. This map is for illustrative purposes. Forecasts can change as our risk model evolves to address the greatest wildfire risk. Forecast miles also exceed annual targets. Mileage in your community may increase or decrease due to access, weather, permitting or other constraints. In most cases, if a project is not completed during the year originally identified, it will continue through planning/construction phases during subsequent years.*

Community Wildfire Safety Program Vegetation Management



Keeping Trees Away From Powerlines

When trees are too close to powerlines, they can cause outages and serious safety issues.

That's why each year we:

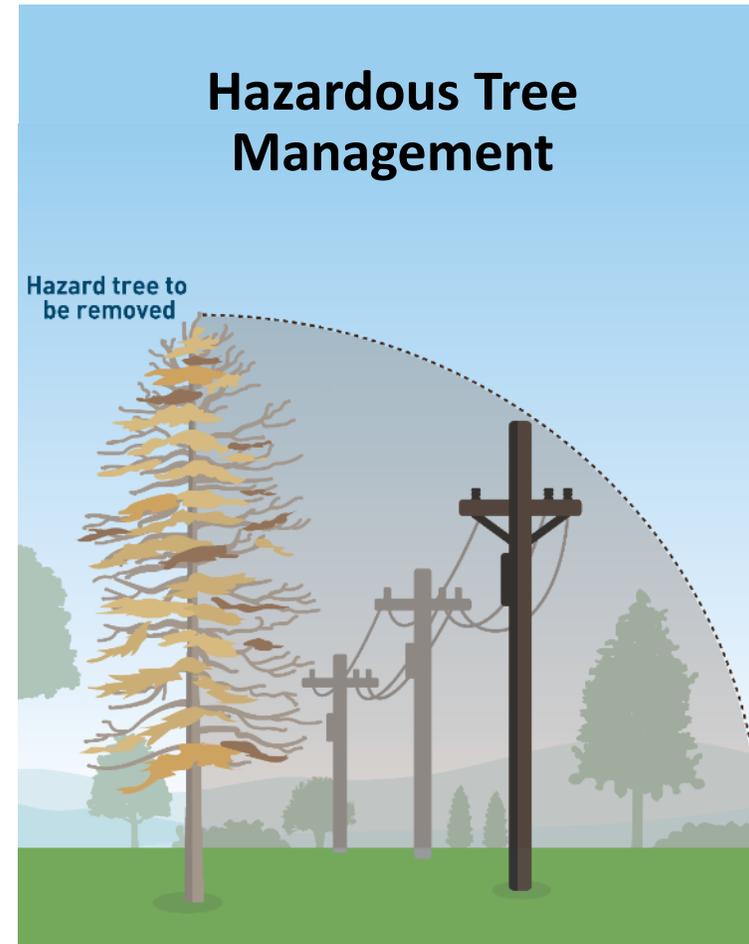
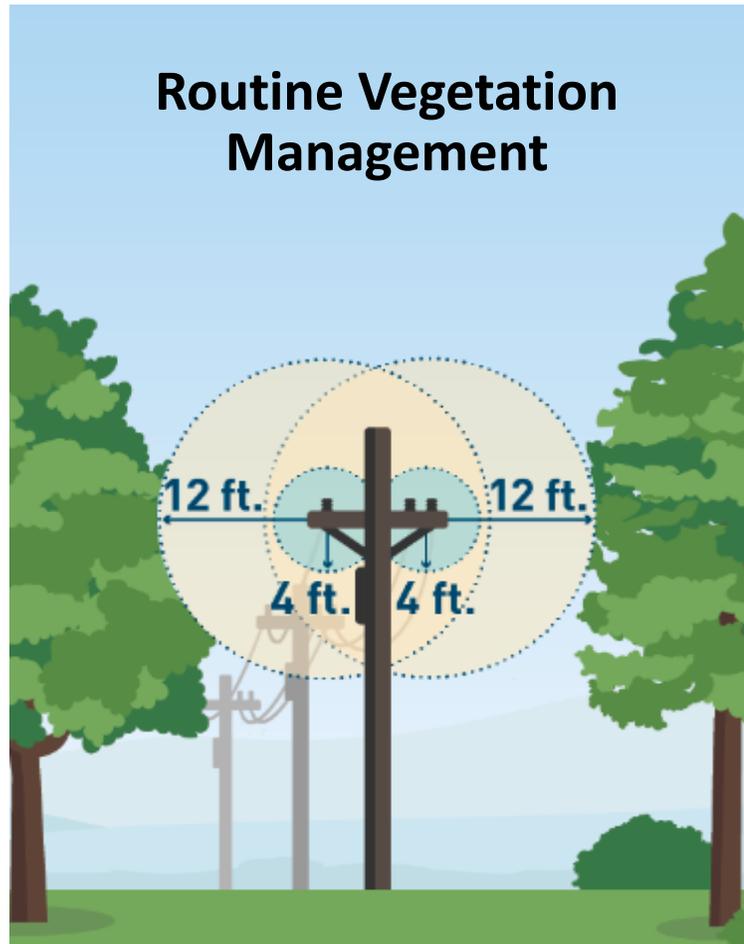
- ✓ **Inspect ~100,000 miles** of overhead powerlines
- ✓ **Prune or cut down more than 1 million trees** that are an unsafe distance from the line
- ✓ **Address dead, dying or hazard trees**
- ✓ **Conduct additional trimming** around lines that have had a lot of vegetation-caused outages



i To learn more, visit [pge.com/trees](https://www.pge.com/trees)

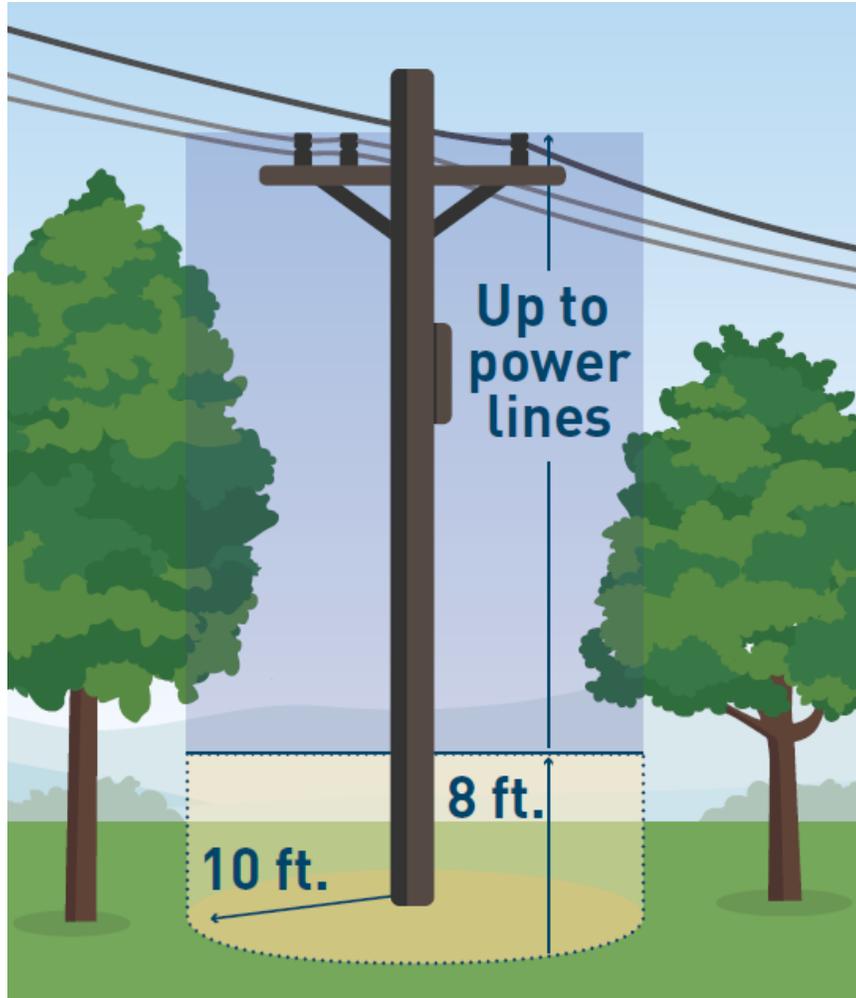
Keeping Trees Away From Overhead Powerlines

