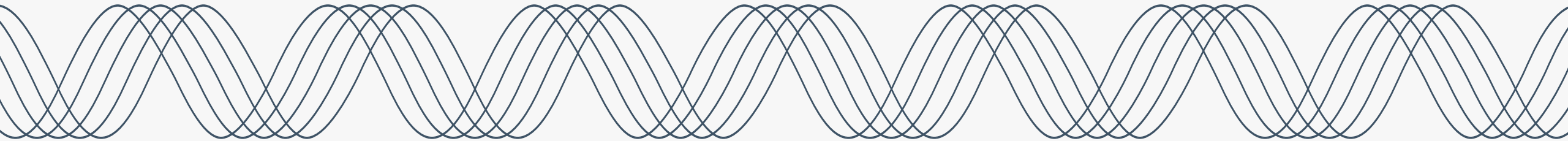




Portland General Electric Wildfire Mitigation Journey

Larry Bekkedahl | Senior Vice President Advanced Energy Delivery

May 8, 2023



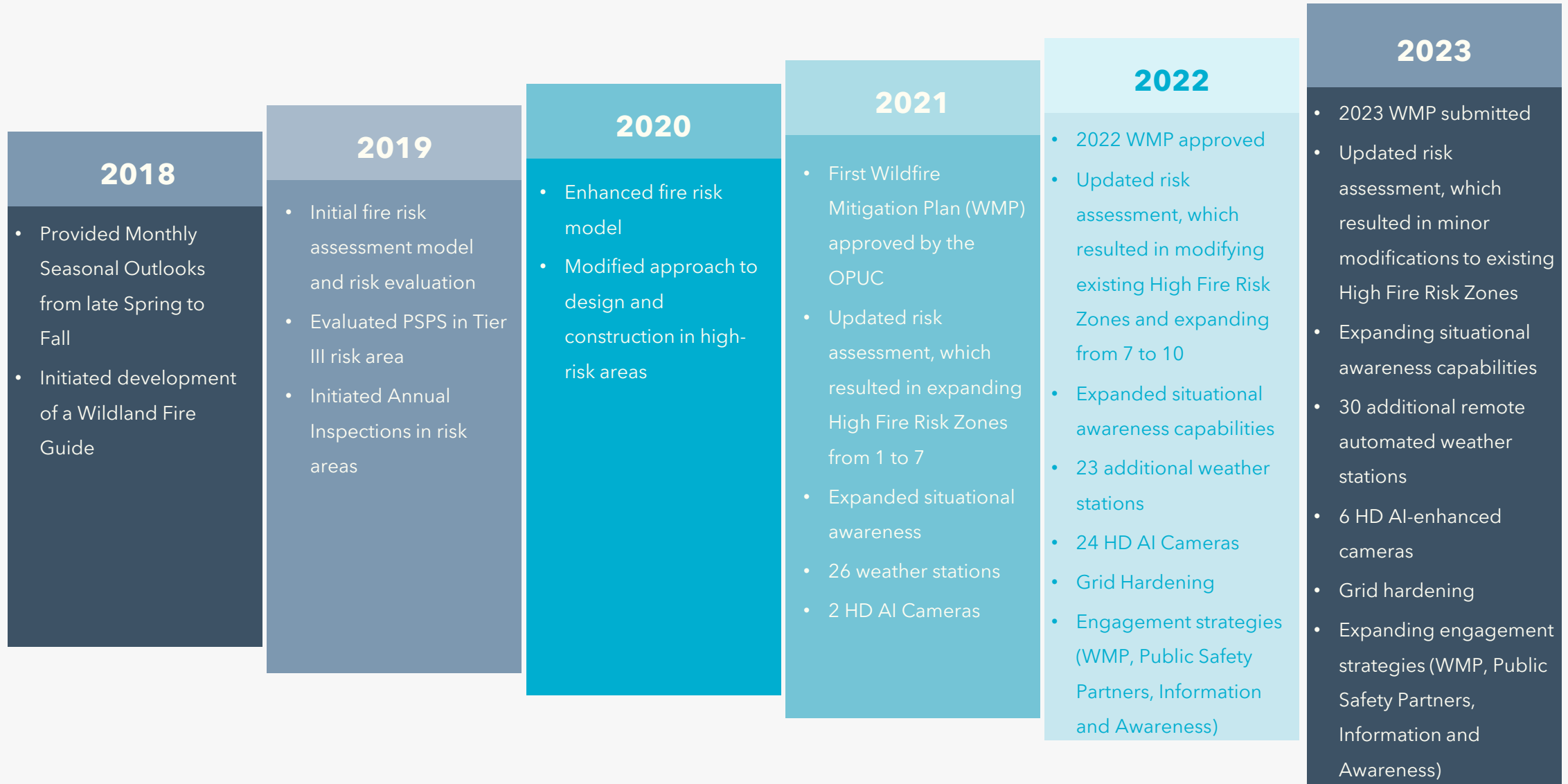
PGE at a glance

Quick facts

- Vertically integrated electric utility encompassing generation, transmission, and distribution
- Serving more than 900,000 retail customers within a service area of approximately 1.9 million residents
- Roughly half of Oregon's population lives within PGE service area, encompassing 51 incorporated cities
- Roughly two-thirds of Oregon's commercial and industrial activity occurs in PGE service area



PGE's Wildfire Mitigation Journey



Oregon's legislative and regulatory actions

Recognizing the rapidly increasing threat of wildfire due to climate change, Oregon has taken an all-hands on deck approach with several significant actions in the last four years to reduce wildfire risk throughout the state.

