



**STATE OF HAWAII**  
**HAWAII CLIMATE CHANGE MITIGATION & ADAPTATION**  
**COMMISSION**  
POST OFFICE BOX 621  
HONOLULU, HAWAII 96809

**Testimony of**  
**Anukriti Hittle**  
**Coordinator, Hawaii Climate Change Mitigation and Adaptation Commission**

**Before the House Committee on**  
**ENERGY & ENVIRONMENTAL PROTECTION**

**Thursday, January 30, 2020**  
**8:30AM**  
**State Capitol, Conference Room 325**

**In consideration of**  
**HOUSE BILL 1845**  
**RELATING TO THE ELECTRIC VEHICLE CHARGING STATION REBATE**  
**PROGRAM**

House Bill 1845 proposes to appropriate funds for the electric vehicles charging systems rebate program. **On behalf of the Hawaii Climate Change Mitigation and Adaptation Commission (Commission) I offer the following comments in support of this measure.**

The Hawaii Climate Change Mitigation and Adaptation Commission “recognizes the urgency of climate threats and the need to act quickly. It promotes ambitious, climate-neutral, culturally responsible strategies for climate change adaptation and mitigation in a manner that is clean, equitable and resilient.” The Commission, established by Act 32 SLH 2017 to uphold the United States’ pledges under the Paris Agreement, is the coordinating body for policies on climate change mitigation and adaptation for the state. It is a high-level multi-jurisdictional body that guides the priorities of the state’s climate response. Co-chaired by DLNR and Office of Planning, it consists of 20 members—chairs of four legislative committees, and executive department heads at the county and state levels.

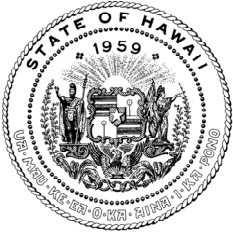
Transportation (air and ground) is the single largest source of greenhouse gas emissions in Hawaii, which mirrors the trend nationwide (according to EPA, it was the largest source of GHG emissions in 2017). One of the two focuses of the Commission is to reduce emissions from ground transportation, and HB1845 is a crucial component of this effort. The Commission’s statement on ground transportation, issued in November 2018, “supports mechanisms to reduce overall vehicle miles travelled (VMT) as well as converting all remaining vehicle-based ground transportation to renewable, zero-emission fuels and technologies.” Such conversions would include electrification of transportation, and its supporting infrastructure. A rebate program for charging infrastructure would be critical in promoting electrification of transportation.

**Co-Chairs:**  
Chair, DLNR  
Director, Office of Planning

**Commissioners:**  
Chair, Senate AEN  
Chair, Senate WTL  
Chair, House EEP  
Chair, House WTH  
Chairperson, HTA  
Chairperson, DOA  
CEO, OHA  
Chairperson, DHHH  
Director, DBEDT  
Director, DOT  
Director, DOH  
Chairperson, DOE  
Director, C+C DPP  
Director, Maui DP  
Director, Hawai'i DP  
Director, Kaua'i DP  
The Adjutant General  
Manager, CZM

The Commission's mission statement (above) emphasizes that strategies be equitable, and encourages any rebate program to consider and address infrastructure development in currently underserved areas and populations in an equitable manner.

Thank you for the opportunity to comment on this measure.



# HAWAII STATE ENERGY OFFICE STATE OF HAWAII

235 South Beretania Street, 5<sup>TH</sup> 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 AND ENVIRONMENTAL PROTECTION**  
Thursday, January 30, 2020  
8:30 AM  
State Capitol, Conference Room 325

### In SUPPORT of **HB 1845** **RELATING TO THE ELECTRIC VEHICLE CHARGING STATION REBATE PROGRAM.**

Chair Lowen, Vice Chair Wildberger, and members of the Committee. The Hawaii State Energy Office (HSEO) supports HB 1845 that utilizes the energy security special fund to appropriate additional funds to the electric vehicle charging system rebate program for fiscal year 2020-2021.

