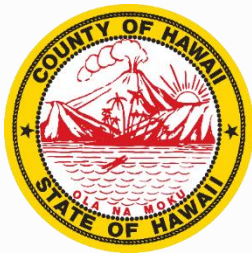


County of Hawai'i: Climate Change and Resilience Actions

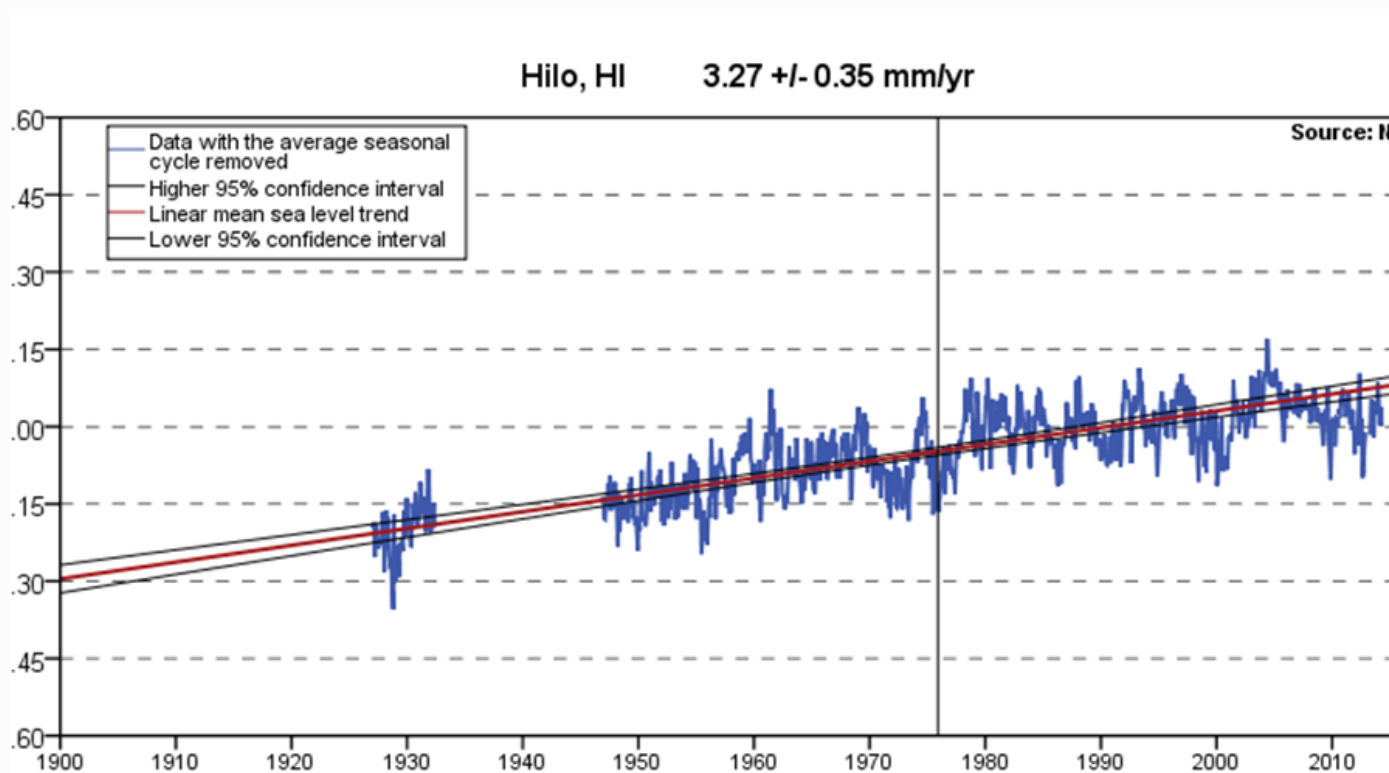


April 24, 2019

April J. Surprenant
Manager of Long Range Planning
County of Hawaii Planning Dept.
808-961-8131
April.Surprenant@hawaiicounty.gov

