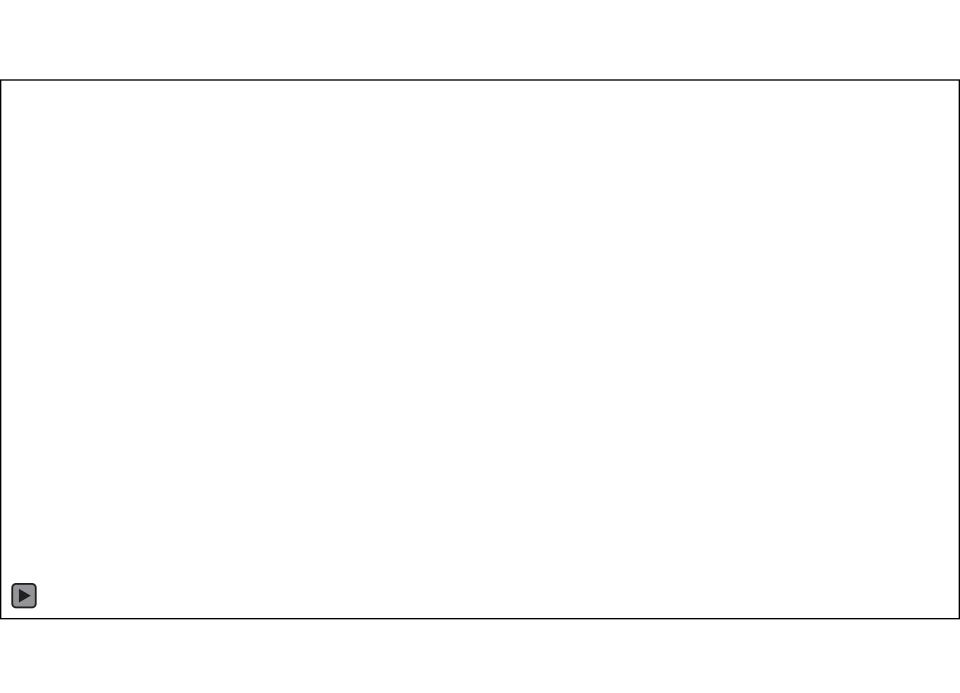


HAWAI'I GREEN GROWTH LOCAL2030 HUB



Aloha+ Dashboard

Hawai'i Conference of Planning Officials - October 2020



Hawai'i Green Growth

Hawai'i Green Growth (HGG) members and supporters include:











































































































































Aloha+ CHALLENGE

Hawai'i's Statewide Sustainability Commitment













THE GLOBAL GOALS

For Sustainable Development



SUSTAINABLE G



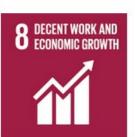






























RESPONSIBLE CONSUMPTION

AND PRODUCTION



LOCAL HUBS FOR SUSTAINABILITY SOLUTIONS



LEWA (sky)

WAO (forest)

> KULA (plain)

(stream)

(shore)

MOANA (ocean)



MALA (gardens)

(dwelling)

LO'I KALO (taro fields)

KAUHALE (dwelling)

LOKO I'A (fishponds)





Aloha+ Challenge Dashboard

Accountability and Action on Hawai'i's Sustainability Goals

40% from renewables & 30% from efficiency



CLEAN ENERGY TRANSFORMATION

Electricity: Renewable/Efficienc 27.6 on track

Average Fuel Use Per Person Annually measuring

Greenhouse Gas **Emissions** 14.5 on track

Total Energy Use 42.800 near target

Transportation 516 needs improvement

LOCAL FOOD

At least double local food production 20-30% of food consumed is grown locally



LOCAL FOOD PRODUCTION AND CONSUMPTION





ALOHA+ NATURAL RESOURCE MANAGEMENT

Watershed Forest







NATURAL RESOURCE MANAGEMENT

Reverse the trend of natural resource loss mauka to makai by increasing freshwater security, watershed protection, community-based marine management, invasive species control and restoration of native species







