Charting Hawaii's Course for a Resilient and Just Clean Energy Future

Melissa Miyashiro, Blue Planet Foundation
Accelerating our 100% clean energy future
Give me a lever long enough and a fulcrum on which to place it, and I shall move the world.

- ARCHIMEDES
“Strange things happen on islands.”
- ARCHAEOLOGIST COLIN RENFREW

IOLANI PALACE, 1886
World's first royal residence lit by electricity

CONTAINERIZATION
1958 shipping revolution
MAUNA LOA LABORATORY
Continuous tracking of carbon dioxide concentrations in the atmosphere since 1957
Flattening the climate curve
Carbon dioxide emissions, in gigatons, required to limit warming to 1.5°C, if climate action is taken today
HANALEI, KAUAI, APRIL 2018

Nearly 50 inches of rain fell, breaking the U.S. record for a 24-hour period.
Making Hawaiʻi a **model** of clean energy progress to **inspire** and **catalyze** climate solutions globally

[blueplanetfoundation.org](http://blueplanetfoundation.org)
By using the lever of bold policy and the power of storytelling, Blue Planet inspires change and creates momentum to make the impossible, possible.
100% RENEWABLE
The islands are over 90% dependent on imported oil for our energy needs—about one supertanker’s worth every 10 days (~44 million barrels annually)
California Lawmakers Begin Push for 100% Clean Energy by 2045

California Senate President
Kevin De Leon
Kauai is currently being powered by 100% renewable energy 20% of the time.
Waypoints Hawaii

Charting Hawai’i’s Course for a Resilient Future

WaypointsHawaii.org
Hawai‘i’s 100% transformation
three things to watch
“Flexi-watts” movable & responsive loads
Kauai Tesla Project
52 MWh of energy storage
Retrofitting 3,000 electric water heaters with grid interactive controllers to create >2 MWh of on-demand energy storage
“prices to devices”
Appliances respond to a real-time price signal on the grid
2 Electrification of transportation
Hawaii’s first car arrived in 1899.

It was Electric.
EVs = batteries on wheels
First fully electric buses, 2019 (JTB)
3 Green aviation
Decarbonizing travel
Airbus hydrogen concept aircraft
Together towards 100%
Transform Hawaii
Inspire the planet
blueplanetfoundation.org