

HAWAII STATE ENERGY OFFICE STATE OF HAWAII

235 South Beretania Street, 5TH Floor, Honolulu, HI 96813 | energy.hawaii.gov

DAVID Y. IGE
GOVERNOR

SCOTT J. GLENN
CHIEF ENERGY OFFICER

(808) 587-3807

Testimony of
SCOTT J. GLENN, Chief Energy Officer

before the
HOUSE COMMITTEE ON ENERGY & ENVIRONMENTAL PROTECTION
Thursday, January 30, 2020
8:30 AM
State Capitol, Conference Room 325

In SUPPORT of
HB 2301
RELATING TO ENERGY FINANCING FOR STATE AGENCIES.

Chair Lowen, Vice Chair Wildberger, and members of the Committee. The Hawaii State Energy Office supports HB 2301, which, among other things, recognizes the importance of developing clean transportation alternatives as State government agencies explore a variety of energy- and revenue-saving options in the area of energy.

Energy accounts for over eighty-six percent of Hawaii's emissions, according to the most recent Greenhouse Gas Inventory prepared by the State Department of Health. Emissions from ground transportation sources — vehicles — are not only roughly equivalent to those from the power sector, but they have been increasing while emissions from the power sector have been decreasing.

Therefore, not only do we appreciate the work being done by the Hawaii Green Infrastructure Authority to enable State agencies' use of energy efficiency and renewable energy technologies, but we appreciate the inclusion of electric vehicles in the program.

Thank you for the opportunity to testify.



**DEPARTMENT OF BUSINESS,
ECONOMIC DEVELOPMENT & TOURISM**

DAVID Y. IGE
GOVERNOR

MIKE MCCARTNEY
DIRECTOR

No. 1 Capitol District Building, 250 South Hotel Street, 5th Floor, Honolulu, Hawaii 96813
Mailing Address: P.O. Box 2359, Honolulu, Hawaii 96804
Web site: dbedt.hawaii.gov

Telephone: (808) 586-2355
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Statement of
MIKE MCCARTNEY
Director
Department of Business, Economic Development and Tourism
before the
HOUSE COMMITTEE ON ENERGY & ENVIRONMENTAL PROTECTION
Thursday, January 30, 2020
8:30 a.m.
State Capitol, Conference Room 325

in consideration of
HOUSE BILL NO. 2301
RELATING TO ENERGY FINANCING FOR STATE AGENCIES

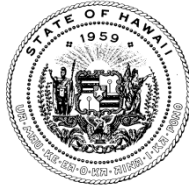
Chair Lowen, Vice Chair Wildberger and Members of the Energy &
Environmental Protection Committee.

The Department of Business, Economic Development and Tourism (DBEDT) **strongly supports** HB2301, an Administration bill that would amend and expand the purpose of the \$50,000,000 revolving sub fund for state agencies to also include financing the installation of electric vehicle ("EV") charging stations and the electrification of fleet vehicles.

Utilizing the low-cost capital available under Act 121 (SLH 2018) to exercise the purchase option in existing Solar Power Purchase Agreement(s), will generate additional cash flow, which at an Agency's option, may be used to finance the installation of EV charging stations and EVs.

Thank you for the opportunity to testify.

DAVID Y. IGE
GOVERNOR



TESTIMONY BY:

JADE T. BUTAY
DIRECTOR

Deputy Directors
LYNN A.S. ARAKI-REGAN
DEREK J. CHOW
ROSS M. HIGASHI
EDWIN H. SNIFFEN

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
869 PUNCHBOWL STREET
HONOLULU, HAWAII 96813-5097

January 30, 2020
8:30 a.m.
State Capitol, Room 325

H.B. 2301
RELATING TO ENERGY FINANCING FOR STATE AGENCIES.

House Committee on Energy and Environmental Protection

The Department of Transportation strongly **supports** this Administration bill which provides additional financing options to the State.

The DOT believes this bill will help accelerate the adoption and strategic transition of Hawaii's transportation sector from fossil fuels to electricity.

Thank you for the opportunity to provide testimony.