Area







WASTE REDUCTION

Reduce the solid waste stream prior to disposal by 70% through source reduction, recycling, bioconversion and landfill diversion methods



SOLID WASTE REDUCTION

Total Solid Waste Reduction 52.9 on track









Increase livability and resilience in the built environment through planning and implementation at the state and county levels



SMART SUSTAINABLE COMMUNITIES

Mobility & Accessibility 9,415 o measuring

'Āina-Based

Education &

ichool-Community Sites measuring



Economic Prosperity Percentage of Households Below the Self-Sufficiency Standard measuring

Resilience & Disaster

measuring

Land Use Impacts eople per Acre of Urban Land measuring

ALOHA+ GREEN WORKFORCE AND EDUCATION

Increase local green jobs and education to implement these targets

GREEN WORKFORCE & EDUCATION



Transformational Learning & 83.2

o measuring

Equitable Access to Workforce & Education Professional Percentage of Youth Not Attending School and Not Working

Innovation & Entrepreneurship 47.6 measuring measuring





Global Goals, Local Action

Declaration of Commitment to Sustainability for Hawai'i

WHEREAS, Hawai'i and islands around the world are vulnerable to the effects of climate change, import dependency and biodiversity loss; and

WHEREAS, island communities also face challenges on housing affordability, community resilience and economic risks along with an increasing number of natural disasters, making sustainability practices more essential; and

WHEREAS, Hawai'i is among a number of islands that are emerging as global leaders with integrated solutions to these challenges that can be scaled to advance the global sustainability agenda; and

WHEREAS, Hawal'i launched the Aloha+ Challenge: He Nohona 'Ae'oia in 2014 as a statewide sustainability commitment and adopted Senate Concurrent Resolution 69 (SCR 69) to support our shared economic, social, and environmental goals, building on Hawai'i's culture and island values; and

WHEREAS, the Aloha+ Challenge is Hawai'i's local framework to achieve the United Nations Sustainable Development Goals and Paris Climate Agreement adopted by world leaders in 2015; and

WHEREAS, the United Nations recognized Hawai' as one of the world's first Local 2030 Hubs as a result of the collective statewide leadership on the Aloha+ Challenge and collaboration with the Global Island Partnership to scale Island sustainability models; and

WHEREAS, the Hawai'i Green Growth Local 2030 Islands Hub works with public, private, and civic partners to accelerate and scale island-led solutions to achieve the United Nations Sustainable Development Goals; and

WHEREAS, Hawai'i's own Hökūle'a, Hikianalia and crews of the Polynesian Voyaging Society continue to carry the message of "Malama Honua- to care for our Island Earth," engaging worldwide communities to practice living sustainably, and

WHEREAS, the five-year anniversary of Hawai'i's Aloha+ Challenge demonstrates the critical importance of local leadership and action to achieve global goals;



Global Goals, Local Action

Declaration of Commitment to Sustainability for Hawai'i

THEREFORE I, DAVID Y. IGE, Governor of the State of Hawai'l, and Joshua B. Green, Lieutenant Governor, State of Hawai'r, Brian B. Schatz, U.S. Senator, State of Hawai'r, Marle K. Hirono, U.S. Senator, State of Hawai'r, Edward E. Case, U.S. Representative, State of Hawai'r, Edward E. Case, U.S. Representative, State of Hawai'r, Edward E. Case, U.S. Representative, State of Hawai'r, Bonald D. Kouchi, Senate President, State of Hawai'r, Scott K. Saild, House Speaker, State of Hawai'r, Leader, State of Hawai'r, Bella Au Belatti, House Majority Leader, State of Hawai'r, Bella Au Belatti, House Majority Leader, State of Hawai'r, Bella Au Belatti, House Majority Leader, State of Hawai'r, Bella Au Belatti, House Majority, Leader, State of Hawai'r, Bella Wella Consulved Hawai'r, Bawil Leader, State of Hawai'r, Bawil Leader, State of Hawai'r, Bawil Leader, State of Hawai'r, Bawil Leader, President of the University of Hawai'r, Bawil Leader, Supreme Court, of Hawai'r, Bawil Lasaner, President of the University of Hawai'r, Bawil Leader, President of the University of Hawai'r, Bawil Leader, President of the University of Hawai'r, Bawil Leader, President of Hawai'r, Bawil Leader, Bawil Lea

Done at the State Capitol in Honolulu, Hawai'i this eighteenth day of April 2019.

