

JOSH GREEN, M.D.
GOVERNOR

SYLVIA LUKE
LT GOVERNOR



Hawaii Green Infrastructure Authority

An Agency of the State of Hawaii

JAMES KUNANE TOKIOKA
CHAIR

GWEN S YAMAMOTO LAU
EXECUTIVE DIRECTOR

Testimony of
Gwen Yamamoto Lau
Executive Director
Hawai'i Green Infrastructure Authority
before the
SENATE COMMITTEE ON WAYS AND MEANS
and
SENATE COMMITTEE ON COMMERCE AND CONSUMER PROTECTION
Friday, March 1, 2024, 9:50 AM
State Capitol, Conference Room 211
in consideration of
Senate Bill No. 2122, SD1
RELATING TO ENERGY-EFFICIENCY PORTFOLIO STANDARDS

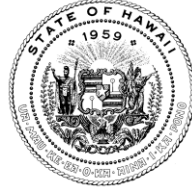
Chairs Dela Cruz and Keohokalole, Vice Chairs Moriwaki and Fukunaga, and Members of the Committees:

Thank you for the opportunity to testify on SB 2122, SD1, relating to energy-efficiency portfolio standards. The Hawai'i Green Infrastructure Authority (HGIA) **supports** this bill which extends the state's energy-efficiency portfolio standards from 2030 to 2045 and updates the standards.

Achievement of the state's bold goal of achieving 100% clean energy in the electricity sector by 2045 requires strategic tactics, which includes a portfolio of tools and solutions. Similar to renewable technologies and projects (e.g., solar, wind, geothermal, etc.), the energy efficiency portfolio standard is also a critical tool towards goal achievement, which should be aligned with the 2045 clean energy deadline.

Energy efficiency measures can also reduce energy consumption in a cost-effective manner, resulting in electric utility bill savings.

Thank you for this opportunity to provide comments and testify in support of SB 2122, SD1.



STATE OF HAWAII | KA MOKU'ĀINA 'O HAWAI'I
OFFICE OF THE DIRECTOR
DEPARTMENT OF COMMERCE AND CONSUMER AFFAIRS
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JOSH GREEN, M.D.
GOVERNOR | KE KIA'ĀINA

SYLVIA LUKE
LIEUTENANT GOVERNOR | KA HOPE KIA'ĀINA

NADINE Y. ANDO
DIRECTOR | KA LUNA HO'OKELE

DEAN I HAZAMA
DEPUTY DIRECTOR | KA HOPE LUNA HO'OKELE

Testimony of the Department of Commerce and Consumer Affairs

Before the
Senate Committee on Commerce and Consumer Protection
And
Senate Committee on Ways and Means
Friday, March 1, 2024
9:50 a.m.
Conference Room 211

On the following measure:
S.B. 2122, S.D. 1, RELATING TO ENERGY-EFFICIENCY PORTFOLIO STANDARDS

WRITTEN TESTIMONY ONLY

Chair Keohokalole, Chair Dela Cruz, and Members of the Committees:

My name is Michael Angelo, and I am the Executive Director of the Department of Commerce and Consumer Affairs (Department) Division of Consumer Advocacy. The Department supports this bill.

The purpose of this bill is to: (1) extend the State's energy efficiency portfolio standards from 2030 to 2045; and (2) authorize the Public Utilities Commission (Commission) to establish interim goals, and clarify procedures.

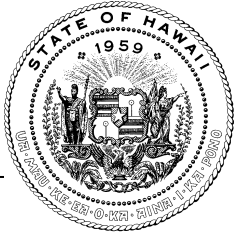
The Department believes that energy efficiency can and should play an important role in Hawaii's efforts to transition to clean energy and recognizes that energy efficiency is viewed often as the most cost-effective means to contribute to the State's clean energy goals. The cost-effectiveness of energy efficiency measures to reduce emissions was

recently confirmed in a December 2023 study conducted by the Hawaii State Energy Office pursuant to Act 238, Session Laws of Hawaii 2022.¹ Accordingly, the Department supports the intent to modify the energy efficiency portfolio standards and has already engaged in discussions with other stakeholders in the technical advisory group convened to discuss the work done by the Public Benefits Administrator as well as the vendor responsible for fulfilling energy efficiency portfolio standards, Hawaii Energy, regarding possible changes to the portfolio standards. The Department is committed to continuing its work with stakeholders to help coordinate efforts regarding energy efficiency and towards policies and goals that are cost-effective as possible.

The Department views energy efficiency efforts as an important tool for cost-effectively reducing the State's need for generating resources and providing a means for individual customers to lower their energy bills. The Department believes that this bill solidifies Hawaii's commitment to energy efficiency by realigning the energy efficiency portfolio standards with the timeline for the State's renewable portfolio standards and allowing the Commission set interim standards to maximize cost-effective energy-efficiency programs and technologies to meet the State's clean energy goals.

Thank you for the opportunity to testify on this bill.

¹ Hawaii Pathways to Decarbonization (December 2023) at page 4.



