



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.
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SYLVIA LUKE
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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 Energy, Economic Development, and Tourism
Thursday, March 14, 2024
1:01 p.m.
Conference Room 229**

**On the following measure:
H.B. 1828, H.D. 1, RELATING TO ENERGY-EFFICIENCY PORTFOLIO STANDARDS**

Chair DeCoite and Members of the Committee:

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 update the standards; and (2) authorize the Public Utilities Commission (Commission) to adjust the 2045 and interim standards.

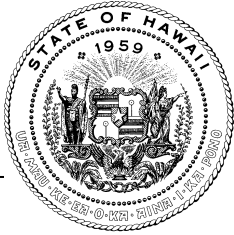
The Department believes that energy efficiency can and should play an important role in Hawaii's efforts to transition to clean energy and recognizes that energy efficiency is viewed often as the most cost-effective means to contribute to the State's clean energy goals. The cost-effectiveness of energy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

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

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.



HAWAII STATE ENERGY OFFICE STATE OF HAWAII

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LT. GOVERNOR

MARK B. GLICK
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Testimony of
MARK B. GLICK, Chief Energy Officer

before the
SENATE COMMITTEE ON ENERGY, ECONOMIC DEVELOPMENT, AND TOURISM

Thursday, March 14, 2024
1:01 PM
State Capitol, Conference Room 229 and Videoconference

In Support of
HB 1828, HD1

RELATING TO ENERGY-EFFICIENCY PORTFOLIO STANDARDS.

Chair DeCoite, Vice Chair Wakai, and members of the Committee, the Hawai'i State Energy Office (HSEO) supports HB 1828, HD1, 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 that 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 significant 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

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

Decarbonization Study that "energy efficiency and conservation" is the most important and cost-effective means to reduce electricity demand, 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.

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 ENERGY, ECONOMIC DEVELOPMENT AND TOURISM
Thursday, March 14, 2024, 1:01 PM
State Capitol, Conference Room 229
in consideration of
House Bill No. 1828, HD1
RELATING TO ENERGY-EFFICIENCY PORTFOLIO STANDARDS

Chair DeCoite, Vice Chair Wakai, and Members of the Committee:

Thank you for the opportunity to testify on HB 1828, HD1, 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 HB 1828, HD1.

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

TO THE
SENATE COMMITTEE ON
ENERGY, ECONOMIC DEVELOPMENT, AND TOURISM

Thursday, March 14, 2024
1:01 p.m.

Chair DeCoite, Vice Chair Wakai, and Members of the Committee:

MEASURE: H.B. 1828 HD1

TITLE: RELATING TO ENERGY EFFICIENCY PORTFOLIO STANDARDS

DESCRIPTION: Extends the State's energy-efficiency portfolio standards from 2030 to 2045 and updates the standards. Authorizes the public utilities commission to adjust the 2045 and interim standards. Effective 7/1/3000.

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, SLH 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 fifteen 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'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

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

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 offerings to Hawaii's residents and businesses, and would align with our state's Renewable Portfolio Standard target date. The Commission also notes the significant importance of energy efficiency as a lowest-cost and non-emitting resource during this critical time, as is also highlighted in Hawaiian Electric's current Integrated Grid Planning process, as well as in the Hawaii State Energy Office's recently published Decarbonization Report.

The Commission suggests removal of the defective date and recommends this bill should become effective on passage.

Thank you for the opportunity to testify on this measure.

OFFICE OF ECONOMIC DEVELOPMENT

NALANI BRUN, DIRECTOR



DEREK S.K. KAWAKAMI, MAYOR
REIKO MATSUYAMA, MANAGING DIRECTOR

Testimony of Christina Kaser

Energy Coordinator, Office of Economic Development, County of Kaua'i

Before the

Senate Committee on Energy, Economic Development, and Tourism

March 14, 2024; 1:01 p.m.

Conference Room 229 & Via Videoconference

In consideration of

House Bill 1828 HD1

Relating to Energy-Efficiency Portfolio Standards

Honorable Chair DeCoite, Vice Chair Wakai, and Members of the Committee:

The County of Kaua'i is in **support** of House Bill 1828 HD1, which extends the State's energy-efficiency portfolio standards from 2030 to 2045 and updates the standards; and which authorizes the public utilities commission to adjust the 2045 and interim standards.

