

**OFFICE OF PLANNING
STATE OF HAWAII**

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DAVID Y. IGE
GOVERNOR

LEO R. ASUNCION
DIRECTOR
OFFICE OF PLANNING

Statement of
LEO R. ASUNCION
Director, Office of Planning
before the
HOUSE COMMITTEE ON FINANCE
Friday, February 23, 2018

2:00 PM
State Capitol, Conference Room 308

in consideration of
HB 2728, HD1
RELATING TO CLEAN ENERGY TRANSPORTATION.

Chair Luke, Vice Chair Cullen, and Members of the House Committee Finance.

The Office of Planning (OP) supports the intent of HB 2728, HD1, which establishes a Clean Transportation Initiative to reduce and ultimately eliminate the use of fossil fuels in all public ground transportation by 2035, and in all ground transportation thereafter, with a near term fossil fuel reduction target in 2025. It also requires the Department of Transportation to collaborate with the Department of Business, Economic Development, and Tourism to achieve the goals of the Clean Transportation Initiative.

OP agrees with the proposed amendments to Section 226-17, Hawaii Revised Statutes, to increase energy security and self-sufficiency through the reduction and ultimate elimination of the use of fossil fuels in all public ground transportation, however we defer to the Department of Transportation and State Energy Office regarding the new target benchmarks and fiscal/procedural implementations of achieving such benchmarks.

Thank you for the opportunity to testify on this matter.

OFFICE OF INFORMATION PRACTICES

STATE OF HAWAII
NO. 1 CAPITOL DISTRICT BUILDING
250 SOUTH HOTEL STREET, SUITE 107
HONOLULU, HAWAII 96813
TELEPHONE: 808-586-1400 FAX: 808-586-1412
EMAIL: oip@hawaii.gov

To: House Committee on Finance

From: Cheryl Kakazu Park, Director

Date: February 23, 2018, 2:00 p.m.
State Capitol, Conference Room 308

Re: Testimony on H.B. No. 2728, H.D. 1
Relating to Clean Energy Transportation

Thank you for the opportunity to submit testimony on this bill, which would establish a Clean Transportation Initiative. The Office of Information Practices (“OIP”) takes no position on the substance of this bill, but is testifying to **recommend a technical amendment** to a provision specifying that the Clean Ground Transportation Forum is not subject to the Sunshine Law.

It does not appear that the Clean Ground Transportation Forum would be a meeting of a board subject to the Sunshine Law in any event, so OIP does not have concerns about specifically stating that it is not subject to the Sunshine Law. However, the Sunshine Law is only part I of chapter 92, HRS, whereas this bill (at page 5, lines 1-3) exempts the Forum from all of chapter 92, including miscellaneous provisions on copy fees for government records and general powers of boards. **A Sunshine Law exemption should be from “part I of chapter 92” only, so OIP recommends that the reference to “chapter 92” on page 5, line 3, be replaced with “part I of chapter 92.”**

Thank you for the opportunity to testify.



SanHi

GOVERNMENT STRATEGIES
A LIMITED LIABILITY LAW PARTNERSHIP

DATE: February 22, 2018

TO: Representative Sylvia Luke
Chair, Committee on Finance
Submitted Via Capitol Website

RE: **H.B. 2728, H.D. 1 – Relating to Clean Energy Transportation**
Hearing Date: Friday, February 23, 2018 at 2:00 p.m.
Conference Room: 308

Dear Chair Luke and Members of the Committee on Finance:

On behalf of the Alliance of Automobile Manufacturers (“Alliance”), we submit this testimony regarding H.B. 2728, H.D. 1. The Alliance is a trade association of twelve car and light truck manufacturers including BMW Group, Fiat Chrysler Automobiles, Ford Motor Company, General Motors Company, Jaguar Land Rover, Mazda, Mercedes-Benz USA, Mitsubishi Motors, Porsche, Toyota, Volkswagen Group of North America, and Volvo Car USA.

The Alliance supports efforts to increase the penetration of alternative fuel vehicles and to increase the availability of supporting infrastructure. Automobile manufacturers have invested heavily in the research and development of alternative fuel vehicles. Alliance members will be investing \$100B in electrification between now and 2025.

An increase in electric vehicles also requires a corresponding increase in the number of charging stations. Generally, 1 charging station is necessary for every 10 electric vehicles in the State. While the Alliance fully supports and moves towards electrification, cooperation among all stakeholders will be necessary to ensure a smooth transition to electric vehicles.

Thank you for the opportunity to testify on this measure.



To: The House Committees on Finance
From: Brodie Lockard, 350Hawaii.org, 808-262-1285
Date: Friday February 23, 2018

In strong support of HB 2728

Dear Chair Luke, Vice Chair Cullen and Committee members--

I am the founder of the Hawaii chapter of 350.org, the largest international organization dedicated to fighting climate change. 350Hawaii.org strongly supports HB 2728.

As of January 2018 there were 6,748 passenger electric vehicles in the state, out of 1,062,518 total registered passenger vehicles, or an anemic 0.64 percent [1]. We should be doing everything we can to increase that percentage.

The transportation sector uses almost two-thirds of all petroleum consumed in Hawaii [2]. This bill will greatly reduce Hawaii's greenhouse gas emissions.

Beyond the obvious advantage of reducing greenhouse gases, zero-emission vehicles (ZEVs) provide many benefits:

ZEVs have lower maintenance costs because there are usually fewer fluids to change and far fewer moving parts. They have lower fuel costs, and many charging stations here are free. Even at today's low gas prices, charging an electric vehicle on the typical residential rate may save about 35 percent of fuel costs, compared to a similar-sized gasoline-powered sedan [3].

The prices of ZEVs and replacement batteries continue to drop, while the number of available ZEV models continues to increase. The charging time of ZEVs continues to fall, while their range and the number of charging stations in the State continues to climb.

ZEVs get free parking in state and municipal lots and street spaces, plus access to high-occupancy lanes with only a driver on board.