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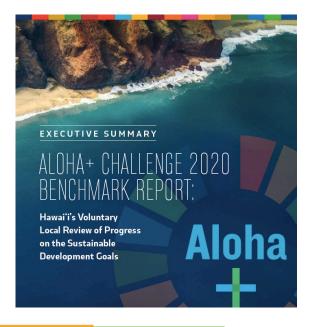


Aloha+ Dashboard

Multi-year statewide convening process to co-develop Aloha+
Challenge and Dashboard targets, metrics and indicators





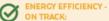


Aloha+ 2020 Benchmark Report: Hawai'i Voluntary Local Review

AT A GLANCE

RENEWABLE ENERGY - ON TRACK:

Hawai'i's goal of 100% Renewable Portfolio Standard (RPS) for the electricity sector by 2045 is on track, with a statewide average of 29.8% RPS in the electricity sector as of April 2020.



Hawai'i's target to meet the Energy Efficiency Standard for 4,300 gigawatt-hours (OWh) of electricity savings by 2030 is on track, and surpassed the 2015 benchmark for energy efficiency by 50%.

CLEAN TRANSPORTATION IMPROVEMENT NEEDED:

Not currently on track to meet the 2030 clean transportation goal to reduce petroleum usage to 165 million gallons per year, and used approximately 511 million gallons per year as of

ATA GLANCE KEY: Available data indicate where Hawai'i is on track, needs improvement and the trend if an agreed target is still under development.

AT A GLANCE



FARMS AND PRODUCERS - UPWARD TREND:

monitor progress.

There was a 4% increase in the number of farms and producers from 2012 to 2017 indicating a growth in small farms. There are currently over 7,000 farms on 1,14 million acres.

HEALTH, NUTRITION AND
ACCESS - IMPROVEMENT
NEEDED:

In 2018, 11.2% of households experienced food insecurity and 18.4% of children experienced food insecurity. While Hawai's household food insecurity rate is comparable to the national average, access to healthy and nutritious foods needs improvement though more data is needed.

ATA GLANCE KEY: Available data Indicate where Hawai'i is on track, needs improvement and the trend if an agreed target is still under development.

AT A GLANCE



50.12% of solid waste was diverted from landfills, not including waste-to-energy, as of 2018 towards the 70 % goal by 2030.

SOLID WASTE GENERATION NEEDS IMPROVEMENT:
Solid waste generation
increased slightly overall since
the 2030 goal was set, with
2.453 million tons of solid

waste produced in 2018.

RE-USE - UPWARD TREND:
While consistent,
comprehensive data of reused

ownie Considera, comprehensive data of reused materials at statewide or county-level are limited, approximately 580 tons of construction and demolition materials are diverted annually from reuse on O'ahu.

SOURCE REDUCTION -

Limited data are available due to difficulties quantifying waste prevention or imports, and metrics need to be identified to measure this priority strategy for waste reduction.

AT A GLANCE KEY: Available data Indicate where Hawai' is on track, needs improvement and the trend if an agreed target is still under development.

AT A GLANCE

WATERSHED PROTECTION:

Of the target to protect 30% of watershed forest (or 253,000 acres) by 2030, Hawai'l is just over halfway to the target with 17.4% (or 146,000 acres) of watershed forest under highlevel protection.

MARINE MANAGEMENT -NEEDS IMPROVEMENT: Only 6% of Hawai's near-

Only 6% of Hawai'i's nearshore waters are established as marine management areas statewide against a target of 30% managed areas by 2030.