Emissions from ground transportation such as passenger cars, light trucks, motorcycles, and heavy-duty vehicles still account for the largest share of energy sector emissions in the state. As noted in the 2016 Greenhouse Gas Inventory, transportation emissions in Hawaii were at 8.69 million metric tonnes of carbon dioxide equivalents, accounting for 51 percent of energy sector emissions, of which ground transportation accounted for 47 percent of the transportation emissions. For Hawaii to meet its target to sequester more greenhouse gases than we emit as soon as practicable but no later than 2045 (Hawaii Revised Statutes, Section 225P-5), programs that support the adoption of cleaner transportation options are extremely important.

Electric vehicle charging infrastructure has been noted as a barrier to electric vehicle adoption. The electric vehicle charging system rebate program aides and encourages local community and the private and public sectors to adopt electric vehicles. Increased adoption of electric vehicles aligns with the state's clean energy goals and supports the HSEO's efforts to reduce costs and assist the private sector with the completion of clean transportation projects.

Thank you for the opportunity to testify.

TESTIMONY OF  
JAMES P. GRIFFIN, Ph.D.  
CHAIR, PUBLIC UTILITIES COMMISSION  
STATE OF HAWAII

TO THE  
HOUSE COMMITTEE ON  
ENERGY AND ENVIRONMENTAL PROTECTION

January 30, 2020  
8:30 a.m.

Chair Lowen and Members of the Committee:

**MEASURE:** H.B. No. 1845

**TITLE:** RELATING TO THE ELECTRIC VEHICLE CHARGING STATION REBATE PROGRAM.

**DESCRIPTION:** Appropriates funds for the electric vehicles charging systems rebate program.

**POSITION:**

The Public Utilities Commission supports this measure and offers the following comments for consideration.

**COMMENTS:**

Act 142, Session Laws of Hawaii 2019, created an electric vehicle charging system rebate program to offer rebates for eligible new or upgraded electric vehicle charging systems to be administered by the Public Utilities Commission.

In accordance with Act 142, the Commission launched the Electric Vehicle Charging System (“EVCS”) Rebate Program, managed by the Public Benefits Fee Administrator (“Hawaii Energy”), on January 1, 2020. In its first few weeks, the EVCS program has received a positive response and robust interest. This measure would appropriate additional funds to this program to augment its capacity to accelerate the state’s transition to clean transportation.

The Commission believes that expanding electric vehicle charging infrastructure is essential to building momentum toward the State’s electrification of transportation goals,

especially as it relates to the state's renewable portfolio standard mandates. The EVCS program is one way to incentivize infrastructure buildout, and additional funds would allow for the program to have a greater impact.

Thank you for the opportunity to testify on this measure.

**HB-1845**

Submitted on: 1/27/2020 9:14:47 PM

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

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Present at Hearing</b>
Ted Bohlen	Climate Protectors Coalition	Support	No

Comments:

The Climate Protectors Coalition **strongly supports** HB1845!

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 promoting electric vehicles. The lack of charging stations is a significant hurdle to increased electric vehicle use. Increased funding is needed for rebates to encourage more electric vehicle charging stations. Please support this bill. Mahalo!



Pono Hawai'i Initiative

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

Wednesday, January 29, 2020

Relating to the Electric Vehicle Charging Station Rebate Program  
Testifying in Support

Aloha Chair and members of the committee,

The Pono Hawai'i Initiative (PHI) **supports HB1845 Relating to the Electric Vehicle Charging Station Rebate Program**, which appropriates funds to the electric vehicle charging system rebate program.

In order to reduce Hawaii's dependence on fossil fuels the State needs to encourage and make accessible charging stations for electric vehicles. Lack of charging stations for drivers to use significantly deters the purchase of electric vehicles. This measure will help to incentivize the buildout of these charging stations.

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

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



## HOUSE COMMITTEE ON ENERGY & ENVIRONMENTAL PROTECTION

January 30, 2020, 8:30 A.M.

Room 325

(Testimony is 2 pages long)

### TESTIMONY IN SUPPORT OF HB 1845

Aloha Chair Lowen, Vice Chair Wildberger, and members of the Committee:

Blue Planet Foundation **supports HB 1845**, which **appropriates additional funding for Hawaii's rebate program** to incentivize the build out of electric vehicle infrastructure and to make electric vehicles a viable option for more Hawaii residents.

