



HAWAIIAN HOME LANDS

HAWAIIAN HOMES COMMISSION • DEPARTMENT OF HAWAIIAN HOME LANDS

G-3

**For Information Only – Update on Statewide Initiatives
and Actions Related to Climate Change and Resilience**

July 19-20 2021



Previous HHC Updates

HHC Meeting	Item No. & Title	Topics / Description
June 17-18, 2019 (O'ahu)	Item G-1, Update on DHHL Efforts: Climate Change and Sea Level Rise Adaptation, Community Resilience and Hazard Mitigation on Hawaiian Home Lands, Statewide	Reviewed federal-, state- & county-level activities over previous year; focus on best practices and integration of coastal zone management, community resilience, disaster preparedness, vulnerability analysis & hazard mitigation planning.
April 15-16, 2019 (Moloka'i)	Item G-3, Moloka'i Planning Projects Status (pages 5-15)	So. Molokai Shoreline Erosion Management Plan (SM-SEMP) Phase I; CCA & SLR planning activities at federal, state & county levels.
June 18-19, 2018 (O'ahu)	Item G-4, Update on DHHL Efforts: Climate Change & Sea Level Rise Adaptation, Community Resilience & Hazard Mitigation on Hawaiian Home Lands, Statewide	First update, per HHC request at April 2018 meeting. Reviewed federal, state and county activities Sept. 2016 to June 2018. Continued to recommend integrated, ahupua'a based approach.
September 19-20, 2016 (Maui)	Item G-6, Planning for our Makai Communities - Integrating Coastal Zone Management, Community Resilience & Hazard Mitigation on Hawaiian Home Lands Along the Shoreline, Statewide	Outlined CZM jurisdictional issues, DHHL CZM reviews, CZM, CCA, CRP & disaster preparedness efforts at state, county and homestead community levels; listed potential funding sources.



Changes are Coming - Mid-2030's

- Jul 7, 2021 - "Study Projects a Surge in Coastal Flooding, Starting in 2030's" – led by NASA Sea Level Change Science Team at UH-Mānoa
- In mid-2030s, every U.S. coast will experience rapidly increasing high-tide floods, when a lunar cycle will amplify rising sea levels caused by climate change.
- Higher seas, amplified by lunar cycle, will cause a leap in flood numbers on almost all U.S. mainland coastlines, Hawaii, and Guam
- High-tide flood tool available here: <https://sealevel.nasa.gov/>



Revival of Action at Federal Level

- Two executive orders issued in Biden's first weeks in office: "Executive Order on Protecting Public Health and the Environment and Restoring Science to Tackle the Climate Crisis" and "Executive Order on Tackling the Climate Crisis at Home and Abroad." U.S. Officially Rejoins Paris Agreement in Feb. 2021
- Administration's agenda centers on climate change mitigation and resilience, environmental justice, and clean energy job creation. Creating a Civilian Climate Corps, like FDR's Civilian Conservation Corps
- Two new positions/appointments: John Kerry as Special Presidential Envoy for Climate, and Gina McCarthy as National Climate Advisor
- New or revived climate change-related programs being stood up in multiple federal agencies: DOE, DOI, DHS, DOH, DOD, EPA, NASA, NOAA etc.
- Revived dormant interagency working group on environmental justice, elevating it to council status, and established an advisory group to guide that body.





Major DHHL Activities Since June 2019

Activity	Dates	Topics discussed
Hawai'i Climate Change Mitigation & Adaptation Commission Meetings	7/17/19, 9/4/19, 11/6/19, 5/13/20, 10/28/20, 4/7/21	Climate Change Legislation; Ground Transportation emissions reduction; Report on outcome of 2020 & 2021 Leg Sessions; climate equity; SLR adaptation, Climate Ready Hawai'i
2020 Hawai'i Climate Conference – Hā O Ke Kai	1/13-14, 2020	Update on progress of State climate change initiatives & implementation; emphasis on effective communication of current research & creative ways to convey difficult messages
Hawai'i Ocean Resources Management Plan (ORMP) - Coordinated Working Group & Council on Ocean Resources	7/11/19, 10/3/19, 12/5/19, 2/6/20, 8/6/20, 3/4/21, 6/3/21, 7/1/21	Updates on ORMP Implementation by OP-CZM & Partners, Legislative Initiatives, ORMP Update process through community outreach, draft and final report; strategic planning for ORMP outreach & implementation
Honolulu Climate Change Commission Meetings	Meets monthly	Climate Change & Social Equity, Construction Industry Guidance; Climate Adaptation Strategy; Financial Risk Guidance; One Water; Shoreline Setback Guidance; Managed Retreat Strategies; Carbon Fees; State Energy Conservation Code
Statewide Sustainability Program	July 2019 to May 2021	Participated in Hawaii 2050 State Sustainability Plan update – pau July 2, 2021
South Molokai Shoreline Erosion Management Plan	July 2019 to present	Project continued: fieldwork and interviews completed, focus group meetings being held; community meeting TBS in Fall 2021; completion end of 2021



Major DHHL Activities Since June 2019

Activity	Dates	Topics discussed
State Cesspool Conversion Working Group	April 2021 to present	DHHL invited to attend as a guest; pursuing potential federal funding for cesspool conversions on HHL
WAI Work-4-Water	Nov. 2020 to present	Meeting with Wastewater Alternatives & Innovations (WAI) & University of Hawai'i at Mānoa Water Resources Research Center on cesspool conversion/workforce development project on HHL
Molokai Wetlands Partnership	May 2020 to present	Participating in formation of partnership to restore wetlands on Molokai; grant obtained
NFWF NCRF Grant Opportunity	June-Nov. 2021	Submitted proposal for So. Molokai Coastal Community Resilience Plan; if accepted, will build on recommendations of SM-SEMP & focus on community capacity building for nature-based solutions
Climate Ready Hawai'i	2021	Attended meetings of Natural & Working Lands Hui. Investigating GHG Sequestration opportunities



