

# 2021 Wildfire Mitigation Plan Workshop

Public Safety Power Shutoff

February 23, 2021





# Agenda

**01**

**Public Safety Power Shutoff Event Overview**

**02**

**Evolving – Public Safety Power Shutoff Improvements**

**03**

**Listening and Learning – Feedback from Customers and Communities**

**04**

**2021 Key Focus Areas**



# PSPS Event Overview

	2018	2019	2020	2021	2020						2021	
					EVENT DETAILS	SEPT 7 – 10	SEPT 27 – 29	OCT 14 – 17	OCT 21 – 23	OCT 25 – 28	DEC 2 – 3	JAN 19 – 21
<b>NUMBER OF PSPS EVENTS</b>	1	9	6	1	CUSTOMERS IMPACTED	171,947	64,297	40,574	30,154	345,470	617	5,099
<b>AVERAGE NUMBER OF CUSTOMERS IMPACTED</b>	60,000	226,000	109,000	5,099	COUNTIES IN SCOPE	22	15	19	7	35	1	7
<b>LARGEST CUSTOMER IMPACT EVENT</b>	60,000	968,000	345,470	5,099	TRIBES IN SCOPE	8	0	1	2	14	0	0
<b>AVERAGE RESTORATION TIME</b>	15 HRS	17 HRS	10 HRS	62 HRS	COMMUNITY RESOURCE CENTERS OPEN	50	29	40	19	106	1	7+
					PEAK WIND GUSTS	66 MPH	72 MPH	73 MPH	56 MPH	89 MPH	72 MPH	83 MPH
					DAMAGE/HAZARDS	83	11	28	8	126	1	423
					CUSTOMER IMPACT REDUCTION VS. 2019 SCOPE	55%	61%	80%	47%	47%	19%	96%

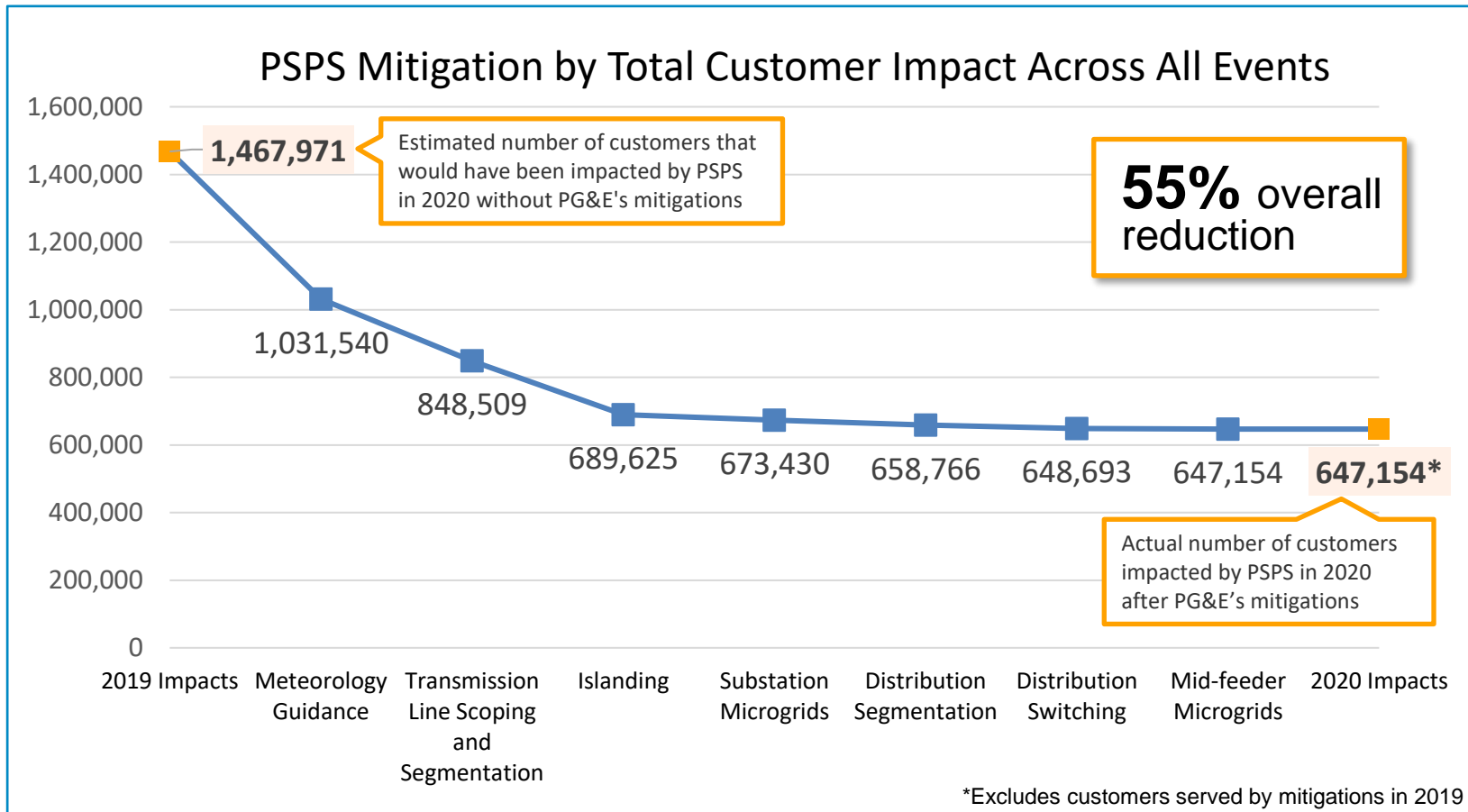
Data included in this slide is as of 02/08/21 and subject to change