While Hawaii has been making strides on renewable electricity, we are falling short on decarbonizing our ground transportation sector. Greenhouse gas emissions from transportation are increasing. Last year, we sold 6% more gasoline than the previous year.<sup>1</sup> Over one million gasoline-powered vehicles are on Hawaii's roads—and from them comes nearly five million metric tons of climate-changing carbon pollution. Although we now have roughly 10,000 electric vehicles (EVs) on Hawaii's roads, they still only make up less than 1% of all registered vehicles in the state.<sup>2</sup>

Electric vehicles will play an integral role in Hawaii's clean energy future. While EVs that use the existing electricity grid to charge still use mostly fossil fuel, they use that fuel more effectively than burning fuel directly in a typical gasoline engine. This is why EVs are much less expensive to "fuel" per mile than their gasoline counterparts. Further, by using stored electrical energy, EVs can take advantage of intermittent solar, wind, and other clean energy resources. Most vehicles sit idle over 22 hours of the day, so they can become de facto energy storage devices if their batteries are plugged into the grid when they are not in use. With smart grid infrastructure in place, EVs become an essential component to electricity load and clean energy resource balancing—in addition to providing clean mobility solutions for Hawaii residents.

House Bill 1845 provides additional funding to help overcome a key barrier to EV adoption: the lack of adequate EV charging infrastructure. The International Energy Agency has found that "the availability of chargers emerged as one of the key factors for contributing to the market penetration of EVs."<sup>3</sup> Unlike gasoline car owners, charging behavior for EV owners indicates that over 80% of EV drivers in the United States charge their cars at home.<sup>4</sup> Many Hawaii

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<sup>1</sup> DBEDT Monthly Energy Trends, December 2019, <http://dbedt.hawaii.gov/economic/energy-trends-2/>.

<sup>2</sup> *Id.*

<sup>3</sup> *Global EV Outlook 2017*, at 29, <https://www.iea.org/reports/global-ev-outlook-2017>.

<sup>4</sup> *Department of Energy*, <https://www.energy.gov/eere/electricvehicles/charging-home>.



residents, however, live in apartments and multi-unit residential buildings,<sup>5</sup> and the vast majority of parking facilities at these residential properties currently lack EV chargers. Moreover, the optimal time to charge an EV is during the day when renewable energy is abundant. Yet, there is a notable lack of charging options at workplaces and at publicly accessible locations.

In sum, Blue Planet supports House Bill 1845 because it would provide additional, much-needed funding to incentivize the installation and upgrade of EV charging stations at strategic locations across the state. By providing additional, much-needed funding for EV charger rebates, HB 1845 would accelerate Hawaii's transition away from fossil fuels by:

- Expanding EV charging options—and increasing consumer confidence in choosing an EV—for the many Hawaii residents that don't currently have access to charging at home or at work;
- Increasing the number of charging stations at publicly accessible locations and workplaces, thereby encouraging EV owners to charge during the day when renewable energy is more plentiful (and their cars are sitting idle);
- Sparking an increase in EV charging options for the tourism sector, as hotels, businesses, and popular tourist destinations utilize the rebate; and
- Boosting visitors' confidence in renting an EV, knowing that they'll have adequate options for charging during their stay on our islands.

Thank you for the opportunity to testify.

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<sup>5</sup> The 2017 American Community Survey estimated that more than one third of housing units in Hawaii are apartments. See *2017 American Community Survey*, searchable at <https://data.census.gov/>.



Email: [communications@ulupono.com](mailto:communications@ulupono.com)

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

**Ulupono Initiative supports HB 1845, Relating to the Electric Vehicle Charging Station Rebate Program.**

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 1845**, which appropriates additional funds to the electric vehicle charging system rebate program.

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 with sales growing by more than 25% in 2019, 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.

Lastly, as we experienced in our pilot rebate program last year and in talking with a variety of stakeholders, this rebate program significantly influences the installation of new charging equipment. We also understand that the initial market indication is that the existing funds will not last long. As such, continuing the funding of this rebate program is critical and directly supports the necessary EV infrastructure required to move Hawai'i toward a clean, renewable transportation future.

Thank you for this opportunity to testify.