DAVID Y. IGE
GOVERNOR

GWEN S. YAMAMOTO LAU
EXECUTIVE DIRECTOR

HAWAII GREEN INFRASTRUCTURE AUTHORITY

No. 1 Capitol District Building, 250 South Hotel Street, Suite 501, Honolulu, Hawaii 96813
Mailing Address: P.O. Box 2359, Honolulu, Hawaii 96804
Web site: gems.hawaii.gov

Telephone: (808) 587-3868
Fax: (808) 587-3896

Testimony of
Gwen Yamamoto Lau
Executive Director
Hawaii Green Infrastructure Authority

before the
HOUSE COMMITTEE ON ENERGY & ENVIRONMENTAL PROTECTION
Thursday, January 30, 2020
8:30 A.M.
State Capitol, Conference Room 325

in consideration of
HOUSE BILL NO. 2301
RELATING TO ENERGY FINANCING FOR STATE AGENCIES

Chair Lowen, Vice Chair Wildberger and Members of the Energy & Environmental Protection Committee:

Thank you for the opportunity to testify and provide comments on House Bill 2301, relating to energy financing for state agencies. This bill proposes to amend and expand the purpose of the \$50,000,000 revolving sub fund for state agencies to also include financing the installation of electric vehicle charging stations and the electrification of fleet vehicles. HGIA **strongly supports** this bill.

With only about 1% of Hawaii's vehicles electric, the State could help facilitate the transition of gas vehicles to electric vehicles ("EV") beginning with its own fleet. If passed, House Bill 2301 would enable both the installation of EV charging stations and the electrification of state vehicles, at no additional cost to the state, by utilizing the savings benefit from reduced energy costs gained by exercising the option to purchase in existing Power Purchase Agreement(s).

Thank you for this opportunity to testify and provide comments and support HB 2301.

LATE

HB-2301

Submitted on: 1/30/2020 8:37:40 AM

Testimony for EEP on 1/30/2020 8:30:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
Lana Olson	Environmental Caucus of the Democratic Party of Hawaii	Support	No

Comments:

HB-2301

Submitted on: 1/29/2020 7:20:31 AM

Testimony for EEP on 1/30/2020 8:30:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
Ted Bohlen	Climate Protectors Coalition	Support	No

Comments:

The Climate Protectors Coalition **strongly supports** HB2301!

We are a new group inspired by the Mauna Kea Protectors but focused on reversing the climate crisis. As a tropical island State, Hawaii will be among the first places harmed by the global climate crisis, with more intense storms, loss of protective coral reefs, and rising sea levels. We must do all we can to reduce our carbon footprint and become at least carbon neutral as soon as possible, including by helping State agencies finance more sustainable energy purchases. Mahalo!



P.O. Box 37158, Honolulu, Hawai'i 96837-0158
Phone: 927-0709 henry.lifeoftheland@gmail.com

COMMITTEE ON ENERGY & ENVIRONMENTAL PROTECTION

Rep. Nicole E. Lowen, Chair

Rep. Tina Wildberger, Vice Chair

DATE: Thursday, January 30, 2020

TIME: 8:30AM

PLACE: Conference Room 325

HB 2301 ENERGY FINANCING FOR STATE AGENCIES

Modify Preamble

Aloha Chair Lowen, Vice Chair Wildberger, and Members of the Committees

Life of the Land is Hawai'i's own energy, environmental and community action group advocating for the people and `aina for 49 years. Our mission is to preserve and protect the life of the land through sound energy and land use policies and to promote open government through research, education, advocacy and, when necessary, litigation.

The bill's first sentence needs modification, "The legislature finds that establishing aggressive clean energy goals and mandates, such as the ... 100 per cent renewable energy portfolio standard goal in the electricity sector ... are required for Hawaii ~~to become energy independent, both economically and environmentally.~~

The phrase is not inferred by state law which allows power plants to be fueled with imported tropical rainforest trees and palm oil biodiesel; and permits out-of-state owned and controlled solar and wind projects built with foreign components.

Mahalo

Henry Curtis

Executive Director



**Hawaiian
Electric**

**TESTIMONY BEFORE THE HOUSE COMMITTEE ON
ENERGY & ENVIRONMENTAL PROTECTION**

H.B. 2301

Relating to Energy Financing for State Agencies

Thursday, January 30, 2020

8:30AM Agenda # 9

State Capitol, Conference Room 325

Michael Colón
Manager, Electrification of Transportation
Hawaiian Electric Company, Inc.

Aloha Chair Lowen, Vice Chair Wildberger and Committee Members,

My name is Michael Colón and I am testifying on behalf of Hawaiian Electric Company, Inc. (Hawaiian Electric) in **support** of H.B. 2301, Relating to Energy Financing for State Agencies.