2019: Establishment of Governor's Wildfire Response Council tasked with reviewing Oregon's current model for wildfire prevention, preparedness and response. Work resulted in a recommendation report for action to improve the state's wildfire prevention and response.

2020: Governor Brown issues EO 20-04 which, among other things, directs the Oregon Public Utility Commission (OPUC) to evaluate utility risk-based wildfire protection plans consistent with the Wildfire Response Council's report.

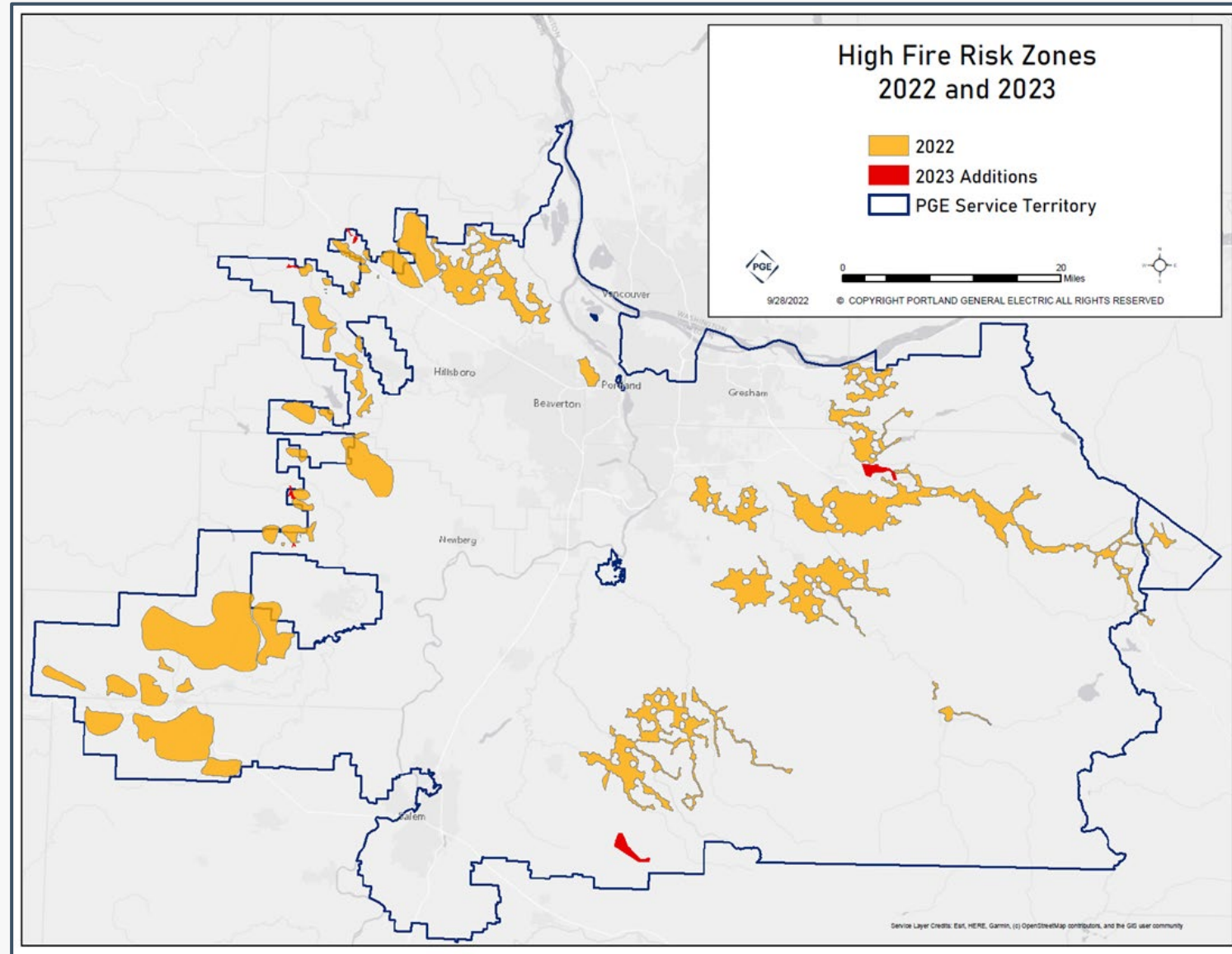
2021: Oregon Legislature passes SB 762, the state's comprehensive wildfire bill based on the recommendations of the Wildfire Council. The bill included direction to ten state agencies, including the OPUC. Electric utilities are required to submit risk-based wildfire mitigation plans to their governing body which includes wildfire risk analysis mapping and mitigation investments.

