# HAWAII STATE ENERGY OFFICE STATE OF HAWAII

DAVID Y. IGE GOVERNOR

SCOTT J. GLENN CHIEF ENERGY OFFICER

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## Testimony of SCOTT J. GLENN, Chief Energy Officer

### before the SENATE COMMITTEE ON JUDICIARY

Thursday, February 25, 2021 9:30 AM State Capitol, Via VIdeoconference

# in support of SB 934 RELATING TO MEASUREMENT STANDARDS.

Chair Rhoads, Vice Chair Keohokalole, and Members of the Committee, the Hawaii State Energy Office (HSEO) supports SB 934, which would allow for the sale of hydrogen fuel and remove concerns or questions about potential resources, staffing, or equipment needed for the Department of Agriculture to regulate the sale of hydrogen fuel.

Hydrogen has an important role to play in Hawaii's energy portfolio, as a carbonfree energy storage mechanism, potential means of providing grid support, and provider of pollution-free fuel for both electricity and transportation.

Measures such as this one, that remove barriers to the commercial use of hydrogen, are supportive of the mission of the HSEO, which is to promote energy efficiency, renewable energy, and clean transportation to help achieve a resilient, clean energy, decarbonized economy.

Thank you for the opportunity to testify in support of SB 934.



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#### **Executive Officers**

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Charlie Gustafson, Tamura Super Market, Vice Chair
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Paul Kosasa, ABC Stores, Advisor
Derek Kurisu, KTA Superstores, Advisor
Beau Oshiro, C&S Wholesale Grocers, Advisor
Toby Taniguchi, KTA Superstores, Advisor

TO:

Committee on Judiciary Senator Karl Rhoads, Chair Senator Jarrett Keohokalole, Vice Chair

FROM: HAWAII FOOD INDUSTRY ASSOCIATION

Lauren Zirbel, Executive Director

DATE: February 25, 2021

TIME: 9:30am

PLACE: Via Videoconference

RE: SB934 Relating to Measurement Standards

Position: Support

The Hawaii Food Industry Association is comprised of two hundred member companies representing retailers, suppliers, producers, and distributors of food and beverage related products in the State of Hawaii.

We support this measure to exempt hydrogen fuel from petroleum product measurement requirements. Diversifying our fuel options can help make our energy sector more flexible and resilient. We thank you for the opportunity to testify.

February 22, 2021

From: Hawaii Hydrogen Alliance

To: Chair Wakai, Chair Gabbard, and Members of the

Committees:





The Hawaii Hydrogen Alliance (HHA) is a member-based nonprofit organization advancing the development of 'green hydrogen' using local, renewable energy resources in Hawaii and throughout the Pacific. Our focus is awareness, project showcasing, and technology commercialization for our member companies. Hydrogen is used as a clean fuel in various places, whether for transportation, grid electricity, or for industrial applications. Green hydrogen brings lower emissions, increased technical jobs, higher grid-resiliency, and energy-efficiency benefits.

We <u>support</u> exemption from the existing measurement standards law because there is no measurement or certification system in place for hydrogen sales in Hawaii. The existing measurement standards are not applicable toward hydrogen and therefore it should be exempt from this law.

This will help to develop a new pathway for green hydrogen deployment in Hawaii through new clean energy standards that set the bar higher for emissions and fuel index. Applying a revolutionary fuel source to an old way of thinking does not allow for this resource to flourish in Hawaii.

Green hydrogen brings lower emissions, increased technical jobs, higher grid-resiliency, <u>and an interconnectedness of our energy, transportation, waste, and water systems to a degree that will improve our local economy and our natural environment.</u>

We urge the committees to pass SB 934/HB113 to help advance the hydrogen economy in Hawaii.

Mahalo,

Chuck Collins
Board Member
Hawaii Hydrogen Alliance
www.hawaiihydrogenalliance.com
admin@hawaiihydrogenalliance.com





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Senator Karl Rhoads, Chair Senator Jarrett Keohokalole, Vice Chair Committee on Judiciary

RE: SB 934 - Relating to Measurement Standards - In Support February 25, 2021; Via Videoconference; 9:30 a.m.

Aloha Chair Rhoads, Vice Chair Keohokalole and members of the committee:

Servco is in strong support of SB 934, which exempts hydrogen fuels from petroleum product measurement requirements.

The definition of fuel in the current law is broad and does not exclude hydrogen. Therefore, it implies that hydrogen must be sold on the basis of measure. There is currently no means for the State to measure and certify a hydrogen dispenser. The supporting infrastructure is not in place; technical expertise is needed and equipment needs to be imported. Servco's hydrogen fueling station in Mapunapuna was the first publicly accessible station in Hawaii.

SB 934 will help promote the development of more public hydrogen stations.

Thank you for the opportunity to submit comments in support of this measure. We ask for your favorable consideration in passing SB 934.

Peter Dames Executive Vice President



#### **SENATE COMMITTEE ON JUDICIARY**

February 25, 2021, 9:30 A.M. Video Conference

#### **TESTIMONY IN SUPPORT OF SB 934**

Aloha Chair Rhoads, Vice Chair Keohokalole, and members of the Committee:

Blue Planet Foundation **supports SB 934**, which exempts hydrogen fuels from measurement requirements. The current measurement law may inadvertently include hydrogen fuels—even if the hydrogen is not developed from petroleum or hydrocarbon feedstocks. This measure will remove a potential barrier to broader deployment of green hydrogen fuels.

