



Email: communications@ulupono.com

SENATE COMMITTEE ON WAYS & MEANS
Tuesday, February 19, 2019 — 9:30 a.m. — Room 211

Ulupono Initiative Strongly Supports SB 661 SD 1, Relating to Fuel Cell Electric Vehicles

Dear Chair Dela Cruz, Vice Chair Keith-Agaran, 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 manage waste and fresh water resources. 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 SB 661 SD 1, which categorizes hydrogen fuel-cell vehicles as electric vehicles and gives zero emission hydrogen vehicles the same benefits as electric vehicles, because it aligns with our goal of reducing Hawai'i's dependence on imported fossil fuels by increasing the use of more efficient, cleaner forms of ground transportation.

Hydrogen fuel-cell vehicles have been recently introduced to Hawai'i and are technically electric vehicles. These vehicles will provide another non-fossil fuel based transportation option for local consumers and similar societal benefits as battery electric vehicles. Providing hydrogen fuel-cell vehicle owners with the same benefits currently received by battery electric vehicles, high occupancy vehicle lane access, and free metered parking will help further their adoption.

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,

Murray Clay
Managing Partner

Investing in a Sustainable Hawai'i



SanHi

GOVERNMENT STRATEGIES

A LIMITED LIABILITY LAW PARTNERSHIP

DATE: February 17, 2019

TO: Senator Donovan Dela Cruz
Chair, Committee on Ways and Means

Submitted Via Capitol Website

FROM: Tiffany Yajima

RE: **S.B. 661, S.D.1 – Relating to Fuel Cell Electric Vehicles**
Hearing Date: Tuesday, February 19, 2019 at 9:30 a.m.
Conference Room: 211

Dear Chair Dela Cruz and Members of the Committee on Ways and Means:

We submit these comments on behalf of the Alliance of Automobile Manufacturers (“Alliance”). 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 is in support of S.B. 661, S.D.1, which would adopt in statute a definition of “fuel cell electric vehicle” to encourage early adoption of fuel cell electric vehicles. Automobile manufacturers have invested heavily in the research and development of hydrogen technology and are very supportive of efforts to increase the availability of passenger fuel cell electric vehicles in Hawaii.

Electric vehicles play an important role in achieving our energy and environmental goals. Today, there are 42 models of electric vehicles available nationwide, including 15 battery electric, 24 plug-in hybrid electric and 3 fuel cell electric models. By 2021, it is anticipated that at least 11 automakers will have hydrogen fuel cell vehicles available on the market. Additional policies such as HOV lane access and parking benefits that incentivize early adoption of fuel cell electric vehicles are critical to the adoption and deployment of these vehicles.

Thank you for the opportunity to submit comments in support of this measure.

LATE

SB-661-SD-1

Submitted on: 2/18/2019 9:35:08 AM

Testimony for WAM on 2/19/2019 9:30:00 AM

| Submitted By | Organization | Testifier Position | Present at Hearing |
|---------------------|--|---------------------------|---------------------------|
| Melodie Aduja | Testifying for O`ahu County Committee on Legislative Priorities of the Democratic Party of Hawai`i | Support | No |

Comments:

LATE

SB-661-SD-1

Submitted on: 2/18/2019 11:58:46 AM

Testimony for WAM on 2/19/2019 9:30:00 AM

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

Comments:

Dear Honorable Committee Members:

Please support SB661. Coral reefs are dying in large part to warming oceans, and valuable coastline is eroding due to sea level rise. Climate change is already occurring. Promoting the use of electric vehicles is an important step in mitigating global warming.

Thank you for the opportunity to present my testimony.

Andrea Quinn

Kihei



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Senator Donovan Dela Cruz, Chair
Senator Gilbert Keith-Agaran, Vice Chair
Committee on Ways and Means

RE: **SB 661 SD1 – Relating to Fuel Cell Electric Vehicles- In Support**
Tuesday, February 19, 2019; 9:30 AM; Conference room 211

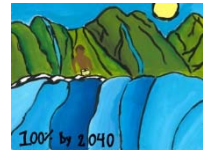
Aloha Chair Dela Cruz, Vice Chair Keith-Agaran and members of the committee,

Servco Pacific Inc. (“Servco”) appreciates this opportunity to submit testimony in **strong support** of SB 661 SD1, which expands the definition of electric vehicle to include a fuel cell electric vehicle and allows for fuel cell electric vehicles to be parked in designated electric vehicle parking spaces, among other things.

Servco introduced the Toyota Mirai fuel cell vehicle in 2016, making Hawaii the 2nd state in the U.S. to receive this zero emission vehicle. In 2018, Servco completed construction of the State’s first publicly accessible hydrogen fueling station. The station was funded solely by Servco. Producing hydrogen from water using a renewable source of electricity helps Hawaii become more self-reliant and reduces our dependency on imported oil.

