



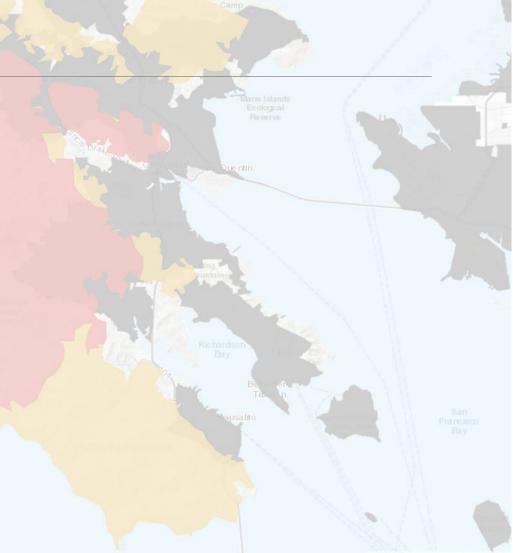


Public Safety Power Shutoff

SOUTHERN MARIN STAKEHOLDERS WORKSHOP MONDAY, JUNE 10, 2019

San Francisco Bay

- A. Welcome
- **B.** Introductions
- C. Understanding
- D. Assessment
- E. Mitigation
- F. Preparedness
- G. Next Steps



Introductions



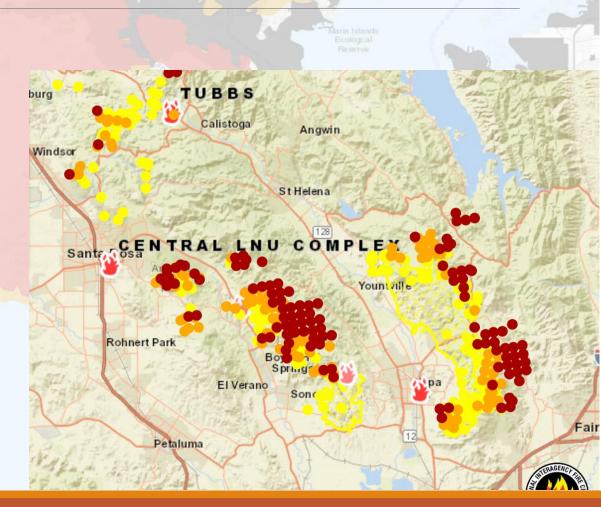
Understanding

- Public Safety Power Shutoff Plan
 - History of the Plan
 - Criteria for Implementation
 - > Tiers and Scope
 - Notifications
 - Outage Period
 - Complications

How many of these did you know?

Understanding: History of the Plan

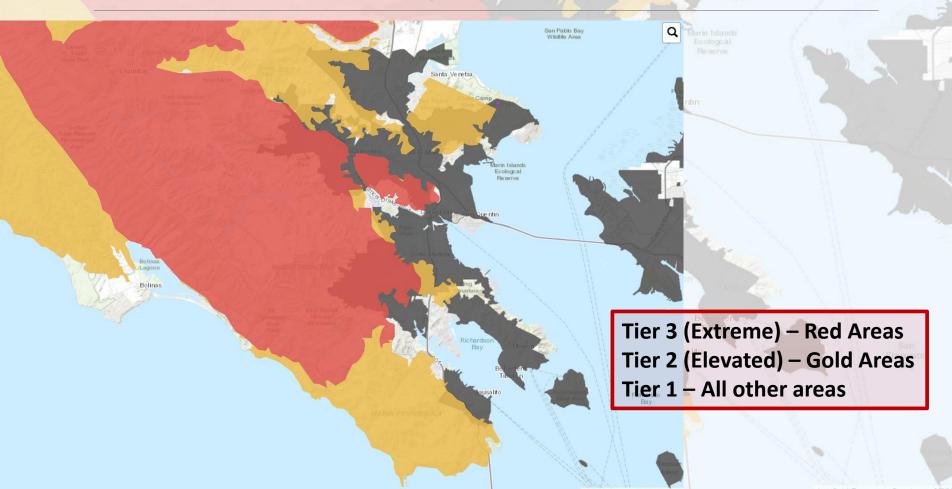
- A Response to the large fires of the recent past
- > Statewide effort
- An attempt to reduce the likelihood of PG&E caused fires
- Involves shutting off the power to selected neighborhoods