2022: OPUC completes rulemaking related to the implementation of SB 762.

Purpose of PGE's Wildfire Mitigation Plan (WMP)

- Prioritize public and employee safety
- Reduce the risk of wildfire ignitions from PGE assets
- Guide PGE's Fire Season operations
- Identify and prioritize wildfire system hardening and resiliency activities
- Communicate and collaborate effectively with Public Safety Partners, stakeholders, and customers
- Implement PSPS events with efficiency, when necessary, and with broad public awareness

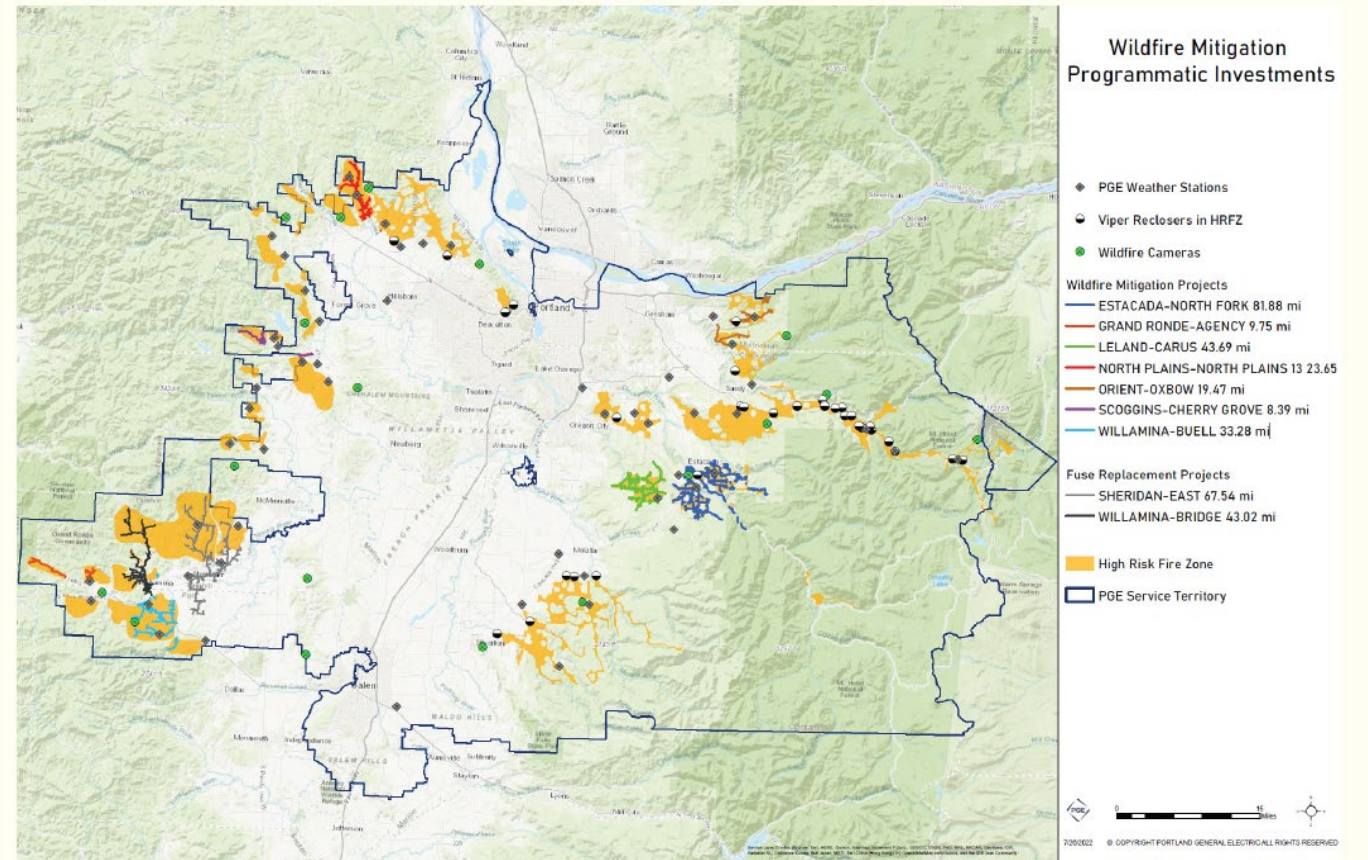
High Fire Risk Zones (2023)