HAWAII STATE ENERGY OFFICE STATE OF HAWAII

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JOSH GREEN, M.D.
GOVERNOR

SYLVIA LUKE
LT. GOVERNOR

MARK B. GLICK
CHIEF ENERGY OFFICER

(808) 451-6648
energy.hawaii.gov

Testimony of
MARK B. GLICK, Chief Energy Officer

before the
**SENATE COMMITTEES ON
COMMERCE AND CONSUMER PROTECTION
AND
WAYS AND MEANS**

Friday, March 1, 2024
9:50 AM
State Capitol, Conference Room 211 and Videoconference

In Support of
SB 2122, SD1

RELATING TO ENERGY-EFFICIENCY PORTFOLIO STANDARDS.

Chairs Keohokalole and Dela Cruz, Vice Chairs Fukunaga and Moriwaki, and members of the Committees, the Hawai'i State Energy Office (HSEO) supports SB 2122, SD1, which extends the State's energy-efficiency portfolio standards (EEPS) from 2030 to 2045 and authorizes the Public Utilities Commission (PUC) to establish interim goals by rule or order to maximize cost-effective energy-efficiency programs and technologies.

HSEO serves on the PUC's Technical Working Group of energy stakeholders that review and assess the State's progress to meeting the State's energy efficiency goals. HSEO also prepared and submitted the Hawai'i Pathways to Decarbonization Report¹ to the 2024 Hawai'i State Legislature that candidly reviews the significantly challenges to meeting Hawai'i's decarbonization goals and the difficult, yet achievable, pathways to get there. There is consensus among the Technical Working Group and the Decarbonization Study that "energy efficiency and conservation are the single most important and most cost-effective measure to meaningfully reduce electricity demand,

¹ Hawai'i State Energy Office. *Hawai'i Pathways to Decarbonization*. 2023. https://energy.hawaii.gov/wp-content/uploads/2024/01/Act-238_HSEO_Decarbonization_Report.pdf

thus negating the need to develop more electricity generation.” The Decarbonization Report has a specific recommendation to update and extend the EEPS:²

Recommendation

Extend, update, and strengthen supportive policies for energy efficiency, such as the Energy Efficiency Portfolio Standard (EEPS)...

Rationale

In both this report and similar national strategies, such as the “The Long-Term Strategy of the United States: Pathways to Net-Zero Greenhouse Gas Emissions by 2050,” near-term action on energy efficiency provides the foundation for cost-effective and on-schedule decarbonization... Achieving this level of energy efficiency will require new policies and programs.

Given the critical importance of energy efficiency in Hawai'i's energy transition, extending the EEPS end goal date of 2045 to be consistent with the renewable portfolio standard and decarbonization policies are warranted, reasonable, and advisable.

Thank you for the opportunity to testify.

² Ibid, page 9.

TESTIMONY OF
LEODOLOFF R. ASUNCION, JR.
CHAIR, PUBLIC UTILITIES COMMISSION
STATE OF HAWAII

TO THE
SENATE COMMITTEES ON
COMMERCE AND CONSUMER PROTECTION
and
WAYS AND MEANS

Friday, March 1, 2024
9:50 a.m.

Chairs Keohokalole and Dela Cruz, Vice Chairs Fukunaga and Moriwaki, and Members of the Committees:

MEASURE: S.B. 2122 SD 1

TITLE: RELATING TO ENERGY EFFICIENCY PORTFOLIO STANDARDS

DESCRIPTION: Extends the State's energy efficiency portfolio standards from 2030 to 2045. Authorizes the Public Utilities Commission to establish interim goals, and clarifies procedures. Takes effect 1/1/2060. (SD1)

POSITION: The Public Utilities Commission ("Commission") supports this measure and offers the following comments for consideration.

COMMENTS:

The Commission appreciates the intent of this measure to extend and further develop the energy-efficiency portfolio standard (EEPS) as established in Act 155, Sessions Laws of Hawaii 2009, and set into law as HRS §269-96. EEPS has been a successful policy for our state, serving as a critical component in support of our state's clean energy and decarbonization goals. In the thirteen years since establishment, the impact of the EEPS target has generated many successful energy-saving programs for Hawaii's residents and businesses, including those offered by Hawaii Energy (the energy efficiency implementer for Hawaiian Electric Company's customers), the GEMS loan programs, Kauai Island Utility Cooperative's energy efficiency efforts, and other implementation initiatives

throughout the state. The recent Market Potential Study (2020)¹ indicates that Hawaii is on track to meet and exceed the established 2030 target of 4,300 GWh of energy savings. The next Market Potential Study will occur in 2025-2026 and will provide further data and updated analyses to inform a revised target beyond 2030.

Extending the target date to 2045 would ensure continued impact of energy efficiency programming benefits and would align with our state's Renewable Energy Portfolio Standard target date. The Commission also notes that S.B. 3078 (Administration Bill) proposes the same modifications to the EEPS.

Thank you for the opportunity to testify on this measure.