Understanding: Criteria for Implementation

- No Single Factor, but......
- Red Flag Warning: issued by the National Weather Service
- Low Humidity Levels: generally 20% and below
- High Winds: generally above 25 mph and gusts over 45 mph
- Moisture Content: condition of dry fuels and live vegetation
- ➤ **Ground Truth:** real-time observations by PG&E's Wildfire Safety Operations Center and field observations by PG&E crews

Understanding: Tiers and Scope



Understanding: Interactive Map

Marin Islands Ecological Raserve

Stentin

https://ia.cpuc.ca.gov/firemap/

Bolinas

San

Understanding: PG&E Notifications

Timing:

- > 48 Hours prior to shutoff
- > 24 hours prior to shutoff
- > Just prior to shutoff
- During the outage
- Upon restoration

Methods:

- Customer
 - > Phone
 - > Texts
 - > E-mails
- **Public**
 - Website
 - > Social Media
 - > Local News
 - Public Safety Partners

Understanding: Local Agency Notifications

- > Alert Marin
- > Nixle
- Media Releases
- Sign Boards
- > Social Media
- Local Partners

Goals:

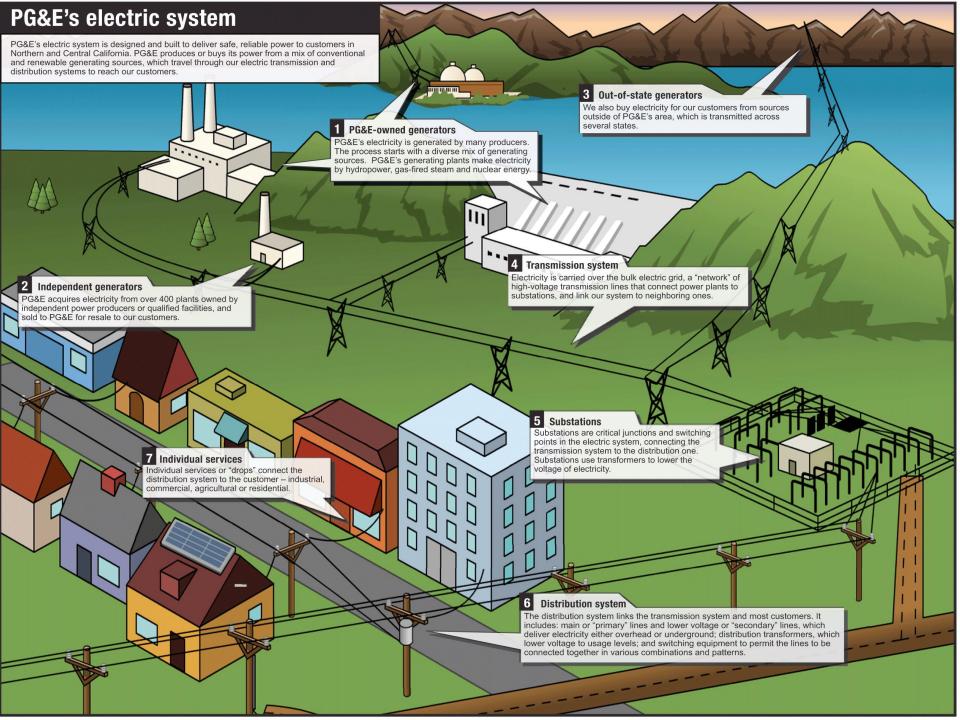
- Initial Alert: 48 hours prior (approx.)
- Second Alert: 24 hours prior (approx.)
- > Third Alert: Just prior to Shutoff
- Alerts during Shutoff
- Alerts at Restoration
- > Alert affected residents
- Describe local response and resources