Please support HB 2728. It will go very far toward making our clean energy goals a reality.

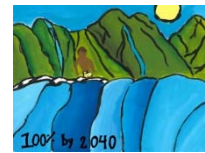
Thank you for the opportunity to testify.

[1] http://files.hawaii.gov/dbedt/economic/data_reports/energy-trends/Energy_Trend.pdf

[2] <https://www.eia.gov/state/analysis.php?sid=HI>

[3] <https://www.hawaiianelectric.com/clean-energy-hawaii/electric-vehicles>

Brodie Lockard
Founder, 350Hawaii.org



HOUSE COMMITTEE ON FINANCE

February 23, 2018, 2:00 P.M.

Room 308

(Testimony is 2 pages long)

TESTIMONY IN STRONG SUPPORT OF HB 2728 HD1

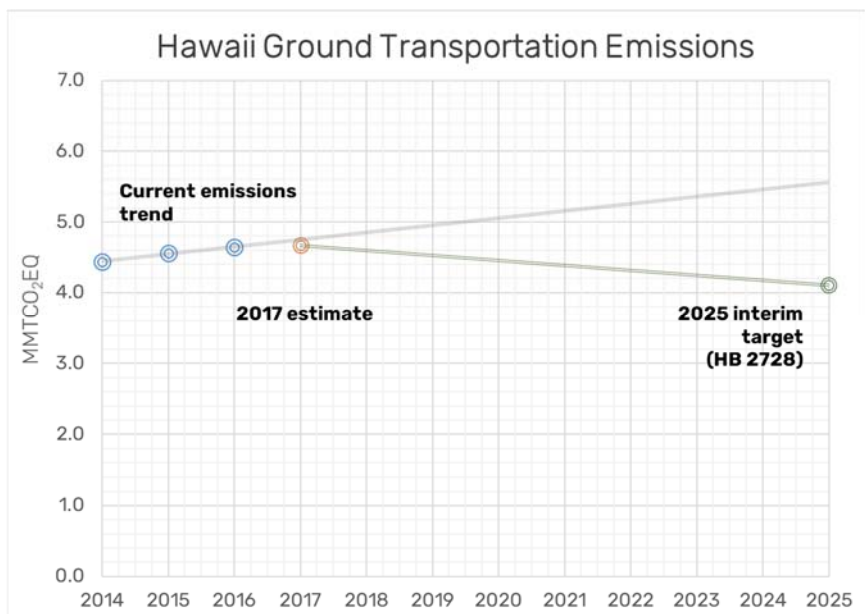
Aloha Chair Luke, Vice Chair Cullen, and Committee members:

Blue Planet Foundation **strongly supports** HB 2728 HD1, establishing a Hawaii clean transportation initiative within the Department of Transportation. This bill will help to promote alignment and collaboration in ongoing and future planning efforts for multiple aspects of the state’s transportation energy sector.

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. What’s worse, while Hawaii has made good progress in reducing its carbon emissions from the electricity sector, emissions from ground transportation have been increasing in recent years.

This, in part, inspired **the mayors from all four of Hawaii’s counties in December, 2017, to pledge to transform ground transportation to 100 percent renewable fuel by 2045**. The purpose of their action was to set a vision for clean, modern mobility options for all. This goal is necessary and achievable. **The state should support these county goals with a complementary initiative to coordinate stakeholders and planning across the islands.**

Registrations of electric vehicles (EVs)—one form of increasingly clean transportation—in Hawaii are growing faster than any other type of vehicle. State records show that EV registrations grew by 14% in 2016 while gas vehicle registrations dropped. In the past three years, the percentage of electric vehicles on our roadways grew 113% while gas cars dropped 5%. If those trends hold, electric vehicles will dominate within a couple of decades—well before the 2045 goal.



There is every reason to believe these trends will accelerate. Nearly all automakers are moving to electric drivetrains for some or all of their vehicles. Toyota just announced that they will provide an electric option of every model they sell by 2025. In October, General Motors announced it is working to create an “all-electric future” and will develop 20 new electric models by 2023. Ford has committed to 13 new electric vehicles by 2023. Mercedes-Benz plans to electrify its entire portfolio by 2022, offering 50 electric and hybrid models. Volvo is going completely electric by 2019, and Volkswagen will have 300 EV or hybrid models by 2030.

While it's true that it will take some years to turn over the existing fleet of private vehicles that residents own, few of the cars on Hawaii's roads today will still be operating in three decades. The economics, comfort, and superiority of electric vehicles will win.

But it's critical that we manage this transition to clean transportation wisely. Electric vehicles and other forms of clean transportation can be an asset or a liability to our broader energy systems—how they are deployed makes the difference. A statewide clean transportation initiative will play a key role in managing that deployment. Coordination, smart policies, programs, and infrastructure are needed to enable everyone to make the change to cleaner transportation.

Many electric vehicles are already more affordable to own and operate than gas vehicles due to the fuel and maintenance cost savings. As manufacturing scales up, prices of electric vehicles continue to fall. Bloomberg Energy Finance projects that initial sale prices for new electric vehicles will be comparable with gas cars by 2022, and Merrill Lynch analysts expect it to happen by 2024.

The shared vision for 100 percent clean transportation isn't just about electric vehicles. Many vehicles today can use renewable alternative fuels such as locally produced biofuels and biodiesel. It also means more walking, biking, and public transportation opportunities—hallmarks of livable communities.

With the mayors' proclamations last December, Hawaii joined the ranks of several countries who have also recognized that fossil fuel-powered ground transportation needs to end. **Both France and Britain have set a target phasing out the sale of new gas cars by 2040.** India set a similar goal for 2030. Belgium, Sweden, and Norway are developing policies to do the same. Earlier this year, China announced plans to electrify its entire vehicle fleet.

These countries recognize the environmental imperative for setting long-term transportation policies. Here, policy is key, as the market fails to account for the environmental and social cost of carbon pollution from vehicles today.

