

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

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Australian Government
Department of Foreign Affairs and Trad
Bureau of Meteorology















Give me a lever long enough and a fulcrum on which to place it, and I shall move the world. - ARCHIMEDES

> NASA, Apollo 8 Processing: J

# "Strange things happen on islands." - ARCHAEOLOGIST COLIN RENFREW

# <text>



**CONTAINERIZATION** 1958 shipping revolution

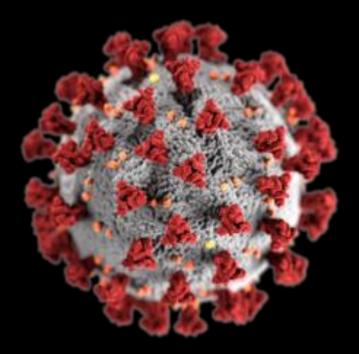
#### MAUNA LOA LABORATORY

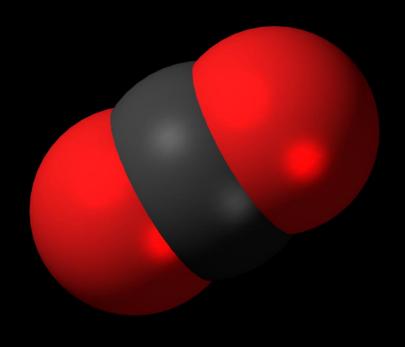
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Continuous tracking of carbon dioxide concentrations in the atmosphere since1957

#### SARS-CoV-2

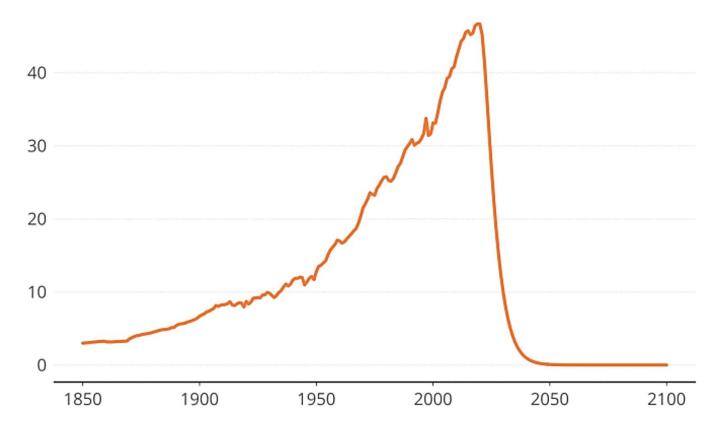
#### **Carbon Dioxide**





#### Flattening the climate curve

Carbon dioxide emissions, in gigatons, required to limit warming to 1.5° C, if climate action is taken today



#### HANALEI, KAUA'I, APRIL 2018 Nearly 50 inches of rain fell, breaking the U.S. record for a 24-hour period

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By using the lever of bold policy and the power of storytelling, Blue Planet inspires change and creates momentum to make the impossible, possible.

blueSplanet

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**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)