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

*Investing in a Sustainable Hawai'i*



John Uekawa, President  
Dave Rolf, Executive Director

HADA Testimony in SUPPORT of HB1845  
RELATING TO THE ELECTRIC VEHICLE CHARGING STATION REBATE PROGRAM, APPROPRIATES  
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 appreciate the opportunity to offer SUPPORT for HB1845—a bill which appropriates funds for the electric vehicles charging systems rebate program.

HADA members respectfully request that the committee pass the bill and forward to the next Senate committee for further consideration.

Respectfully submitted,  
David H. Rolf  
For the members of the Hawaii Automobile Dealers Association

**HB-1845**

Submitted on: 1/29/2020 7:55:58 PM

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

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Present at Hearing</b>
David Mulinix	Our Revolution Hawaii	Support	No

Comments:

**HB-1845**

Submitted on: 1/29/2020 10:21:20 PM

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

**LATE**

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Present at Hearing</b>
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 1845.

Hawaii's transportation sector contributes more to the climate crisis than any other sector - it consumes two thirds of our fossil fuel imports. We must seek a more aggressive decarbonization of our transportation sector, particularly ground transport. Electric vehicles are zero/low emission (in the case of plug-in hybrids), easy and not costly to maintain, and superior in performance to gas cars.

In order to incentivize the purchase of electric vehicles, we must address adoption barriers. One such concern is the lack of electric charging stations. While availability has gradually been improving, our current EV charging infrastructure is still insufficient and is creating resistance to adoption.

While ACT 142 (2019) introduced a rebate program to incentivize the installation of public charging stations, the budget must be expanded – the 2019 budget would cover only about a dozen DC Fast Chargers.

HB1845 will enable the expansion of our public charging infrastructure and improve our speed of transition away from fossil fuel vehicles.

Please support HB1845.

Sincerely,

Noel Morin

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

808 987 7428



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183 Pinana St., Kailua, HI 96734 • 808-262-1285 • [info@350Hawaii.org](mailto: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 1845**

Dear Chair Lowen, Vice Chair Wildberger, and members:

350Hawaii.org strongly supports HB 1845.

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.

Electric vehicles (EVs) need to be incentivized in Hawaii. People won't buy EVs without their own charging system, which is expensive, or more public charging systems.

Rebates would make it far more possible and appealing to install charging systems, for both individuals and businesses.

HB 1845 would increase EV use throughout the state, something we desperately need.

Brodie Lockard  
Founder, 350Hawaii.org



**Hawaii Solar Energy Association**  
*Serving Hawaii Since 1977*

**TESTIMONY OF THE HAWAII SOLAR ENERGY ASSOCIATION  
IN REGARD TO HB1845, RELATING TO THE ELECTRIC VEHICLE  
CHARGING STATION REBATE PROGRAM  
BEFORE THE  
HOUSE COMMITTEE ON ENERGY AND ENVIRONMENTAL PROTECTION  
THURSDAY, FEBRUARY 30<sup>TH</sup>, 2020**

Chair Lowen, Vice-Chair Wildberger, and members of the committee, my name is Will Giese and I represent the Hawaii Solar Energy Association, Inc. (HSEA).

HSEA **supports** HB 1845 and provides comments. This measure appropriates funds for the electric vehicles charging systems rebate program

HSEA membership includes several EV and EV charger manufacturers, installers, and developers. In addition, many HSEA members that install photovoltaics, batteries, and other renewable energy equipment also install and provide maintenance on EV chargers, both residentially and commercially. As an organization, we believe that reaching 2045 RPS goals and decarbonizing Hawaii will be easier through total electrification of the utility and transportation sectors, and that this transition will result in a cost savings for the average resident of the state.

The HSEA has a history of supporting EV charging policies, most recently Bill 25 at the City and County of Honolulu, which mandates a certain percentage of parking stalls be required to have EV chargers. One of the biggest barriers to EV adoption by renters is access to EV chargers, and rebate programs like this will help break that barrier down.

We **support** HB 1845 and we urge this committee to pass this measure. Thank you for the opportunity to testify.





**Hawaiian  
Electric**

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

**HB 1845**

**Relating to Electric Vehicle Charging Station Rebate Program**

Thursday, January 30, 2020

8:30AM Agenda #11

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 **strong support** of H.B. 1845, Relating to the Electric Vehicle Charging Station Rebate Program.