This bill provides sorely needed access to low-cost financing for the State's efforts to convert to clean transportation. By enabling state agencies to access low-cost financing, the State can set more aggressive targets to modernize its fleet more quickly, which will ultimately create a secondary Electric Vehicle (EV) market when those vehicles are retired out of the State's fleet. Another key aspect of this bill is that it creates access for low-cost financing for electric vehicle charging station installation, which is typically the largest roadblock for creating a transition plan.

Hawaiian Electric appreciates the many challenges individuals and organizations face when trying to convert to electrified transport. In particular, the upfront cost to

purchase and install vehicles and/or charging equipment can be daunting, and H.B. 2301 will help address this issue by enabling greater flexibility in utilizing financing mechanisms that can reduce overall costs. Providing support to organizations in their efforts to convert fleets to electric vehicles are one of the key priorities identified in the Company's *Electrification of Transportation Strategic Roadmap*. This bill will continue the tremendous progress that the state has made towards a cleaner and more sustainable transportation future.

As one of the leaders in the state's clean transportation efforts, the Hawaiian Electric remains committed to an EV strategy that is sustainable and helps create a bridge to a cleaner future. Accordingly, the Hawaiian Electric supports H.B. 2301. Thank you for this opportunity to testify.



Hawaii Automobile Dealers Association

John Uekawa, President
Dave Rolf, Executive Director

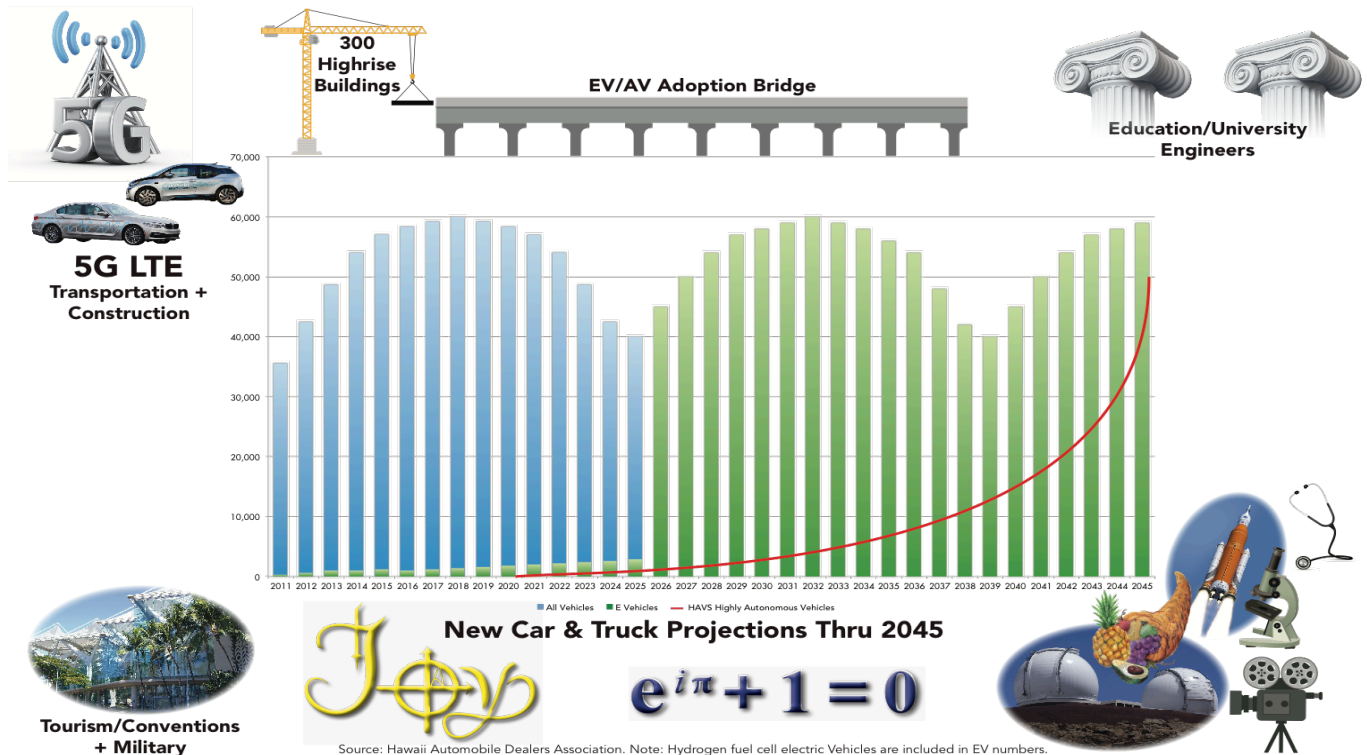
**HADA Testimony in SUPPORT of HB2301
RELATING TO ENERGY FINANCING FOR STATE AGENCIES**
Presented to the Committee On Energy & Environmental Protection
at the Public Hearing 8:30 a.m., Thursday, January 30, 2020
in Room 325 Hawaii State Capitol