# 100% RENEWABLE BY 2045

# WEARE100.ORG

WE





The Kahaulelio Ohana

Mayumi Fulgencio

# **NBCNEWS** California Lawmakers Begin Push for 100% Clean Energy by 2045

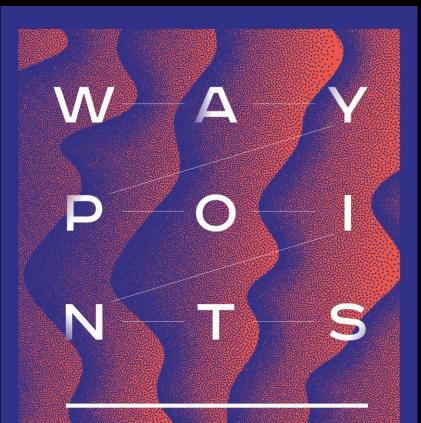


#### California Senate President Kevin De Leon





Kauai is currently being powered by 100% renewable energy 20% of the time



# Charting Our Course

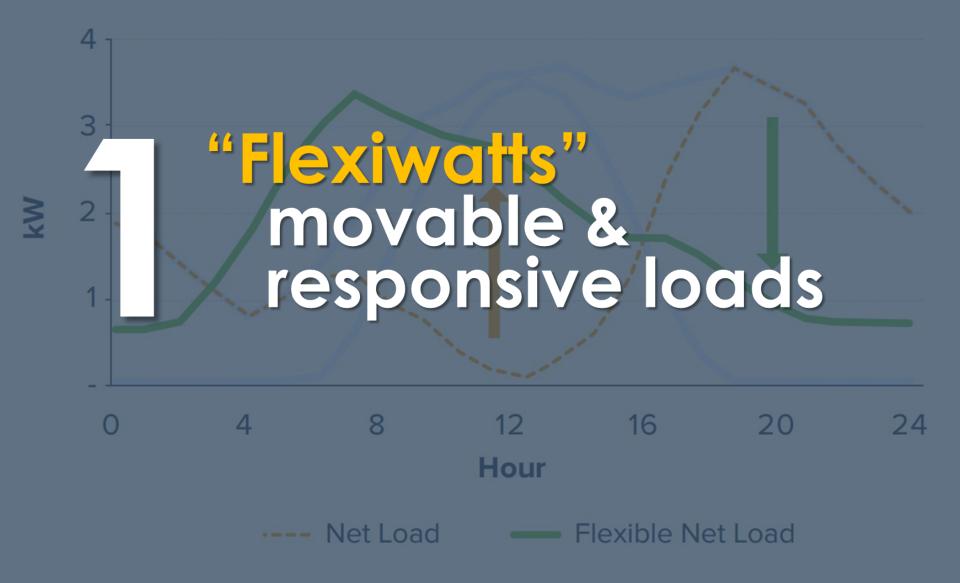
- 01 Shifting Our Economy
- 02 Building Career Ladders
- 03 Ensuring Access & Affordability
- 04 Repowering Mobility
- 05 Reinvigorating Public Spaces
- 06 Deploying Low-Carbon Energy
- 07 Rebuilding Hawaiʻi

Charting Hawai'i's Course for a Resilient Future

# WaypointsHawaii.org

# Hawai'i's 100% transformation three things to watch

- TIME AND THE ADDRESS





### Kauai Tesla Project 52 MWh of energy storage

TESLA





Retrofitting 3,000 electric water heaters with grid interactive controllers to create >2 MWh of ondemand energy storage





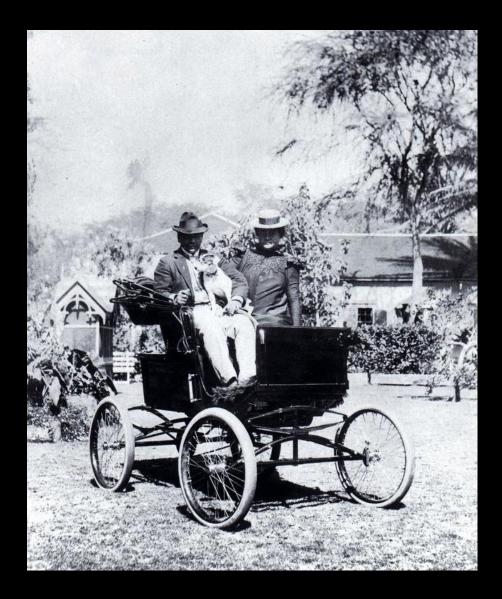
#### "prices to devices"

Appliances respond to a real-time price signal on the grid



# Electrification of the second second





Hawaii's first car arrived in 1899.

> It was Electric.

# EVs = batteries on wheels

C

0

B



# Ford Mustang Mach-E

# Ford F-150 Lightning

Suphia.





# First fully electric buses, 2019 (JTB)



Perfect moments, always

# **Green aviation** Decarbonizing travel



Regional airliner. Specialized Operations. Tomorrow.







#### Airbus hydrogen concept aircraft

Henergy

AIRBUS

No state of the

# Together towards 100%

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# Transform Hawaii Inspire the planet blue Splanet

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