The County of Kaua'i is supportive of energy efficiency measures to both reduce our electricity consumption and allow our residents and businesses to save money on electricity bills. The impact of the existing EEPS target has been evident with KIUC's creation of successful energy-saving programs for our community.

Since 2009, Hawai'i has made substantive progress towards its clean energy goals to achieve 100% renewable energy by 2045, with KIUC having nearly reached 70% RPS in 2021. To meet our Statewide goal, it is important not to just transition our energy sources, but to also reduce our pull from the grid and overall usage. Extending the target date of our EEPS to 2045 would ensure continued impact of energy efficiency programming benefits, as well as aligning with our state's Renewable Energy Portfolio Standard target date.

Thank you for the opportunity to testify in **support** of HB1828 HD1.

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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RICK BLANGIARDI
MAYOR
MEIA



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

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

THURSDAY, MARCH 14, 2024, 1:01 P.M.

STATE OF HAWAII
SENATE COMMITTEE ON ENERGY, ECONOMIC DEVELOPMENT, AND TOURISM

TESTIMONY ON HOUSE BILL 1828, HD1
RELATING TO ENERGY-EFFICIENCY PORTFOLIO STANDARDS

BY,

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

Dear Chair DeCoite, Vice Chair Wakai, and Members of the Committee:

The City and County of Honolulu ("City") Office of Climate Change, Sustainability and Resiliency (CCSR) **supports HB1828, HD1**, 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 the broader built environment via programs such as the Better Buildings Benchmarking

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 DeCoite and Vice Chair Wakai
HB1828, HD1
March 14, 2024
Page 2

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 HB1828, HD1.

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



Email: communications@ulupono.com

SENATE COMMITTEE ON ENERGY, ECONOMIC DEVELOPMENT & TOURISM
Thursday, March 14, 2024 — 1:01 p.m.

Ulupono Initiative supports HB 1828 HD1, Relating to Energy-Efficiency Portfolio Standards.

Dear Chair DeCoite 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 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 HB 1828 HD1, which extends the State's energy-efficiency portfolio standards from 2030 to 2045 and updates the standards. This bill also authorizes the Public Utilities Commission to adjust the 2045 and interim standards.

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 in the reduction of energy demand, even *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

¹Hawai'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>

² See 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>

Investing in a Sustainable Hawai'i



SENATE COMMITTEE ON ENERGY, ECONOMIC DEVELOPMENT, AND TOURISM

March 14, 2024, 1:01 PM

Room 229

TESTIMONY IN SUPPORT OF HB 1828 HD1

Aloha Chair DeCoite, Vice Chair Wakai, and members of the Committee,

Blue Planet Foundation **strongly supports HB 1828 HD1**, 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 of electricity savings.

In December 2023, the Hawai'i State Energy Office released its Statewide Decarbonization Strategy pursuant to Act 238 (2022). The report highlights how Hawai'i can achieve its statewide goals for a 50% reduction in greenhouse gas emissions by 2030 and net-negative emissions by 2045, which would align the state with global targets that scientists say we need to meet in order to avoid the worst impacts of climate change.

The 350-page report laid bare the harsh reality for Hawai'i's transition— more aggressive action must be taken in all economic sectors to meet the state's mandate to cut its carbon emissions to net-zero. Under the current "business-as-usual" scenario, which already assumes we meet our 100% clean energy goals, Hawai'i will fall short and only reach a 54% decline in economy-wide emissions by 2045.¹

Notably, the report reaffirms how critical energy efficiency and energy conservation is to achieve our decarbonization goals. As the executive summary states (on page 4):

"The results of the quantitative analysis in this report indicate and reaffirm that **demand or load reductions** resulting from **aggressive energy efficiency measures are the most cost-effective measures to reduce emissions**; with the second scenario which focused on demand reduction showing net-savings, compared to the reference scenario. While this may not be the most glamorous path forward, the results are clear – energy efficiency saves people money and provides the foundation for substantial emissions reduction potential."

¹ "Hawaii Pathways to Decarbonization", *Hawaii State Energy Office*, December 2023 (https://energy.hawaii.gov/wp-content/uploads/2024/01/Act-238_HSEO_Decarbonization_Report.pdf).

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.

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. We strongly support this bill and encourage an extension to our EEPS goal to further our state's climate progress in an equitable and affordable way.

Thank you for the opportunity to testify in **strong support of HB 1828**.