¹ Applied Energy Group (2020). *State of Hawaii Market Potential Study*. <https://www.hawaiieeps.org/8-5-2020-market-potential-study-rel>

OFFICE OF CLIMATE CHANGE SUSTAINABILITY AND RESILIENCY
KE KE'ENA LOLI ANIAU MĀLAMA 'ĀINA A ME KE OLA LOA
CITY AND COUNTY OF HONOLULU

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PHONE: (808) 768-2277 • EMAIL: resilientoahu@honolulu.gov • INTERNET: www.resilientoahu.org

RICK BLANGIARDI
MAYOR
MEIA



MATTHEW GONSER, AICP, CFM
EXECUTIVE DIRECTOR &
CHIEF RESILIENCE OFFICER
PO'O HO'OKŌ & KAHU OLA LOA

BENJAMIN SULLIVAN
DEPUTY DIRECTOR &
DEPUTY CHIEF RESILIENCE OFFICER
HOPE PO'O & HOPE KAHU OLA LOA

FRIDAY, MARCH 1, 2024, 9:50 A.M.

STATE OF HAWAII
SENATE COMMITTEES ON COMMERCE AND CONSUMER PROTECTION
& WAYS AND MEANS

**TESTIMONY ON SENATE BILL 2122, SD1
RELATING TO ENERGY-EFFICIENCY PORTFOLIO STANDARDS**

BY,

MATTHEW GONSER
EXECUTIVE DIRECTOR AND CHIEF RESILIENCE OFFICER
OFFICE OF CLIMATE CHANGE, SUSTAINABILITY AND RESILIENCY

Dear Chair Keohokalole, Chair Dela Cruz, and Members of the Committees:

The City and County of Honolulu ("City") Office of Climate Change, Sustainability and Resiliency (CCSR) **supports SB2122, SD1**, which extends the state's energy-efficiency portfolio standards from 2030 to 2045.

The City has established a Climate Action Policy to achieve 100 percent renewable energy and net-negative carbon emissions no later than 2045¹. The City's Climate Action Plan recognizes the importance that energy efficiency plays in our ability to achieve that target, as it remains the most cost-effective way to reduce emissions associated with electricity generation, while also providing financial benefits to residents².

The City continues to advance energy efficiency within our own operations through energy savings performance contracts³, as well as drive greater efficiency in

1 Revised Ordinances of Honolulu 2021. § 2-10.12 Climate action:

https://codelibrary.amlegal.com/codes/honolulu/latest/honolulu/0-0-0-50474#JD_2-10.12.

2 City and County of Honolulu. *One Climate One O'ahu* Climate Action Plan 2020-2025. Strategy 5: Reduce Energy Demand by Increasing Energy Efficiency:

<https://www.resilientoahu.org/s/2020-2025-Climate-Action-Plan.pdf>

3 City-Wide Energy Savings Performance Contract: <https://www.sustainablehonolulu.com/>.

Chair Keohokalole and Chair Dela Cruz
SB2122, SD1
March 1, 2024
Page 2

the broader built environment via programs such as the Better Buildings Benchmarking Program⁴. The City looks forward to continued partnership with the state to support increased energy efficiency at the household level and generating cost savings for O'ahu residents.

Extending the state's energy efficiency portfolio standards will accelerate momentum on many critical energy and cost savings initiatives and continue to guide decision-making towards achieving our 2045 targets.

Thank you for the opportunity to testify in support of SB2122, SD1.

⁴ City and County of Honolulu Better Buildings Benchmarking Program:
<https://www.resilientoahu.org/benchmarking>.



**Hawaiian
Electric**

**TESTIMONY BEFORE THE SENATE COMMITTEES ON
COMMERCE & CONSUMER PROTECTION
AND
WAYS & MEANS**

**SB 2122, SD1
Relating to Energy-Efficiency Portfolio Standards**

Friday, March 1, 2024
9:50 AM
State Capitol, Conference Room 211

Ka'iulani Shinsato
Director, Customer Energy Resources Programs
Hawaiian Electric

Dear Chair Keohokalole, Chair Dela Cruz and, Vice Chair Fukunaga, Vice Chair Moriwaki,
and Members of the Committees,

My name is Ka'iulani Shinsato and I am testifying on behalf of Hawaiian Electric
in **support** of SB 2122, SD1, Relating to Energy-Efficiency Portfolio Standards.

SB 2122, SD1 extends the State's Energy-Efficiency Portfolio Standards
("EEPS") from 2030 to 2045, and authorizes the Public Utilities Commission ("PUC") to
establish interim goals. Hawaiian Electric supports this measure because widespread
adoption of energy conservation and energy efficiency measures will be required to
meet the State's 2030 and 2045 decarbonization goals. Extending the target date of the
EEPS to 2045 would ensure continued focus on energy efficiency as a critical resource
to meet our clean energy goals, and align with the 2045 target for the State's
decarbonization and Renewable Portfolio Standards goals.

Hawaiian Electric is part of the PUC's Technical Working Group of energy
stakeholders that review and assess the State's progress towards meeting the EEPS.

Hawaiian Electric looks forward to continued collaboration with the PUC, the State's third-party Public Benefits Fee Administrator, Hawaii Energy, and other energy stakeholders to ensure continued progress towards achievement of the EEPS.

Thank you for this opportunity to provide testimony in support of SB 2122, SD1.



Email: communications@ulupono.com

SENATE COMMITTEES ON COMMERCE & CONSUMER PROTECTION AND WAYS & MEANS
Friday, March 1, 2024 — 9:50 a.m.

Ulupono Initiative supports SB 2122 SD1, Relating to Energy-Efficiency Portfolio Standards.

Dear Chair Keohokalole, Chair Dela Cruz, and Members of the Committees:

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 the quality of life throughout the islands by helping our communities become more resilient and self-sufficient through locally produced food, renewable energy, clean transportation choices, and better management of freshwater resources.

Ulupono supports SB 2122 SD1, which extends the State's energy efficiency portfolio standards from 2030 to 2045 and authorizes the Public Utilities Commission to establish interim goals, and clarifies procedures.

Ulupono is supportive of energy efficiency measures to lower electricity consumption across the state. Notably, the Hawai'i State Energy Office recently published its Hawai'i Pathways to Decarbonization Report, which identifies, among other things, the crucial role that energy efficiency will play as one of the most important actions that can be made to reduce energy demand *before* implementing other measures such as developing new renewable generation, reducing vehicle miles traveled, converting to electric transport, and deploying carbon capture technologies.¹ As Hawai'i's electricity costs are expected to rise in the near-term², Ulupono sees the value of measuring and tracking energy usage as a first step to reduce energy consumption, lower overall electricity costs, and eliminate energy "waste." Hawai'i's energy issues remain increasingly complex and challenging. We appreciate the State's efforts to look at policies that reduce the overall demand, which in return will result in lower utility bills, thus mitigating the high cost of living and doing business in Hawai'i.

Thank you for the opportunity to testify.

Respectfully,

Micah Munekata
Director of Government Affairs

¹ Hawai'i Pathways to Decarbonization Act 238, Session Laws of Hawai'i 2022, Report to the 2024 Hawai'i State Legislature December 2023. https://energy.hawaii.gov/wp-content/uploads/2024/01/Act-238_HSEO_Decarbonization_Report.pdf

²See Hawaiian Electric Newsroom, "Driven up by Russian invasion, oil prices will push electric bills higher in coming months," March 10, 2022. <https://www.hawaiianelectric.com/driven-up-by-russian-invasion-oil-prices-will-push-electric-bills-higher-in-coming-months>



**SENATE COMMITTEE ON WAYS AND MEANS
SENATE COMMITTEE ON COMMERCE AND CONSUMER PROTECTION**

March 1, 2024, 9:50 AM

Room 211

Decision Making Only

TESTIMONY IN SUPPORT OF SB 2122 SD1

Aloha Chair Keohokalole, Chair Dela Cruz, and members of the Committees:

Blue Planet Foundation **supports SB 2122 SD1**, which extends Hawai'i's energy-efficiency portfolio standards (EEPS) from 2030 to 2045 and increases the target of the EEPS from 4,300 to 6,000 gigawatt-hours.

As Hawai'i progresses toward achieving its 100% renewable energy and carbon-negative decarbonization goals, energy efficiency remains the most cost-effective way to reduce emissions associated with electricity generation and consumption, while providing financial benefits to Hawai'i residents and businesses during the transition. In 2009, the legislature codified the goals of the Hawai'i Clean Energy Initiative, which included a goal to reduce electricity use by 4,300 gigawatt-hours by 2030. This goal—known as the Energy Efficiency Portfolio Standards (or EEPS)—has helped to maximize cost-effective energy efficiency programs and technologies in the state.

Since 2009, Hawai'i has made impressive progress towards its clean energy goals and established a new mandate to achieve 100% renewable electricity by 2045 (Act 97 of 2015). Although the renewable portfolio standard was updated in 2015, there has not been an extension of the EEPS goal beyond 2030 to align with the 2045 planning target for renewable energy. Extending the EEPS goal beyond 2030 is an important step to ensure energy efficiency is factored into future grid planning efforts. The cheapest and cleanest energy is the energy that we don't use.

Further, Blue Planet continues to support the integration of demand response programs into Hawai'i's energy efficiency efforts. Although demand response programs do not currently count towards our EEPS, we believe that including demand response can help modernize the state's energy planning efforts because the time we use energy has become increasingly important as intermittent renewable energy resources, such as wind and solar, are added to our energy mix.

Thank you for the opportunity to testify in support of SB 2122 SD1.



Before the Senate Committees on Ways and Means, and Commerce and Consumer Protection
Friday, March 1, 2024 at 9:50 a.m.

Testimony in Support of SB2122 SD1: Relating to Energy-Efficiency Portfolio Standards

Chairs Dela Cruz and Keohokalole, Vice Chairs Moriwaki and Fukunaga, and Members of the
Committees:

Thank you for the opportunity to testify in support and provide comments on Senate Bill 2122 SD1.

Hawai'i Energy works to empower island families and businesses on behalf of the Hawai'i Public Utilities Commission (PUC) to make smart energy choices to reduce energy consumption, save money, and pursue a 100% clean energy future. Energy efficiency – the energy we do not use – is the cheapest option to help us achieve our 100% clean energy goal by eliminating waste and being more efficient.

Hawai'i Energy applauds the legislature's efforts to support energy efficiency's continued impact on Hawai'i's residents and businesses as an integral component of the State's Clean Energy Initiative, which calls for Hawai'i to achieve 100% clean energy by 2045.

This bill extends the target date of the energy-efficiency portfolio standard (EEPS), as established in Act 155, SLH 2009, and set into law as HRS §269-96, to 2045, which aligns EEPS with the state's Renewable Energy Portfolio Standard target date. The bill further develops EEPS to increase its cumulative energy savings goal from 4,300 GWh by 2030 to 6,000 GWh by 2045.

Already, Hawai'i Energy, along with its partners, has been able to implement enough programs and initiatives throughout the state to generate confidence that the established EEPS goal of 4,300 GWh of energy savings by 2030 is on track. The revised goal of 6,000 GWh by 2045 set forth in SB2122 SD1 reflects that confidence, and Hawai'i Energy is well positioned to continue helping the state's utility ratepayers save electricity and money as we strive for this new target together. We look forward to continuing to work with the PUC as it explores EEPS impacts on Hawai'i's ratepayers and electrical grid through stakeholder workshops.

Given Hawai'i has the highest electricity rates in the country, energy efficiency remains a highly effective avenue to deliver significant cost savings to Hawaiian families and businesses, especially during these challenging budgetary times. We appreciate the ongoing efforts by the State Legislature to ensure that energy efficiency rightly plays a crucial role in pursuing Hawai'i's 100% clean energy future.

Thank you for the opportunity to testify in support of Senate Bill 2122 SD1.

Sincerely,
Caroline Carl
Executive Director
Hawai'i Energy



Hawaii Solar Energy Association
Serving Hawaii Since 1977

Testimony of The Hawaii Solar Energy Association (HSEA) Regarding SB2122 SD1, Relating to Energy-Efficiency Portfolio Standards, Before the Senate Committee on Ways and Means

Friday, March 1, 2024

Aloha Chair Dela Cruz, Vice Chair Moriwake, and committee members:

The Hawaii Solar Energy Association (HSEA) **supports SB2122 SD1**, which extends Hawaii's Energy Efficiency Portfolio Standard (EEPS) program in alignment with Hawaii's overall renewable energy, sustainability and resilience goals.

HSEA members include the majority of locally owned and operated solar and renewable energy companies doing business in the state of Hawaii along with leading global cleantech manufacturers and service providers that invest and sell in our market. We employ thousands of residents in diverse green economy jobs and advocate for policies that help Hawaii achieve critical climate and resilience goals by enabling residents and businesses to invest in and benefit from the transition to clean energy.

In addition to solar PV and energy storage, HSEA members manufacture, distribute, and install highly efficient and affordable solar thermal hot water systems and other measures that contribute to Hawaii's energy efficiency programs and goals. Hawaii's EEPS and other energy efficiency programs under the leadership of the Public Utilities Commission and Hawaii Energy have been highly effective in achieving their stated purpose and goals and should be extended to align with Hawaii's overall goals.

Thank you for providing the opportunity to testify in **support of SB2122 SD1**.

Respectfully,

/s/ Rocky Mould

Rocky Mould
Executive Director



To: The Senate Committee on Commerce and Consumer Protection (CPN)
and
The Senate Committee on Ways and Means (WAM)
From: Sherry Pollack, 350Hawaii.org
Date: Friday, March 1, 2024, 9:50am

In support of SB2122 SD1

Aloha Chairs Keohokalole and Dela Cruz, Vice Chairs Fukunaga and Moriwaki, and members of the CPN and WAM committees,

I am Co-Founder of the Hawaii chapter of 350.org, the largest international organization dedicated to fighting climate change. 350Hawaii.org **supports SB2122 SD1** which extends the State's energy efficiency portfolio standards from 2030 to 2045. This measure also authorizes the Public Utilities Commission to establish interim goals, and clarifies procedures.

It is important to extend our energy efficiency goals and ensure that the public utilities commission may continue its work developing and overseeing the State's energy-efficiency portfolio standards beyond 2030. If Hawaii is to achieve our clean energy goals, we must align state planning directed at reducing carbon emissions across the energy sector. This measure would help accomplish this.

Energy efficiency is essential in reducing fossil fuel consumption and greenhouse gas emissions. With the climate crisis we are facing, it is critical that dedicated efforts be made to lower consumption and conserve our precious resources. In addition, reducing energy use saves consumer dollars. Hawaii residents and businesses currently pay the highest electricity rates in the country. Energy efficiency is an important tool that will help reduce electricity use and save millions on customer utility bills.

Simply put, the cleanest, cheapest and safest energy is the energy we don't use.

Mahalo for the opportunity to testify on this measure.

Sherry Pollack
Co-Founder, 350Hawaii.org



TESTIMONY FROM THE DEMOCRATIC PARTY OF HAWAII

SENATE COMMITTEES ON COMMERCE AND CONSUMER PROTECTION and WAYS AND MEANS

MARCH 1, 2024

SB 2122, SD1, RELATING TO ENERGY-EFFICIENCY PORTFOLIO STANDARDS

POSITION: SUPPORT

The Democratic Party of Hawai'i **supports** SB 2122, SD1, relating to energy-efficiency portfolio standards. Pursuant to the "Environment and Energy" section of the official Democratic Party of Hawai'i platform, the party believes "that a key part of a sustainable and self-sufficient future for Hawai'i lies in achieving energy independence through a transition to clean renewable energy sources," and supports "policy that eliminates our dependence on fossil fuels and other dirty energy sources."

According to a report produced by the Hawai'i Climate Change Mitigation and Adaptation Commission, global sea levels could rise more than three feet by 2100, with more recent projections showing this occurring as early as 2060. In turn, over the next 30 to 70 years, approximately 6,500 structures and 19,800 people statewide will be exposed to chronic flooding. Additionally, an estimated \$19 billion in economic loss would result from chronic flooding of land and structures located in exposure areas. Finally, approximately 38 miles of coastal roads and 550 cultural sites would be chronically flooded, on top of the 13 miles of beaches that have already been lost on Kaua'i, O'ahu, and Maui to erosion fronting shoreline armoring.

As we work to reduce carbon emissions and stave off the worst consequences of climate change, we must begin preparing for the adverse impact of sea level rise on our shores. We are now quantifying the speed at which we must act. We cannot continue to develop the 25,800-acre statewide sea level rise exposure area—one-third of which is designated for urban use—without risking massive structural damage and, potentially, great loss of life.

Last year, we witnessed the impact of the climate emergency on our shores. On August 8, 2023, wildfires swept across Maui and killed at least 100 people, making it one of the nation's deadliest natural disasters. The spread of the fires has been attributed to climate change conditions, such as unusually dry landscapes and the confluence of a strong high-pressure system to the north and Hurricane Dora to the south. The wildfires destroyed over 2,200 structures, including numerous residential buildings, historic landmarks, and school facilities. In September 2023, a report from the United States Department of Commerce estimated the total economic damage of the wildfires to be roughly \$5.5 billion. Investing in renewable energy generation could not be more urgent, given the growing threat of climate-induced catastrophes to our island home.

Therefore, **our state should take steps to accelerate our transition to a clean energy economy and continue our fight against climate change, including by extending the state's energy efficiency portfolio standards from 2030 to 2045.** Strengthening energy efficiency is vital in reducing emissions associated with electricity generation, while providing financial benefits for consumers. The Hawai'i Clean Energy Initiative sets a statewide energy efficiency goal for 2030 at 4,300 gigawatt hours and directs the Public Utilities Commission to establish interim goals for 2015, 2020, and 2025. Extending these goals will ensure that the PUC may continue improving our state's energy-efficiency portfolio standards beyond 2030.

Mahalo nui loa,

Kris Coffield

Co-Chair, Legislative Committee

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Abby Simmons

Co-Chair, Legislative Committee

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SB-2122-SD-1

Submitted on: 2/27/2024 7:12:23 PM

Testimony for CPN on 3/1/2024 9:50:00 AM

Submitted By	Organization	Testifier Position	Testify
Arwen Revere	Testifying for Wild Kids Hawai'i	Support	Written Testimony Only

Comments:

Aloha Chairs and Members of the Committee,

My name is Arwen Revere, and I am a high school senior representing Wild Kids Hawai'i, an organization dedicated to environmental advocacy and sustainable living. I am writing to express our enthusiastic support for Senate Bill 2122, which updates and extends the state's Energy Efficiency Portfolio Standards (EEPS).

In 2009, Hawai'i established the Energy Efficiency Portfolio Standards as a long-term goal to reduce statewide electricity use by 2030. While we have made significant strides towards achieving 100% clean energy and net-zero emissions by 2045, the EEPS goal has remained static. SB 2122 seeks to rectify this by expanding the energy efficiency portfolio standards from a goal of 4,300 gigawatt-hours of electricity savings by 2030 to 6,000 gigawatt-hours of savings by 2045.

The proposed amendments in SB 2122 are a crucial step in aligning our state's energy planning with broader objectives, fostering a more sustainable and resilient future. It underscores the commitment of Hawai'i towards reducing carbon emissions, meeting clean energy goals, and addressing the financial strain that high electric bills place on our residents.

Hawai'i residents consistently face the highest electric bills in the nation, making energy efficiency a pivotal solution to alleviate this financial burden. SB 2122 not only addresses this issue directly but also plays a pivotal role in mitigating the impacts of the climate crisis by reducing carbon emissions.

Our organization firmly believes in the accessibility, affordability, and equity of energy efficiency measures. Supporting SB 2122 is an investment in the well-being of our communities, empowering local families to make sustainable choices and contributing collectively to a cleaner, greener Hawai'i.

As a high school senior, I am passionate about a sustainable future for our islands. I urge the Committees to pass Senate Bill 2122, recognizing its importance in advancing our state's commitment to clean energy, reducing carbon emissions, and alleviating the financial strain on our residents.

Thank you for your time and consideration of this vital matter.

Sincerely,

Arwen Revere on behalf of Wild Kids Hawai'i

SB-2122-SD-1

Submitted on: 2/28/2024 12:53:53 PM

Testimony for CPN on 3/1/2024 9:50:00 AM

Submitted By	Organization	Testifier Position	Testify
Phil Barnes	Individual	Support	Written Testimony Only

Comments:

With the highest electric bills in the country it is essential for all residents of Hawaii that we move dramatically toward renewable energy. As a state that is too young geologically to contain any fossil fuel deposits and the associated transportation cost to ship these fuels to Hawaii we have more incentive than any other state in the union to aggressively move to total renewable energy for our energy needs. Please support this important piece of legislation. Thank you for your concern.

SB-2122-SD-1

Submitted on: 2/27/2024 3:44:52 PM

Testimony for CPN on 3/1/2024 9:50:00 AM

Submitted By	Organization	Testifier Position	Testify
James McCay	Individual	Support	Written Testimony Only

Comments:

Another great no-brainer bill that must happen :-)

Mahalo!

James

To: The Senate Committee Ways and Means and
the Senate Committee on Commerce and Consumer Protection
From: Brodie Lockard
Date: Friday, March 1, 2024, 9:50 am

In strong support of SB2122

Dear Chairs Keohokalole and Dela Cruz and Committee Members—

The “Energy Efficiency Portfolio Standards” (or EEPS), Hawai‘i’s long-term goal to reduce statewide electricity use by 2030, has not been updated since 2009. Hawai‘i has set new goals to achieve 100% clean energy and net-zero emissions by 2045, but the EEPS goal needs to extend beyond 2030 to align planning across the state.

SB2122 would expand the EEPS from a goal of 4,300 gigawatt-hours of electricity savings by 2030 to 6,000 gigawatt-hours of savings by 2045—a crucial step to reduce carbon emissions and cut Hawai‘i’s high electric bills.

Embracing energy efficiency is a critical part of reducing carbon emissions and addressing the climate crisis that everyone seems to have forgotten about.

I urge you to pass this crucial bill.

Brodie Lockard
Founder, 350Hawaii

SB-2122-SD-1

Submitted on: 2/27/2024 4:13:23 PM

Testimony for CPN on 3/1/2024 9:50:00 AM

Submitted By	Organization	Testifier Position	Testify
JOSHUA B STRICKLER	Individual	Support	Written Testimony Only

Comments:

Aloha,

I strongly support extending the Energy Efficiency Portfolio Standard to 2045 to align with the current Renewable Portfolio Standard target date. Energy Efficiency is the most cost effective way to reach our goal of 100% renewable energy in 2045.

Joshua Strickler

Kaneohe Hawaii

SB-2122-SD-1

Submitted on: 2/27/2024 4:42:59 PM

Testimony for CPN on 3/1/2024 9:50:00 AM

Submitted By	Organization	Testifier Position	Testify
Marilyn Mick	Individual	Support	Written Testimony Only

Comments:

Aloha Chair Dela Cruz, Chair Keohokalole, Vice Chair Moriwaki, Vice Chair Fukunaga, and members of the Committees,

I am testifying in support of SB 2122, which extends the state’s energy efficiency portfolio standards beyond 2030 to 2045.

As Hawai’i progresses toward achieving its 100% renewable energy and decarbonization goals, energy efficiency remains the quickest, cheapest, and cleanest way to reduce emissions from the electricity sector, while also providing financial benefits to Hawai’i residents and businesses.

In 2009, Hawai’i established a long-term goal known as the “Energy Efficiency Portfolio Standards” (or EEPS) to reduce statewide electricity use by 4,300 gigawatt-hours by 2030. Since then, Hawai’i has made impressive progress towards clean energy and established a new mandate to achieve 100% “Renewable Portfolio Standards” by 2045, but we have yet to extend the EEPS goal beyond 2030.

I strongly support SB 2122 to expand the energy efficiency portfolio standards from a goal of 4,300 gigawatt-hours of electricity savings by 2030 to 6,000 gigawatt-hours of electricity savings by 2045. This is an important step to align state planning across the energy sector and ensure energy efficiency is factored into Hawai’i’s clean energy future.

Thank you for the opportunity to submit testimony in support.

Marilyn Mick, Honolulu 96815

SB-2122-SD-1

Submitted on: 2/27/2024 4:46:03 PM

Testimony for CPN on 3/1/2024 9:50:00 AM

Submitted By	Organization	Testifier Position	Testify
B.A. McClintock	Individual	Support	Written Testimony Only

Comments:

I am testifying in support of SB 2122, which extends the state’s energy efficiency portfolio standards beyond 2030 to 2045.

As Hawai‘i progresses toward achieving its 100% renewable energy and decarbonization goals, energy efficiency remains the quickest, cheapest, and cleanest way to reduce emissions from the electricity sector, while also providing financial benefits to Hawai‘i residents and businesses.

In 2009, Hawai‘i established a long-term goal known as the “Energy Efficiency Portfolio Standards” (or EEPS) to reduce statewide electricity use by 4,300 gigawatt-hours by 2030. Since then, Hawai‘i has made impressive progress towards clean energy and established a new mandate to achieve 100% “Renewable Portfolio Standards” by 2045, but we have yet to extend the EEPS goal beyond 2030.

I strongly support SB 2122 to expand the energy efficiency portfolio standards from a goal of 4,300 gigawatt-hours of electricity savings by 2030 to 6,000 gigawatt-hours of electricity savings by 2045. This is an important step to align state planning across the energy sector and ensure energy efficiency is factored into Hawai‘i’s clean energy future.

Thank you for the opportunity to submit testimony in support.

