## Public Safety Power Shutoff (PSPS), Health, and Emergency Management



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# Wildfire Safety Strategy –

## Public Safety Power Shutoff (PSPS) Program

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## Inputs and criteria for considering a PSPS

- Fire weather (NWS Red Flag Warning, Fire Weather Watch, High Wind Warning with low humidity, field observations and data) triggers Hawaiian Electric Incident Management Team to stand up to evaluate conditions to determine whether to call a PSPS
- 3 primary criteria for declaring PSPS



#### Important to know

- NWS Red Flag Warning DOES NOT automatically trigger PSPS
- Red Flag Warnings have been issued in only 4 of the past 10 years
- Wind gusts above 45 mph are extremely rare in summer months



#### What happens before, during and after Public Safety Power Shutoff

	PSPS Alert	Happening	Restoration begins	Restoration complete
WHEN:	24–48 hours before a possible PSPS	During a PSPS	When it's safe	PSPS is over
WHAT:	Weather data, including statements from the National Weather Service, indicate conditions for heightened wildfire risk, and we are considering a PSPS. We'll do our best to provide advance notice, but if conditions are suddenly hazardous we may have to shut off your power with little or no notice. Activate your emergency plan, keep your home survival kit handy and pay attention to notifications from Hawaiian Electric and its emergency partners.	Power is shut off only in high wildfire risk areas for the safety of the community. We'll do everything we can to provide regular updates across multiple media platforms during the event.	Once the fire weather threat has ended, crews will begin patrolling, looking for downed lines and other hazardous conditions. Crews will restore power once it's safe, which may take hours or even days depending on the location and extent of damage.	The immediate threat has passed and power has been restored. But we'll continue to monitor conditions so we can keep our customers and communities safe.
HOW YOU MAY HEAR FROM US:	Email, Text, Hawaiian Electric Mobile App Hawaiian Electric Website, News Media (	o, Public Safety Notific TV, radio, websites)	ation, Social Media,	

#### What happens during a PSPS event



1. Actual timeline dependent on severity of factors.

2. In this phase, we communicate status to all customers prior to the outage as necessary. Immediately before power is shut off, customer notifications may not be sent due to the nature of the event. Status updates will be provided afterwards.

3. In this phase Hawaiian Electric will provide status updates to customers at least every 12 hours (if available).

## **PSPS Website and Mobile App Launched**

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#### Emergency Preparedness

Be prepared Be informed







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## Learn how to prepare for a Public Safety Power Shutoff







- If you have a refrigerator/freezer, take all necessary measures to protect any perishable items. Check the seals on appliance doors to ensure they are well insulated.
- Ensure that any Hawaiian Electric equipment at your premise (e.g., transformers, switchgear, etc.) has level and unobstructed access. A minimum of 10 feet circumference clearance is required to ensure safety.
- Learn to manually open any electric security gates and garage doors (e.g., check openers for manual-release operation).
   To ensure that you receive timely notification and information about
- a potential PSPS outage, confirm your contact information via your online account at hawaiianelectric.com.

hawallanelectric.com/PSPS



- If you use a motorized wheelchair or scooter, have a lightweight manual
- wheelchair available for emergency use
- If you use a generator as a backup power source, follow all of the manufacturer's instructions to operate your generator safely

hawallanelectric.com/psp





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Scan

code

#### HAWAIIANELECTRIC.COM/PSPS







**Confidential – Contains Confidential Commercial and Proprietary Information** 



#### Perfect Storm

Wind, West Maui Mountains, Power Lines, Multiple Fires





Wind, Power Lines, Multiple Fires



Amplitude of Motion







#### Timeline: Rapid but Centuries

#### 8/8/23: Fire

Very Rapid but also Centuries in making

2023: Drought
2000: Sugar Passes
1960's: Birth of Hotel
1900's: Sugar is King
1860: Transition of Kings
1800's: Whaling is King
1831 Lahainaluna High
1800: Kamehameha is King

Lahaina Sugar closes after 140 years West Maui Hotels, Water Sugar > 8000 acres above Lahaina by 1910 King Sugar Dethrones King Whaling 1820's Lahaina Whaling Capital of Pacific. Oldest HS west of Mississippi Lahaina capitol of Kingdom of Hawaii





For context 1860's Civil war and President Lincoln in office.

Rich History of Lahaina runs deep for centuries including pre western contact. Cultural and Historical losses.

### **Maui Fires**







## Lessons Learned: Housing











## Lessons Learned: Housing

- Thousands of displaced individuals
  - Children: 25 33 % depending on survey
  - Ethnicity: Minority is majority
- Displaced Individuals

80 %	Renter
20 %	Homeowner

ARC survey of displaced individuals



## **Lessons Learned: Housing**

#### Priced Out of Paradise

- Timeline:Longer then expected
- 5 Years Later: Paradise 1/3 pre fire pop
- Cost to Rebuild: Higher than expected

Paradise CA	<u>2018</u>	<u>2023</u>
Median home price	\$ 236 K	\$440 K
Homeowners insurance	\$1.2 K/yr	\$10 K/yr

### PARADISE RISING

The town's population plummeted 83% after the 2018 Camp Fire, but it has been growing since. There is optimism that the town will reach 10,000 residents by next year.

#### Annual population estimates



Lahaina Displaced Residents: 80 % renters, 20 % homeowners More than 1500 families left Maui since fire. Majority from outside of Lahaina.



















www.youtube.com/watch?v=bUynrGy2nyM

## Persons with Disabilities - Emergency Preparedness



- There is no absolute definition of the population of individuals with disabilities or special needs and therefore no homogenous population of persons with disabilities. However, most demographic studies estimate around 20 percent have a disability which would equal 291,000 Hawaii residents. About 100,000 residents have a disability parking permit, which is issued to someone with a mobility disability. For purposes of todays discussion, a few types of disabilities come to mind: (1) People who use electronic medical devices (2) People who take medication which needs to be refrigerated (3) People with mobility challenges, which may include use of electric mobility devices, (4) People on dialysis.
- Although the circumstances of individuals with disabilities or special health needs may be different from the general population at-large, with the assumption that their needs are 'greater,' the means to address those needs must be integrated into the overall, general plans for emergency readiness and evacuation for the general population.

## **Communication Access**



•Public Education efforts such as encouraging people to develop a sheltering in place/ evacuation plan, and specific documents like the Power Shut off Plan need to be available in accessible formats. These need to be communicated to the person with the disability and/or caregivers/family members.

•Emergency alerts and updates – must be in accessible formats and pushed out concurrently.

•Common concerns –is accurate captioning provided, are captions inadvertently overlayed with scrolls or crawls, are emergency alerts compatible with screen readers, are online documents accessible, are ASL interpreters provided for briefings? Any information that is provided visually should be accompanied by an audio description.

## Loss of Electrical Power



- People who use electronic medical devices.
  - (1) Important to keep devices charged, ideally will have a back up source of power (extra battery, generator, etc.)
  - (2) If no back up power source, it may be advisable to preemptively evacuate to a location which does, including a shelter if open.
- People who use mobility aid devices.
  - (1) Important to keep devices charged, ideally will have a back up source of power (extra battery, generator, etc.)
  - (2) People that live in a unit accessed via an elevator need to factor that into their plans. May be advisable to preemptively evacuate to a grade level location or shelter if open. Even if they are capable of walking down the stairs, they would have to leave their mobility aid device behind.
  - (3) Are they able to use and have a non-electrical device (manual wheelchair, walker, etc.)

## Loss of Electrical Power



- People who need to keep medicine refrigerated.
  - (1) Ideally will have a back up source of power (extra battery, generator, etc.)
  - (2) If no back up power source, it may be advisable to preemptively evacuate to a location which has backup power, including a shelter if open.
  - (3) If a life depends on the refrigerated drug, but the medications have been at room temperature, use them only until a new supply is available.
- People who need dialysis.

(1) Some people have a home dialysis machine. This can be run using a back up

power source or in some cases, operated manually.

(2) Important to communicate with the dialysis center.

(3) Following an emergency diet can help reduce water and waste build up in the body.

## **PSPS – Special Medical Needs Customers**

#### PUBLIC SAFETY POWER SHUTOFF AND SPECIAL MEDICAL NEEDS CUSTOMERS

In the interest of safety, Hawaiian Electric may need to turn off power as a last line of defense to communities served by electric lines that are vulnerable to wildfires during high-risk weather conditions of warm temperatures, low humidity and strong winds. This is called a **Public Safety Power Shutoff**.



During a PSPS, **ALL** customers serviced by an affected power line will have their power shut off. This includes Special Medical Needs customers. The duration of a PSPS will depend on the duration of extreme weather conditions, which could last hours or even days.