RESPONSES AT STATE & COUNTY LEVELS

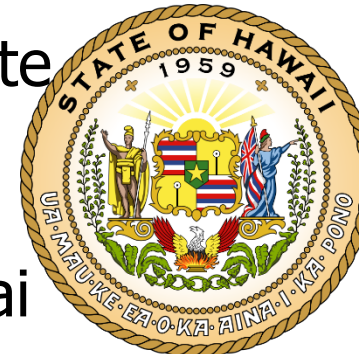


TABLE 1: SUMMARY OF FUNDS SOUGHT AND AWARDED

PRIORITY: MITIGATION

ACTIVE TRANSPORTATION

PROJECTS/ACTIVITIES	DESCRIPTION/NOTES	GRANT AWARDS*
MULTI-MODAL HUB O'AHU	Identify, describe and recommend use of state parking lots and spaces to encourage the use of alternative transportation and multi-modal mobility options to achieve state goals	\$100,000
ACTIVE TRANSPORTATION PROJECT STATEWIDE	Develop supporting framework for sustainable transportation statewide	\$100,000

PRIORITY: ADAPTATION

CLIMATE READY HAWAII INITIATIVE

PROJECTS/ACTIVITIES	DESCRIPTION/NOTES	GRANT AWARDS
RISK ROAD MAP	Operationalizing climate change induced risk for State of Hawai'i departments	\$270,000**
PUNALU'U PILOT	Using green-gray infrastructure to protect coastal roads (DLNR, DOT,C+C)	\$200,000

PRIORITY: SUPPORTING FRAMEWORKS

EQUITY FRAMEWORK DEVELOPMENT

PROJECTS/ACTIVITIES	DESCRIPTION/NOTES	GRANT AWARDS
VISTA CLIMATE READY CORPS	Further climate change and equity goals through a six-member VISTA cohort in four offices (HSEO, DLNR, OP, DOH)	\$120,595**

TOTAL GRANT AWARDS:

\$790,595

* From federal and private sources

** In-kind funds

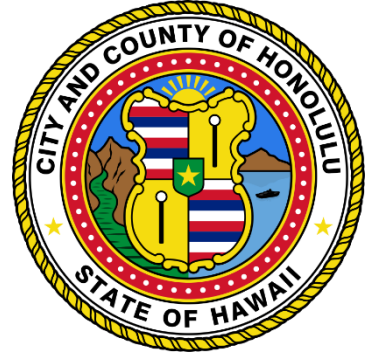
- Dec. 2019 & 2020: Hawai'i Climate Change Annual Report
- January 2020: Hawai'i Climate Change Conference – Hā O Ke Kai



- Update on progress of State climate change initiatives & implementation
 - Emphasis on effective communication of current research & creative ways to convey difficult messages
- climate.hawaii.gov/conference/



Honolulu City & County



- City and County of Honolulu's Office of Climate Change, Sustainability and Resiliency (CCSR), established by City Charter in 2016, completed its Climate Action Plan (CAP) in 2020. resilientoahu.org/climate-action-plan
- Honolulu Climate Commission approved guidance on
 - Climate Change and Social Equity,
 - Climate Change and Financial Risk Guidance,
 - One Water for Climate Resiliency White Paper, and
 - Shoreline Setback Guidance.
 - Go to: resilientoahu.org/climate-change-commission/#guidance



Other Planning Office Activities

DHHL Energy Policy - Ho'omalūō

- Planning Office and LMD have been pursuing opportunities for Community-based Renewable Energy (CBRE) projects on Hawaiian Home Lands.
- DHHL has been in preliminary discussions with Honolulu Office of Climate Change, Sustainability and Resilience on the potential for low-cost rooftop solar installations for DHHL beneficiaries.

Coastal Zone Management (CZM) Review of Projects Near the Shoreline

- The Planning Office continues to provide ongoing environmental review and planning technical assistance to the line agencies (LMD, LDD, HSD), the District Offices, homestead associations and beneficiaries regarding important environmental, cultural and natural resource issues in homestead communities along the shoreline on multiple islands.



Next Steps

- Continue work on **integrated policy framework** via General Plan update process, then implement climate change-related policies via the Island Plan updates.
- Continue work on a **more coordinated approach** to DHHL representation and involvement in disaster preparedness and community resilience planning processes, policies, and implementation activities at federal, state and county levels.
- **Conduct cross-training** on climate change and community resilience planning within Planning Office for land use and environmental planners, then roll out to other divisions.
- Continue to include considerations of sea level rise, climate change and hazard vulnerability in the **criteria for evaluating land exchanges and acquisitions.**
- Conduct a **workshop for the Commission** in late 2021-early 2022 to generate recommendations and direction on prioritization of DHHL efforts for the above.
- Conduct **Community Resilience Planning workshops** in 2022-23 for homestead communities interested in developing Community Resilience Plans.
- Future joint submittal to the HHC regarding federal Environmental Protection Agency and Hawaii Department of Health **cesspool conversion requirements.**

A satellite photograph of the Hawaiian Islands, showing the main islands and surrounding waters. The text "Nīnau?" is overlaid in the center of the image.

Nīnau?



Mahalo



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