FRESH WATER SECURITY
- NEEDS IMPROVEMENT:
Since 2016, Hawaii has made
progress towards the statewide
freshwater target with an
increase of approximately 11
million gallons per day (mgd) in
freshwater capacity relative to
a baseline of 0 mgd and goal to
reach 10 0 mgd by 2030.

INVASIVE SPECIES CONTROL

50% of the Hawai'l Interagency Biosecurity Plan's recommended actions have been initiated, are ongoing or completed to prevent and control invasive species.

NATIVE SPECIES - NEEDS

IMPROVEMENT:
Hawaii's native plants are listed as threatened or endangered at more than 18 times the national average, and are now nearly half (45%) of all the threatened or endangered plants in the country.

AT A GLANCE KEY: Available data indicate where Hawai'i is on track, needs improvement and the trend if an agreed target is still under development.

AT A GLANCE

AFFORDABLE HOUSING - IMPROVEMENT NEEDED: Residents in all counties on average spend more than 50 %

of earned income on housing and transportation costs combined. The state developed 9,333 affordable housing units statewise since 2006, with a target to develop 6,971 more new units by 2023, though impacts from COVID-19 on the affordable housing inventory and future housing developments will need to be assessed.

ECONOMIC PROSPERITY - IMPROVEMENT NEEDED:
Prior to COVID-19's impact on the local economy, the
percentage of households living below the ALICE Threshold
(Asset Limited, Income Constrained, Employed) increased
from 31% in 2007 to 43% in 2010, and as of 2018, 42% of

Hawai'i households still struggle to meet basic expenses.

DISASTER MANAGEMENT AND RESILIENCE - UPWARD
TREND:

Hawal i's Social Vulnerability Index has improved slightly over time from a ranking of .52 in the year 2000 to .468 in 2018 on a scale of 0-1 ranging from the least to the most vulnerabilit. The Index denotes vulnerabilities based on U.S. census variables and social factors, though more comprehensive data are needed to assess resilience and a local Index is being developed.

MOBILITY - IMPROVEMENT NEEDED:
Total miles traveled by all whelices in Hawai'i has
increased by 7% since 2011 due to an increase in the
number of vehicles, and data indicates 68% of Hawai'i
commuters drive alone to work, with only 6% taking public
transportation

CONNECTION TO PLACE - UPWARD TREND:
Ahupua'a landowners with community-based management
plans Increased slightly from 12% to 15% since 2011, and
volunteerism grew from 22% of residents in 2015²² to 28%

AT A GLANCE KEY: Available data indicate where Hawai'i is on track, needs improvement and the trend if an agreed target is still under development.

AT A GLANCE

UNEMPLOYMENT - IMPROVEMENT NEEDED:
Unemployment rose sharply as a result of the COVID-19
pandemic, rising from a low 2.4% in March 2020 to a high
of 23.4% in May 2020 with on-going fluctuations.

WORKFORCE DEVELOPMENT - IMPROVEMENT

42% of Hawa'l households struggle to afford basic necessities despite holding a job, and 6.9% of those employed in Hawa'l in 2018 held multiple jobs, compared to 5.0% across the United States.

EDUCATIONAL ATTAINMENT - UPWARD TREND:

84% of Hawai' i students graduated high school on time as of 2018. Of Hawai' residents 25 and older, 92.3% have at least a high school diploma and 32.9% have at least a bachelor's degree.

EQUITABLE ACCESS - UPWARD TREND:

In 2018, 89% of youth (16-24 years old) were attending school or employed, slightly up from 87% in 2014 and 85% in 2010.

'ĂINA BASED EDUCATION - UPWARD TREND:

While there is no compiled number for the many 'alna based initiatives across Hawa'i, the DOE's HA Na Hopena Ao program had 17 design teams in the 2017-2018 academic school year, and 88% of eligible schools statewide had onsite gardens.