The stated purpose of this bill is to provide additional funds to the Electric Vehicle (EV) charging system rebate program. Hawaiian Electric applauds the State's continued and expanding acknowledgement that increased investments are needed across all sectors to successfully usher in a clean transportation transformation. In support of clean energy goals, both state and county policy mandate a transition away from imported fossil fuel in favor of alternative fuel, such as electricity, for ground transportation. The State's Mayors have agreed to support a 100% clean transportation future, which implicates the need to begin providing charging infrastructure now to support future demand.

Hawaiian Electric supports the urgent and growing need for EV charging infrastructure and deploying EV charging capability today will help to mitigate and otherwise avoid increased future expenses and lower barriers to the adoption of clean vehicles.<sup>1</sup> EVs are coming fast, the U.S. electric vehicle market is accelerating rapidly with nearly ten years of year-over-year sales growth.<sup>2</sup> In line with this trend, the future need for more EV charging stations on Oahu is significant. Hawaiian Electric's -- *Electric Vehicle Critical Backbone Study* forecasts that we will need seven-times more than currently available EV infrastructure by 2030 to support the demand.<sup>3</sup>

Hawaiian Electric supports the proliferation of zero-emission vehicles and recognize the importance and positive impact this bill can play. Hawaiian Electric has developed an EV strategy that acknowledges the need for more public and private charging for this nascent technology to truly proliferate. In fact, Hawaiian Electric has undertaken several efforts to support the adoption of electric vehicles, such as the development of a growing DC Fast Charger network, with over 17 locations across the Company's service territory, continued development of rates tailored for EV charging including for electric buses, and education and outreach.

Providing increased access to EV charging is a key priority identified in the Company's *Electrification of Transportation Strategic Roadmap*.<sup>4</sup> This bill will continue the tremendous progress that the state has made towards a cleaner and more

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<sup>1</sup> It is widely recognized that the lack of EV charging infrastructure is a significant barrier to adoption <https://www.cnbc.com/2019/05/08/aaa-says-americans-warm-to-electric-cars-but-most-arent-ready-to-buy.html>

<sup>2</sup>[https://www.eei.org/issuesandpolicy/electrictransportation/Documents/FINAL\\_EV\\_Sales\\_Update\\_April2019.pdf](https://www.eei.org/issuesandpolicy/electrictransportation/Documents/FINAL_EV_Sales_Update_April2019.pdf)

<sup>3</sup>[https://www.hawaiianelectric.com/documents/clean\\_energy\\_hawaii/electrification\\_of\\_transportation/2018-0135\\_20190730\\_cos\\_ev\\_backbone\\_study.pdf](https://www.hawaiianelectric.com/documents/clean_energy_hawaii/electrification_of_transportation/2018-0135_20190730_cos_ev_backbone_study.pdf)

<sup>4</sup> <https://www.hawaiianelectric.com/clean-energy-hawaii/electrification-of-transportation>

sustainable transportation future. As the largest provider of electric vehicle fast charging in the state, the Hawaiian Electric remain committed to an EV strategy that is sustainable and helps create a bridge to a cleaner future. Accordingly, the Hawaiian Electric supports H.B. 1845. Thank you for this opportunity to testify.

**HB-1845**

Submitted on: 1/28/2020 11:14:42 PM

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

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Present at Hearing</b>
Caroline Kunitake	Individual	Support	No

Comments:

Please support HB1845.

Mahalo,

Caroline Kunitake

**HB-1845**

Submitted on: 1/29/2020 8:20:09 AM

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

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Present at Hearing</b>
Jan Barosh	Individual	Support	No

Comments:

**HB-1845**

Submitted on: 1/29/2020 8:04:47 AM

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

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Present at Hearing</b>
Julie Stowell	Individual	Support	No

Comments:

**HB-1845**

Submitted on: 1/29/2020 6:06:27 AM

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

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Present at Hearing</b>
Lynn Aaberg	Individual	Support	No

Comments:

There must be more incentive to transition to Electric Vehicles. Right now, if a resident in North Kohala wishes to travel to Hilo and back, the charging stations are few and far between, and most are out of order. Even the stations in the state parking lots in Hilo were non operational at my last visit. This means that EV's cannot be used as a practical solution unless working charging stations are set up. Because most of our carbon pollution comes from transportation, the use of EV's is of utmost importance. Please support.