by David H. Rolf for members of the Hawaii Automobile Dealers Association,
Hawaii's franchised new car dealers, who provide sales, warranty work and other factory-certified maintenance service for Hawaii's privately-owned and fleet-owned cars and light trucks

Chair Lowen, Vice chair Wildberger and members of the committee:

HADA members offer their support for HB2301 which amends and expands the purpose of the \$50,000,000 revolving sub-fund for state agencies and also includes the electrification of fleet vehicles.

HADA offers the following graphic to provide insights. HADA refers to the graphic as the Rosetta Stone. It shows anticipated customer uptake 2011 through 2045 of electric vehicles (including hydrogen fuel-cell electric vehicles), internal combustion/hybrid electric vehicles, and autonomous vehicles.



HADA dealers believe that this would provide the opportunity for the State to provide Level 3 (EV fast-charging) “EV-service islands” in all Hawaii counties, featuring rows of multiple EV fast-charging stations, (number of EV stations to be determined) which would provide reassurance to EV drivers that their vehicles could obtain readily-available access to EV fast charging.

We feel this would provide a good use for some of the money in this fund.

Thank you for the opportunity to testify in SUPPORT of HB2301. We respectfully ask that you pass the bill forward to its next House committee for further consideration.

Respectfully submitted,

David H. Rolf

On behalf of the Hawaii Automobile Dealers Association

HB-2301

Submitted on: 1/29/2020 7:54:58 PM

Testimony for EEP on 1/30/2020 8:30:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
David Mulinix	Our Revolution Hawaii	Support	No

Comments:

LATE

LATE

HB-2301

Submitted on: 1/29/2020 9:50:44 PM

Testimony for EEP on 1/30/2020 8:30:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
Noel Morin	Hawaii Electric Vehicle Association and Big Island Electric Vehicle Association	Support	No

Comments:

Dear Chair Lowen, Vice Chair Wildberger, and members:

I strongly support HB 2301.

Hawaii's transportation sector contributes more to climate crisis than any other sector. It consumes most of our fossil fuel imports. We must seek a more aggressive decarbonization of our transportation sector, particularly ground transport. There are many zero emission vehicle types available today and there are many more that will come. We're also seeing prices drop and reach parity with comparably sized gas vehicles.

The State's vehicle fleet needs to be converted to electric vehicles (EVs) as quickly as possible. This transition will send a consistent message about our commitment to our renewable energy future aspiration. It will also naturally expand the number of charging stations, which will over value to all electric vehicle owners. To facilitate this conversion, we can put a plan that would replace retired gas-powered state fleet vehicles with electric vehicles, and facilitate the installation of electric vehicle charging infrastructure.

HB 2301 would create and use a sub-fund of the Hawaii green infrastructure special fund to further reduce and stabilize future energy costs. An agency could also use these savings to finance the installation of electric vehicle charging systems and lease or purchase EVs.

HB 2301 would help the State convert its fleet to EVs with existing financing methods that already work well. Please pass it.

Thank you,

Noel Morin

President - Hawaii Electric Vehicle Association and Big Island Electric Vehicle Association

Hilo

808 987 7428



Pono Hawai'i Initiative

Josh Frost - President • Patrick Shea - Treasurer • Kristin Hamada
Nelson Ho • Summer Starr

Wednesday, January 29, 2020

Relating to Energy Financing for State Agencies
Testifying in Support

Aloha Chair and members of the committee,

The Pono Hawai'i Initiative (PHI) **supports HB2301 Relating to Energy Financing for State Agencies**, which amends and expands the purpose of the revolving sub-fund for state agencies. This measure can help agencies save money and therefore save taxpayer's money while also helping to lower energy cost.

Utilizing budgets more effectively can mean financing more projects for less.

For all these reasons, we urge you to move this bill forward.

Mahalo for the opportunity,
Gary Hooser
Executive Director
Pono Hawai'i Initiative



Email: communications@ulupono.com

HOUSE COMMITTEE ON ENERGY & ENVIRONMENTAL PROTECTION
Thursday, January 29, 2020 — 8:30 a.m. — Room 325

Ulupono Initiative supports HB 2301, Relating to Energy Financing for State Agencies

Dear Chair Lowen and Members of the Committee:

My name is Amy Hennessey, and I am the Senior Vice President of Communications & External Affairs at Ulupono Initiative. We are a Hawai'i-based impact investment firm that strives to improve our community's quality of life by creating more locally produced food; increasing affordable clean renewable energy and transportation options; and better managing waste and fresh water resources.

Ulupono supports HB 2301, which expands the objective of the \$50,000,000 sub-fund to allow state agencies to finance its purchase option under existing energy performance contracts and power purchase agreements to further reduce and stabilize future energy costs, including financing for the lease or purchase of electric vehicles (EV) or EV charging systems.

EVs are an important part of addressing Hawai'i's pressing climate issues and align with the State's energy and environmental goals. Ground transportation makes up a significant portion of Hawai'i's reliance on imported oil and the largest contributor to our State's greenhouse gas emissions.

EVs are the future, but they currently only represent less than one percent of all passenger vehicles in the state. Hawai'i must encourage this still nascent market and be prepared with the necessary infrastructure. Public EV charging stations are a vital component of the EV system. They provide access to charging for drivers who may not be able to charge at home, such as residents who live in multi-unit dwellings, and alleviate range anxiety for all EV drivers, a top-cited barrier to purchasing EVs. Similar to the benefits that community solar offers to renters and apartment residents, public chargers open up the opportunity and feasibility of owning an EV to more people, increasing equity and access.

As Hawai'i's energy issues become increasingly complex and challenging, we appreciate this committee's efforts to look at policies that support clean ground transportation. Thank you for this opportunity to testify.

Respectfully,

Amy Hennessey, APR
Senior Vice President, Communications & External Affairs

Investing in a Sustainable Hawai'i



183 Pinana St., Kailua, HI 96734 • 808-262-1285 • info@350Hawaii.org

To: The House Committee on Energy & Environmental Protection
From: Brodie Lockard, Founder, 350Hawaii.org
Date: Thursday, January 30, 2020, 8:30 am

In strong support of HB 2301

Dear Chair Lowen, Vice Chair Wildberger, and members:

350Hawaii.org strongly supports HB 2301.

The transportation sector contributes more to the Climate Crisis than any other sector in Hawaii.

More than two-thirds of the fossil fuel imported into the State is used for transportation.

The State's vehicle fleet needs to be changed to electric vehicles (EVs) as quickly as possible.

With the number of energy performance contracts and power purchase agreements already in place throughout the State, there is a tremendous opportunity for savings to finance the conversion of the State's retiring internal combustion fleet to electric vehicles and to install electric vehicle charging systems, while remaining budget neutral.

HB 2301 would create and use a sub-fund of the Hawaii green infrastructure special fund to further reduce and stabilize future energy costs. An agency could also use these savings to finance the installation of electric vehicle charging systems and lease or purchase EVs.

HB 2301 would help the State convert its fleet to EVs with existing financing methods that already work well. Please pass it.

Brodie Lockard
Founder, 350Hawaii.org

HB-2301

Submitted on: 1/29/2020 9:02:59 AM

Testimony for EEP on 1/30/2020 8:30:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
J Riverstone	Individual	Support	No

Comments:

HB-2301

Submitted on: 1/29/2020 8:03:45 AM

Testimony for EEP on 1/30/2020 8:30:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
Julie Stowell	Individual	Support	No

Comments:

HB-2301

Submitted on: 1/29/2020 9:02:45 AM

Testimony for EEP on 1/30/2020 8:30:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
william metzger	Individual	Support	Yes

Comments:

HB-2301

Submitted on: 1/29/2020 9:16:34 AM

Testimony for EEP on 1/30/2020 8:30:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
Janet Pappas	Individual	Support	No

Comments:

Dear Representatives,

Bill HB2301 incentivises Hawaii state agencies themselves to transition to clean and renewable energy, especially in the transportation sector. I fully support this bill because of the example that will be set for the rest of us and the money it will begin to save our state. With the green infrastructure loan program, we will begin to see more electric vehicles on our roads, more charging stations and more green/energy efficient projects visible throughout the state. I strongly support this bill.