Annual inspections along all electric distribution lines

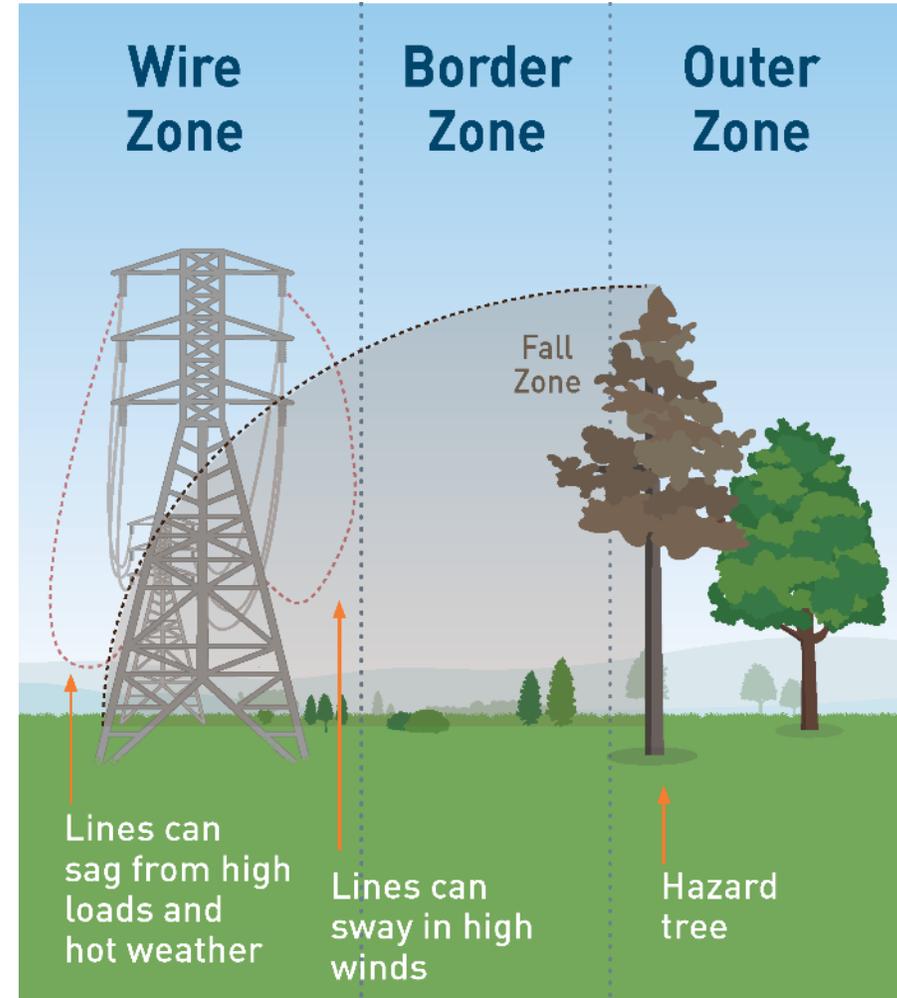


We are managing vegetation near our powerlines through a variety of programs.

Distribution Pole Clearing and Vegetation Work Around Transmission Lines



Pole Clearing



Work Around Transmission Lines

Customers can expect the following when vegetation management work is being conducted in their communities:

- ① **Advance notifications** before inspections or tree work begins on your property
- ② **Inspections** to identify potential safety concerns
- ③ **Tree work** following the inspection to complete any necessary safety work
- ④ **Safety and quality checks** through follow-up inspections to ensure work meets the required safety standards



Our crews manage woody debris, which is material smaller than four inches in diameter, through methods such as chipping or scattering onsite.

Wood management may include:

- ✓ Relocating wood to a safe location on the property
- ✓ Hauling wood offsite
- ✓ Chipping wood onsite
- ✓ Lopping and scattering material onsite