A century ago, Hawaii moved quickly from horse-driven carriage to cars. Now, with a statewide concerted effort, we can put climate changing fossil fuels in our rearview mirror.

We respectfully ask that the Finance Committee advance HB 2728 HD1 amended to take effect upon approval.

Thank you for the opportunity to testify.

HB-2728-HD-1

Submitted on: 2/21/2018 11:16:59 PM

Testimony for FIN on 2/23/2018 2:00:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Jun Shin	Young Progressives Demanding Action - Hawaii	Support	No

Comments:



Email: communications@ulupono.com

HOUSE COMMITTEE ON FINANCE
Friday, February 23, 2018 — 2:00 p.m. — Room 308

Ulupono Initiative Strongly Supports HB 2728 HD 1, Relating to Clean Energy Transportation

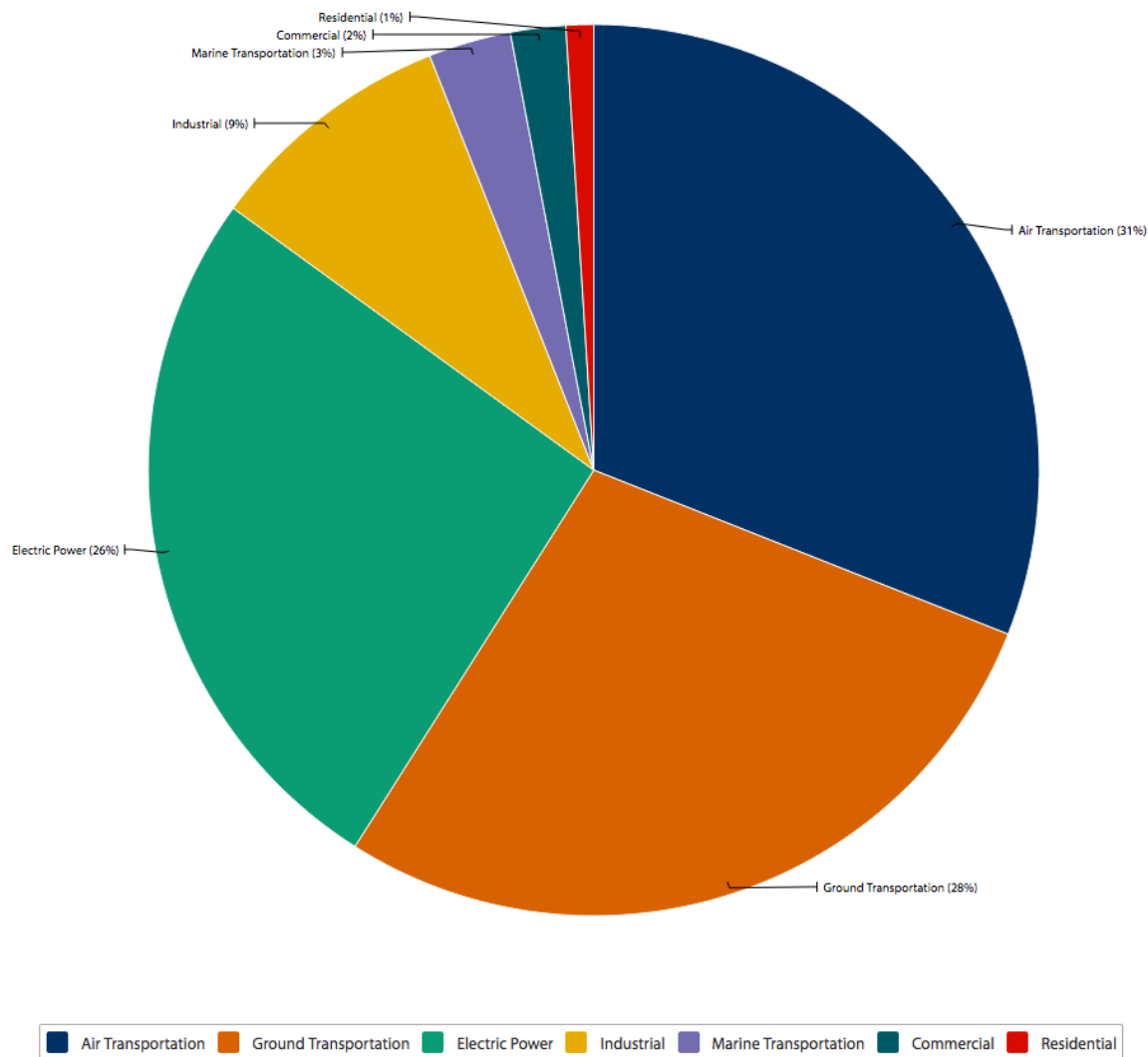
Dear Chair Luke, Vice Chair Cullen, and Members of the Committee:

My name is Murray Clay and I am Managing Partner of the Ulupono Initiative, a Hawai'i-based impact investment firm that strives to improve the quality of life for the people of Hawai'i by working toward solutions that create more locally produced food; increase affordable, clean, renewable energy; and better management of waste and fresh water. Ulupono believes that self-sufficiency is essential to our future prosperity and will help shape a future where economic progress and mission-focused impact can work hand in hand.

Ulupono strongly supports HB 2728 HD 1, which establishes a clean transportation initiative, because it aligns with our goal of increasing the production of clean, renewable energy in Hawai'i.

In Hawai'i, while ~25 percent of electricity generation is renewable energy, less than 1 percent of energy use in transportation is renewable. Meanwhile, the transportation sector requires more energy than the electricity sector. Furthermore, about 28 percent of the state's primary energy usage is due to ground transportation, such as cars and trucks, which rely almost exclusively on imported fossil fuels for its energy. Electrifying ground transportation is presently the most efficient and impactful way to move transportation toward more renewable energy.

