Hotter days

- Temps in HI have increased 2.5 degrees F between 1950-1980.
Climate Change in Hawaii: What’s happening now

Precipitation Changes

Drier overall
Sea Level Rise

- > 1m likely in second half of century
- 0.38m – 3.31m by 2100
- 1.23m by 2060 in extreme scenario
High tide flooding

Since 1960s, increased from 6 days/year to 11.
Hawaii has a lot of goals

Hawaii’s Climate Change and Clean Energy Goals

- Carbon Neutrality: HR2182 sets target (2018)
- Renewable Portfolio Standards Goal: 100% renewable power consumption by 2045
- Paris Agreement: Sets global climate change goals (2016)
- Act 32: Hawaii affirms its commitment to Paris Agreement standards (2017)
- Net Zero Energy Use Goal: Dept. of Education and UH system will produce as much energy as they consume by 2035

- 2015: 15% Renewable Portfolio Standards: Established renewable power targets (2001)
- 2020: 30% Greenhouse Gas Program Goal: Achieve 1990 emissions levels (14.43 million metric tons CO₂-e) statewide by 2020
- 2025: 40% Alternative Fuels Goal: Meet 30% of highway fuel demand with alternative fuels by 2030
- 2030: Energy Efficiency Portfolio Standards Goal: 4,300 GWh use reduction by 2030
- 2035: Carbon Neutral Goal: Less emissions than offsets by 2045

The Paris Agreement
2016: 197 countries agree to limit global temperature rise below 2°C.

Hawaii’s Response—Act 32
§225P-3 Hawaii climate change mitigation and adaptation commission; general functions, duties, and powers. [See Note at beginning of chapter.] (a) There is established the Hawaii climate change mitigation and adaptation commission that shall be placed within the department of land and natural resources for administrative purposes only.
<table>
<thead>
<tr>
<th>HRS §225P-3(k) (Act 32, SLH 2017) Mandates, excerpted</th>
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<tbody>
<tr>
<td>1. Provide policy direction, facilitation, coordination, and planning among state and county agencies, federal agencies, and other partners</td>
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<td>2. Establish climate change mitigation and adaptation strategies and goals to help guide planning and implementation statewide using the latest scientific analysis and risk assessment to monitor and forecast climate change related impacts at the regional, state and local level, including any additional information deemed necessary.</td>
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<td>3. Identify vulnerable people, communities, industries, ecosystems and potential economic ramifications for climate change related impacts</td>
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<td>4. Identify existing climate mitigation and adaptation efforts at the federal state and local levels and make recommendations for how to meet or exceed Hawaii’s state mitigation goals and shall adopt a liberal approach in prep, so as to minimize future risk to the people and environment of Hawaii</td>
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</tbody>
</table>
Who is on the Commission?

- 20 members
- 2 co-chairs--DLNR and OP
- legislators
- county planning directors
- directors and chairs of state departments and boards

High level
Multi jurisdictional
A Climate Ready Hawaii is…

...Clean, Equitable and Resilient

Mitigation: Reduce Emissions from Ground Transportation
Adaptation and Resilience: to support agencies and departments

- Maintain best available information and practices on SLR adaptation (Info Hub)
- Provide guidance to counties for planning and permitting (Planner’s Tool)
- Engage communities to help determine priorities (Community Matters strategy)
- Provide support to conduct vulnerability assessments (Decisionmaker’s Tool)
Punalu’u Beach Park
- 3+ feet likely in second half of century
- 1-10.5 feet by 2100
- 3.5 feet by 2060 in extreme scenario

Photo: Dr Shellie Habel
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