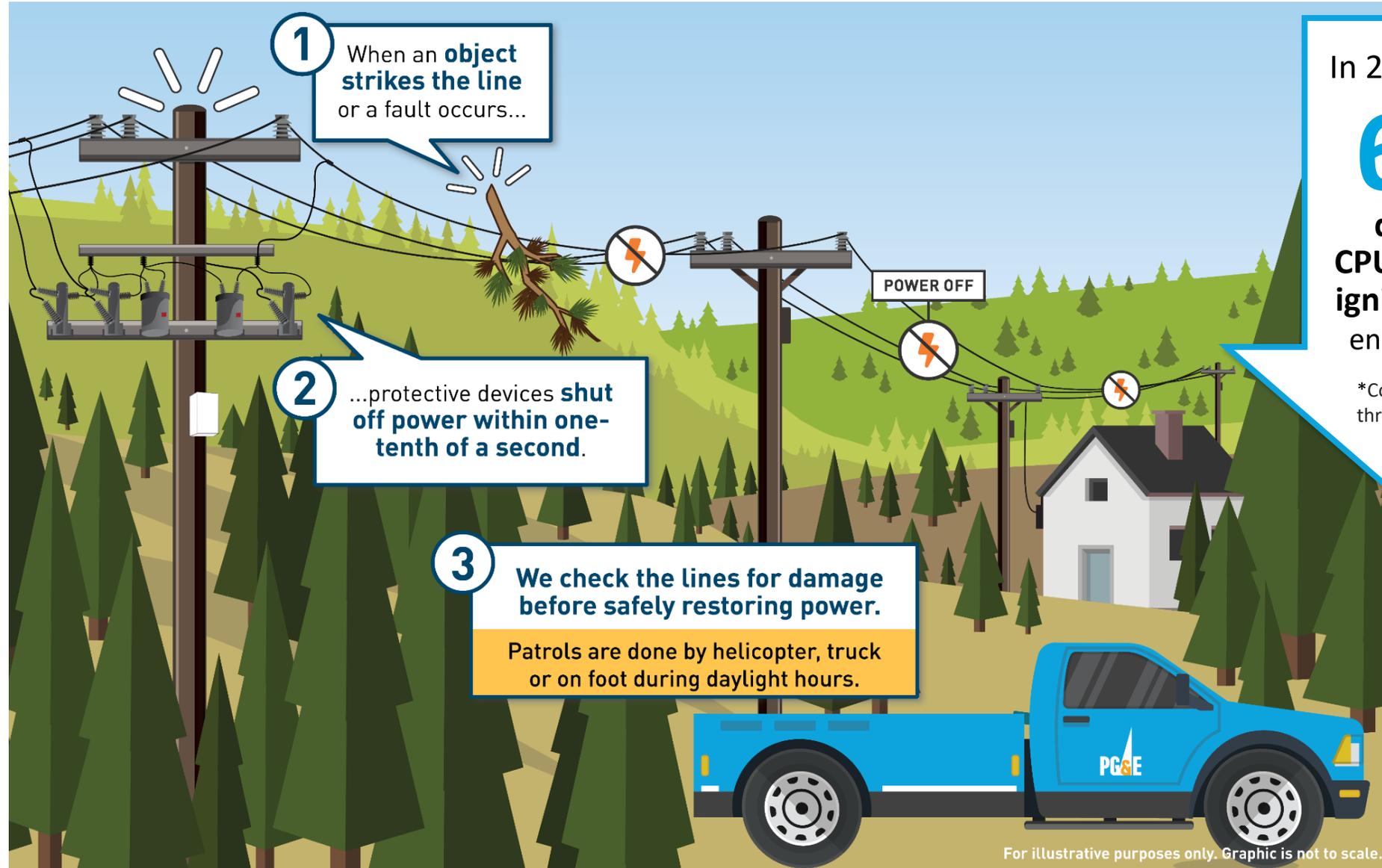


i To learn more, visit [**pge.com/woodmanagement**](https://www.pge.com/woodmanagement)

Wildfire Safety Outages



Enhanced Powerline Safety Settings, Step-By-Step



In 2022, we saw a

68%

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

*Compared to previous three years 2018-2020

For illustrative purposes only. Graphic is not to scale.



PSPS Notification Improvements

Based on feedback, we made improvements to the way we notify customers before, during and after a Public Safety Power Shutoff.

PSPS notification improvements include:

- ✓ Informing customers when a PSPS is delayed, and de-energization may still occur
- ✓ Informing customers when power is “off” at time of de-energization
- ✓ PSPS notifications no longer allow for opt-outs

PG&E resources to help customers prepare:

Receive notifications for any address at

[pge.com/addressalerts](https://www.pge.com/addressalerts)

Find resources and support at

[pge.com/pspsresources](https://www.pge.com/pspsresources)

Update your contact information at

[pge.com/pspsalerts](https://www.pge.com/pspsalerts)



How and When are Stakeholders Notified for PSPS?

	PSPS Event						
	3 Days PRIORITY / ADVANCE	2 Day and 1 Day WATCH	Just Before WARNING	Power Turned Off	Weather Passed	ETOR Update	Power Restored
Severe Weather Forecasted							
Agency/Critical Customer/CBO* Resource Partner Notifications	✓	✓	✓	✓	✓	✓	✓
Transmission Customers	✓	✓	✓	✓	✓	✓	✓
Customer Notifications Includes Address Alerts		✓	✓	✓	✓	✓	✓
CPUC Report							

Medical Baseline Program, Self-Identified Vulnerable Status Participants and electricity dependent customers**, also receive:

- Hourly Texts, Calls and Emails until contact is made
- Doorbell Rings if no positive contact is made
- Door Hanger Left if no contact is made

*Community-Based Organization

**Electricity Dependent includes customers who use electricity for Durable Medical Equipment or Assistive Technology.

We have taken significant steps to reduce wildfire ignitions while ensuring a continued focus on minimizing unplanned outages.

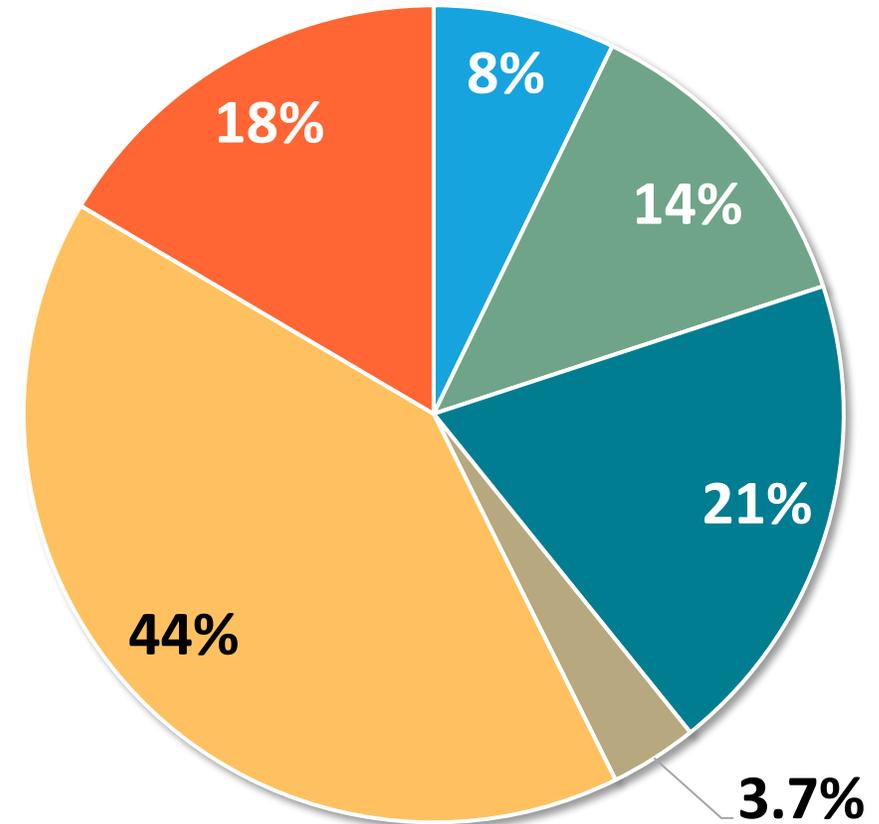
Power was on
99.9% of the time

Average Customers Impacted per Outage:

224

Average Outage Duration (Hours):

2.8



Types of Outages

- Third- Party Incident
- Weather/Vegetation
- PG&E Maintenance/Operations
- Animal Interference
- Equipment Issue
- Unknown

Customer Resources



Community Resource Centers

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

Customer Resources

- Personal and medical device charging
- Mobile battery chargers
- ADA-accessible restroom
- Wi-Fi
- Bottled water/Snacks
- Cooling/heating*
- Seating*
- Ice*

*Indoor locations only

COVID Considerations

- Facial coverings required
- Physical distancing
- Number of visitors limited
- Surfaces are sanitized



i To learn more, visit: [pge.com/crc](https://www.pge.com/crc)

Target audience: Electricity-dependent individuals with Access & Functional Needs (AFN) living in HFTDs.

Electricity-dependent:

Individuals who are at an increased risk of harm to their health, safety and independence during a PSPS, including, but not limited to:

- Medical and Non-Medical
- Behavioral, Mental and Emotional Health
- Mobility and Movement
- Communication
- Individuals who require devices for health, safety and independence

Resources Provided:

- Emergency Planning Assistance
- Portable backup batteries
- Accessible hotel accommodations
- Accessible transportation
- Food vouchers
- Fuel cards for generators
- Other resources as applicable

i To learn more, visit disabilitydisasteraccess.org/

Assistance offered through this program:

- Additional monthly allotment of energy at the lowest price at your current rate*
- Extra notifications in advance of a Public Safety Power Shutoff event, including in-person doorbell rings by a PG&E representative

*Please note that only certain rate plans are eligible for this additional allotment of energy



i Apply to the MBL program at:
pge.com/medicalbaseline



Customer Resources and Support for PSPS Outages and EPSS

Portable Battery Program

Supporting eligible customers with fully subsidized portable battery solutions.

 pge.com/pspsresources

Partnership with 211

24-7 free and confidential support and resources via calls or texts to 211.

 211ca.org

Generator and Battery Rebate Program

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

 pge.com/backupper

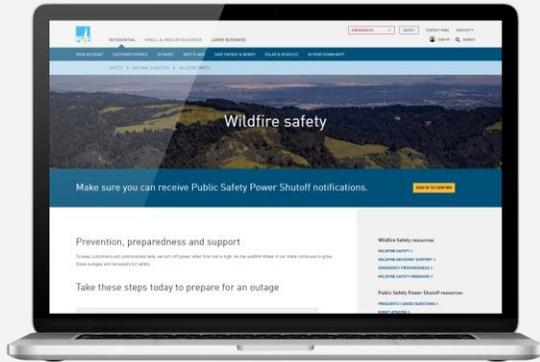
California Foundation for Independent Living Centers

Providing qualifying customers with hotel stays, food stipends and more.

 cfilc.org



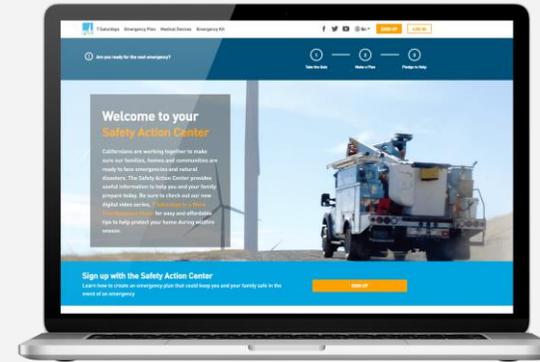
More Information and Tools For Customers to Prepare



Wildfire Safety

Information on wildfire prevention efforts

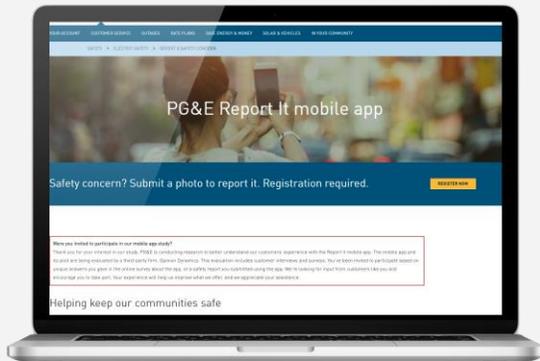
 pge.com/wildfiresafety



Safety Action Center

Create an emergency safety plan to keep you and your family safe

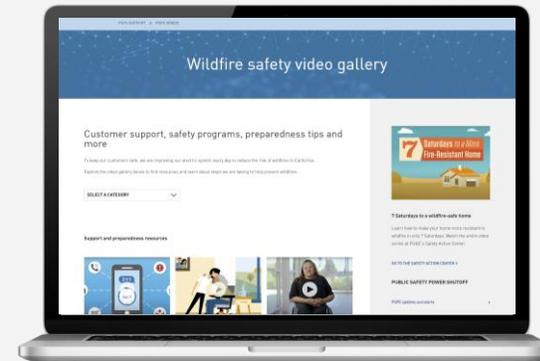
 safetyactioncenter.pge.com



Report It App

Submit photos of non-emergency potential safety concerns

 pge.com/reportit



Wildfire Safety Videos

Videos about wildfire resources and safety

 pge.com/wildfiresafetyvideos

Dedicated wildfire safety contacts: Hotline: 1-866-743-6589 | Email: wildfiresafety@pge.com

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

Additional Resilience Efforts





Microgrid Incentive Program (MIP)

PG&E, along with San Diego Gas and Electric and Southern California Edison are awaiting CPUC approval of a new Microgrid Incentive Program to fund clean community microgrids.

- ✓ **Increase reliability and resiliency for critical public facilities** for disadvantaged and vulnerable populations impacted by grid outages.
- ✓ **Prioritize communities** with higher portions of low-income, Access and Functional Needs, and electricity dependent residents.
- ✓ **Enable communities with lower ability** to fund development of backup generation to maintain critical loads during outages.

Pending CPUC approval, we expect to be able to share additional details about the program later this year. Incentive fund requests will be evaluated and awarded on a competitive basis.

Community Microgrid Enablement Program (CMEP)

PG&E introduced the CMEP in April 2021 as part of our proposal to address PSPS mitigation.

The program consists of four key elements:

- 1 Web-Based Tools and Information** – Providing financial, technical, and interconnection resources for community resilience projects.
- 2 Enhanced Utility Technical Support** – Three-stage process provides incremental support to facilitate development of multi-customer microgrids from initial concept exploration, through assessment, and execution.
- 3 Community Microgrid Enablement Tariff (E-CMET)** – Governs the eligibility, development, and island and transitional operation of community microgrids.
- 4 Cost Offsets** – Up to \$3 million per project to offset the cost of equipment to enable the islanding of a microgrid. Does not cover generation or storage costs.

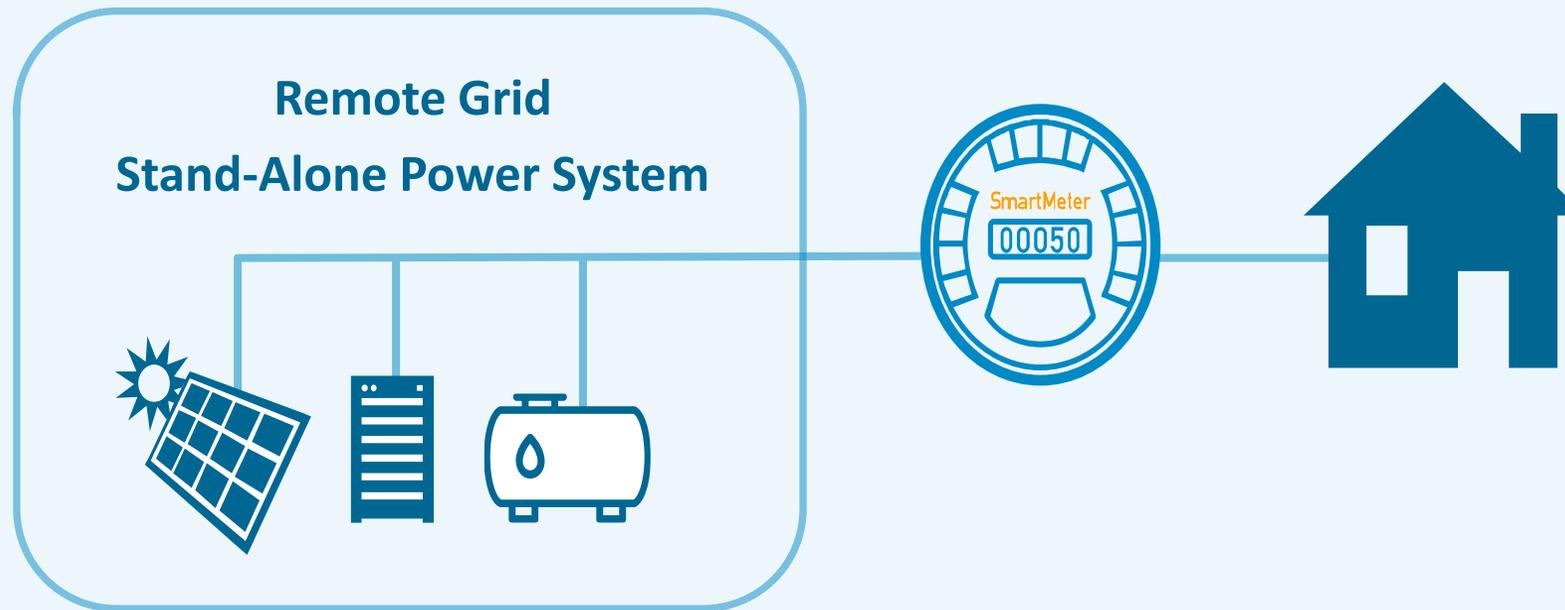


i To learn more, visit pge.com/cmep

What is a Remote Grid?

A remote grid is a standalone power system that is independent of the electric grid.

It uses solar, batteries and fuel-powered generation to provide continuous electric service to your home or business. The system is safe, reliable and clean, and significantly reduces wildfire risk by eliminating powerlines in high fire-threat areas.





Microgrid Technology Pilots

PG&E has initiated a variety of technology-related pilot programs to help mitigate the risk of wildfires and PSPS events.

Pilot	Description	Status
Mobile BESS Development	<ul style="list-style-type: none">Continued development of mobile battery storage for PSPS mitigation through Tesla Megapack batteriesUndergoing additional safety and operational improvements, tested and studied at the Foresthill site	In Progress
Vehicle Grid Integration (VGI) Microgrid Pilot #3	<ul style="list-style-type: none">As part of the VGI Decision, PG&E plans to test vehicle-to-grid technology to support resiliency in multi-customer PSPS impacted microgridsWill be tested on vehicle-to-grid chargers installed within PSPS microgrids during 2023	Beginning in 2023
Calistoga Clean Substation Pilot	<ul style="list-style-type: none">A proposed, highly innovative, renewable energy microgrid to mitigate PSPS outages using green hydrogen fuel cells and batteriesUses mobile diesel generators to provide backup power at substationsExpected to have no operating emissions of greenhouse gases or other local air pollutants, while still meeting all operating and cost containment requirements for substation microgrids	Pending CPUC Approval

Open Discussion/Q&A



Thank You



Appendix





2022 Q4 Follow Up and Action Items

Description	Agency	Status
Inquiry on WMP performance and if PG&E will complete the remaining 30% of undergrounding work this year to meet the 2022 target.	California Public Utilities Commission	Complete
Inquiry on undergrounding that has occurred in Placer and El Dorado Counties, specifically how much of the undergrounding is transmission line.	Pioneer Community Energy	Complete
Inquiry regarding EPSS statistics and how they are factored into the planning and prioritizing for undergrounding of distribution lines.	Pioneer Community Energy	Complete
Question on capacity restrictions in the Humboldt area, whether there are restrictions or areas where load will not meet industrial or large housing growth needs.	Pioneer Community Energy	Complete
Follow up about whether PG&E is continuing to use the remote grid program in the Sierra Nevada area.	Pioneer Community Energy	Complete
Follow up regarding CRC capacity for large battery devices and PG&E's provided transportation and device transport to the CRC sites.	Independent Living Resources of Solano & Contra Costa Counties	Complete
Request to provide updates on EPSS and Undergrounding pilots in San Mateo County.	Peninsula Clean Energy	Complete
Follow up regarding plans for the conversion of bare wire to covered wire on the Hicks lines in Santa Clara County.	County of Santa Clara	Complete
Follow up with OEM to schedule a more detailed briefing on continued improvements in 2023 Q1 on the Hicks circuit.	County of Santa Clara	Complete



Public Safety Partner Support

PG&E is committed to working collaboratively with Public Safety Partners in advance of and during PSPS outages to support affected customers and communities.

You can send updates to your contact information to the following:

**Water, Wastewater and
Communication Service Providers**

Richard Navarro:
ricardo.navarro@pge.com
209-604-5066

**For Federal, State, Local and Tribal
Agencies, CCAs and POUs**

Roy Regala:
roy.regala@pge.com
650-418-6771



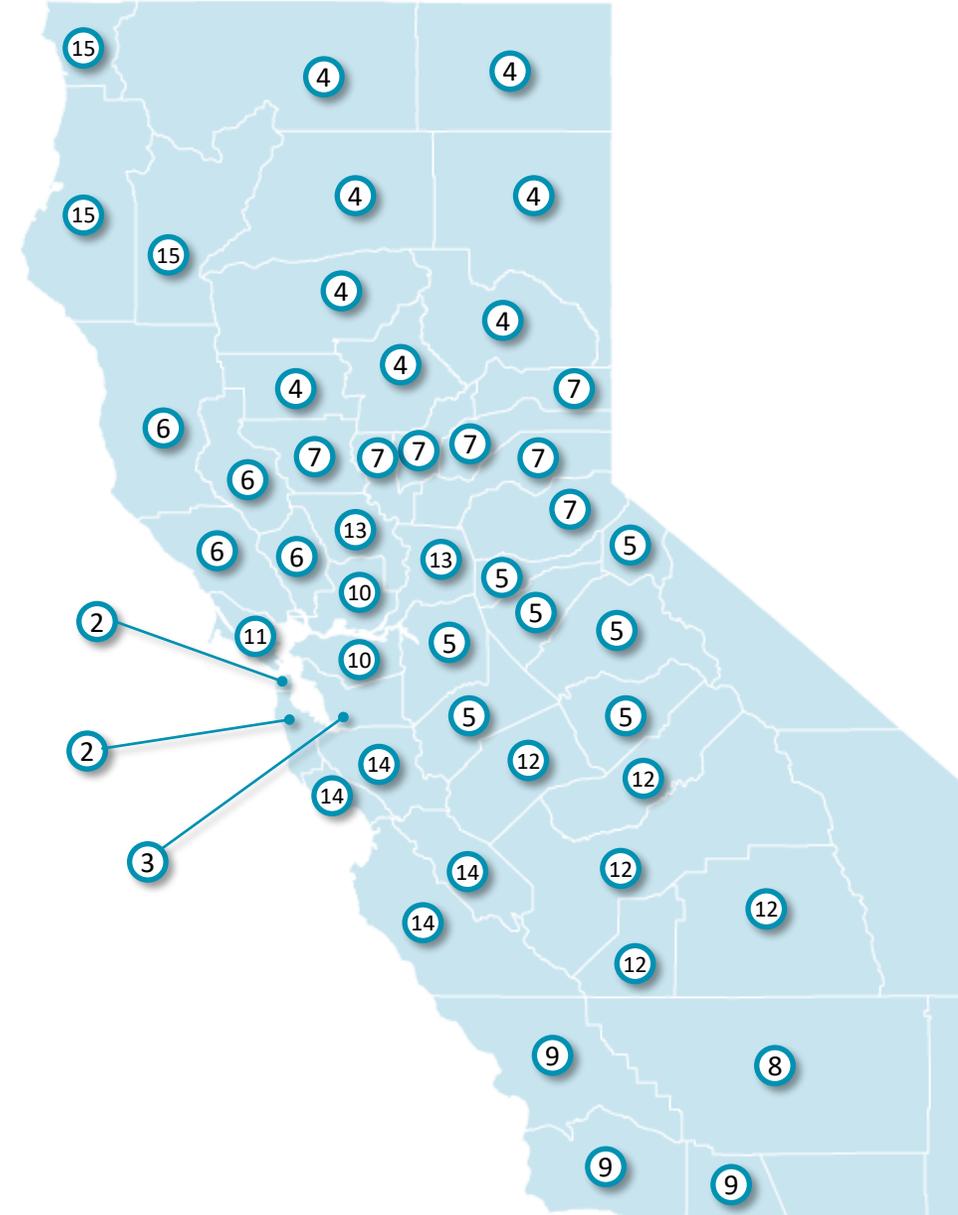
If you have questions, please contact PGELiaisonOfficer@pge.com

Organization

1	The Center for Independent Living (CIL)
2	Center for Independence of Individuals with Disabilities (CID)
3	Community Resources for Independent Living (CRIL)
4	Disability Action Center (DAC)
5	Disability Resources Agency for Independent Living (DRAIL)
6	Disability Services & Legal Center (DSLCL)
7	Center for Independent Living (FREED)
8	Independent Living Center of Kern County (ILCKC)
9	Independent Living Resource Center (ILRC)
10	Independent Living Resources of Solano & Contra Costa Counties (ILRSCC)
11	Marin Center for Independent Living (MCIL)
12	Resources for Independent Living Central Valley (RICV)
13	Resources for Independent Living (RIL)
14	Silicon Valley Independent Living Center (SVILC)
15	Tri-County Independent Living Center (TCIL)
16	The California Foundation for Independent Living Centers (CFILC)*

Counties Served

Alameda
San Mateo
Alameda
Butte, Glenn, Lassen, Modoc, Plumas, Shasta, Siskiyou, Tehama
Alpine, Amador, Calaveras, Mariposa, San Joaquin, Stanislaus, Tuolumne
Lake, Mendocino, Napa, Sonoma
Colusa, El Dorado, Nevada, Placer, Sierra, Sutter, Yuba
Kern
San Luis Obispo, Santa Barbara, Ventura
Contra Costa, Solano
Marin
Fresno, Kings, Madera, Merced, Tulare
Sacramento, Yolo
Santa Clara, Santa Cruz, San Benito, Monterey
Humboldt, Trinity, Del Norte
*Systemwide



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



Portable Battery Providers

Organization	Counties Served
1 Community Action Agency of Butte County, Inc. (LiHEAP vendor) 181 E. Shasta Avenue, Chico, CA 95973 Phone: (530) 712-2600	Butte
2 Redwood Community Action Agency (LiHEAP vendor) 904 G Street, Eureka, CA 95501 (707) 269-2001	Humboldt
3 North Coast Energy Services, Inc. (LiHEAP vendor) 966 Mazzoni Street, Ukiah, CA 95482 Toll-free:(800) 233-4480 Phone:(707) 463-0303	Lake, Mendocino, Napa, Solano, Sonoma, Yolo
4 Community Resource Project, Inc. (LiHEAP vendor) 250 Harris Avenue, Sacramento, CA 95838 Phone: (916) 567-5220	Yuba
5 Central Coast Energy Services, Inc. (LiHEAP vendor) 800-564-4012	Monterey, San Benito, Santa Cruz, San Mateo, Santa Clara, Marin
6 Richard Heath & Associates 559-214-1190	Alameda, Alpine, Amador, Butte, Calaveras, Colusa, Contra Costa, El Dorado, Fresno, Glenn, Kern, Lassen, Madera, Mariposa, Nevada, Placer, Plumas, San Joaquin, San Luis Obispo, Santa Barbara, Shasta, Sierra, Siskiyou, Stanislaus, Tehama, Trinity, Tulare, Tuolumne

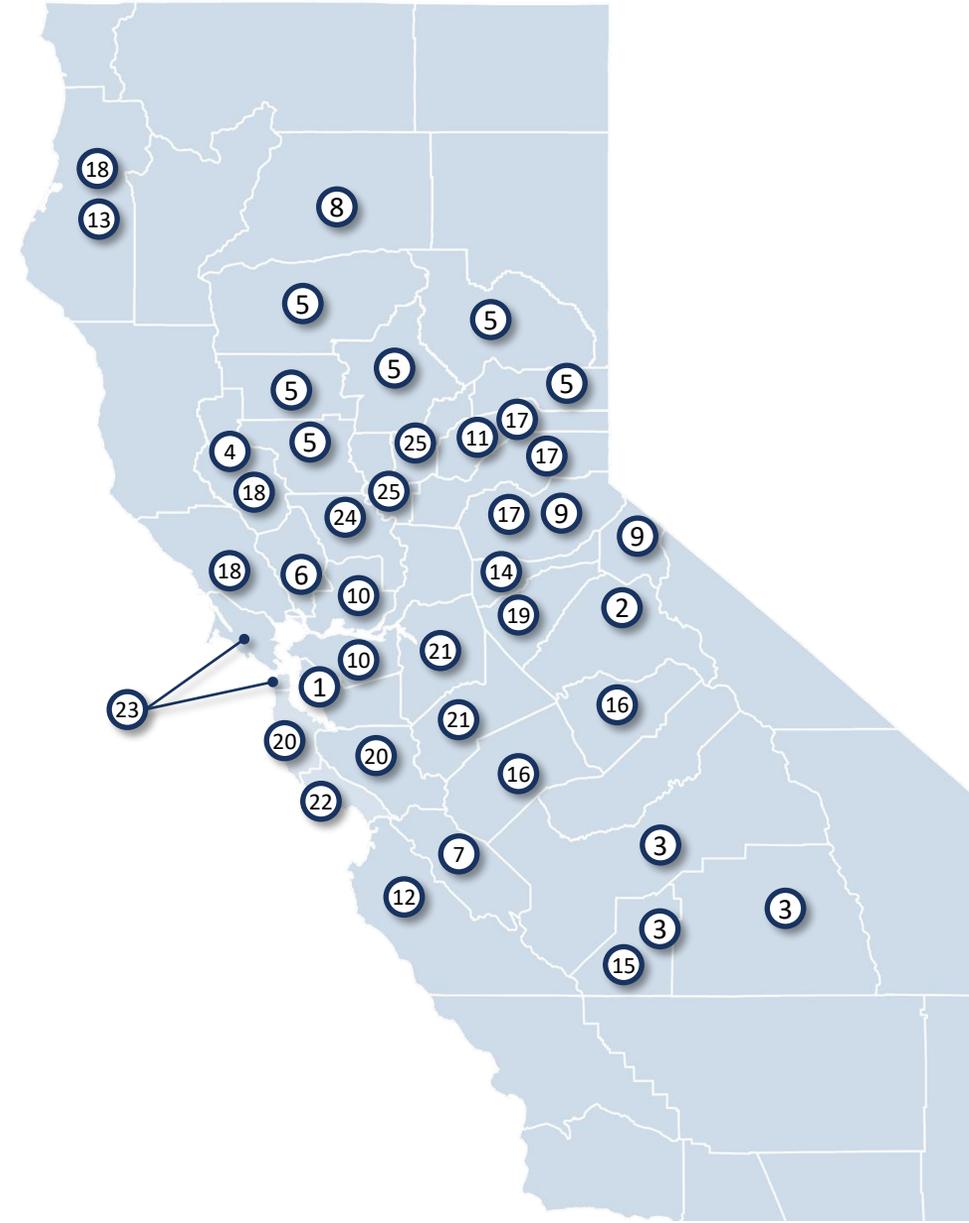


Some of the measures included in this presentation are contemplated as additional precautionary measures intended to further reduce the risk of wildfires.

Organization

Counties Served

1	Alameda County Food Bank	Alameda
2	ATCAA Food Bank	Tuolumne
3	Central California Food Bank	Fresno, Kings, Tulare
4	Clear Lake Gleamers Food Bank	Lake
5	Community Action Agency of Butte County	Butte, Colusa, Glenn, Plumas, Sierra, Tehama
6	Community Action of Napa Valley Food Bank	Napa
7	Community Food Bank of San Benito	San Benito
8	Dignity Health Connected Living	Shasta
9	El Dorado Food Bank	Alpine, El Dorado
10	Food Bank of Contra Costa & Solano	Contra Costa, Solano
11	Food Bank of Nevada County	Nevada
12	Food Bank for Monterey County	Monterey
13	Food for People	Humboldt
14	Interfaith Council of Amador	Amador
15	Kings Community Action Organization	Kings
16	Merced County Food Bank	Mariposa, Merced
17	Placer Food Bank	Placer, Nevada, El Dorado
18	Redwood Empire Food Bank	Sonoma, Humboldt, Lake
19	Resource Connection	Calaveras
20	Second Harvest Food Bank of Silicon Valley	San Mateo, Santa Clara
21	Second Harvest Food Bank San Joaquin & Stanislaus	San Joaquin, Stanislaus
22	Second Harvest Food Bank Santa Cruz County	Santa Cruz
23	The San Francisco-Marín Food Bank	Marin, San Francisco
24	Yolo Food Bank	Yolo
25	Yuba Sutter Food Bank	Sutter, Yuba