†Does not include resource centers activated for wind event



# 2020 PSPS Events – Mitigation Impacts

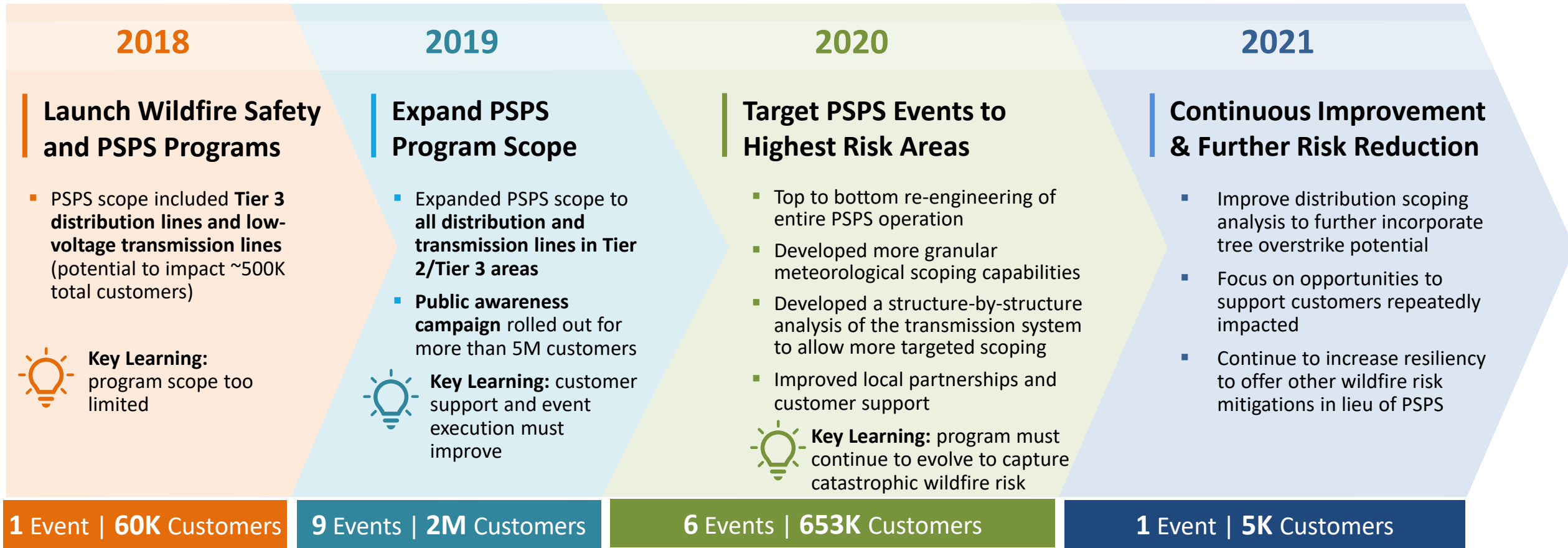
In 2020, PG&E significantly reduced the PSPS customer impacts through updates to our meteorology guidance, system upgrades, and operational improvements specifically designed to mitigate PSPS impacts on our customers.