Santa Venetia

- Outage Event Period based on weather criteria
- Restoration Period start depends on weather criteria and line inspection
- > ALL lines in affected area need to be visually inspected before re-energizing
- > Timelines:
 - Outage Event: Length depends on on-going weather conditions
 - Restoration: 2 to 4 days, estimated

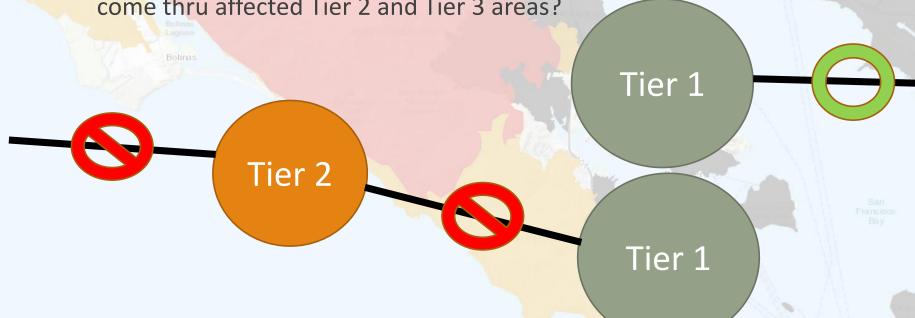
Total Shutoff Time = Event Period + Restoration Period

San Francisco Bay



Santa Venetia

- What if Severe Weather returns during the Restoration Period?
- > Shutoff includes Transmission and Distribution Lines
 - What if you are in a Tier 1 area but the power lines serving your area come thru affected Tier 2 and Tier 3 areas?



Assessment

How many of these will affect you?

- How does electricity support your operations?
 - Lighting
 - Cooling
 - Computers
 - Point of Sale
 - > Telephones
 - Refrigeration
 - Security Systems
 - Gas Pumps
 - > ATM's
- Community Impacts
 - > Traffic Lights
 - Cell Sites
 - Street Lights
- Other Thoughts?







Mitigation

- What can you do to prevent or minimize impacts?
 - Generators
 - Batteries
 - Solar, Wind/Water Turbine
 - Moving or Adjusting Operations

What do you have now?





Preparedness

- Develop a Plan
- > Test your Plan and Equipment
- > Train your Staff
- Coordinate with Partners and Vendors
- > Sign up for Alert Marin and Nixle

How many of these are you doing?

Preparedness: Develop a Plan



#	Task	Assigned	Due Date
1	Public Education		
1A	Develop Public Education Campaign	Tubbs/Welch/Pearce	06/15/19
1B	Conduct Public Education Campaign	Padilla/Chambers/Walsh/TFD	06/30/19
1C	Develop Media Release Templates for: Initial	Padilla/Chambers/Walsh/TFD	06/30/19
	Warning, Event Start, Event On-going, Event End		
2	Staff Education		
2A	Develop Staff Awareness Plan *	Peterson / TFD	06/15/19
2B	Conduct /Disseminate Staff Awareness Plan	M. Barnes	06/30/19
2C	Develop Continuity of Operations Plan	TBD	TBD
2D	Train Staff on continuity of Operations Plan	TBD	TBD
3	Resource Sites		
3A	Develop Resource Sites Description *	Hilliard / Rogers / TFD	06/30/19
3B	Identify Potential Resource Sites *	Hilliard / Rogers / TFD	06/30/19
3C	Identify Resource Site staffing *	Hilliard / Rogers/ TFD	06/30/19
3D	Identify/Acquire Resource Site resources *	Hilliard / Rogers / TFD	06/30/19
4	Plans		
4A	Develop Security/Safety Plan for affected	Fraass + MCSO / Piombo /	06/30/19
	neighborhoods *	TFD	
4B	Develop Public Warning Plan and Alternatives *	Fraass + MCSO/Piombo/TFD	TBD
4C	Develop AFN Assessment and Response Plan *	TBD	06/30/19
4D	Develop Transportation Plan and Identify	Local LE + DPW	06/30/19
	Resources *		
5	City / District Preparedness		
5A	Conduct City Generator Tests	Sausalito DPW/Mills/TFD	06/30/19
5B	Conduct District Generator Tests	Pasquale / TFD	06/30/19
5C	Verify City Refueling Process for Generators *	MCD? / Keith Mills / TFD	06/30/19
5D	Verify District Refueling Process for Generators *	Pasquale / TFD	06/30/19
5E	Verify City Gas Pump Power needs	MCD? / Keith Mills / TFD	06/30/19
5F	Verify District Gas Pump Power needs	Pasquale	06/30/19
5G	Identify Sources for Portable	Pasquale / TFD	06/30/19
	Generators/Contracts		
5H	Review/Update City Facility Prep - Food, Water,	Fraass / Sigmund / TFD	06/30/19
	etc.		
51	Review/Update District Facility Prep - Food,	Pasquale / TFD	06/30/19
	Water, etc. *		
5J	Develop EOC Action Plan *	McKinley / TFD	06/30/19
6	Operational Area Coordination		
6A	Marin OES for an Op Area Meeting (05/09/19	M. Barnes	06/30/19
	1000-1200)		
6B	Coordinate JIC/JIS with Op Area	M. Barnes	06/30/19
7	Southern Marin Area Coordination		
7A	Identify Area Partners	Tubbs/Welch/Pearce	06/15/19
7B	Conduct Area Workshop	Jeffries/Tubbs/Welch/Pearce	06/24/19
8	Public Safety Power Shutoff Playbook		
8A	Develop Draft *	Peterson	07/15/19
8B	Approved Final Version *	Tubbs / Welch / Pearce	08/01/19

Preparedness: Develop a Plan

- Playbook Example
 - Explain: Describe the threat and expected impacts
 - Develop your Plays: #1 Notified, #2 Event Start, #3 Restoration
 - Contact Information: Public Safety, Vendors, Partners, Public Warning
 - Staff Education Plan
 - Customer/Client Education Plan
 - Resources: Generators, Other Power, Transportation

Play #1: Initial Notification thru 1 hour prior to event

Play #2: Event -1 to Event +12

Play #3: E + 12 to E + 24

Play #4: E + 24 to E + 48

Play #5: E + 48 to E + 96

Play #6: E + 96 plus

Play #7: Notification of Restoration thru Restoration

Play #8: Post Restoration

Preparedness: Test your Plan and Equipment

- > Start simple
 - Sit down with your staff and walk thru your plan, ask for feedback
 - Make adjustments
 - Walk thru it again, until the bugs are worked out
 - How long will batteries and UPS supplies work? Try it!
 - > Don't assume, test it!
 - If you have generators, how long can you run on a tank of fuel?
 - Where are you getting additional fuel?
 - ➢ If installing generators, consult with an electrician
 - If you think you have it all solved, try running your operations for a couple of hours with the electricity shutoff.
 - As you find issues, revise your plan

- Network with similar businesses
 - How can you support each other?
- > Are their opportunities with your neighbors?
- How will this affect your vendor relationships?
 - > Timing and frequency of deliveries
- ► Work these decisions into your plan

> Alert Marin:

- https://member.everbridge.net/index/453003085612554#/signup
- ➤ Call, Text, E-Mail and a Smart phone application to receive alerts
- Landline numbers are already included
- Cell, VOIP, Text and Email require free registration

Nixle:

- https://local.nixle.com/sausalito-police-department/ Or
- http://www.nixle.com/
- Select agencies you want to send you alerts
- Free registration, but you must register

Next Steps

- Get AMP'd
 - **A**ssessment
 - Mitigation
 - Preparedness
- Email group for attendees with updates
- > Other ideas?









Closing Comments

THANK YOU FOR JOINING US