HB-2301

Submitted on: 1/28/2020 5:29:10 PM

Testimony for EEP on 1/30/2020 8:30:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
Andrea Quinn	Individual	Support	No

Comments:

Dear Honorable Committee Members:

Please support HB2301. The electrification of state-run vehicles will have an enormous positive impact on Hawaii's carbon footprint.

Thank you for the opportunity to present my testimony.

Andrea Quinn

Kihei

HB-2301

Submitted on: 1/29/2020 8:19:17 AM

Testimony for EEP on 1/30/2020 8:30:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
Jan Barosh	Individual	Support	No

Comments:

HB-2301

Submitted on: 1/29/2020 7:23:34 AM

Testimony for EEP on 1/30/2020 8:30:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
Meredith Buck	Individual	Support	No

Comments:

I support this bill.

HB-2301

Submitted on: 1/29/2020 4:45:24 AM

Testimony for EEP on 1/30/2020 8:30:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
Nanea Lo	Individual	Support	No

Comments:

Hello,

My name is Nanea Lo and I'm a lifelong resident of Hawai'i on the island of O'ahu. I am also a masters student at the university of Hawai'i at MÄ• noa in the Department of Urban and Regional Planning. I fully support this bill.

me ke aloha 'Ä• ina,

Nanea Lo

HB-2301

Submitted on: 1/28/2020 11:13:32 PM

Testimony for EEP on 1/30/2020 8:30:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
Caroline Kunitake	Individual	Support	No

Comments:

Please support HB2301.

Mahalo,

Caroline Kunitake

HB-2301

Submitted on: 1/29/2020 6:02:35 AM

Testimony for EEP on 1/30/2020 8:30:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
Lynn Aaberg	Individual	Support	No

Comments:

HB-2301

Submitted on: 1/29/2020 12:34:02 AM

Testimony for EEP on 1/30/2020 8:30:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
Phaethon Keeney	Individual	Support	No

Comments:

Please support HB2301, mahalo!

HB-2301

Submitted on: 1/29/2020 9:57:14 AM

Testimony for EEP on 1/30/2020 8:30:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
Karen Shimizu	Individual	Support	No

Comments:

HB-2301

Submitted on: 1/29/2020 10:56:58 AM

Testimony for EEP on 1/30/2020 8:30:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
ChristopherMcCullough	Individual	Support	No

Comments:

HB-2301

Submitted on: 1/29/2020 11:20:40 AM

Testimony for EEP on 1/30/2020 8:30:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
Javier Mendez-Alvarez	Individual	Support	No

Comments:

HB-2301

Submitted on: 1/29/2020 3:10:13 PM

Testimony for EEP on 1/30/2020 8:30:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
Stephanie Hall Morin	Individual	Support	No

Comments:

HB-2301

Submitted on: 1/29/2020 3:26:43 PM

Testimony for EEP on 1/30/2020 8:30:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
Joshua Brown Clay	Individual	Support	No

Comments:

HB-2301

Submitted on: 1/29/2020 4:00:02 PM

Testimony for EEP on 1/30/2020 8:30:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
Chris Mentzel	Individual	Support	No

Comments:

HB-2301

Submitted on: 1/29/2020 7:21:39 PM

Testimony for EEP on 1/30/2020 8:30:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
Sherry Pollack	Individual	Support	No

Comments:

LATE

LATE

HB-2301

Submitted on: 1/30/2020 8:02:38 AM

Testimony for EEP on 1/30/2020 8:30:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
helen raine	Individual	Support	No

Comments:

To: The House Committee on Energy & Environmental Protection

From: Helen Raine

Date: Thursday, January 30, 2020, 8:30 am

In strong support of HB 2301

Dear Chair Lowen, Vice Chair Wildberger, and members:

I strongly support HB 2301.

The transportation sector contributes more to the Climate Crisis than any other sector in Hawaii.

More than two-thirds of the fossil fuel imported into the State is used for transportation.

The State's vehicle fleet needs to be changed to electric vehicles (EVs) as quickly as possible.

With the number of energy performance contracts and power purchase agreements already in place throughout the State, there is a tremendous opportunity for savings to finance the conversion of the State's retiring internal combustion fleet to electric vehicles and to install electric vehicle charging systems, while remaining budget neutral.

HB 2301 would create and use a sub-fund of the Hawaii green infrastructure special fund to further reduce and stabilize future energy costs. An agency could also use these

savings to finance the installation of electric vehicle charging systems and lease or purchase EVs.

HB 2301 would help the State convert its fleet to EVs with existing financing methods that already work well. Please pass it.

Many thanks

Helen Raine