Green hydrogen, which is produced from renewable energy instead of petroleum, has the potential to become the "new oil" for Hawai'i, providing everything from long-term, dependable energy storage, to aviation fuel (the world's first hydrogen fuel-cell-powered flight for a commercial-size aircraft took place last September¹). The growth of green hydrogen projects globally has been remarkable over the past year, with energy market leaders like Shell, BP, Enel, Engie, Orsted and Equinor proposing projects, investments, and partnerships in low-carbon hydrogen. The green hydrogen project pipeline is now nine times larger than it was in October 2019.²

Just as with solar and battery storage, green hydrogen is set to play a substantive role in Hawai'i's overall energy mix, with its development likely to happen faster than anyone predicts. Senate Bill 934 will help unlock new possibilities in deployment of green hydrogen to support Hawai'i's 100% clean energy future.

Thank you for the opportunity to provide testimony.

<sup>&</sup>lt;sup>1</sup> https://www.cnn.com/travel/article/zeroavia-zero-emission-hydrogen-planes-spc-intl/index.html

<sup>&</sup>lt;sup>2</sup> "2050: The hydrogen possibility," Woods Mackenzie, January 29, 2021.



Email: <a href="mailto:communications@ulupono.com">communications@ulupono.com</a>

## SENATE COMMITTEE ON JUDICIARY Thursday, February 25, 2021 — 9:30 a.m.

#### Ulupono Initiative supports SB 934, Relating to Measurement Standards

Dear Chair Rhoads and Members of the Committee:

My name is Micah Munekata, and I am the Director of Government Affairs at Ulupono Initiative. We are a Hawaiʻi-focused impact investment firm that strives to improve quality of life throughout the islands by helping our communities become more resilient and self-sufficient through locally produced food; renewable energy and clean transportation; and better management of freshwater and waste.

**Ulupono supports SB 934**, which exempts hydrogen fuels from petroleum product measurement requirements.

Ulupono supports clean, alternative fuel transportation as 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. Allowing this bill's exemption will help enable hydrogen to be more broadly available, thereby advancing clean renewable ground transportation and provide immediate benefits to Hawai'i.

Thank you for this opportunity to testify.

Respectfully,

Micah Munekata Director of Government Affairs



DATE: February 19, 2021

TO: Senator Karl Rhoads

Chair, Committee on Judiciary

FROM: Tiffany Yajima

S.B. 934 – Relating to Measurement Standards

Hearing Date: Thursday, February 25, 2021 at 9:30 a.m.

Dear Chair Rhoads, Vice Chair Keohokalole, and Members of the Committee on Judiciary:

On behalf of the Alliance for Automotive Innovation ("Auto Innovators") we submit this testimony in **support** of S.B. 934.

The Alliance for Automotive Innovation is the singular, authoritative and respected voice of the automotive industry. Focused on creating a safe and transformative path for sustainable industry growth, the Alliance for Automotive Innovation represents the manufacturers producing nearly 99 percent of cars and light trucks sold in the U.S. Members include motor vehicle manufacturers, original equipment suppliers, technology, and other automotive-related companies and trade associations.

This measure amends HRS § 486-52 to exempt hydrogen fuel from measurement standards. The automotive industry has made and continues to make a significant investment in hydrogen as a feasible fuel for motor vehicles. Hydrogen is a clean alternative fuel and any barriers for market acceptance should be removed.

Thank you for the opportunity to submit testimony in support of this bill.



Wednesday, February 24, 2021 Senate Committee on Judiciary State Capitol Teleconference Honolulu, Hawaii 96813



RE: SUPPORT for SB 934 Relating to Measurements and Standards

Dear Chair Karl Rhoads, Vice Chair Jarrett Keohokalole, and the Members of the Senate Committee on Judiciary,

On behalf of the Western States Hydrogen Alliance (WSHA), I write today to express my strong support for Senate Bill (SB) 934.

WSHA is comprised of original equipment manufacturers, technology providers, and public entities that are focused on the accelerated deployment of hydrogen and fuel cell technologies in the commercial and industrial sectors, including fuel cell electric vehicles in hard-to-electrify applications like trucking, busing, locomotive, aviation, maritime, and off-road equipment. Our organization assists states in developing impactful hydrogen and fuel cell policies across the western states.

Hydrogen will serve as a critical fuel in a decarbonized transportation system across the islands. All measures to ease the transition for zero emission solutions into the commercial markets is significant. SB 934 allows for hydrogen to be exempt from the petroleum product measurement requirements that are not transferable to hydrogen fuel. This bill is one of the first key steps to allow fuel cell electric vehicles to enter into the commercial market. WSHA thanks Senator Wakai for recognizing a need in the hydrogen industry that would otherwise be overlooked.



The Western States Hydrogen Alliance strongly supports the passage of SB 934. We sincerely appreciate the opportunity to provide comment to the committee. Please do not hesitate to reach out to me via phone at (818) 642-8064 and via email at <a href="mailto:Roxana@WesternStatesHydrogen.org">Roxana@WesternStatesHydrogen.org</a> if there are any questions, concerns, or general interest in understanding the full possibilities of hydrogen and fuel cells in the commercial and industrial sectors.

Very sincerely,

Roxana Bekemohammadi

K. Bekemphammadi

**Executive Director** 

Western States Hydrogen Alliance