Investing in a Sustainable Hawai'i



Yet, to fundamentally change the transportation sector from an imported fossil fuel based system to a renewable fueled sector is a monumental task. It will require leadership, collaboration, public support, financing, and patience with diligence. From prior experience working to make the electricity sector more renewable, it was extremely helpful that the State set goals and targets so that the public and private sector could work together to set goals and strategies to achieve them.

Aspirational goals are important to change mindsets and actions. For example, Hawaiian Electric’s goal of 70 percent renewable electricity generation by 2030 was considered impossible at the time it was proposed, but now it is on the path to meet that ambitiously aspirational goal.

Since the transportation sector currently does not have goals, it has been difficult to bring all of the necessary stakeholders together and work on a common blueprint. The State is also the only authority with enough power to set the necessary statewide transportation



targets and motivate key stakeholders to work toward a common goal.

This bill is an important first step for Hawai'i to continue to reduce to dependence on imported fossil fuels.

As Hawai'i's energy issues become more complex and challenging, we appreciate this committee's efforts to look at policies that support renewable energy production.

Thank you for this opportunity to testify.

Respectfully,

Murray Clay
Managing Partner

Hawaii BioEconomy Trade Organization

HOUSE OF REPRESENTATIVES / HAWAII STATE SENATE
THE TWENTY-NINTH LEGISLATURE
REGULAR SESSION OF 2018

COMMITTEE ON FINANCE
Rep. Sylvia Luke, Chair, Chair
Rep. Ty J.K. Cullen, Vice Chair

DATE: February 23, 2018
TIME: 2:00pm
PLACE: Conference Room 308
State Capitol
415 South Beretania Street

TESTIMONY ON HOUSE BILL NO. 2728 HD1, RELATING TO CLEAN ENERGY TRANSPORTATION

Position: Support with Recommendations

To the Honorable Rep. Sylvia Luke, Chair; the Honorable Rep. Ty J.K. Cullen, Vice Chair; and Members of the Committee:

Thank you for the opportunity to provide written testimony on House Bill No. 2728 HD1.

The Hawaii Bioeconomy Trade Association (HBeTO) is a newly forming non-profit trade association with members engaged in the production or development of integrated food, energy, and waste-re-use projects to help the State of Hawai'i meet its ambitious renewable energy and local food production goals and mandates. At the 3rd Annual Bioeconomy Hawaii Forum held at the Capitol in January 2018, a maximum-capacity group of over 120 attendees from the private, public, and non-profit sectors convened to discuss opportunities and challenges to sustainable business producing integrated food, energy, and value-added products in Hawaii and to vote on priorities for policy and industry standards and facilitation.

We give testimony in support for HB2728HD1. However, with strong recommendation towards including both Air and Marine Transportation in the overall goal. When we consider the complete energy and fuel supply/consumption stack we must consider all sectors and not merely one. 33% of the fuel consumed statewide goes to air transportation, with another 28% going to marine consumption. We suggest a more holistic approach to these energy security concerns so that we may transition more deliberately and not cause unintended stress by the destabilizing nature of displacing specific segments of an otherwise integrated and balanced energy system.

CAAFI, Alaska Airlines and many other stakeholders have committed to alternative fuel sources. We can, once again, provide the global leadership as a State as we holistically address our peculiar energy needs.

Many thanks for your time and consideration

Carl Campagna
Executive Director
Hawaii Bioeconomy Trade Organization
808-383-7699
Ccampa1@msn.com



Hawai`i Interfaith Power and Light

A religious response to global warming



To: The Committee on Finance (FIN)
From: Hawaii Interfaith Power & Light (HIPL)
Date: Friday, February 23, 2018
Time: 2:00 P.M
Place: Conference Room 308, State Capitol, 415 South Beretania Street

Re: Support for HB2728 HD1, Relating to Clean Energy Transportation.

Aloha e Chair Luke, Vice Chair Cullen, and Members of the Committee on Finance,

My name is Steve Lohse, I'm an environmental scientist and Legislative Liaison for Hawaii Interfaith Power & Light (HIPL). HIPL's interfaith community affirms and promotes responsible policy and effective action on energy and climate change. On behalf of HIPL, thank you for this opportunity to submit **Testimony in Support of HB2728 HD1** for the following reasons:

(1) Hawaii commits by law to recognize the need to reduce reliance on fossil fuels, to consider levels and effects of greenhouse gas emissions, and to transition away from imported fuels and toward renewable local resources that provide secure and affordable energy. Please, do everything in your power at every opportunity to **establish 100% clean and renewable energy for Hawaii without delay.**

(2) Fossil fuels will continue to decrease security and increase economic and environmental costs, both globally and locally, until Hawaii is fossil free. The cost of doing nothing far outweighs the cost of our transition to a fossil-free society! As quickly as possible, **please eliminate the use of fossil fuels from all ground transportation.**

(3) Please make it as easy as possible for all transportation stakeholders to engage, but **please hold all stakeholders accountable** for their responsibilities under this Clean Transportation Initiative.

With a sense of urgency for the effective stewardship of our community, our economy, and our environment, we rely on your leadership to help transition Hawaii to secure, affordable, 100% clean and renewable transportation energy without delay. As always, thank you for all that you do!

Aloha no,
Hawaii Interfaith Power & Light (HIPL)
Steve Lohse, HIPL Legislative Liaison, 808-499-5406, lohse@hawaii.edu

HIPL embraces the following goals:

- *raise awareness of the deeply spiritual nature of energy and climate challenges;*
- *advocate energy policies that promote conservation, efficiency, and renewables;*
- *provide inspiration, resources, leadership, and education for effective community action.*



HB2728 HD1

DOT; DBEDT; Renewable Energy; Clean Transportation Initiative

February 23, 2018, 2:00pm

RELATING TO CLEAN GROUND TRANSPORTATION

Aloha Chair Luke, Vice Chair Cullen, and member of the committee. My name is Maxim Poudrier-Tudan and I am with the Sierra Student Coalition at the University of Hawaii at Manoa. The Sierra Student Coalition stands in support of HB2728 HD1 relating to clean ground transportation.