SB-2122-SD-1

Submitted on: 2/27/2024 8:59:36 PM

Testimony for CPN on 3/1/2024 9:50:00 AM

Submitted By	Organization	Testifier Position	Testify
Matt L	Individual	Support	Written Testimony Only

Comments:

Aloha Chair Dela Cruz, Chair Keohokalole, Vice Chair Moriwaki, Vice Chair Fukunaga, and members of the Committees,

I am testifying in support of SB 2122, which extends the state’s energy efficiency portfolio standards beyond 2030 to 2045. We need to:

- Embrace energy efficiency is a critical part of addressing climate change and reducing carbon emissions
- Remember that it’s important that we extend our energy efficiency goals to help further reduce electricity use and save millions on customer utility bills. Because Hawai‘i residents and businesses pay the highest electricity rates in the nation,
- Remind electric utility companies that Hawai‘i Energy, and other stakeholders plan is for a 100% renewable future by 2045, it is similarly necessary to extend the EEPS goal beyond 2030 to align planning across the state
- Encourage equitable, affordable access to electricity is at the heart of this measure, which is very important for Hawai‘i families and businesses, now more than ever

As Hawai‘i progresses toward achieving its 100% renewable energy and decarbonization goals, energy efficiency remains the quickest, cheapest, and cleanest way to reduce emissions from the electricity sector, while also providing financial benefits to Hawai‘i residents and businesses.

In 2009, Hawai‘i established a long-term goal known as the “Energy Efficiency Portfolio Standards” (or EEPS) to reduce statewide electricity use by 4,300 gigawatt-hours by 2030. Since then, Hawai‘i has made impressive progress towards clean energy and established a new mandate to achieve 100% “Renewable Portfolio Standards” by 2045, but we have yet to extend the EEPS goal beyond 2030.

I strongly support SB 2122 to expand the energy efficiency portfolio standards from a goal of 4,300 gigawatt-hours of electricity savings by 2030 to 6,000 gigawatt-hours of electricity savings by 2045. This is an important step to align state planning across the energy sector and ensure energy efficiency is factored into Hawai‘i’s clean energy future.

Thank you for the opportunity to submit testimony in support.

Matt L.

SB-2122-SD-1

Submitted on: 2/27/2024 11:01:31 PM

Testimony for CPN on 3/1/2024 9:50:00 AM

Submitted By	Organization	Testifier Position	Testify
Forest Frizzell	Individual	Support	Written Testimony Only

Comments:

Aloha Chair Dela Cruz, Chair Keohokalole, Vice Chair Moriwaki, Vice Chair Fukunaga, and members of the Committees,

I am testifying in support of SB 2122, which extends the state’s energy efficiency portfolio standards beyond 2030 to 2045.

As Hawai‘i progresses toward achieving its 100% renewable energy and decarbonization goals, energy efficiency remains the quickest, cheapest, and cleanest way to reduce emissions from the electricity sector, while also providing financial benefits to Hawai‘i residents and businesses.

In 2009, Hawai‘i established a long-term goal known as the “Energy Efficiency Portfolio Standards” (or EEPS) to reduce statewide electricity use by 4,300 gigawatt-hours by 2030. Since then, Hawai‘i has made impressive progress towards clean energy and established a new mandate to achieve 100% “Renewable Portfolio Standards” by 2045, but we have yet to extend the EEPS goal beyond 2030.

I strongly support SB 2122 to expand the energy efficiency portfolio standards from a goal of 4,300 gigawatt-hours of electricity savings by 2030 to 6,000 gigawatt-hours of electricity savings by 2045. This is an important step to align state planning across the energy sector and ensure energy efficiency is factored into Hawai‘i’s clean energy future.

Thank you for the opportunity to submit testimony in support.

Forest Frizzell

Waimanalo, 96795

SB-2122-SD-1

Submitted on: 2/28/2024 3:41:03 PM

Testimony for CPN on 3/1/2024 9:50:00 AM

Submitted By	Organization	Testifier Position	Testify
Paulina Castillo	Individual	Support	Written Testimony Only

Comments:

Aloha Chair Dela Cruz, Chair Keohokalole, Vice Chair Moriwaki, Vice Chair Fukunaga, and members of the Committees,

My name is Paulina Castillo, and I am testifying in support of SB 2122, which extends the state’s energy efficiency portfolio standards beyond 2030 to 2045.

As a high school student, I am beginning to realize the gravity and importance of being cost-effective. A simple idea but quite demanding in reality. I have seen the changes in my community over the past years and understand that people can fall apart without support from those in power. Many businesses have gone under when the cost of energy bills is unexpected. If we seek to empower people, dealing with energy efficiency is necessary.

Energy efficiency can be done promptly to reach the 100% renewable energy goal and decarbonize our state. It is cost-effective, a great way to decrease greenhouse gas emissions through energy usage, and has the best interest in financial benefits for businesses and individuals.

I strongly support SB 2122, which will allow Hawai‘i to continue strengthening the energy efficiency portfolio standards from 4,300 gigawatt-hours of electricity savings by 2030 to 6,000 gigawatt-hours of electricity savings by 2045. This is a crucial step to align state planning across the energy sector and ensure energy efficiency is factored into Hawai‘i’s clean energy future.

Mahalo for the opportunity to submit testimony in support.

Paulina Theresa Castillo

Kailua Kona, HI, 96740