Climate Change Impacts

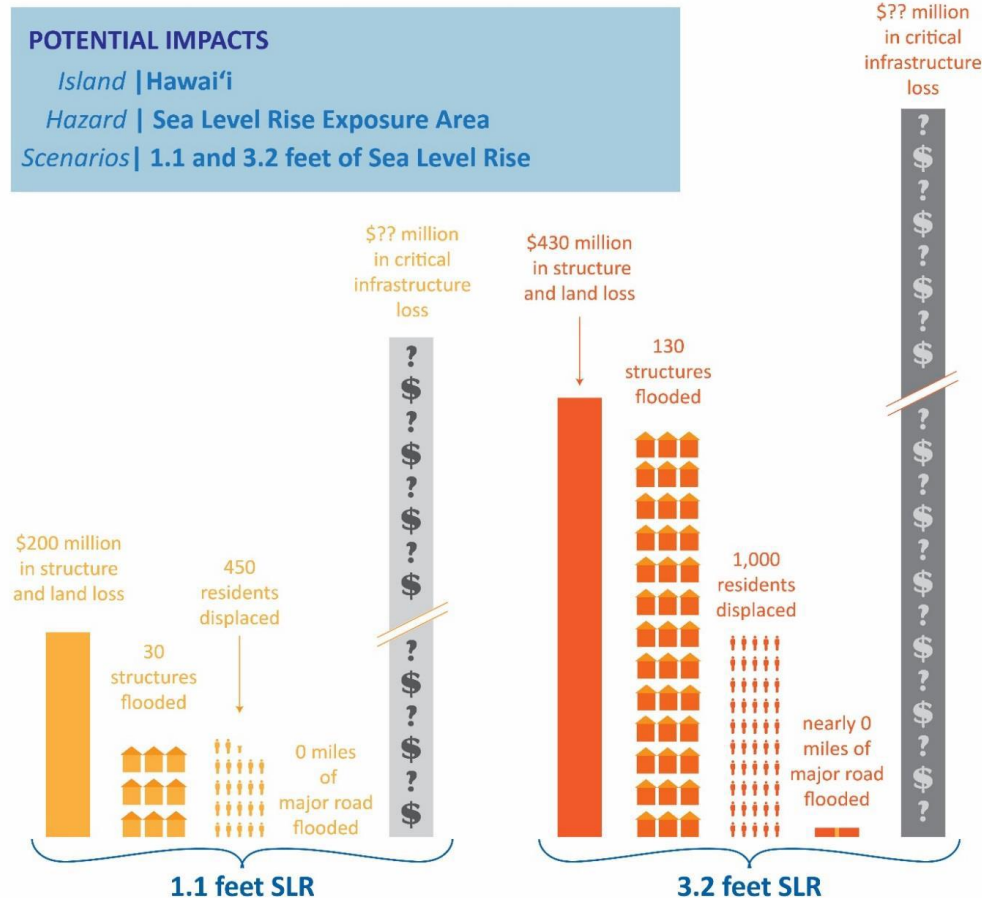
According to tide gauges at Hilo Harbor and Kawaihae Harbor, local, relative sea-level has risen at about 3.27 mm/yr (1.4 in/decade) over the past century due to a combination of island subsidence and regional SLR.



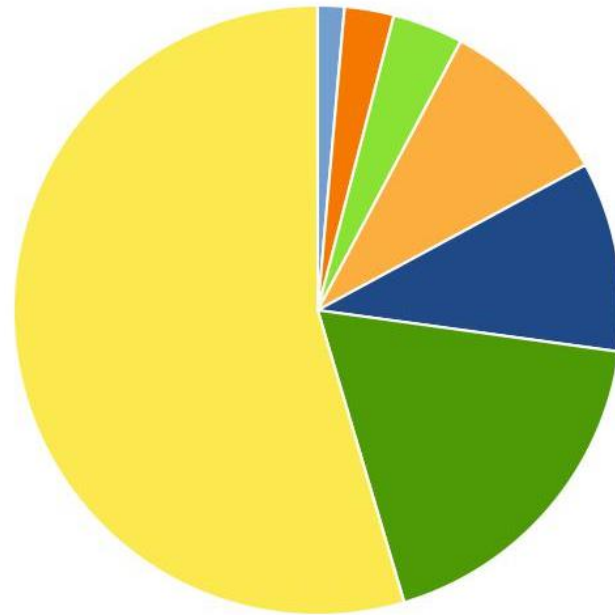
Climate Change Impacts

Hawaii County will lose \$430 million in infrastructure and land loss (not including public facilities), in part because 20% of the areas forecasted to be inundated are urban.

