

**DEPARTMENT OF BUSINESS,
ECONOMIC DEVELOPMENT & TOURISM**
KA 'OIHANA HO'OMOHALA PĀ'OIHANA, 'IMI WAIWAI
A HO'OMĀKA'IKĀ'I

JOSH GREEN, M.D.
GOVERNOR

CHRIS J. SADAYASU
DIRECTOR

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Statement of
CHRIS J. SADAYASU
Director
Department of Business, Economic Development, and Tourism
before the
HOUSE COMMITTEE ON ENERGY & ENVIRONMENTAL PROTECTION

Thursday, April 13, 2023
9:15 AM
State Capitol, Conference Room 325 & Videoconference

In consideration of
SCR 82, SD1
**SUPPORTING THE HAWAII STATE ENERGY OFFICE IN THE ESTABLISHMENT OF
AN INTEGRATED HAWAII PACIFIC HYDROGEN HUB.**

Chair Lowen, Vice Chair Cochran, and members of the Committee. The Department of Business, Economic Development and Tourism (DBEDT) supports SCR 82, in support of the Hawai'i State Energy Office (HSEO) and the Hawai'i Pacific Hydrogen Hub.

This resolution recognizes the work that is being done by HSEO and the many partners in the hydrogen hub application; sets forth the reasons for HSEO to be taking on this task; and describes several reasons for interest and support of hydrogen in Hawai'i's energy future.

If the Legislature passes this resolution, it will demonstrate to the partners in the hydrogen hub consortium and to the Department of Energy that the Legislature is interested in hydrogen and supportive of Hawai'i's application.

Therefore, DBEDT encourages the Committee to support this resolution.

Thank you for the opportunity to testify.



UNIVERSITY OF HAWAII SYSTEM

‘ŌNAEHANA KULANUI O HAWAII

Legislative Testimony

Hō'ike Mana'o I Mua O Ka 'Aha'ōlelo

Testimony Presented Before the
House Committee on Energy & Environmental Protection
Thursday, April 13, 2023 at 9:15 a.m.

By

Della Teraoka

Interim Associate Vice President for Academic Affairs Community Colleges
University of Hawai'i System

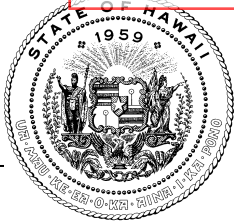
SCR 82 SD1 – SUPPORTING THE HAWAII STATE ENERGY OFFICE IN THE
ESTABLISHMENT OF AN INTEGRATED HAWAII PACIFIC HYDROGEN HUB

Chair Lowen, Vice Chair Cochran, and Members of the Committee:

The University of Hawai'i supports the intent of SCR 82 SD1, which requires the Department of Business, Economic Development, and Tourism to work with the University of Hawai'i on workforce development activities that support the development of the Hawai'i Pacific Hydrogen Hub and other related aspects of the State's hydrogen energy industry.

The University of Hawai'i Community Colleges recently kicked off its [Good Jobs Hawai'i](#) program which includes clean energy as one of four sector focus areas. The Good Jobs Hawai'i initiative seeks to identify and meet current and future needs of Hawai'i's clean energy workforce. The Hawai'i State Energy Office (HSEO) is the lead organization for the Clean Energy and Skilled Trades sector of the Good Jobs Hawai'i program funded by the U.S. Department of Commerce, Economic Development Administration.

Thank you for the opportunity to provide testimony in support of SCR 82 SD1.



HAWAII STATE ENERGY OFFICE STATE OF HAWAII

JOSH GREEN, M.D.
GOVERNOR

MARK B. GLICK
CHIEF ENERGY OFFICER

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Testimony of
MARK B. GLICK, Chief Energy Officer

before the
HOUSE COMMITTEE ON ENERGY & ENVIRONMENTAL PROTECTION

Thursday, April 13, 2023
9:15 AM
State Capitol, Conference Room 325 and Videoconference

In SUPPORT of
SCR 82, SD1

SUPPORTING THE HAWAII STATE ENERGY OFFICE IN THE ESTABLISHMENT OF AN INTEGRATED HAWAII PACIFIC HYDROGEN HUB.

Chair Lowen, Vice Chair Cochran, and Members of the Committee, the Hawai'i State Energy Office (HSEO) strongly supports SCR 82, SD1, which expresses support for the Hawai'i Pacific Hydrogen Hub (H2Hub) application, which HSEO led on behalf of the State of Hawai'i.