This bill is so important to insure the well-being of the Hawaiian Islands, and the entire planet itself. As the representative for the Sierra Student Coalition I am highly concerned with the state of the planet that I am succeeding from my predecessors, especially in the way in which transportation currently burns through fossil fuels, while emitting harmful gases into the air we breathe. By achieving this goal of total renewable ground transportation, this bill would drastically reduce the pollutants in the air in which I and my children in the future will be breathing. This state is one of the most beautiful places in the world, and it sickens me to see the smog level rising from an issue that is so easily fixed.

Another major issue is that of the planet. With global temperatures at an all-time high, and 2017 being the hottest year on record, it is apparent that there is a problem that needs to be fixed. Hawaii is seen as a leader in environmental progression for the entirety of the Nation, putting in place a bill that will help reduce air pollution state wide will set the stage for other states to follow in this direction, and push for more policies that will combat the deadly effects of climate change.

Thank you for the opportunity to testify.

HB-2728-HD-1

Submitted on: 2/22/2018 1:50:42 PM

Testimony for FIN on 2/23/2018 2:00:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Melodie Aduja	OCC Legislative Priorities Committee, Democratic Party of Hawaii	Support	No

Comments:

HB-2728-HD-1

Submitted on: 2/21/2018 7:37:00 PM

Testimony for FIN on 2/23/2018 2:00:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
B.A. McClintock	Individual	Support	No

Comments:

-I strongly support HB2728 HD1. Climate scientists agree we have a much better future in store for us if we act quickly and with earnest to make significant changes, and it all comes down to reducing greenhouse gas emissions. HB2728HD1 helps us take the bold action needed by addressing a very significant source of greenhouse gas emissions produced by our state.

HB-2728-HD-1

Submitted on: 2/21/2018 8:13:10 PM

Testimony for FIN on 2/23/2018 2:00:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
John Nix	Individual	Support	No

Comments:

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-We must take bold action and do everything possible to combat climate change before we reach the tipping point. Addressing greenhouse gas emissions from our transportation sector must be part of those efforts. The transportation sector uses almost two-thirds of all petroleum consumed in Hawaii. Please support this bill.

-As of January 2018 there were 6,748 passenger electric vehicles in the state, out of 1,062,518 total registered passenger vehicles, or an anemic 0.64 percent [1]. We should be doing everything we can to increase that percentage.

-The transportation sector uses almost two-thirds of all petroleum consumed in Hawaii. This bill will greatly reduce Hawaii's greenhouse gas emissions.

-Beyond the obvious advantage of reducing greenhouse gases, zero-emission vehicles (ZEVs) provide many benefits:

The prices of ZEVs and replacement batteries continue to drop, while the number of available ZEV models continues to increase.

ZEVs have lower maintenance costs because there are usually fewer fluids to change and far fewer moving parts.

ZEVs have lower fuel costs, and many charging stations here are free. Even at today's low gas prices, charging an electric vehicle on the typical residential rate may save about 35 percent of fuel costs, compared to a similar-sized gasoline-powered sedan [3].

The charging time of ZEVs continues to fall, while their range and the number of charging stations in the State continues to climb.

ZEVs get free parking in state and municipal lots and street spaces, plus access to high-occupancy lanes with only a driver on board.

- [1] http://files.hawaii.gov/dbedt/economic/data_reports/energy-trends/Energy_Trend.pdf
- [2] <https://www.eia.gov/state/analysis.php?sid=HI>
- [3] <https://www.hawaiianelectric.com/clean-energy-hawaii/electric-vehicles>

HB-2728-HD-1

Submitted on: 2/21/2018 8:39:51 PM

Testimony for FIN on 2/23/2018 2:00:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Patricia Blair	Individual	Support	No

Comments:

HB-2728-HD-1

Submitted on: 2/21/2018 10:03:26 PM

Testimony for FIN on 2/23/2018 2:00:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Jonathan Boyne	Individual	Support	No

Comments:

I strongly support HB2728 HD1. Climate scientists agree we have a much better future in store for us if we act quickly and with earnest to make significant changes, and it all comes down to reducing greenhouse gas emissions. HB2728HD1 helps us take the bold action needed by addressing a very significant source of greenhouse gas emissions produced by our state.

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HB-2728-HD-1

Submitted on: 2/21/2018 10:37:25 PM

Testimony for FIN on 2/23/2018 2:00:00 PM

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

Comments:

I strongly support HB2728 HD1. Climate scientists agree we have a much better future in store for us if we act quickly and with earnest to make significant changes, and it all comes down to reducing greenhouse gas emissions. HB2728 helps us take the bold action needed by addressing a very significant source of greenhouse gas emissions produced by our state.

HB-2728-HD-1

Submitted on: 2/21/2018 10:39:17 PM

Testimony for FIN on 2/23/2018 2:00:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Samuel John	Individual	Support	No

Comments:

Clean energy transportation is a must so please pass this bill to assist in getting on with it. Aloha.

HB-2728-HD-1

Submitted on: 2/22/2018 3:30:31 AM

Testimony for FIN on 2/23/2018 2:00:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Michael Reed Gach	Individual	Support	No

Comments:

Please -- I urge you to support this bill for clean energy transportation.
This is the healthy wave of the future and Hawaii deserves it.

Michael Reed Gach, Ph.D.

HB-2728-HD-1

Submitted on: 2/22/2018 7:30:17 AM

Testimony for FIN on 2/23/2018 2:00:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Carolynn Bell-Tuttle	Individual	Support	No

Comments:

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[1] http://files.hawaii.gov/dbedt/economic/data_reports/energy-trends/Energy_Trend.pdf

[2] <https://www.eia.gov/state/analysis.php?sid=HI>

[3] <https://www.hawaiianelectric.com/clean-energy-hawaii/electric-vehicles>

HB-2728-HD-1

Submitted on: 2/22/2018 7:43:46 AM

Testimony for FIN on 2/23/2018 2:00:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Jordan Moniuszko	Individual	Support	No

Comments:

--I strongly support HB2728 HD1. Climate scientists agree we have a much better future in store for us if we act quickly and with earnest to make significant changes, and it all comes down to reducing greenhouse gas emissions. HB2728HD1 helps us take the bold action needed by addressing a very significant source of greenhouse gas emissions produced by our state.

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HB-2728-HD-1

Submitted on: 2/22/2018 9:02:36 AM

Testimony for FIN on 2/23/2018 2:00:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Mary Lacques	Individual	Support	No

Comments:

HB-2728-HD-1

Submitted on: 2/22/2018 9:15:30 AM

Testimony for FIN on 2/23/2018 2:00:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Severine Busquet	Individual	Support	No

Comments:

Hi,

I strongly support HB2728 HD1. Climate scientists agree we have a much better future in store for us if we act quickly and with earnest to make significant changes, and it all comes down to reducing greenhouse gas emissions. HB2728HD1 helps us take the bold action needed by addressing a very significant source of greenhouse gas emissions produced by our state.

Thanks for your attention

Severine

HB-2728-HD-1

Submitted on: 2/22/2018 9:57:00 AM

Testimony for FIN on 2/23/2018 2:00:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Taurie Kinoshita	Individual	Support	No

Comments:

I strongly support HB2728 HD1. Climate scientists agree we have a much better future in store for us if we act quickly and with earnest to make significant changes, and it all comes down to reducing greenhouse gas emissions. HB2728HD1 helps us take the bold action needed by addressing a very significant source of greenhouse gas emissions produced by our state.

We must take bold action and do everything possible to combat climate change before we reach the tipping point. Addressing greenhouse gas emissions from our transportation sector must be part of those efforts. The transportation sector uses almost two-thirds of all petroleum consumed in Hawaii. Please support this bill.

HB-2728-HD-1

Submitted on: 2/22/2018 10:03:14 AM

Testimony for FIN on 2/23/2018 2:00:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Dana Jenkins	Individual	Support	No

Comments:

I strongly support HB2728 HD1. Climate scientists agree we have a much better future in store for us if we act quickly and with earnest to make significant changes, and it all comes down to reducing greenhouse gas emissions. HB2728HD1 helps us take the bold action needed by addressing a very significant source of greenhouse gas emissions produced by our state.

Beyond the obvious advantage of reducing greenhouse gases, zero-emission vehicles (ZEVs) provide many benefits:

The prices of ZEVs and replacement batteries continue to drop, while the number of available ZEV models continues to increase.

ZEVs have lower maintenance costs because there are usually fewer fluids to change and far fewer moving parts.

ZEVs have lower fuel costs, and many charging stations here are free. Even at today's low gas prices, charging an electric vehicle on the typical residential rate may save about 35 percent of fuel costs, compared to a similar-sized gasoline-powered sedan.

The charging time of ZEVs continues to fall, while their range and the number of charging stations in the State continues to climb.

ZEVs get free parking in state and municipal lots and street spaces, plus access to high-occupancy lanes with only a driver on board.

We must take bold action and do everything possible to combat climate change before we reach the tipping point. Addressing greenhouse gas emissions from our transportation sector must be part of those efforts. The transportation sector uses almost two-thirds of all petroleum consumed in Hawaii. Please support this bill.

HB-2728-HD-1

Submitted on: 2/22/2018 10:40:50 AM

Testimony for FIN on 2/23/2018 2:00:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Benton Kealii Pang, Ph.D.	Individual	Support	No

Comments:

HB-2728-HD-1

Submitted on: 2/22/2018 10:56:49 AM

Testimony for FIN on 2/23/2018 2:00:00 PM

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

Comments:

HB-2728-HD-1

Submitted on: 2/22/2018 11:06:59 AM

Testimony for FIN on 2/23/2018 2:00:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Denise Boisvert	Individual	Support	No

Comments:

This is an island state with no oil rigs on land or on the horizon. Let's stop the dependency of fossil fuel imports - and at the same time eliminate the pollution that is inhaled by all who are near such vehicles. Please support HB-2728.

HB-2728-HD-1

Submitted on: 2/22/2018 11:14:01 AM

Testimony for FIN on 2/23/2018 2:00:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Merle Hayward	Individual	Support	No

Comments:

SUPPORT

HB-2728-HD-1

Submitted on: 2/22/2018 11:20:39 AM

Testimony for FIN on 2/23/2018 2:00:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Kim Jorgensen	Individual	Support	No

Comments:

I support HB-2728 because it is a good bill for the future; renewable energy in all forms is crucial for the survival of Hawaii and the planet.

HB-2728-HD-1

Submitted on: 2/22/2018 11:59:18 AM

Testimony for FIN on 2/23/2018 2:00:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Shannon Rudolph	Individual	Support	No

Comments:

Support

HB-2728-HD-1

Submitted on: 2/22/2018 1:43:46 PM

Testimony for FIN on 2/23/2018 2:00:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Sarah Toole	Individual	Support	No

Comments:

I strongly support this measure.

Sarah Toole

1128 Ala Napunani St 96818

UH Manoa Political Science student

HB-2728-HD-1

Submitted on: 2/22/2018 2:06:13 PM

Testimony for FIN on 2/23/2018 2:00:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Joan Gannon	Individual	Support	No

Comments:



LATE

TESTIMONY REGARDING HB 2728 HD1

**being heard by the House Committee on Finance
on Friday, February 23, 2018 at 2:00 p.m.
Room 308**

Aloha Chair Luke and Members of the Committee:

Thank you for the opportunity to provide testimony regarding HB 2728, which seeks to facilitate efforts to reduce and ultimately eliminate Hawaii's dependence on fossil fuels in the transportation sector. Our mission is to accelerate the world's transition to sustainable energy through our electric vehicles (EVs) and sustainable energy products Tesla supports establishing such a target as a means to drive near and long-term policy development, which will result in the type of progress in eliminating reliance on fossil fuels commensurate with challenge that ongoing dependency on fossil energy represents. Tesla also supports the bill's language regarding electric vehicles. As the bill recognizes, transitioning to EVs offer myriad benefits, including economic and public health benefits. Additionally, as Hawaii increasingly relies on renewable energy to meet its electrical needs, EVs have an important role to play in integrating these resources in the energy system.

Although Tesla supports this bill and the establishment of a clean transportation initiative as described therein, it should be noted there are a number of barriers that are clearly understood today which HB 2728 could be expanded to address. In particular, the State need not wait for the recommendations coming out of the envisioned clean transportation initiative before taking steps to address some of these well-understood barriers to electric vehicle adoption. Chief among these is limited access to EV charging. Particularly for those living in multi-unit dwellings, the absence of readily accessible charging greatly limits the willingness of residents to purchase or lease an electric vehicle, despite the many advantages that EVs offer relative to conventional vehicles.

Tesla is a proponent of the concept of "charge where you park" not "park where you charge". In other words, access to charging needs to be sufficiently ubiquitous so as not to require significant behavioral changes or additional burden on those adopting EVs. Addressing this will require significant investment in EV charging infrastructure, especially in locations such as parking structures where vehicles are typically parked for an extended period, like those facilities serving multi-unit dwellings and workplaces. By deploying level 2 charging infrastructure in these locations, as well as in commercial buildings, the State could significantly address one of the key barriers preventing more widespread adoption of EVs.

As Hawaii looks to address this issue, Tesla believes there is a significant role for the utilities. Notably in California, the State's investor owned utilities are in process of implementing multi-year plans through which the utilities are making significant investments in charging infrastructure to address the current gap in the amount of infrastructure necessary to both catalyze and support California's goal of having 5 million EVs on the state's roads by 2030 Tesla encourages the Legislature, the Hawaii Public Utilities Commission and the state's utilities to consider establishing a similar program here, for example, by



establishing a goal of deploying sufficient EV charging infrastructure to support 250,000 EVs on Hawaii's roads by 2045. This would provide a very strong policy signal and basis to determine the level of investment in charging infrastructure needed to facilitate the State's interest in driving mass adoption of EVs. Additionally, Tesla submits that there is also an important role for the state's building codes to be revised and account for the electrical capacity requirements required to support EV charging in new multi-unit and commercial buildings. EV charging infrastructure is significantly more cost-effective when deployed at the time of construction of an attached parking facility, rather than seeking to retrofit this infrastructure to an already built facility. For example, a study conducted by Energy Solutions and Pacific Gas and Electric Company prior to adopting building standard changes in San Francisco identified that installing EV infrastructure at the time of construction can be 64-75% less expensive than post construction retrofits¹. To that end, Tesla believes a prudent policy would be to modify existing building codes to require a minimum level of EV charging infrastructure to be deployed at the time of parking facility construction. Such regulation should be developed in consultation with the relevant planning commissions at both the state and county level, the Department of Business, Economic Development and Tourism, as well as the Department of Accounting and General Services.

Tesla believes these two initiatives, if meaningfully pursued, would significantly change the trajectory of EV adoption in Hawaii, by addressing one of the fundamental barriers that currently limits customer adoption.

Thank you for the opportunity to submit this testimony.

¹ Energy Solutions & Pacific Gas and Electric (November 2016), "Plug-in Electric Vehicle Infrastructure Cost-Effectiveness Report for San Francisco."

LATE

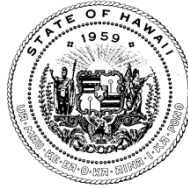
HB-2728-HD-1

Submitted on: 2/22/2018 4:05:26 PM

Testimony for FIN on 2/23/2018 2:00:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Laura Gray	Individual	Support	No

Comments:



Testimony by:
JADE T. BUTAY
INTERIM DIRECTOR

Deputy Directors
ROY CATALANI
ROSS M. HIGASHI
EDWIN H. SNIFFEN
DARRELL T. YOUNG

IN REPLY REFER TO:



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

February 23, 2018
11:00 a.m.
State Capitol, Room 325

H.B. 2728, H.D. 1
RELATING TO CLEAN ENERGY TRANSPORTATION.

House Committees on Finance

The Department of Transportation (DOT) offers **comments** on this bill which seeks to foster the State's transition to one hundred per cent clean ground transportation through a collaborative effort between the DOT and the Department of Business and Economic Development and Tourism (DBEDT), State Energy Office.

The DOT is committed, through its zero-emissions vehicle fleet replacement plan, to lead by example through measures that are operationally within the State's control. While public ground transportation has been more clearly defined, personal vehicles and industry motor fleets remain outside of DOT's jurisdiction.

The DOT facilitates discussions on this topic with the Sustainable Transportation Forum, which recognizes the dynamic challenges and complexities of even achieving the near-term benchmark of this bill (which consists of the development of a plan to be implemented from 2018 to 2035 to reduce and ultimately eliminate the use of fossil fuels in public ground transportation by 2035).

For the State to succeed, a framework and metrics that measures success is strongly suggested through a funded feasibility study which would also include true costs and vehicle availability as recommended by DBEDT. (While funding of a feasibility study will necessitate a budget allocation, we respectfully submit that such an allocation should not replace or adversely impact priorities indicated in the Executive Budget.)

Thank you for the opportunity to provide testimony.