For customers who are on life support and have medical needs, please provide us with your contact information to receive notifications in advance of a PSPS by submitting an online Medical Needs Communications Form at *hawaiianelectric.com/medicalneedsalerts*, or by calling 808-548-7311.



Though weather conditions can change quickly, Hawaiian Electric will aim to provide advance notifications for potentially affected customers beginning 48 hours before the power is turned off. In the future, additional outreach to Special Medical Needs customers may include extra phone calls or a door knock to ensure that you are aware that a PSPS is going to occur so you can make the necessary preparations to stay safe.

To learn more about the Public Safety Power Shutoff, visit hawaiianelectric.com/psps



### **Emergency Power Planning Checklist** (ADA National Network)

Date Complete	Does not Apply	Item	
		Planning Basics	
		Create a plan for alternative sources of power.	
		Read equipment instructions and talk to equipment suppliers about your backup power options.	
		Get advice from your power company regarding type of backup power you plan to use.	
		Regularly check backup or alternative power equipment to ensure it will work during an emergency.	
		Teach your neighbors and caregivers how to use your backup systems and operate your equipment.	
		Keep a list of alternate power providers.	
		<ul> <li>Ask your nearby police and fire departments and hospital if you could use them as a backup for your equipment power if your backup systems fail.</li> </ul>	
		Label all equipment with your name, address, and phone number. Attach simple and clear instruction cards to equipment and cover them with clear packing or mailing tape.	
		Keep copies of instructions for each piece of equipment, along with serial and model numbers, in a waterproof container or in your emergency supply kits.	
		Life-Support Device Users	
		Contact your power and water companies about your needs for life- support devices (home dialysis, suction breathing machines, etc.) in advance of a disaster.	
		<ul> <li>Many utility companies keep a "priority reconnection service" list and map of the locations of power- dependent customers for use in an emergency. Ask the customer service department of your utility companies if this service is available. Note that even if you are on the "priority reconnection service" list, your power could still be out for many days following a disaster. It is vital that you have power backup options for your equipment.*</li> </ul>	
		Let your fire department know that you are dependent on life-support devices.	
		All ventilator users should keep a resuscitation bag handy. The bag delivers air through a mask when squeezed.	
		If you receive dialysis or other medical treatments, ask your health care provider for the plans in an emergency and where you should go for treatment if your usual clinic is not available after an emergency.	
data.org		2	

### DCAB Emergency Preparedness Resource Page https://health.hawaii.gov/dcab/emergency/

Department of Health	Search	Q
<b>Disability and Communication Access E</b> Ka 'Oihana Olakino	oard	
Home Disability Parking Permits Misuse of Disability Parking Permits Accessible	Parking Space Inquiries Facility Acce	ess
Communication Access ADA Coordination Service and Assistance Animals Comm	unity Resources Employment Abo	out Us
Home » Emergency Preparedness		
EMERGENCY PREPAREDNESS	UPCOMING EVENTS	
Emergancy preparedness is one of the major focus of activity for DCAP's Planning and ADA	No events scheduled	
Coordination Unit. Recent events with Hurricanes and Kilauea volcanic eruptions have		
shown that government response systems and plans inadequately address the needs of persons with disabilities. Hawaii Emergency Management Agency, formally the Hawaii State	CHECK OUT OUR EMERGEN	VCY
Civil Defense, the DCAB, and the State Department of Health convened a workgroup to de-	PREPAREDNESS E-NEWS!	
velop a plan to address emergency preparedness for people with disabilities in the State of Hawaii. The workgroup, comprised of State, county and private agencies, developed the "2009 Interagency Action Plan for Emergency Preparedness of Persons with Disabilities and	Sign-up for Emergency Prepare Access E-News	redne

Special Needs." This plan is a starting point and addresses the defined targeted population with a focus on sheltering. Emergency preparedness information for persons with disabili-

Shelter In Place video

Get Ready: Ho'omakaukau video

ties is available at the links below.

Hawaii Resources

- <u>State of Hawaii: 2009 Interagency Action Plan on Emergency Preparedness for</u> Persons with Disabilities
- Emergency Planning for People with Disabilities: 2008 Agency Readiness Survey <u>Report</u>
- October Forums Report
- Hawaii Emergency Management Agency
- American Red Cross, Hawaii Chapter, Information for People with Disabilities
- Hawaii Disability Rights Center Emergency Preparedness

#### LOOKING FOR HELP?

We are here to help guide you through better accessibility! Contact us if you do not find your information here.

Emergency Preparedness Access E-**Newsletter Archive**