By expanding the definition of an electric vehicle to include fuel cell electric vehicles, ensures Hawaii’s commitment to a diversified partnership between fuel cells, hybrids, and all-battery electric vehicles to drastically improve transportation efficiency and reduce carbon emissions in our State.

We respectfully request your support of SB 661 SD1. The passage of this measure will demonstrate Hawaii’s commitment to utilizing all clean transportation technology available to it to reach its clean energy goals. Thank you.



SENATE COMMITTEE ON WAYS AND MEANS

February 19, 2019, 9:30 A.M.

Room 211

(Testimony is 1 page long)



TESTIMONY IN SUPPORT OF SB 661

Aloha Chair Dela Cruz, Vice Chair Keith-Agaran, and Committee members:

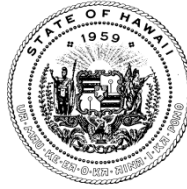
Blue Planet Foundation supports Senate Bill 661, which would extend certain priority considerations and incentives that are currently only available to battery electric vehicles to fuel cell electric vehicles. This bill would exempt fuel cell electric vehicles from payment of parking fees and high occupancy vehicle (HOV) lane restrictions, increase the priority to be placed on fuel cell electric vehicles for state and county entities purchasing new vehicles, and allow for fuel cell electric vehicles to be parked in designated electric vehicle parking spaces.

Blue Planet Foundation is a local, mission-driven nonprofit committed to clearing the path for 100% clean energy in Hawaii both in the electricity sector and the transportation sector. We recognize that to reach Hawaii's clean transportation goals and do our part in mitigating climate change, we should incentivize all zero-emission vehicles that can be powered by renewable energy—e.g., both fuel cell electric vehicles and battery electric vehicles. These technologies will help us to maximize renewables utilized on the electric grid and minimize petroleum use and emissions from our ground transportation sector.

Like battery electric vehicles, fuel cell electric vehicles are powered by an electric motor. In a fuel cell vehicle, pressurized hydrogen gas is chemically fused with oxygen from the air to make water, which in the process generates an electrical current that can power the electric motor. Just as battery electric vehicles will be increasingly powered by renewables as Hawaii reaches its 100% renewable portfolio standard by 2045, hydrogen vehicles can also get cleaner alongside them, as more hydrogen is produced by renewable energy resources.

Senate Bill 661 is important to ensure that fuel cell electric vehicles are part of the planning conversation around Hawaii's transition to 100% renewable ground transportation. This bill rightly expands incentives and benefits for zero-emission vehicles to more comprehensively encompass *all* zero-emission vehicles. Fuel cell electric vehicles have a vital role to play in Hawaii's clean transportation future, and they should receive the same ancillary benefits that are given to battery electric vehicles to spur adoption.

Thank you for the opportunity to testify.



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

February 19, 2019
9:30 A.M.
State Capitol, Room 211

S.B. 661
RELATING TO FUEL CELL ELECTRIC VEHICLES

Senate Committees on Ways and Means

The Department of Transportation (DOT) **supports with an amendment** S.B. 661 which amends the definition of electric vehicles to include fuel cell electric vehicles and grant procurement priority for fuel cell electric vehicles for State and County vehicle purchases.

While DOT believes that the incentives of this bill promotes sustainable transportation in meeting Hawaii's energy goals, we request SECTION 3 be revised to read as follows:

SECTION 3. Act 168, Session Laws of Hawaii 2012, is amended by amending section 2 to read as follows:

"SECTION 2. (a) The department of transportation may adopt rules pursuant to chapter 91, Hawaii Revised Statutes, for the registration of, and issuance of special license plates for, electric vehicles.

(b) An electric vehicle on which an electric vehicle license plate is affixed shall be exempt from payment of parking fees, including those collected through parking meters, charged by any state or county authority in this State, except that this exemption shall not apply:

- (1) For more than two and one-half hours of metered parking, or the maximum amount of time the meter allows, whichever is longer; or
- (2) For non-metered parking stalls, for any period longer than the initial four hours of use of the parking stall.
- (c) An electric vehicle on which an electric vehicle license plate is affixed shall be exempt from high occupancy vehicle lane restrictions.
- (d) For the purposes of this Act:

"Electric vehicle" means:

- (1) A neighborhood electric vehicle; [ø€]
- (2) A vehicle, with four or more wheels, that draws propulsion energy from a battery with at least four kilowatt hours of energy storage capacity that can be recharged from an external source of electricity [·-] ;
or
- (3) A fuel cell electric vehicle.

"Fuel cell electric vehicle" means a zero-emission electric vehicle that uses a fuel cell to convert hydrogen gas and oxygen into electricity that is used in a vehicle powertrain for propulsion."

This revision will address parking abuse and create fairness to all users of public parking facilities while still maintaining an incentive. Electric vehicle owners will also have better access to charging stations with the free parking time limit. Moreover, our proposed revision will help to support the costs to operate and maintain electric vehicle charging stations at public parking facilities.

Thank you for the opportunity to provide testimony.