The approval of the Hawai'i State Legislature is greatly appreciated as HSEO submitted the H2Hub application to the United States Department of Energy on April 7, 2023. As noted in the resolution, a number of Hawai'i's energy and environmental policy objectives would be supported by success of the Hub. We believe the expression of support by the Legislature will be a positive factor when the application is reviewed and evaluated in the highly competitive national grant review process.

The Hawai'i proposal aligns existing and new infrastructure to build out a new green regional hydrogen production, distribution, and use network to serve the state and military locations on Guam and Kwajalein Atoll. The H2Hub would produce green hydrogen from a diverse and distributed portfolio of renewable energy sources in accordance with the federal Clean Hydrogen Production Standard,¹ Hawai'i state law,

¹ 42 U.S.C. 16166(a).

and other supportive policies. The hydrogen produced would be consumed in the hard-to-electrify or hard-to-abate sectors first, including heavy-duty ground and marine transportation and aviation.

The mission and purpose of the H2Hub is to seed a transition to hydrogen-powered operations across all sectors of Hawai'i's energy ecosystem and economy for the next decade to:

- Eliminate price volatility and reduce energy costs and greenhouse gas emissions in high-value transportation, energy storage and electric power applications;
- Serve as the linchpin in accelerating Hawai'i's renewable energy and decarbonization strategy, thus contributing to energy security and national security;
- Provide significant net benefits to Hawai'i's diverse communities through green jobs, higher wages, and delivery of reliable, secure, clean, and affordable energy; and,
- Match and phase in appropriate end users from ground-transportation, maritime, and aviation sectors operating locally, to ensure supply and demand balance.

Thank you for the opportunity to testify.



Written Statement of
Len Higashi
Executive Director
Hawaii Technology Development Corporation
before the
HOUSE COMMITTEE ON ENERGY & ENVIRONMENTAL PROTECTION
Thursday, April 13, 2023
9:15 a.m.
Conference Room 325 & Videoconference

In consideration of
SCR 82, SD1
**SUPPORTING THE HAWAII STATE ENERGY OFFICE IN THE ESTABLISHMENT OF
AN INTEGRATED HAWAII PACIFIC HYDROGEN HUB.**

Chair Lowen, Vice Chair Cochran, and Members of the Committee.

The Hawaii Technology Development Corporation (HTDC) **supports** SCR82, SD1 that supports the Hawai'i State Energy Office in the Establishment of an Integrated Hawai'i Pacific Hydrogen Hub.

HTDC supports initiatives that promote economic diversification through technology. HTDC's Hawai'i Center for Advanced Transportation Technologies (HCATT) program has led dozens of hydrogen demonstration projects in Hawai'i. HTDC is part of the Hawaii consortium and is fully committed to make this application and project successful.

Last year, HTDC secured \$7.2 million in federal funds from the Air Force and National Guard Bureau to complete the first phase of the Pacific Energy Assurance and Resiliency Laboratory (PEARL) microgrid at Pearl Harbor. HTDC continues to pursue additional federal funds to add hydrogen storage to the project. This effort is being done in parallel to the Hydrogen Hub application. HTDC looks forward to working with all stakeholders in moving Hawai'i forward.

Thank you for the opportunity to offer these comments.



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Representative Nicole Lowen, Chair
Representative Elle Cochran, Vice Chair
Committee on Energy & Environmental Protection

**RE: SCR 82, SD1 - SUPPORTING THE HAWAII STATE ENERGY OFFICE IN THE
ESTABLISHMENT OF AN INTEGRATED HAWAII PACIFIC HYDROGEN HUB
– IN SUPPORT
Thursday, April 13, 2023; 9:15 A.M.**

Aloha Chair Lowen, Vice Chair Cochran and members of the committee:

Servco is in support of SCR 82, SD1, which supports the Hawaii State Energy Office in the establishment of an integrated Hawaii Pacific Hydrogen Hub.

The demand for alternative forms of renewable fuel will continue to grow in support of Hawaii's 100% energy goals, and the Hawaii Pacific Hydrogen Hub will play a key role in realizing a sustainable energy economy.

Servco has invested millions of dollars into hydrogen production facilities and will continue to invest as we believe in its future. The long-term production, processing, and export potential of hydrogen across the globe is not only a revenue generating opportunity but also yields environmental benefits.

Thank you for the opportunity to provide comments in support.

Peter Dames
Executive Vice President



**Testimony to
The Committee on Energy and Environmental Protection**

Thursday, April 13, 2023

9:15 AM

**Conference Room 325 & VIA videoconference
Hawaii State Capitol**

SCR 82 SD1

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

Hawaii Gas supports SCR 82 SD1, which supports the Hawaii State Energy Office in the establishment of an integrated Hawaii Pacific hydrogen hub.

Established in 1904, Hawaii Gas serves over 70,000 customers on all islands through its pipeline and delivery services, all of whom depend on the company for sustainable, reliable, and affordable gas for water heating, cooking, drying, and other commercial and industrial applications. The company employs some 350 professionals, over 75% of whom are members of the Teamsters Union.

Hawaii Gas distributes a blend of gas that ranges from low-carbon to negative-carbon emissions through approximately 1,100 miles of mostly underground utility pipeline statewide. Our main utility system includes a blend of gas that includes Synthetic Natural Gas (SNG), Renewable Natural Gas (RNG), and Hydrogen. Hawaii Gas leads the industry in the use of hydrogen in its pipeline.

Hydrogen is critical to the state's clean energy future, and this Hub would be a tremendously valuable asset towards meeting those clean energy requirements. Additionally, this Hub would place Hawaii at the forefront of clean energy work nationally.

We urge the committee to pass the measure.

Thank you for the opportunity to testify.



HOUSE COMMITTEE ON ENERGY AND ENVIRONMENTAL PROTECTION

HEARING DATE: Thursday, April 13, 2023
TIME: 9:15 a.m.
PLACE: State Capitol
Conference Room 325

RE: Testimony in **SUPPORT** of SCR 82, SD1

Aloha Honorable Chair Lowen, Vice Chair Cochran, and Members of the Committee;

The International Brotherhood of Electrical Workers Local 1260 (IBEW 1260) and its Business Manager and Financial Secretary, Leroy Chincio, Jr. would like to offer the following testimony in support of Senate Concurrent Resolution 82 (SCR 82), SD1.

IBEW 1260, is comprised of nearly 3,500 hardworking union members made up of a diverse workforce that consists of highly skilled and trained individuals working in electrical utility generation, transmission, distribution, and outside construction, as well as government, professional, and broadcast service contracts throughout the State of Hawai'i, in Guam and Wake Island.

IBEW 1260 supports SCR 82, SD1 which supports the Hawaii State Energy Office in the establishment of an integrated Hawaii Pacific Hydrogen Hub.

IBEW 1260 is a member of the HSEO's Hydrogen Hub consortium and have been working closely with the HSEO in support of its efforts to explore and establish opportunities for the production and utilization of hydrogen as a clean renewable source of energy, to include but not be limited to its full application to the U.S. Department of Energy in response to the Regional Clean Hydrogen Hub funding opportunity.

Mahalo for the opportunity to testify in support of SCR 82, SD1.

SCR-82-SD-1

Submitted on: 4/11/2023 10:12:15 AM

Testimony for EEP on 4/13/2023 9:15:00 AM

Submitted By	Organization	Testifier Position	Testify
Douglas Perrine	Individual	Support	Written Testimony Only

Comments:

I support SCR82, which will encourage the development of a hydrogen hub with the potential to be of vast importance in supplying Hawaii's future needs for renewable, transportable energy, and could also help develop a significant export market for green hydrogen produced in Hawaii with carbon-free renewable resources, such as solar, wind, ocean thermal, and geothermal energy.

SCR-82-SD-1

Submitted on: 4/13/2023 8:18:28 AM

Testimony for EEP on 4/13/2023 9:15:00 AM

Submitted By	Organization	Testifier Position	Testify
Noel Morin	Individual	Support	Written Testimony Only

Comments:

Dear Chair Lowen, Vice Chair Cochran, and Committee members,

I'm writing in support of SCR82 SD1, SUPPORTING THE HAWAII STATE ENERGY OFFICE IN THE ESTABLISHMENT OF AN INTEGRATED HAWAII PACIFIC HYDROGEN HUB.

Hawai'i has a unique opportunity to establish a strategic green hydrogen ecosystem, one that would provide clean energy solutions across the Pacific region, contribute to geopolitical security (via energy security for the U.S. Indo-Pacific Command), enable decarbonization of difficult-to-electrify sectors (e.g., aviation, maritime, and heavy ground transport, high-heat industrials, and fertilizer production), and contribute to our economic well-being through energy resilience, food security, jobs, and revenue.

Respectfully,

Noel Morin

Climate, Sustainability, and Resilience Advocate

Hilo, Hawai'i