



Climate Adaptation Transmission and Distribution Resilience Program



Hawaiian Electric is building greater resilience into its power systems so they can better withstand severe events, including weather-related disasters fueled by climate change, and enable faster recovery. To do this, Hawaiian Electric is seeking approval from regulators to invest about \$190 million over five years as an initial phase of foundational grid resilience enhancements.

If approved, the Climate Adaptation Transmission and Distribution Resilience Program would increase the typical monthly residential bill for a household using 500 kilowatt-hours by an estimated 33 cents on O‘ahu, 71 cents in Maui County and 86 cents on Hawai‘i Island. Among the highlights of the resilience filing made to the Public Utilities Commission:

- ◆ Extreme weather hazards are projected to increase in frequency, intensity and duration due to climate change. Failure to prepare for such events could result in power interruptions, damage to electricity infrastructure, significant economic disruption, and disruption to critical government and private sector services.
- ◆ Hawaiian Electric’s investments will create a more resilient power system that will reduce the severity of damage when major events happen and allow service to be restored to customers more quickly.
- ◆ The investments are targeted to address the highest-value projects that will focus on the biggest vulnerabilities in the most cost-effective way.

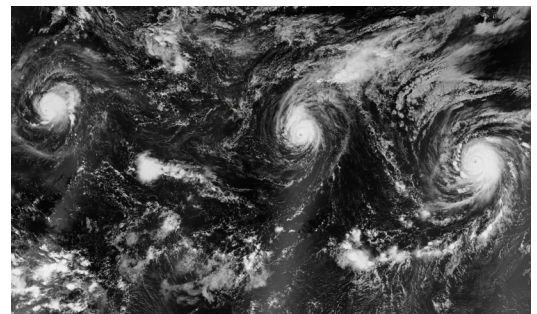


Photo credit: <https://earthobservatory.nasa.gov>



Energy is a lifeline to other community lifelines



Among the specific projects proposed by Hawaiian Electric:



Strengthen the most critical transmission lines to withstand extreme winds. This will help to reduce customer interruptions and the amount of time customers are without power when storms or hurricanes strike.



Bolster distribution lines serving critical community lifeline facilities such as hospitals, military facilities, communications infrastructure, water and wastewater facilities, and emergency response facilities.



Harden targeted utility poles in order to reduce restoration times after a severe event. From 2023 to 2027, Hawaiian Electric plans to harden 500 critical poles on O‘ahu, 400 critical poles on Hawai‘i Island and 300 critical poles in Maui County.



Remove especially hazardous trees so they don’t fall onto lines in a severe event. This proposed hazard tree removal program would augment existing vegetation management efforts.



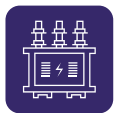
Strengthen lines and deploy devices to help prevent and respond to wildfires.



Install equipment in potentially vulnerable substations to reduce flood impacts.



Move selected lines underground on O‘ahu in areas prone to damage from vegetation.



Install distribution feeder ties at isolated substations on Maui that will allow power to be restored more quickly in the event of an outage.