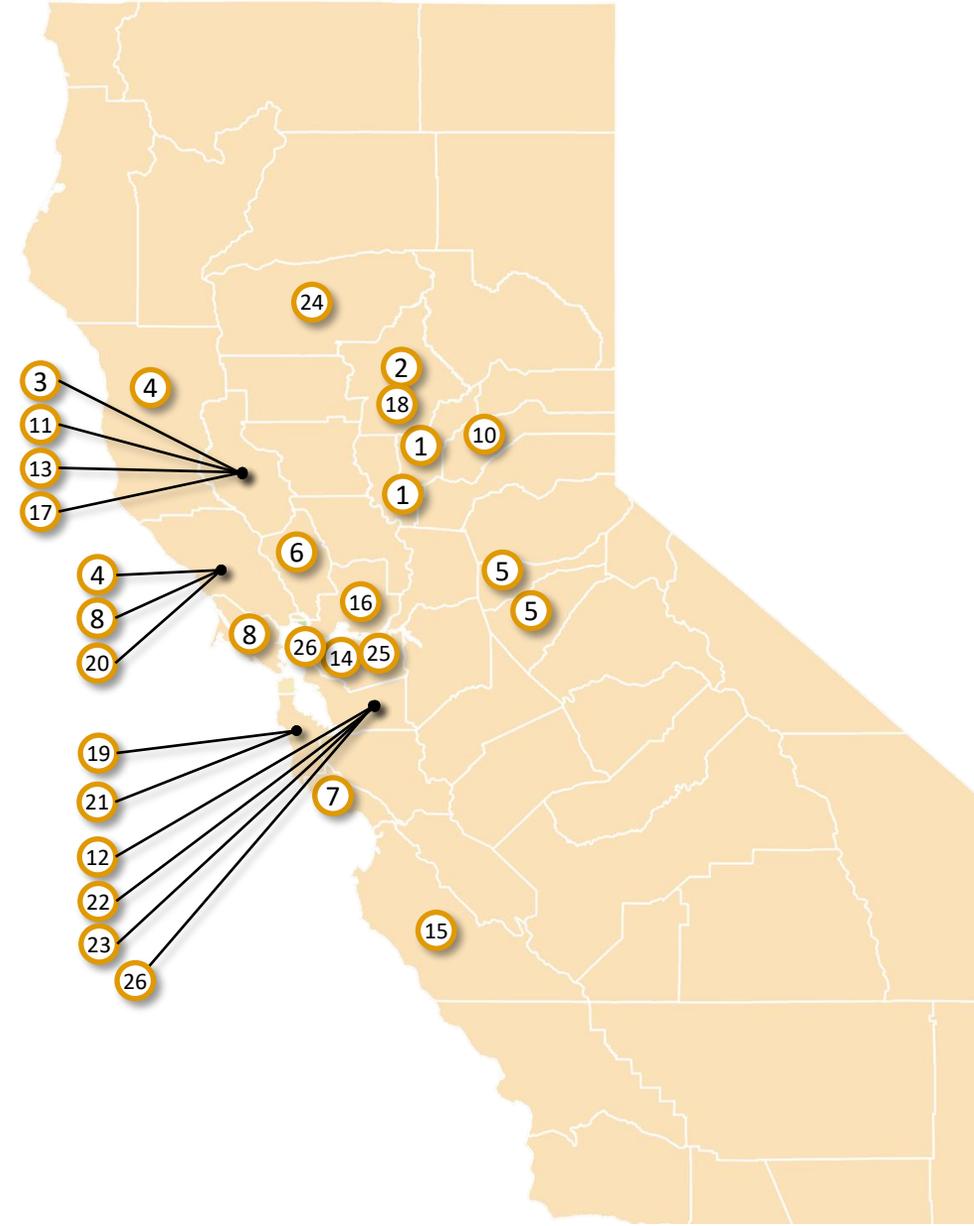
Meals on Wheels

Organization

1	Area Agency on Aging (Yuba Sutter Meals on Wheels)
2	Chico Meals on Wheels
3	Clearlake Senior Center
4	Coastal Seniors
5	Common Ground Senior Services
6	Community Action Agency of Napa Valley
7	Community Bridges
8	Council on Aging
9	Dignity Health Connected Living
10	Gold Country Community Services
11	Lakeport Senior Center
12	Life ElderCare
13	Liveoak Senior Center
14	Meals on Wheels Diablo Region
15	Meals on Wheels Monterey Peninsula
16	Meals on Wheels Solano County
17	Middletown Senior Center
18	Passages
19	Peninsula Volunteers
20	Petaluma People Services
21	Senior Coastsiders
22	Service Opportunity for Seniors
23	Spectrum Community Services
24	Tehama County Community Action Agency
25	West Contra Costa Meals on Wheels
26	J-Sei

Counties Served

Yuba, Sutter
Butte
Lake
Mendocino, Sonoma
Amador, Calaveras
Napa
Santa Cruz
Marin, Sonoma
Shasta
Nevada
Lake
Alameda
Lake
Contra Costa
Monterey
Solano
Lake
Butte
San Mateo
Sonoma
San Mateo
Alameda
Alameda
Tehama
Contra Costa
Alameda, Contra Costa



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



Status of Planned/Upcoming Resilience Efforts – Systemwide

Program	County	Site Name/Area	Status	Estimated Completion
Distribution Microgrids*	Butte	Magalia	Operational	N/A
	Calaveras	Arnold	Operational	N/A
	El Dorado	Georgetown	Operational	N/A
	El Dorado	Pollock Pines	Operational	N/A
	Humboldt	Redwood Coast Airport Microgrid*****	Operational	N/A
	Lake	Clearlake North	Construction Complete	Q2 2023
	Lake	Lucerne	Operational	N/A
	Lake	Middletown	Operational	N/A
	Napa	Angwin	Operational	N/A
	Napa	Calistoga	Operational	N/A
	Placer	Colfax	Operational	N/A
	Placer	Foresthill	Operational	N/A
	Shasta	Shingletown	Operational	N/A
	Tuolumne	Groveland	Operational	N/A
Islanding	Calaveras**	Salt Springs Island	Operational	N/A
	Calaveras***	West Point Island	Operational	N/A
	Humboldt	Humboldt Bay Island	Operational	N/A
	Plumas	Caribou Island	Operational	N/A
	Tehama	Red Bluff Island	Operational	N/A
	Tuolumne	Spring Gap	Operational	N/A

Local work plans are subject to change and data is based on the best available information at this time.

**Distribution microgrids are considered operational once temporary generation is available and energization plans are finalized.*

***Also serves portions of Amador and Alpine Counties.*

****Also serves portions of Amador County.*

*****Facility owned by Redwood Costa Energy Authority; PG&E owns, operates and maintains microgrid circuit*



Status of Planned/Upcoming Resilience Efforts – Systemwide

Program	County	Site Name/Area	Status	Estimated Completion
Remote Grids	Mariposa	Briceburg - Mariposa Remote 001	Operational	N/A
	Tehama	Corning Remote 0001 - 0002	Operational	Q4 2022
	Mariposa	Slaughter House	Under Construction	Q1 2023
	Mariposa	Miami Mountain	Under Construction	Q1 2023
	Madera	Melvin	Planning	Q4 2023
	Sonoma	Pepperwood	Planning	Q4 2023
	Tehama	Battle Creek	Planning	Q4 2023
	Tehama	Manton Wildcat	Planning	Q4 2023
	Tulare	Whitaker Forest	Planning	Q4 2023
	Tuolumne	Forebay	Planning	Q4 2023
	Lake	Anderson Springs	Planning	Q1 2024
	Shasta	Shingletown Wildcat	Planning	Q1 2024

Local work plans are subject to change and data is based on the best available information at this time.

**PG&E Gas and Electric
Advice Submittal List
General Order 96-B, Section IV**

AT&T
Albion Power Company

Alta Power Group, LLC
Anderson & Poole

Atlas ReFuel
BART

Barkovich & Yap, Inc.
Braun Blaising Smith Wynne, P.C.
California Cotton Ginners & Growers Assn
California Energy Commission

California Hub for Energy Efficiency
Financing

California Alternative Energy and
Advanced Transportation Financing
Authority
California Public Utilities Commission
Calpine

Cameron-Daniel, P.C.
Casner, Steve
Center for Biological Diversity

Chevron Pipeline and Power
City of Palo Alto

City of San Jose
Clean Power Research
Coast Economic Consulting
Commercial Energy
Crossborder Energy
Crown Road Energy, LLC
Davis Wright Tremaine LLP
Day Carter Murphy

Dept of General Services
Don Pickett & Associates, Inc.
Douglass & Liddell
Downey Brand LLP
Dish Wireless L.L.C.

East Bay Community Energy Ellison
Schneider & Harris LLP
Engineers and Scientists of California

GenOn Energy, Inc.
Green Power Institute
Hanna & Morton
ICF

iCommLaw
International Power Technology
Intertie

Intestate Gas Services, Inc.

Johnston, Kevin
Kelly Group
Ken Bohn Consulting
Keyes & Fox LLP
Leviton Manufacturing Co., Inc.

Los Angeles County Integrated
Waste Management Task Force
MRW & Associates
Manatt Phelps Phillips
Marin Energy Authority
McClintock IP
McKenzie & Associates

Modesto Irrigation District
NLine Energy, Inc.
NRG Solar

OnGrid Solar
Pacific Gas and Electric Company
Peninsula Clean Energy

Pioneer Community Energy

Public Advocates Office

Redwood Coast Energy Authority
Regulatory & Cogeneration Service, Inc.

Resource Innovations

SCD Energy Solutions
San Diego Gas & Electric Company

SPURR
San Francisco Water Power and Sewer
Sempra Utilities

Sierra Telephone Company, Inc.
Southern California Edison Company
Southern California Gas Company
Spark Energy
Sun Light & Power
Sunshine Design
Stoel Rives LLP

Tecogen, Inc.
TerraVerde Renewable Partners
Tiger Natural Gas, Inc.

TransCanada
Utility Cost Management
Utility Power Solutions
Water and Energy Consulting Wellhead
Electric Company
Western Manufactured Housing
Communities Association (WMA)
Yep Energy