Mitigation	Customer Reduction	Percent Impact
Meteorology Guidance	436,431	53%
Transmission Line Scoping and Segmentation	183,031	22%
Islanding	158,884	19%
Substation Microgrids	16,195	2%
Distribution Segmentation	14,664	2%
Distribution Switching	10,073	1%
Mid-feeder Microgrids	1,539	-

# Public Safety Power Shutoff Improvements

**We are continuing to improve our Public Safety Power Shutoff (PSPS) Program.** Improvements to the program have included enhanced operations, communication and coordination before, during and after PSPS events.



All numbers are approximate






# Feedback from 2020 PSPS Events

**Our customers and communities recognized the improvements we made this PSPS season. While our processes improved compared to last year, we must continue to do better.**

Customers	Agencies	Other Feedback
<p><b>What we've heard from our customers:</b></p> <ul style="list-style-type: none"><li>▪ They feel they are unjustly suffering the consequences of company's past actions</li><li>▪ They have experienced inaccurate or inconsistent information</li><li>▪ They want more accurate restoration times</li><li>▪ They lose time and money due to PSPS</li><li>▪ Medical Baseline customers want additional support and information</li></ul>	<p><b>What we've heard from our communities:</b></p> <ul style="list-style-type: none"><li>▪ Provide more consistent, timely and accurate info on the PSPS Portal and other channels</li><li>▪ Build on partnerships with CBOs and explore other resource offerings</li><li>▪ Continue engagement around Community Resource Centers, backup generation and microgrids</li><li>▪ Increase coordination with telecom providers</li></ul>	<p><b>What we've heard internally and from others:</b></p> <ul style="list-style-type: none"><li>▪ Improve and automate EOC processes to expedite PSPS coordination and communications</li><li>▪ Refine restoration process and communications</li><li>▪ Year-round extreme weather impacting EOC activation and field teams</li><li>▪ Additional consideration of vegetation risks in PSPS decision making</li></ul>

**We continue to evolve our wildfire safety and PSPS programs based on lessons learned, new data and feedback received from our customers and communities.**

 <b>Customer Preparedness and Support</b>	 <b>Agency/Tribal Outreach and Support</b>	 <b>Operational Improvements</b>
<ul style="list-style-type: none"> <li>▪ Enhance and expand CBO partnerships and improve in event coordination</li> <li>▪ Drive greater participation in battery programs to help vulnerable and frequently impacted customers</li> <li>▪ Further refinement of event notification content and timing</li> <li>▪ Refine Community Resource Centers</li> <li>▪ Continue to host webinars, open houses and safety town halls to gather feedback, share information and drive preparedness</li> </ul>	<ul style="list-style-type: none"> <li>▪ Continue to improve information sharing during an event (i.e. PSPS Portal, situation report etc.)</li> <li>▪ Conduct trainings and exercises to help public safety partners prepare</li> <li>▪ Ongoing engagement and coordination with cities, counties and tribes through Regional Working Groups, advisory committees, working sessions and direct outreach</li> <li>▪ Share information about local wildfire safety projects and temporary generation</li> </ul>	<ul style="list-style-type: none"> <li>▪ Ongoing systemwide improvements to reduce scope and duration</li> <li>▪ Continue to refine and improve PSPS decision-making, scoping process and tools</li> <li>▪ Enhance data quality, accuracy and reporting capabilities</li> <li>▪ Drive greater consistency in information sharing across all channels during an event</li> <li>▪ Additional training and support for EOC staff to ensure in-event readiness</li> <li>▪ Develop longer-term program plan and potential asset-based solutions</li> </ul>