Source: Hawai'i Sea Level Rise Vulnerability & Adaptation Report, 2017



Where We stand on GHG



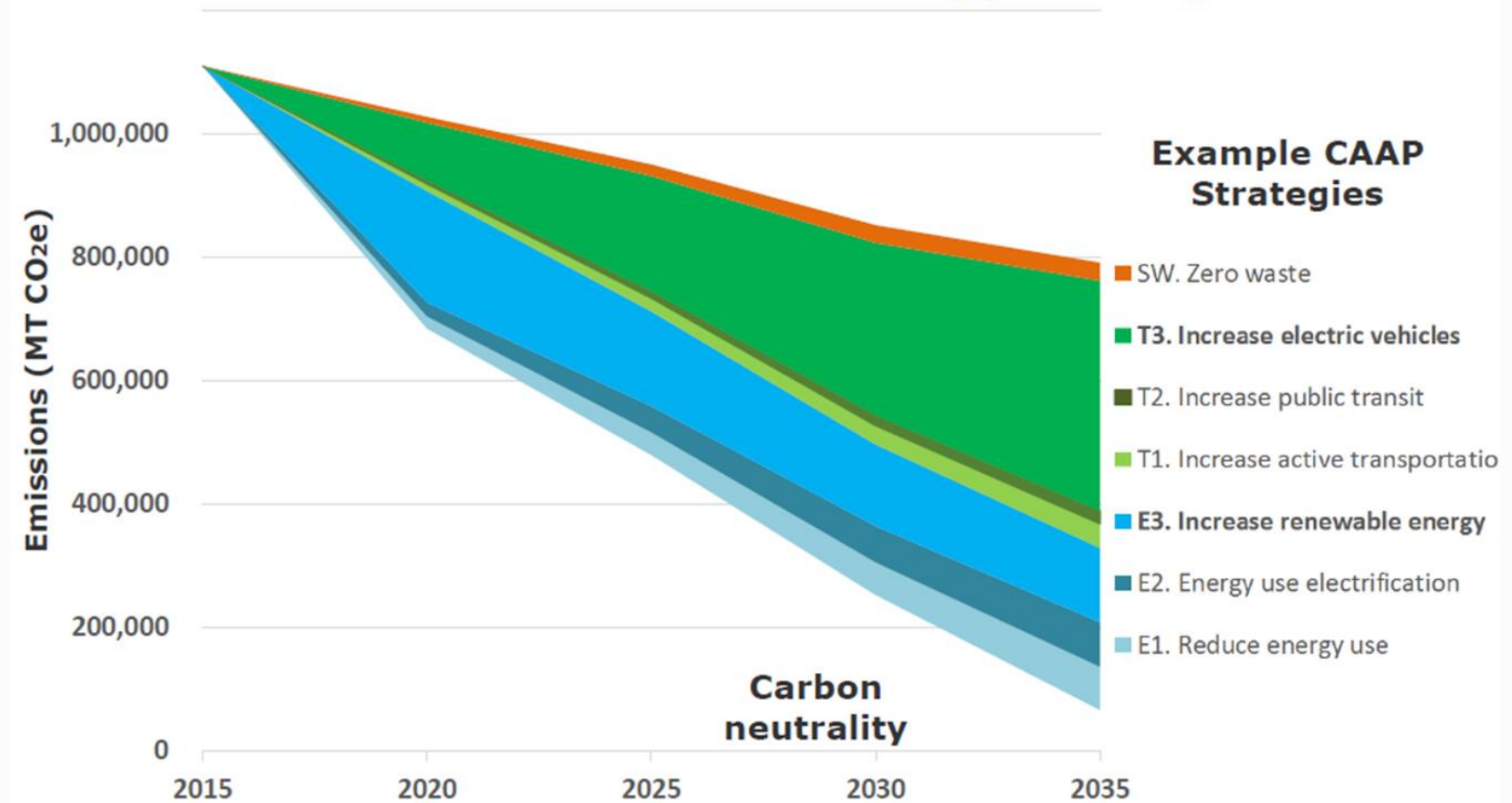
● Industrial Energy ● Water & Wastewater ● Agriculture ● Solid Waste
● Residential Energy ● Commercial Energy ● Transportation & Mobile Sources

County of Hawai'i 2015 GHG Inventory

Work thru Existing Systems

Pathways to Carbon Neutrality

Electrification & Renewable Energy as Key Drivers



Work thru Existing Systems



Current Initiatives

- Public Works: Energy Code
- Water Supply: Energy Program
- Mass Transit: pilot Zero Emission Buses (ZEBs)
- Research & Development
 - Greenhouse gas (GHG) inventory, targets, & monitoring
 - Climate Action Plan (to mitigate GHG emissions)
 - Energy Efficiency & Production Projects: LED, WHCC
 - Hawai'i Energy: Continuous Efficiency Improvement (CEI)
 - Public Utilities Commission (PUC): Integrated Grid Planning, Electrification of Transportation, and Performance-Based Ratemaking
 - State Greenhouse Gas Sequestration Task Force

Current Initiatives

- **General Plan Comprehensive Update**
 - Identified high risk hazard areas & minimize develop
 - Address CC in all planning programs and capital projects.
- **Kilauea Recovery Efforts**
 - Create a model to address future response to recovery events
- **Shoreline Setback Policy Amendments**
 - Science-based analysis, including SLR
- **Community Planning & Regional Development Plans**
- **Hazard Mitigation Plan Update – 2020**
 - Include CC impacts with pre-disaster and post-disaster planning

Resources

Energy Building Codes:

<https://energy.hawaii.gov/hawaii-energy-building-code>

Water Supply 2015 Energy Evaluation:

<https://www.hawaiidws.org/wp-content/uploads/2018/06/Hawaii-Final-Report-final-8-14-2015rev.pdf>.

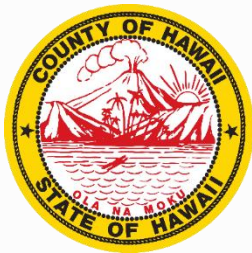
Transit CityLab article:

<https://www.citylab.com/transportation/2019/04/renewable-energy-public-transportation-hydrogen-fuel-cell-ev/586960/>

Climate Action Plan using ClearPath:

<http://iclei.usa.org/clearpath/>

Mahalo



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