Mitigation Efforts

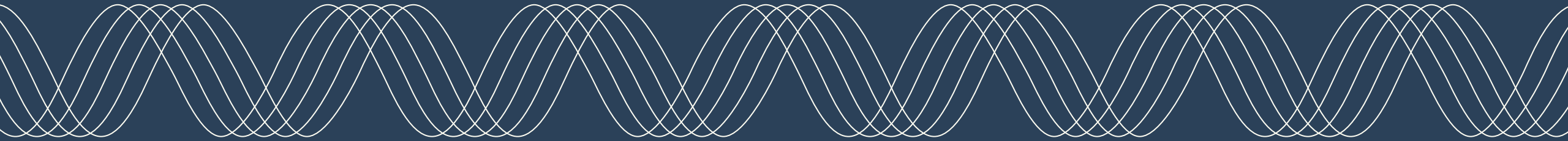
- Training
- Operational changes
- Inspections
- Vegetation Management
- Situational Awareness
 - Weather Stations
 - PANO AI Cameras
- Hardening Efforts
 - Reconductoring
 - Undergrounding
- Public Safety Power Shutoff (PSPS)
- Continuing to evaluate risk

Planned Projects

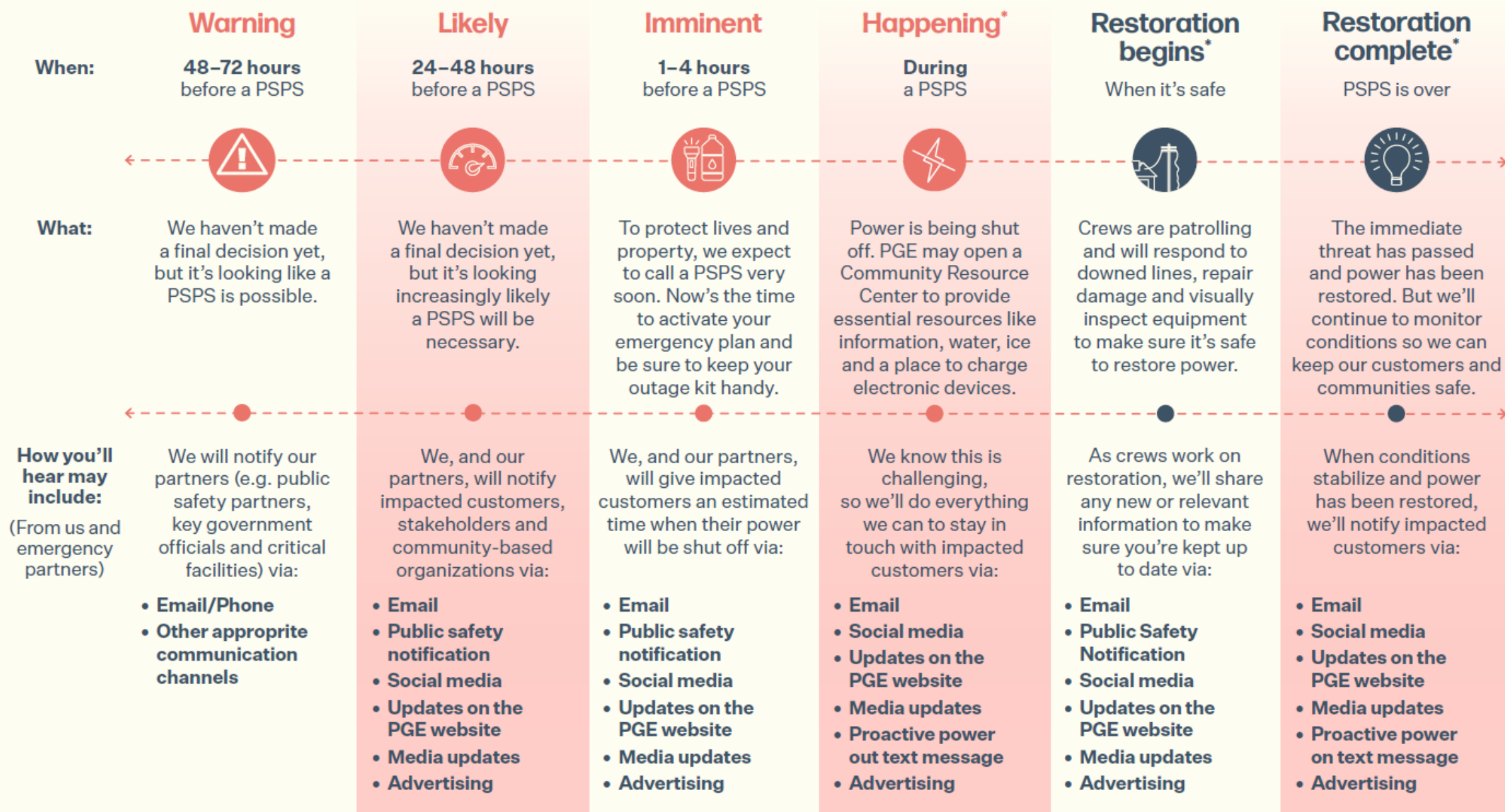


**Let's
meet the
future
together.**

Appendix



PSPS notifications to partners, customers and other stakeholders



*PGE will provide status updates at least every 24 hours

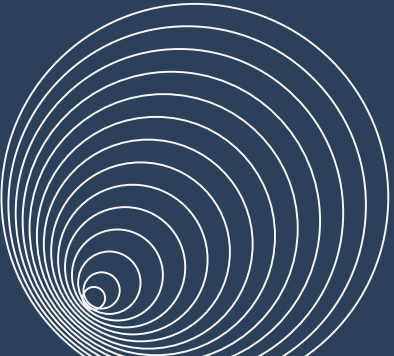
Proposed Project: Portable Battery Pilot

Budget: \$100,000

Objective: Increase resilience for
vulnerable customers affected by PSPS



- Small scale study to provide portable batteries to med cert customers affected by PSPS
 - Note: These are not grid tied batteries, which would be about 10x the cost to provide.
- PGE will study the procurement, distribution, and customer experience
- Initial intent is to provide backup for medical devices, but possible expansion could include devices for keeping medication cold
- Extensive research was conducted prior to proposing this pilot
 - In-depth interviews with adults living with disabilities, caregivers, and community service providers
 - Quantitative survey research of adults with disabilities and caregivers
 - Secondary research of peer utilities in California, interviews with battery manufacturers, and technical studies by EPRI



More than two dozen data sets are assessed to determine these areas

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