

**DAVID Y. IGE**  
Governor

**JOSH GREEN**  
Lt. Governor



**PHYLLIS SHIMABUKURO-GEISER**  
Chairperson, Board of Agriculture

**MORRIS M. ATTA**  
Deputy to the Chairperson

State of Hawaii  
**DEPARTMENT OF AGRICULTURE**  
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**TESTIMONY OF PHYLLIS SHIMABUKURO-GEISER**  
**CHAIRPERSON, BOARD OF AGRICULTURE**

**BEFORE THE HOUSE COMMITTEE ON ENERGY AND ENVIRONMENTAL**  
**PROTECTION**

**MARCH 18, 2021**  
**9:15 A.M.**  
**VIA VIDEOCONFERENCE**

**SENATE BILL NO. 934**  
**RELATING TO MEASUREMENT STANDARDS**

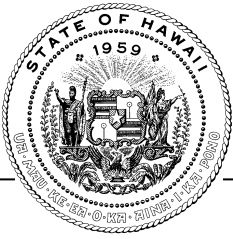
Chairperson Lowen and Members of the Committee:

Thank you for the opportunity to testify on Senate Bill 934. This measure exempts hydrogen fuels from petroleum product measurement requirements. The Department supports the intent of this bill and offers comments.

The Department understands that hydrogen as a renewable fuel offers great promise in Hawaii. The Department currently does not have the technical skills and equipment to measure and certify hydrogen dispensers. Given that lack of regulatory oversight capacity at this time, the proposed amendment to HRS 486-52 exempting hydrogen from measurement standards relating to fuel would allow the Department to avoid the need to expand its staffing, training, and equipment resources beyond current levels. However, this may change in the future as the State continues to seek additional alternative energy sources and the science and technology underlying that effort evolves.

Thank you for the opportunity to testify on this measure.





# 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  
**HOUSE COMMITTEE ON ENERGY & ENVIRONMENTAL PROTECTION**

Thursday, March 18, 2021  
9:15 AM  
State Capitol, Conference Room 325, Via Videoconference

in support of  
**SB 934**  
**RELATING TO MEASUREMENT STANDARDS.**

Chair Lowen, Vice Chair Marten, 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. This is the companion to House Bill 113, which HSEO also supported, and which passed both the EEP and CPC Committees, but which did not cross over to the Senate.

Hydrogen has an important role to play in Hawaii's energy portfolio, as a carbon-free 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**

**Joe Carter**, Coca-Cola Bottling of Hawaii, *Chair*  
**Charlie Gustafson**, Tamura Super Market, *Vice Chair*  
**Eddie Asato**, The Pint Size Corp., *Secretary/Treas.*  
**Lauren Zirbel**, HFIA, *Executive Director*  
**John Schlif**, Rainbow Sales and Marketing, *Advisor*  
**Stan Brown**, Acosta Sales & Marketing, *Advisor*  
**Paul Kosasa**, ABC Stores, *Advisor*  
**Derek Kurisu**, KTA Superstores, *Advisor*  
**Beau Oshiro**, C&S Wholesale Grocers, *Advisor*  
**Toby Taniguchi**, KTA Superstores, *Advisor*

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**TO:**  
Committee on Energy and Environmental Protection  
Rep. Nicole E. Lowen, Chair  
Rep. Lisa Marten, Vice Chair

**FROM:** HAWAII FOOD INDUSTRY ASSOCIATION  
Lauren Zirbel, Executive Director

**DATE:** March 18, 2021  
**TIME:** 9:15am  
**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.



**Testimony to  
The Committee the Committee on Energy & Environment Protection**

**Thursday, March 18, 2021  
9:15 AM  
VIA Video Conference  
Conference Room 325, Hawaii State Capitol  
SB 934**

Chair Lowen, Vice Chair Marten, and members of the committee,

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

Hawaii Gas is a national leader in the transmission and distribution use of hydrogen in our clean energy mix, and it is our vision to continue to lead the gas industry in its ability to safely, affordably, and reliably increase the amount of this zero-emissions fuel source in our utility pipeline.

Beyond its use in our clean energy mix, hydrogen as a clean energy fuel is an essential element of the alternative fuel vehicle future, which is critical to meeting our 2045 clean energy goals. Hydrogen fuel cells for vehicles are a reality today, with Servco bringing them to Hawaii as an alternative to fossil fuel dependent vehicles.

The reality of hydrogen as a fuel for alternative fuel vehicles brings together all stakeholders in this arena, who agree that a sufficient runway is needed to make this valuable fuel source widely available to consumers. Exempting hydrogen from petroleum measurements is a vital element of that runway.

We urge the committees to pass SB 934.

Thank you for the opportunity to testify.



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

HOUSE COMMITTEE ON ENERGY & ENVIRONMENTAL PROTECTION  
Thursday, March 18, 2021 — 9:15 a.m.

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

Dear Chair Lowen and Members of the Committee:

My name is Micah Munekata, and I am the Director of Government Affairs at Ulupono Initiative. We are a Hawai'i-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

*Investing in a Sustainable Hawai'i*



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Representative Nicole Lowen, Chair  
Representative Lisa Marten, Vice Chair  
Committee on Energy & Environmental Protection

**RE: SB 934 - Relating to Measurement Standards - In Support  
March 18, 2021; Via Videoconference; 9:15 a.m.**

Aloha Chair Lowen, Vice Chair Marten 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



**SanHi**

GOVERNMENT STRATEGIES

A LIMITED LIABILITY LAW PARTNERSHIP

DATE: March 16, 2021

TO: Representative Lowen  
Chair, Committee on Energy and Environmental Protection

FROM: Tiffany Yajima

RE: **S.B. 934 – Relating to Measurement Standards**  
**Hearing Date: Thursday, March 18, 2021 at 9:15 a.m.**  
**Conference Room: 325**

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Dear Chair Lowen, Vice Chair Marten, and Members of the Committee on Energy and Environmental Protection:

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.



**HOUSE COMMITTEE ON ENERGY & ENVIRONMENTAL PROTECTION**

March 18, 2021, 9:15 A.M.

Video Conference

**TESTIMONY IN SUPPORT OF SB 934**

Aloha Chair Lowen, Vice Chair Marten, 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 September<sup>1</sup>). 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.<sup>2</sup>

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.

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

<sup>2</sup> “2050: The hydrogen possibility,” Woods Mackenzie, January 29, 2021.



**SB-934**

Submitted on: 3/17/2021 3:25:07 PM

Testimony for EEP on 3/18/2021 9:15:00 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 SB934.

Thank you,

Andrea Quinn