Before the Senate Committee on Energy, Economic Development, and Tourism
Thursday, March 14, 2024 at 1:01 p.m.

Testimony in Support of HB1828 HD1: Relating to Energy-Efficiency Portfolio Standards

Chair DeCoite, Vice Chair Wakai, and Members of the Committee:

Thank you for the opportunity to testify in support and provide comments on House Bill 1828 HD1.

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 HB1828 HD1 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 House Bill 1828 HD1.

Sincerely,
Caroline Carl
Executive Director
Hawai'i Energy

HB-1828-HD-1

Submitted on: 3/12/2024 10:05:01 AM

Testimony for EET on 3/14/2024 1:01:00 PM

Submitted By	Organization	Testifier Position	Testify
Susan Lord	Testifying for JM Sales Hawaii	Support	Written Testimony Only

Comments:

Aloha Chair DeCoite, Vice Chair Wakai, and members of the Committee,

As Vice President of a small local business, I am testifying on behalf of our business in support of HB 1828, which extends the state’s energy efficiency portfolio standards beyond 2030 to 2045.

Efficiency is how our business stays alive in these changing times. It is imperative that you make this investment into our future, to strengthen our ability to be energy independent and cost effective. Renewable energy is now so much cheaper than fossil fuels and we need every advantage to assist business with cost savings. Make local business profitable and we can reinvest our saving in the local environment.

Please 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 2035. 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.

Mahalo Susan Lord, JM Sales Hawaii

HB-1828-HD-1

Submitted on: 3/12/2024 12:38:57 PM

Testimony for EET on 3/14/2024 1:01:00 PM

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

Comments:

Aloha Chair DeCoite, Vice Chair Wakai, and members of the Committee,

My name is Arwen Revere, and I am testifying in support of HB 1828, which extends the state's energy efficiency portfolio standards beyond 2030 to 2045 on behalf of the student-run environmental organization Wild Kids Hawai'i. As young people, we see the value in protecting our environment for future generations and making adaptations today.

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.

We strongly support HB 1828 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.

Arwen Revere on behalf of Wild Kids Hawai'i



**Hawaiian
Electric**

**TESTIMONY BEFORE THE SENATE COMMITTEE ON
ENERGY, ECONOMIC DEVELOPMENT, & TOURISM**

**HB 1828, HD1
Relating to Energy-Efficiency Portfolio Standards**

Thursday, March 14, 2024
1:01 PM
State Capitol, Conference Room 229

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

Dear Chair DeCoite, Vice Chair Wakai, and Members of the Committee,

My name is Ka'iulani Shinsato and I am testifying on behalf of Hawaiian Electric in **support** of HB 1828, HD1, Relating to Energy-Efficiency Portfolio Standards.

HB 1828, HD1 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 HB 1828, HD1.



TESTIMONY FROM THE DEMOCRATIC PARTY OF HAWAII
SENATE COMMITTEE ON ENERGY, ECONOMIC DEVELOPMENT, AND TOURISM
MARCH 14, 2024
HB 1828, HD1, RELATING TO ENERGY-EFFICIENCY PORTFOLIO STANDARDS
POSITION: SUPPORT

The Democratic Party of Hawai'i **supports** HB 1828, HD1, 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

(808) 679-7454

kriscoffield@gmail.com

Abby Simmons

Co-Chair, Legislative Committee

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**Building Decarbonization Task Force
Hawai'i Environmental Change Agents**

HawaiiChangeAgents@gmail.com
hawaiichangeagents.org

March 12, 2024

SUPPORT FOR HB1828 HD1 – Relating to Renewable Energy

Aloha Chair DeCoite, Vice Chair Wakai, and Committee Members,

The Building Decarbonization Task Force of the Hawai'i Environmental Change Agents supports HB1828 HD1, which “Extends the State's energy-efficiency portfolio standards from 2030 to 2045 and updates the standards. Authorizes the public utilities commission to adjust the 2045 and interim standards.”

Hawai'i Environmental Change Agents (HECA) consists of ten task forces; one of which is the Building Decarbonization Task Force. This task force supports HB1828 HD1 for the following reasons:

- 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. The HSEO's December 2023 Hawaii Pathways to Decarbonization study found energy efficiency measures to be cost-effective.
- As the State moves to electrify transportation, energy efficiency efforts are an important tool for cost-effectively reducing the State's need for additional generating resources to meet this growing demand.
- The recent Market Potential Study (2020) indicates that Hawaii is on track to meet and exceed the established 2030 target of 4,300 GWh of energy savings (Applied Energy Group (2020). State of Hawaii Market Potential Study. <https://www.hawaiiieps.org/8-5-2020-market-potential-study-re>). Extending the target date to 2045 would ensure continued impact of energy efficiency programming benefits, as well as aligning with our state's Renewable Portfolio Standard target date.

Thank you for this opportunity to testify.

Please support HB1828 HD1.

Mahalo,
Building Decarbonization Task Force of HECA (by Paul Bernstein)



To: The Senate Committee on Energy, Economic Development, and Tourism (EET)
From: Sherry Pollack, 350Hawaii.org
Date: Thursday, March 14, 2024, 1:01pm

In support of HB1828 HD1

Aloha Chair DeCoite, Vice Chair Wakai, and members of the EET Committee,

I am Co-Founder of the Hawaii chapter of 350.org, the largest international organization dedicated to fighting climate change. 350Hawaii.org **supports HB1828 HD1** 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

HB-1828-HD-1

Submitted on: 3/12/2024 10:27:14 PM

Testimony for EET on 3/14/2024 1:01:00 PM

Submitted By	Organization	Testifier Position	Testify
Ted Bohlen	Testifying for Climate Protectors Hawaii	Support	Written Testimony Only

Comments:

Climate Protectors Hawaii is in **STRONG SUPPORT** of this bill!

Energy efficiency is the "low-hanging fruit," the most cost-beneficial measures as a group. The bill will save customers money after a brief payback period and reduce pollution of the environment. It is a "no-brainer" to extend the energy-efficiency portfolio standards from 2030-2045, update the standards, and authorize the PUC to establish interim goals and adjust the 2045 and interim standards, as this bill would do.

Please pass this bill!

Mahalo!

Citizens' Climate Lobby Hawai'i
hi.ccl.lobby@gmail.com
cclhawaii.org



March 13, 2024

SUPPORT FOR HB1828 HD1 – Relating to Renewable Energy

Aloha Chair DeCoite, Vice Chair Wakai, and Committee Members,

Citizens Climate Lobby Hawai'i supports HB1828 HD1, which “Extends the State's energy-efficiency portfolio standards from 2030 to 2045 and updates the standards. Authorizes the public utilities commission to adjust the 2045 and interim standards.”

We support HB1828 HD1 for the following reasons:

- 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. The HSEO's December 2023 Hawaii Pathways to Decarbonization study found energy efficiency measures to be cost-effective.
- As the State moves to electrify transportation, energy efficiency efforts are an important tool for cost-effectively reducing the State's need for additional generating resources to meet this growing demand.
- The recent Market Potential Study (2020) indicates that Hawaii is on track to meet and exceed the established 2030 target of 4,300 GWh of energy savings (Applied Energy Group (2020). State of Hawaii Market Potential Study. <https://www.hawaiiieps.org/8-5-2020-market-potential-study-re>). Extending the target date to 2045 would ensure continued impact of energy efficiency programming benefits, as well as aligning with our state's Renewable Portfolio Standard target date.

Thank you for this opportunity to testify.

Please support HB1828 HD1.

Mahalo,
Citizens Climate Lobby Hawai'i

Citizens' Climate Lobby (CCL) is a nonprofit, nonpartisan, grassroots advocacy organization focused on national policies to address climate change solutions. CCL Hawaii's 1000+ members are part of a 180,000+ global organization. For more information, visit citizensclimatelobby.org.



Hawaii Solar Energy Association
Serving Hawaii Since 1977

Testimony of The Hawaii Solar Energy Association (HSEA) Regarding HB1828 HD1, Relating to Energy-Efficiency Portfolio Standards, Before the Senate Committee on Energy, Economic Development, and Tourism

Thursday, March 14, 2023

Aloha Chair DeCoite, Vice Chair Wakai, and committee members:

The Hawaii Solar Energy Association (HSEA) **supports HB1828 HD1**, 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 HB1828 HD1**.

Respectfully,

/s/ Rocky Mould

Rocky Mould
Executive Director



Environmental Caucus of
The Democratic Party of Hawai'i

Energy & Climate Action Committee

Thursday, March 14, 2024, 1:01 pm

Senate Committee on Energy, Economic Development and Tourism, and on and Environmental Protection

HOUSE BILL 1828 – RELATING TO ENERGY EFFICIENCY PORTFOLIO STANDARDS

Position: Support

Me ke Aloha Chair DeCoite, Vice-Chair Wakai, and members of the Senate Committee on Energy, Economic Development and Tourism, and on and Environmental Protection:

HB1828 extends the State's energy efficiency portfolio standards from 2030 to 2045, and authorizes the Public Utilities Commission to establish interim goals, clarifying procedures.

Energy and Climate Action Committee supports this measure, recognizing the efforts of private parties, government agencies, and the energy providers to save energy and money by addressing efficiency concerns in buildings, infrastructure, and other technologies. These are widely understood to be the most cost-effective measures toward meeting Hawaii's energy goals. As the current portfolio standards run only to 2030, they need to be updated to correspond to the energy standards set for 2045. In keeping with Hawaii's energy goals, the Public Utility Commission is the appropriate agency to oversee this updating.

Mahalo for providing the opportunity to address this matter.

/s/ Charley Ice, Chair, Energy and Climate Action Committee
Environmental Caucus of the Democratic Party

HB-1828-HD-1

Submitted on: 3/12/2024 9:07:05 AM

Testimony for EET on 3/14/2024 1:01:00 PM

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

Comments:

Aloha Chair DeCoite, Vice Chair Wakai, and members of the Committee,

I am testifying in support of HB 1828, 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 HB 1828 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

HB-1828-HD-1

Submitted on: 3/12/2024 11:42:45 AM

Testimony for EET on 3/14/2024 1:01:00 PM

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

Comments:

Updating Hawaii's energy efficiency portfolio standards should results in 1) improved health for Hawaii citizens due to reduced air pollution; 2) savings on electricity bills for Hawaii ratepayers; and 3) reduced carbon emissions reducing our impact on the climate that sustains us. This is a win-win-win for the people of Hawaii. Please pass HB 1828.

HB-1828-HD-1

Submitted on: 3/12/2024 9:50:00 AM

Testimony for EET on 3/14/2024 1:01:00 PM

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

Comments:

Aloha Chair DeCoite, Vice Chair Wakai, and members of the Committee,

I am testifying in strong support of HB 1828, which extends the state’s energy efficiency portfolio standards beyond 2030 to 2045.

In going forward, we set on a mission for our home, our islands, our families now and in the future, the environment and a moral obligation to ourselves. Let's honor this commitment in its entirety!

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 HB 1828 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

HB-1828-HD-1

Submitted on: 3/12/2024 5:21:44 PM

Testimony for EET on 3/14/2024 1:01:00 PM

Submitted By	Organization	Testifier Position	Testify
Ruth Robison	Individual	Support	Written Testimony Only

Comments:

To: Chair DeCoite, Vice Chair Wakai, and members of the EET Committee,

I am testifying in support of HB 1828, which extends the state’s energy efficiency portfolio standards beyond 2030 to 2045.

My name is Ruth Robison and I live in Hilo.

As you know, Hawai`i has the highest cost of electricity in the nation. Energy efficiency is an important way for people in Hawai`i to lower their energy bills.

This bill realigns the energy efficiency portfolio standards with the timeline for the State’s renewable portfolio standards, extending the target date to 2045, and allows the PUC to set interim standards to maximize cost-effective energy-efficiency programs and technologies to meet the State’s clean energy goals.

There is consensus among the PUC’s 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, thus negating the need to develop more electricity generation.”

Therefore, I urge you to pass HB1828.

Thank you for the opportunity to submit testimony.

HB-1828-HD-1

Submitted on: 3/12/2024 10:49:32 PM

Testimony for EET on 3/14/2024 1:01:00 PM

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

Comments:

As an island state we are far more susceptible to the dangers of climate change than the mainland. By increasing the portfolio standards we can push even faster to limit our production of greenhouse gases. Thank you for your consideration.

HB-1828-HD-1

Submitted on: 3/13/2024 4:25:42 AM

Testimony for EET on 3/14/2024 1:01:00 PM

Submitted By	Organization	Testifier Position	Testify
Leigh Anne Mayberry	Individual	Support	Written Testimony Only

Comments:

Aloha Chair DeCoite, Vice Chair Wakai, and members of the Committee,

I am testifying in support of HB 1828, which extends the state’s energy efficiency portfolio standards beyond 2030 to 2045.

As a resident and business owner, it is essential that Hawaii continues to do all that we can to help take care of the land and each other. Since HB1828 achieves both of these goals and would continue to position Hawaii as a leader in renewable energy, this bill makes sense since it will both help the environment and our finances.

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 HB 1828 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.

Leigh Anne Mayberry, Honolulu, HI 96817

LATE

To: The Senate Committee on Energy, Economic Development, and Tourism
From: Brodie Lockard
Date: Thursday 3/14, 2024, 1:01 pm

In strong support of HB1828

Dear Chair DeCoite and Committee Members—

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 HB 1828 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.

Brodie Lockard
Founder, 350Hawaii



Lisa Diaz

76-223 Haa, Kailua-Kona, HI 96740
808-938-1389 scidiaz@gmail.com

LATE

March 13, 2024

**Senator Lynn De Coit, Senate District 7
RE: Full Support for HB 1828
Chair, EET: Energy, Economic Development & Tourism**

**Senator Glenn Wakai, Senate District 15
Vice Chair, EET**

**State of Hawaii Legislature
Senate Committee on Energy, Economic Development, and Tourism
415 South Beretania St.
Hawai'i State Capitol, Room 230
Honolulu, HI 96813**

Aloha mai ka mokupuni o Hawaii,

**ETE Chair, Senator De Coit, Vice Chair, Senator Wakai and all
esteemed EET Committee members,**

**Mahalo for all you do to serve our aloha state, by protecting our
environment.**

As a 30-year resident of Kailua-Kona, and a 20-year West Hawaii District Science Teacher, I urge you to fully support and pass HB 1828. My former 3,000 students, and their families need a sustainable island, ocean, and planet to support their future, plus protect our sacred native species, unique environment, and culture. I did not have children of my own, as I have been dedicated to teaching my students to care for our islands, culture, and planet.

We have done well in Hawaii to develop EEPS (energy efficiency portfolio standards) and establish our goal of 100% clean energy and net-zero emissions by 2045. Hawaii has made great progress so far; however, we need to keep moving forward quickly to align, update and extend Hawaii's EEP standards to include new technologies to improve energy efficiency, obtain essential federal funding, and educate all of our workers and citizens on making net zero our reality. We urgently need to step up our progress—we do not have time to waste. Scientific evidence overwhelmingly supports that we must act to eliminate greenhouse gas emissions, and foster sustainability for our Planet's survival.

Passing HB1828 will provide many economic benefits to our state, local businesses, and local families, by increasing energy efficiency and reducing energy costs. Hawaii residents suffer economically by being burdened with the highest energy costs in the USA. **Hawaii Island**

has the highest energy rates in our state, even though we have great natural potential with geo-thermal, solar, wind, OTEC and potential wave power, our infrastructure is far behind what we need. Hawaii Island residents travel great distances to get to work and school. We do not have enough EV chargers, clean energy public transport and school buses. We have only 1 airport runway in Kona, and we are supporting record tourism over last 2 years and moving forward in 2024/25. HECO still burns diesel fuel at our Keahole Power plant, yet Keahole is the sunniest place on our island. We need roof-top solar, and cool roofing for ALL our public schools- not just schools on Oahu.

I am doing my part as Hawaii Island kamaaina: in my life, at home, we have net metered rooftop solar, a solar water heater, cool roofing, and EV, Plug-in EV/ Hybrid vehicles, plus we try our best to grow food and live sustainably. We offer as much help as we can to others who are in need or wish to learn. I am a patient teacher and citizen . . . sometimes we must “try wait”, however with our climate reality, we must be wikiwiki and akamai to save our future.

Passing HB 1828 is essential to align, update and improve Hawaii’s EEP standards, plus reduce energy costs for our businesses and families.

No ka wā e hiki mai ana o ko kākou Moku‘āina Aloha, nā haumāna ‘ōpio a me ka ‘ohana...

For the future of our Aloha State, our economy, youth, and families, please do all you can as legislators to pass HB1828 and all-important bills that will move Hawaii forward towards sustainability and Net Zero.

We all must do more to protect our ‘Āina, moana, a me ka honua.

CPC Committee Members, we are counting on your leadership.

Mahalo, a ho‘omau i ka hele i mua E hele!



Lisa Diaz