SUSTAINABLE TOURISM - IMPROVEMENT NEEDED:

47 businesses were certified as sustainable eco-tourism businesses as of January 2020, which is an upward trend; better metrics and more data are needed to measure sustainable tourism.

AT A GLANCE KEY: Available data indicate where Hawai'i is on track, needs improvement and the trend if an agreed target is still under development.

Aloha+ CHALLENGE

He Nohona 'Ae'oia • A Culture of Sustainability • Hawai'i's SDGs



The Aloha+ Challenge is a statewide public-private commitment to achieve Hawai'i's social, economic, and environmental goals by 2030.

Launched in 2014, the Aloha+ Challenge identifies six priority goals and local metrics that are delivering against the global United Nations Sustainable Development Goals (SDGs). The Hawai'i Green Growth Local 2030 Hub and partners are catalyzing island-led solutions to drive concrete action. Visit the Aloha+ Dashboard to see statewide progress and benchmark data on the Aloha+ SDGs and Hawai'i's contribution to the global goals.

Aloha+ Challenge Goals



Clean Energy Transformation

Achieve 70% renewable energy for the electricity sector by 2030, with 40% from renewables and 30% from efficiency, with a goal of 100% by 2045



Local Food Production and Consumption

At least double local food production - 20-30% of food consumed is grown locally.



Natural Resource Management

Reverse the trend of natural resource loss mauks to make by increasing freshwater security, watershed protection, community-based marine manageme.



Solid Waste Reduction

Reduce the solid waste stream prior to disposal by 70% through source reduction, recycling, bioconversion, and landfill diversion methods.



Smart Sustainable Communities

Increase Evability and resilience in the built environment through planning and implementatio at the state and county levels.



Green Workforce and Education

Increase local green jobs and education to implement the Aloha+ Challenge sustainability

Aloha+ Challenge

Hawai'i's Contribution to the Global Goals



SDG Goal 01 - No Poverty

Haraci'ris sentrification to analog passety



SDG Goal 02 - Zero Hunger

Hewari's contribution to preframes



SDG Goal 03 -Good Health and Well-Being



SDG Goal 04 - Quality Education



SDG Goal 5 - Gender Equality

This are warrant's full and effective participation and expail representation for fundaments at al-



SDG Goal 66 - Clean Water and Sanitation

Name of a contribution to obtain spring



SDG Goal 07 - Affordable and Clean Energy

Heuni''s contribution is also: unangy



SDG Goal 08 - Decent Work and Economic Growth

Mapsel's contribution to accomprise growth



SDG Goal 09 - Industry, Innovation and...

Haum'/ Contribution to realized infrastructure, translation, and systematic industrialization



SDG Goal 11 - Sustainable Cities and Communities

 Hana" is our tribution to sautonable and involution on remarking



SDG Goal 12 - Responsible Concumption and...

Harana Ya sandir Bradison for resignar while successing them and provides than such series.



SDG Goal 13 - Climate Action

Hasari Yu sook destron to correlative g slimate of anger and its imposts



SDG Goal 14 - Life Below Water

Planari''s contribution to martini comprisation:



SDG Goal 15 - Life on Land

Hasati'i's rentribution to consensing empotents and halting insultantity.



SDG Goal 16 - Reace, Justice and Strong...

Harsen'/s, contribution to possessivillated inclusion societies



SDG Goal 17 - Partnerships for the Goals

Name of a contribution to implementing and orotalizing photol postore stops for variational.



Business Leadership on ESG in Hawai'i

Hawai'i's Businesses are leaders in implementing the Aloha+ Challenge by changing everyday practices that impact the workplace, employees, corporate buying power, and the communities they are a part of. Many businesses are using Environmental, Social and Corporate Governance (ESG) to guide business practices and deliver on Hawai'i's SDGs.

Explore Dashboard



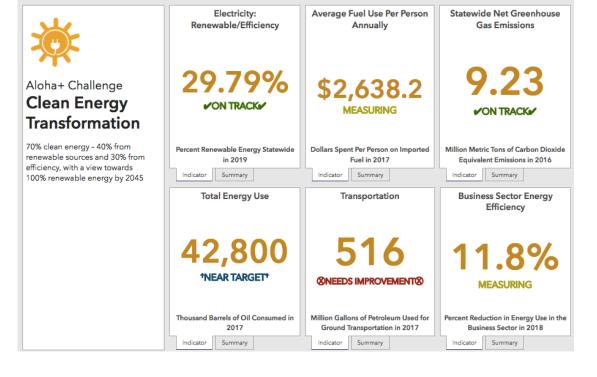
Get Involved & Take Action!

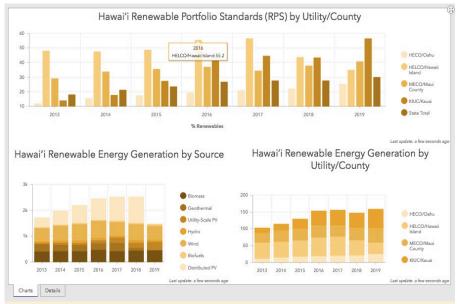


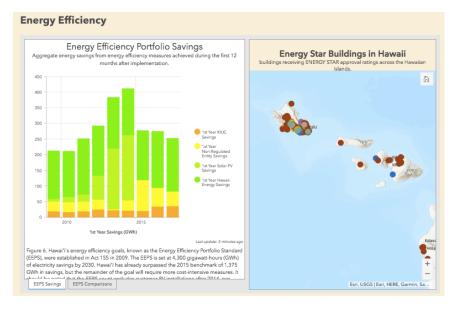












County Aloha+ Household Dashboards

Local action on the ALOHA+ SDGS by residents, families, schools and students







Explore actions

Actions are simple everyday things that you can do to reduce your impact, and many also save you money. Click on a category below to explore the actions.







Energy efficiency



Transportation







Community Action, Stories & Data









mālama 'āina:

Stories Behind the Data



Diverting Food Waste

Windward Zero Waste School Hui is a collaborative effort between a non-profit organization, schools and community on the Windward side of O'ahu to capture food waste from school lunches and turn it into compost. Hawai'i Green Growth has partnered with Windward Zero Waste School Hui to feature food waste diversion efforts on an interactive mobile-friendly web application for students, teachers, and community to utilize. These efforts contribute to the Aloha+ Solid Waste goal for Total Waste Reduction in Honolulu City & County and the State.

Data-Driven Policy, Action & Recovery



Aloha+ CHALLENGE

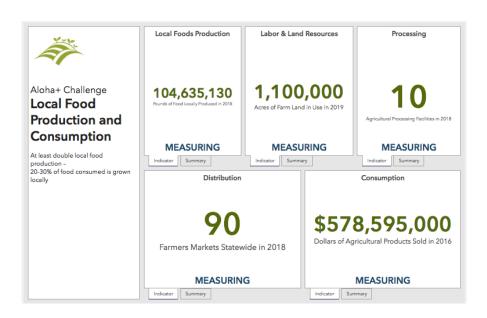
He Nohona 'Ae'oia • A Culture of Sustainability • Hawai'i's SDGs

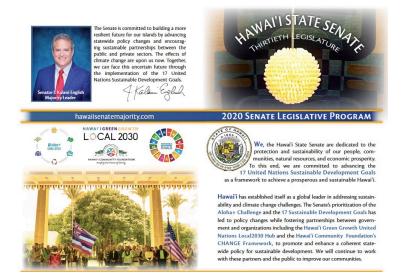


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HAWAI'I GREEN GROWTH LOCAL2030 HUB

Mahalo nui loa!

Visit the Aloha+ Dashboard: https://alohachallenge.hawaii.gov/

Contact Hawai'i Green Growth Local2030 Hub at info@hawaiigreengrowth.org or breanna@hawaiigreengrowth.org