LATE

HB-2728-HD-1

Submitted on: 2/22/2018 5:08:15 PM

Testimony for FIN on 2/23/2018 2:00:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Jennifer Milholen	Individual	Support	No

Comments:



LATE

Testimony of Jim Yates,
President of the Hawaii Petroleum Marketers Association

**OFFERING COMMENTS ON HB BILL 2728, HOUSE DRAFT 1,
RELATING TO CLEAN ENERGY TRANSPORTATION**

House Committee on Finance
The Honorable Sylvia Luke, Chair
The Honorable Ty Cullen, Vice Chair

Friday, February 23, 2018 at 2:00 p.m.
Hawaii State Capitol, Conference Room 308

Chair Luke, Vice Chair Cullen and Members of the Committee,

I am Jim Yates, President of the Hawaii Petroleum Marketers Association (“HPMA”). HPMA is a non-profit trade association comprised of members who directly market liquid motor fuel products across the Hawaiian Islands. Our membership includes individuals and companies who operate as independent marketers, jobbers or distributors of petroleum products and who buy liquid motor fuel products at the wholesale level and sell or distribute products to retail customers, other wholesalers, and other bulk consumers. HPMA’s primary purpose is to protect and advance its members’ legislative and regulatory interests in the Hawaiian Islands and Washington, DC.

HB 2728, HD 1 establishes a Clean Transportation Initiative to reduce and ultimately eliminate the use of fossil fuels in all public ground transportation by 2035, and in all ground transportation, with a near-term 2025 target benchmark.

HPMA notes that the cost of convening stakeholders, planning, conducting public outreach, and implementing solutions could be significant, but nowhere in the bill is there any estimate of cost or an appropriation for such activities.

With respect to both the near-term goal of achieving no less than 10% reduction in fossil fuel use in ground transportation by 2025, and eliminating fossil fuel use in all public ground transportation by 2035, HPMA believes these aggressive goals will be challenging for Hawaii to achieve. The fueling industry, with its expertise in refining and distribution of fuels, can add meaningfully towards these efforts. Therefore, we respectfully request to be included with other stakeholders in providing input and assisting with implementing changes to help the State achieve its goals.

Thank you for this opportunity to testify.

HB-2728-HD-1

Submitted on: 2/22/2018 8:00:21 PM

Testimony for FIN on 2/23/2018 2:00:00 PM

LATE

Submitted By	Organization	Testifier Position	Present at Hearing
Cory Harden	Individual	Support	No

Comments:

LATE

HB-2728-HD-1

Submitted on: 2/22/2018 8:28:07 PM

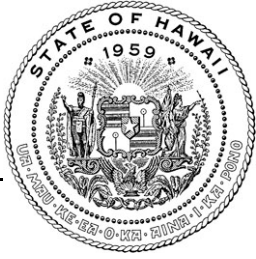
Testimony for FIN on 2/23/2018 2:00:00 PM

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

Comments:

I strongly support HB2728 HD1. Climate scientists agree we must act quickly and with earnest to make significant changes that will reduce greenhouse gas emissions. HB2728 HD1 helps us take the bold action needed by addressing a very significant source of greenhouse gas emissions produced by our state – the transportation sector. The transportation sector currently uses almost two-thirds of all petroleum consumed in Hawaii. We need to change that. Please support this bill.

Thank you for the opportunity to testify.



DEPARTMENT OF BUSINESS, ECONOMIC DEVELOPMENT & TOURISM

DAVID Y. IGE
GOVERNOR

LUIS P. SALAVERIA
DIRECTOR

MARY ALICE EVANS
DEPUTY DIRECTOR

No. 1 Capitol District Building, 250 South Hotel Street, 5th Floor, Honolulu, Hawaii 96813
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Fax: (808) 586-2377



Statement of
LUIS P. SALAVERIA
Director

Department of Business, Economic Development and Tourism
before the
HOUSE COMMITTEE ON FINANCE
Friday, February 23, 2018
2:00 p.m.
State Capitol, Conference Room 308

in consideration of
HB2728, HD1
RELATING TO CLEAN ENERGY TRANSPORTATION

Chair Luke, Vice Chair Cullen and Members of the Committee.

The Department of Business, Economic Development, and Tourism (DBEDT) offers **comments** on of HB2728, HD1 which focuses on reducing and ultimately eliminating the use of fossil fuels in all public ground transportation by 2035.

Focusing on converting public ground transportation to clean transportation is consistent with DBEDT's pursuit of near-term actions directly within the State's control. Eliminating fossil fuel in public ground transportation demonstrates the State's commitment to lead by example and is an essential step towards the de-carbonization of transportation in Hawaii. We offer the following **suggestions** for your consideration.

DBEDT notes that a feasibility study should be included in HB2728, HD1, to identify a framework for the State to achieve the 2035 goal based on real-world cost impacts and presently available vehicle technologies. Conducting a feasibility study in collaboration with the Department of Transportation and other relevant State agencies as well as the counties would help us understand the requirements of a 100% clean energy fleet conversion and develop realistic costs associated with the transition. Successful achievement of the goals of HB2728, HD1, requires groundwork by state departments in assessing feasibility. While funding of a feasibility study will necessitate a budget allocation, such allocation should not replace or adversely impact priorities indicated in our Executive Budget. Due to the need for a feasibility study, the implementation of a plan beginning in 2018 would be difficult to meet.

The near-term target benchmark of no less than 10% reduction in fossil fuel consumption in ground transportation by 2025 could be unrealistically aggressive and achieving the goal depends on factors outside the State's control. It would be beneficial to have a feasibility study, Forum discussions, and then the recommendation of an achievable benchmark from the Clean Ground Transportation Forum to better inform DBEDT's position on setting statutory benchmarks as identified in HB2728, HD1, Section 3, page 7, line 7. We note that a 10% reduction in fossil fuel consumption is roughly equivalent to 100,000 Electric Vehicles (EV) or 20% of all new vehicles sold in Hawaii through 2025 would need to be EVs. Hawaii is a national leader in EV adoption per capita however Hawaii's current EV market represents roughly 2% of annual vehicle sales in the state. The Clean Ground Transportation Forum could help identify varying positions and concerns, as well as, inform the contribution of additional strategies.

Thank you for the opportunity to provide DBEDT's comments on HB2728, HD1.