**HB-1845**

Submitted on: 1/29/2020 4:43:39 AM

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

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Present at Hearing</b>
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-1845**

Submitted on: 1/29/2020 12:39:37 AM

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

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Present at Hearing</b>
Phaethon Keeney	Individual	Support	No

Comments:

Please support HB1845, we need a rapid transition to clean transport (100% by 2030 according to UN IPCC 1.5C goals) and need to fund appropriately. Mahalo!

**HB-1845**

Submitted on: 1/29/2020 7:22:47 AM

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

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Present at Hearing</b>
Meredith Buck	Individual	Support	No

Comments:

I support this bill.

**HB-1845**

Submitted on: 1/28/2020 5:29:45 PM

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

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Present at Hearing</b>
Andrea Quinn	Individual	Support	No

Comments:

Dear Honorable Committee Members:

Please support HB1845. Funding for electric vehicle charging systems will have an enormous positive impact on Hawaii's carbon footprint.

Thank you for the opportunity to present my testimony.

Andrea Quinn

Kihei

**HB-1845**

Submitted on: 1/29/2020 9:03:48 AM

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

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Present at Hearing</b>
J Riverstone	Individual	Support	No

Comments:

**HB-1845**

Submitted on: 1/29/2020 9:33:17 AM

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

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Present at Hearing</b>
Janet Pappas	Individual	Support	No

Comments:

Dear Representatives,

Now that most new electric cars can travel more than 150 miles on a single charge, the lack of EV charging stations has become THE main roadblock to the purchase of an electric vehicle in Hawaii. This must be remedied if we are to reach our 100% renewable energy goal. Bill 1845 can be a major step in the right direction as it will incentivise more charging stations across the state. I support all efforts to put more EVs on our roads.

**HB-1845**

Submitted on: 1/29/2020 9:58:48 AM

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

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Present at Hearing</b>
Karen Shimizu	Individual	Support	No

Comments:

**HB-1845**

Submitted on: 1/29/2020 10:58:27 AM

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

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Present at Hearing</b>
ChristopherMcCullough	Individual	Support	No

Comments:

Please promote the use of electric vehicles, mahalo!

**HB-1845**

Submitted on: 1/29/2020 11:21:29 AM

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

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Present at Hearing</b>
Javier Mendez-Alvarez	Individual	Support	No

Comments:



**HB-1845**

Submitted on: 1/29/2020 3:11:16 PM

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

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Present at Hearing</b>
Stephanie Hall Morin	Individual	Support	No

Comments:

We need to broaden our charging infrastructure to encourage more people to transition to EVs.

**HB-1845**

Submitted on: 1/29/2020 4:00:33 PM

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

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Present at Hearing</b>
Chris Mentzel	Individual	Support	No

Comments:

**HB-1845**

Submitted on: 1/29/2020 7:24:13 PM

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

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Present at Hearing</b>
Sherry Pollack	Individual	Support	No

Comments:

**LATE**

**HB-1845**

Submitted on: 1/29/2020 7:30:26 PM

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

**LATE**

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Present at Hearing</b>
Linda Morgan	Individual	Support	No

Comments:

I strongly support HB 1845.

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.

Electric vehicles (EVs) need to be incentivized in Hawaii. People won't buy EVs without their own charging system, which is expensive, or more public charging systems.

Rebates would make it far more possible and appealing to install charging systems, for both individuals and businesses.

HB 1845 would increase EV use throughout the state, something we desperately need.

**LATE**

**HB-1845**

Submitted on: 1/30/2020 8:03:50 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 1845

Dear Chair Lowen, Vice Chair Wildberger, and members:

As the driver of an electric vehicle, I strongly support HB 1845.

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.

Electric vehicles (EVs) need to be incentivized in Hawaii. People won't buy EVs without their own charging system, which is expensive, or more public charging systems.

Rebates would make it far more possible and appealing to install charging systems, for both individuals and businesses.

HB 1845 would increase EV use throughout the state, something we desperately need.

Helen Raine



**LATE**

**HB-1845**

Submitted on: 1/30/2020 8:38:39 AM

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

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Present at Hearing</b>
Lana Rose Olson	Individual	Support	No

Comments: