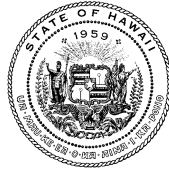


DAVID Y. IGE
GOVERNOR



CURT T. OTAGURO
COMPTROLLER
AUDREY HIDANO
DEPUTY COMPTROLLER

STATE OF HAWAII
DEPARTMENT OF ACCOUNTING AND GENERAL SERVICES
P.O. BOX 119, HONOLULU, HAWAII 96810-0119

WRITTEN TESTIMONY
OF
CURT T. OTAGURO, COMPTROLLER
DEPARTMENT OF ACCOUNTING AND GENERAL SERVICES
TO THE

COMMITTEE ON WAYS AND MEANS

APRIL 1, 2022, 10:30 A.M.
CONFERENCE ROOM 211 & VIA VIDEOCONFERENCE, STATE CAPITOL

H.B. 1801, H.D. 1, S.D. 1

RELATING TO ENERGY EFFICIENCY

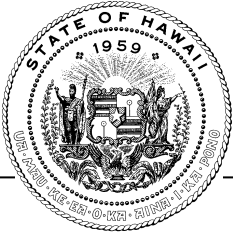
Chair Dela Cruz, Vice Chair Keith-Agaran, and Members of the Committee, thank you for the opportunity to submit testimony on H.B. 1801, H.D. 1, S.D.1.

The Department of Accounting and General Services (DAGS) appreciates the intent of the bill to increase the energy efficiency of State buildings. The department acknowledges that reducing energy consumption at public buildings is a worthwhile endeavor and should be pursued. DAGS offers the following comments for the committee's consideration:

- 1) The department feels that it is important for all to realize that the projects performed within performance contracting typically qualify for the use of Capitol Improvement Project (CIP) funds; and when performance contracting projects are performed, these projects will be paid using future operating funds. This has the effect of paying for CIP qualified projects with operating funds and will not decrease a program's expenditure of operating funds.

- 2) The department feels that it is important for all to realize that when performance contracting projects are performed, the design and construction are not subject to bidding and costs are typically much higher.
- 3) Tenants at state buildings do not have individualized meters. A 30% reduction in energy consumption may be achievable by implementing energy saving measures and policies. An example would be providing authority for State agencies that manage State facilities to eliminate or control the amount refrigerators each tenant has.

Thank you for the opportunity to submit testimony on this matter.



HAWAII STATE ENERGY OFFICE STATE OF HAWAII

LATE

DAVID Y. IGE
GOVERNOR

SCOTT J. GLENN
CHIEF ENERGY OFFICER

235 South Beretania Street, 5th Floor, Honolulu, Hawaii 96813
Mailing Address: P.O. Box 2359, Honolulu, Hawaii 96804

Telephone: (808) 587-3807
Web: energy.hawaii.gov

Testimony of
SCOTT J. GLENN, Chief Energy Officer

before the
SENATE COMMITTEE ON WAYS AND MEANS

Friday, April 1, 2022
10:30 AM
State Capitol, Conference Room 211 & Videoconference

**SUPPORT
HB 1801, HD1, SD1
RELATING TO ENERGY EFFICIENCY.**

Chair Dela Cruz, Vice Chair Keith-Agaran, and Members of the Committee, the Hawaii State Energy Office (HSEO) supports HB 1801, HD1, SD1, which requires and establishes deadlines for all state facilities, except for smaller facilities, to implement cost-effective energy efficiency measures; directs HSEO to collect utility bill and energy usage data for state-owned buildings and to make the data publicly available; provides that agencies that perform energy efficiency retrofitting may continue to receive appropriations for such measures; and beginning 7/1/2023, requires, where feasible and cost-effective, the design of all new state building construction to maximize energy and water efficiency, maximize energy generation potential, and use building materials that reduce the carbon footprint of the project.

HSEO supports HB 1801, HD1, SD1, to maximize the near-term savings and long-term energy performance of state buildings. The objectives of energy efficiency, cost control, lower energy bills, and leading by example outlined in HB 1801, HD1, SD1, are consistent with HSEO's mission in accordance with Section 196-71(a), Hawai'i Revised Statutes. It is also consistent with the Chief Energy Officer's duties, set forth in Section [196-72](#) of the Hawai'i Revised Statutes, to "provide technical assistance to state and county agencies to assess and implement projects and programs related to energy conservation and efficiency, renewable energy, clean transportation, energy resiliency, and related measures."

HSEO agrees that energy efficiency is the most cost-effective way to reduce energy usage and works with state agencies in Hawai'i on facility benchmarking, energy audits, and energy savings performance contracts. HSEO has observed that there are always more, and sometimes new, energy savings and bill reduction opportunities.

HSEO also agrees that designing new state buildings to maximize energy and water efficiency, identifying energy generation potential, and using building materials that reduce the carbon footprint, where feasible and cost-effective, are in alignment with the State's clean energy and decarbonization goals.

HSEO is working closely with Hawai'i Energy and state agencies on an energy efficiency for state buildings project to assess and promote opportunities to reduce energy use. HSEO has consistently been measuring facility electricity reduction using 2005 as the baseline year. The use of 2005 as the baseline year is also consistent with the United States' baseline year for its commitment pursuant to the Paris Agreement, which Hawai'i committed to support and to "be aligned with" in Part I of [Act 32 of 2017](#). HSEO's analysis shows since 2005, state agencies' total electricity consumption has declined by 20 percent. HSEO believes with Legislative and Administrative support, that amount can increase to 25 percent to reach the target goal by 2025.

To effectively and efficiently achieve Hawai'i's renewable energy and decarbonization goals, high quality, reliable energy data is necessary for the transformation of Hawaii's energy system and to support economic development and innovation. Act 122, SLH 2019, recognized this by tasking HSEO with leading data governance for energy. HSEO is responsible to identify, track, and report key performance measures and milestones related to the State's energy and decarbonization goals. The Senate Committee on Ways and Means is currently considering HB 1600 HD1 for decision making. HB 1600 HD1 provides general funds for a cloud-hosted data lake at HSEO to serve as a single source repository for energy-related data, and other data that have been identified as necessary to fuel a data-driven approach to analyzing, formulating, and recommending policies and plans to achieve the State's energy goals. One of the driving outcomes of the project is to increase data sharing and information dissemination. HB 1600 HD1 also provides a position and funds

for a Data Science Specialist. The position will support operating a data governance framework for data policies, standards and practices to achieve the required level of consistency, quality and protection to meet specific office needs. The position will interface with state departments, county agencies, industry, public, and other stakeholder groups in an effort to design, develop, and implement this framework. Sharing monthly utility bill and energy usage data for state-owned facilities through a portal such as the data lake supported by the Data Science Specialist would greatly increase the accessibility and reproducibility of datasets and allow for streamlined data updates should that budget become adopted into law.

HSEO's analysis shows since 2005, state agencies' total electricity consumption has declined by 20 percent. HSEO believes with Legislative and Administrative support, that amount can increase to 25 percent to reach the target goal by 2025.

Thank you for the opportunity to testify.



Before the Senate Committee on Ways and Means
Friday, April 1, 2022 at 10:30a.m.

Testimony in Support of HB1801 HD1 SD1: Relating to Energy Efficiency

Chair Dela Cruz, Vice Chair Keith-Agaran, and Members of the Committee:

Thank you for the opportunity to testify in support and provide comments on House Bill 1801 HD1 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 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 for State facilities. As reported in the Hawai'i State Energy Office's [2021 Annual Report \(pg. 30\)](#), government agencies saw a 20.1% reduction in electricity usage for State buildings over a 2005 baseline. Plus, the State has benefitted from a successful Energy Savings Performance Contract (ESPC) program that drove a significant level of energy savings projects between 2009 and 2015.

However, ESPC procurements have significantly dropped since 2015, due to a number of potential factors, including previously completed projects and other non-energy priorities among others. With advances in technologies that increase efficiency coupled with the number of buildings that are still largely inefficient, opportunity remains for further improvement. ESPCs have demonstrated the ability to help the State save money without any capital budget allocation, which is now more important than ever.

This bill requires the State agencies to implement cost-effective energy efficiency measures, meaning that the savings will be greater than the cost of upgrade. Given Hawai'i has the highest energy rates in the country, energy efficiency can deliver significant cost savings which need to be harvested during these challenging budgetary times. Upgrades that cannot pay for themselves do not need to be implemented, ensuring fiscal responsibility.

Tackling energy use at state facilities will take time, manpower, and, in some instances, funding. State agencies have the flexibility to implement energy efficiency measures through ESPC, but it could also be funded through the Green Energy Market Securitization (GEMS) so that no upfront capital is required. The legislation does not limit state agencies from also funding the upgrades through capital improvement budgets if that is preferred. With increased federal funding for energy efficiency and green banks, there isn't a better time for the State to move forward.

We appreciate the efforts made by the State Legislature, the Hawai'i State Energy Office and other State agencies, and various stakeholders to improve on the 2021 version. Thank you for the opportunity to testify in support of House Bill 1801 HD1 SD1.

Sincerely,
Brian Kealoha
Executive Director
Hawai'i Energy

HB-1801-SD-1

Submitted on: 3/30/2022 4:08:44 PM

Testimony for WAM on 4/1/2022 10:30:00 AM

Submitted By	Organization	Testifier Position	Testify
Mark Henry Deakos	Testifying for Hawaii Association for Marine Education and Research	Support	Written Testimony Only

Comments:

Aloha Chair Dela Cruz, Vice Chair Keith-Agaran, and members of the Committee,

I am testifying in support of House Bill 1801, proposing to implement cost-effective energy efficiency measures for state facilities.

I am the President and Chief scientist of the Hawaii Association for Marine Education and Research and we advocate for measures that protect and preserve our precious marine resources for future generations. A transition to clean energy aligns with that mission.

Energy efficiency is a critical component of Hawai'i's renewable energy future and will play a significant role in reaching the state's 100% clean energy requirement by 2045. Though some progress has occurred in recent years, state buildings are still one of the largest consumers of electricity in Hawai'i. While residents do their part in their own homes, the state must lead by example in changing our energy culture.

HB 1801 will not only help support the resilient, clean energy future that is necessary for our islands to thrive, it will also bolster our local economy and provide new jobs. This energy efficiency measure will reduce the cost of state energy bills for taxpayers while simultaneously providing jobs to our state, which is still recovering from the effects of the pandemic.

By implementing energy efficiency measures in state buildings, Hawai'i can once again demonstrate that our islands are committed to taking action against climate change. HB 1801 shows that the state will lead by example and serve as a model for residents and the private sector for our clean energy transformation.

Please pass HB 1801 to support Hawai'i's clean energy future.

Thank you,

Mark Deakos, PhD

Lahaina, HI 96761



SENATE COMMITTEE ON WAYS & MEANS

April 1, 2022, 10:30 A.M.

Conference Room 211 and Video Conference

TESTIMONY IN SUPPORT OF HB 1801 HD1 SD1, SUGGESTED AMENDMENT

Aloha Chair Dela Cruz, Vice Chair Keith-Agaran, and members of the Committee:

Blue Planet Foundation **supports HB 1801**, an important energy efficiency measure that will reduce the taxpayer burden of state energy bills, create new jobs in clean energy, and decrease our carbon emissions. What's more, passing this measure will demonstrate that State government leads by example. We offer a suggested amendment at the end of this testimony.

House Bill 1801 Is Needed Today

Energy efficiency is foundational to achieve Hawai'i's critical clean energy and climate objectives, such as the state's 100% renewable energy requirement, carbon neutrality goal, and commitments to the Paris climate targets. House Bill 1801 amplifies existing state efficiency efforts and brings renewed focus to the successful Energy Savings Performance Contract program. The measure also brings needed transparency on state building energy use to make visible even more savings opportunities. Finally, HB 1801 ensures that new construction anticipates our future energy and climate goals by maximizing feasible and cost-effective energy efficiency and energy generation design features and using building materials that reduce the carbon footprint of the project.

While the state has made some strides toward energy efficiency, considerable opportunities remain to decarbonize state buildings and reduce energy costs for taxpayers. The facilities that the State of Hawai'i owns and/or manages comprise one of the largest electricity users in the state. While the use of energy savings performance contracting—mainly during the period between 2009 and 2014—helped some agencies reduce their energy consumption, many agencies did not participate. Since that time, technology has evolved significantly and is far more efficient, resulting in greater cost-saving benefits for the state.

HRS 196-19 states "Agencies shall retire inefficient equipment on an accelerated basis where replacement results in lower life-cycle costs." Instead, the State continues to utilize old and inefficient equipment in many facilities that do not meet this requirement and waste taxpayer money. House Bill 1801 would help to identify new energy savings opportunities and revitalize the successful performance contracting program.

info@blueplanetfoundation.org

126 Queen Street Suite 204 • Honolulu, Hawai'i 96813 • 808-954-6161 • blueplanetfoundation.org

Suggested Amendment

Blue Planet respectfully requests that the bill be amended to reinstate the 30% goal for reducing energy consumption in state buildings. **Establishing an energy reduction target to guide decision-making and ensure that larger energy- and cost-saving measures are pursued is a best practice seen in similar policies in other states.**¹ State agencies in Hawai'i have already reduced energy consumption roughly 20.1% since 2005.² Setting a goal beyond what has already been achieved—such as the 30% goal in the HD1 version of the bill—is both reasonable and attainable. Setting an energy reduction goal will ensure that deeper energy efficiency upgrades and their associated cost savings for taxpayers are pursued, rather than merely “checking the box” on the lowest hanging fruit. **If Hawai'i hopes to achieve its vision of a carbon negative economy by 2045, we must ensure we are taking action to reduce emissions now and that our state-level goals put us on track to actually achieve that vision.**

Conclusion

House Bill 1801 is a keystone energy efficiency measure that will reduce the taxpayer burden of state energy bills, create new jobs in clean energy, and decrease our carbon emissions. At its core, however, HB 1801 is about more than just operating efficient buildings. This measure is a promise that the state will lead by example and serve as a model for residents and the private sector for our clean energy transformation.

Thank you for the opportunity to provide testimony.

¹ See *Public Building Requirements*, American Council for an Energy-Efficiency Economy (ACEEE), <https://database.aceee.org/state/public-building-requirements>

² See *Hawaii State Energy Office 2021 Annual Report*, at 30, https://energy.hawaii.gov/wp-content/uploads/2022/01/HSEO_2021_Annual_Report_1.4-3.pdf



Email: communications@ulupono.com

SENATE COMMITTEE ON WAYS & MEANS
Friday, April 1, 2022 — 10:30 a.m.

Ulupono Initiative supports the intent of HB 1801 HD 1 SD 1 and offers comments.

Dear Chair Dela Cruz 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 and clean transportation; and better management of freshwater and waste.

Ulupono supports the intent of HB 1801 HD 1 SD 1 and offers comments. This bill requires and establishes deadlines for State facilities, except smaller facilities, to implement cost-effective energy efficiency measures; directs the Hawai'i State Energy Office to collect utility bill and energy usage data for State-owned buildings and to make the data publicly available; and, beginning 7/1/2023, requires, where feasible and cost-effective, the design of all new State building construction to maximize energy and water efficiency, maximize energy generation potential, and use building materials that reduce the carbon footprint of the project.

Ulupono supports energy efficiency measures to lower consumption across the State. As Hawai'i's energy issues become increasingly complex and challenging, we appreciate this committee's efforts to look at policies that reduce the State's overall energy demand, which in return should save the State, and taxpayers, money. We believe that establishing a State goal, similar to the House Draft 1, and including a deadline, as mentioned by the testimony of the Hawai'i State Energy Office, will guide overall State energy efficiency adoption. As such, we recommend adding the following language:

§196- Reduction of electricity consumption of state facilities. It shall be the goal of the State to achieve at least a thirty per cent reduction in electricity consumption of state-owned facilities by 2030, using 2005 as the baseline year.

Meeting the State's 100% renewable goal by 2045 will require everyone's commitment and it is important for the State government to lead the way.

Thank you for the opportunity to testify.

Respectfully,

Micah Munekata
Director of Government Affairs

Investing in a Sustainable Hawai'i



To: The Senate Committee on Ways and Means
From: Sherry Pollack, 350Hawaii.org
Date: Friday, April 1, 2022, 10:30am

In support of HB1801 HD1

Aloha Chair Dela Cruz, Vice Chair Keith-Agaran, and Committee members of Ways and Means,

I am Co-Founder of the Hawaii chapter of 350.org, the largest international organization dedicated to fighting climate change. 350Hawaii.org **supports the HB1801 HD1 version of this measure** that would reduce the taxpayer burden of state energy bills and decrease our carbon emissions.

One of the areas where the State can **lead in reducing greenhouse gas emissions** while at the same time **maximizing savings of taxpayer dollars**, is by installing energy efficient equipment and taking energy efficiency measures at State facilities. To better ensure that this measure can fulfill its purpose, however, we urge you to **strike changes added in SD1** which removed language that established a goal for the State to achieve at least 30% reduction in the electricity consumption of state facilities. We need to set goals, otherwise we will not achieve them. **Please amend this bill by putting the goal to achieve at least 30% reduction in the electricity consumption of state facilities back in the language of this important measure as was in the HD1 version.** This will help substantially in reducing greenhouse gases and addressing our existential climate crisis while saving taxpayers money via energy efficiency.

We need to set and establish a goal to ensure efforts are made to achieve that goal.

Mahalo for the opportunity to testify in **support with amendments** for this important legislation.

Sherry Pollack
Co-Founder, 350Hawaii.org

HB-1801-SD-1

Submitted on: 3/31/2022 10:24:45 AM

Testimony for WAM on 4/1/2022 10:30:00 AM

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

Comments:

To: The Honorable Donovan Dela Cruz, Chair, The Honorable Gilbert Keith-Agaran, Vice Chair, and Members of the Senate Committee on Ways and Means:

From: Climate Protectors Hawai'i (by Ted Bohlen)

RE: Hearing HB1806 HD2 SD1 RELATING TO CESSPOOL CONVERSION,

Friday, April 1, 2022, 10:30 am

The Climate Protectors Hawaii is in **STRONG SUPPORT** of HB1801 HD1 SD1!

Please pass this bill!

Mahalo!

Climate Protectors Hawai'i (by Ted Bohlen)

HB-1801-SD-1

Submitted on: 3/30/2022 10:35:52 AM

Testimony for WAM on 4/1/2022 10:30:00 AM

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

Comments:

Increasing energy efficiency is the simplest, easiest, and least expensive way to reduce our carbon footprint. It also saves money and resources. Please advance HB1801

HB-1801-SD-1

Submitted on: 3/30/2022 12:23:41 PM

Testimony for WAM on 4/1/2022 10:30:00 AM

Submitted By	Organization	Testifier Position	Testify
Diana Bethel	Individual	Support	Written Testimony Only

Comments:

The State must be a leader in demonstrating energy and water efficiency as well as maximizing energy generation potential in all its buildings and facilities. How are we doing now? How much energy and water are we using in state facilities now? What does the data show on how much we are walking our talk?

HB1801 HD1 SD1 is an essential first step toward mitigating the impacts of climate change on our state and an opportunity for the State to demonstrate leadership by showing us what is possible and how it is done.

HB-1801-SD-1

Submitted on: 3/30/2022 4:06:01 PM

Testimony for WAM on 4/1/2022 10:30:00 AM

Submitted By	Organization	Testifier Position	Testify
Elena Arinaga	Individual	Support	Written Testimony Only

Comments:

TO: Senate Committee on Ways and Means

SUBJECT: Support for HB 1801, RELATING TO ENERGY EFFICIENCY, April 1, 2022, 10:30 AM hearing

Aloha Chair Dela Cruz, Vice Chair Keith-Agaran, and members of the Committee,

I am testifying in support of House Bill 1801, proposing to implement cost-effective energy efficiency measures for state facilities.

Energy efficiency is a critical component of Hawai'i's renewable energy future and will play a significant role in reaching the state's 100% clean energy requirement by 2045. Though some progress has occurred in recent years, state buildings are still one of the largest consumers of electricity in Hawai'i. While residents do their part in their own homes, the state must lead by example in changing our energy culture.

HB 1801 will not only help support the resilient, clean energy future that is necessary for our islands to thrive, it will also bolster our local economy and provide new jobs. This energy efficiency measure will reduce the cost of state energy bills for taxpayers while simultaneously providing jobs to our state, which is still recovering from the effects of the pandemic.

By implementing energy efficiency measures in state buildings, Hawai'i can once again demonstrate that our islands are committed to taking action against climate change. HB 1801 shows that the state will lead by example and serve as a model for residents and the private sector for our clean energy transformation.

Please pass HB 1801 to support Hawai'i's clean energy future.

Thank you for considering my testimony.

Elena Arinaga, Honolulu, HI 96815

HB-1801-SD-1

Submitted on: 3/30/2022 4:06:12 PM

Testimony for WAM on 4/1/2022 10:30:00 AM

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

Comments:

I am testifying in support of House Bill 1801, proposing to implement cost-effective energy efficiency measures for state facilities.

Energy efficiency is a critical component of Hawai'i's renewable energy future and will play a significant role in reaching the state's 100% clean energy requirement by 2045. Though some progress has occurred in recent years, state buildings are still one of the largest consumers of electricity in Hawai'i. While residents do their part in their own homes, the state must lead by example in changing our energy culture.

HB 1801 will not only help support the resilient, clean energy future that is necessary for our islands to thrive, it will also bolster our local economy and provide new jobs. This energy efficiency measure will reduce the cost of state energy bills for taxpayers while simultaneously providing jobs to our state, which is still recovering from the effects of the pandemic.

By implementing energy efficiency measures in state buildings, Hawai'i can once again demonstrate that our islands are committed to taking action against climate change. HB 1801 shows that the state will lead by example and serve as a model for residents and the private sector for our clean energy transformation.

Please pass HB 1801 to support Hawai'i's clean energy future.

Thank you for considering my testimony.

HB-1801-SD-1

Submitted on: 3/30/2022 4:40:27 PM

Testimony for WAM on 4/1/2022 10:30:00 AM

Submitted By	Organization	Testifier Position	Testify
Katherine Fryer	Individual	Support	Written Testimony Only

Comments:

By installing energy efficient equipment and taking energy efficiency measures at State facilities, Hawaii can reduce greenhouse gas emissions while maximizing energy efficiency and reducing costs for taxpayers.

To ensure that this bill will be effective, I respectfully ask you to consider an ammendment: I urge you to **strike changes added in SD1** which removed language that established a goal for the State to achieve at least 30% reduction in the electricity consumption of state facilities. To achieve meaningful progress, we must set goals. **Please include the goal to achieve at least 30% reduction in the electricity consumption of state facilities in this important measure!**

HB-1801-SD-1

Submitted on: 3/30/2022 4:46:01 PM

Testimony for WAM on 4/1/2022 10:30:00 AM

Submitted By	Organization	Testifier Position	Testify
Alena Huffine	Individual	Support	Written Testimony Only

Comments:

TO: Senate Committee on Ways and Means

SUBJECT: Support for HB 1801, RELATING TO ENERGY EFFICIENCY

Aloha Chair Dela Cruz, Vice Chair Keith-Agaran, and members of the Committee,

I am testifying in support of House Bill 1801, which requires and establishes deadlines for state facilities, except smaller facilities, to implement cost-effective energy efficiency measures.

I previously worked for Hawai'i Energy to assist multi-family homes in reducing their energy consumption by installing LED lightbulbs, faucet aerators, low-flow showerheads, and energy-smart power strips. Energy efficiency is a critical component of Hawai'i's renewable energy future and will play a significant role in reaching Hawai'i's 100% clean energy goal by 2045.

Though some progress has occurred in recent years, state buildings are still one of the largest consumers of electricity in Hawai'i. The state must lead by example in changing our energy culture.

HB 1801 will not only help support the resilient, clean energy future that is necessary for our islands to thrive, it will also bolster Hawai'i's growing clean energy industry. This energy efficiency measure will reduce the cost of state energy bills for taxpayers while simultaneously providing jobs to our state, which is still recovering from the effects of the pandemic.

By implementing energy efficiency measures in state buildings, Hawai'i can once again demonstrate that our islands are committed to taking action against climate change. HB 1801 shows that the state will lead by example and serve as a model for residents and the private sector for our clean energy transformation.

Please pass HB 1801 to support Hawai'i's clean energy future.

Thank you for considering my testimony.

Alena Huffine, Kahuku, HI 96731

HB-1801-SD-1

Submitted on: 3/30/2022 5:34:54 PM

Testimony for WAM on 4/1/2022 10:30:00 AM

Submitted By	Organization	Testifier Position	Testify
Lois Crozer	Individual	Support	Written Testimony Only

Comments:

This is a good way to create progressive jobs helping us to recover from the pandemic, and the savings from these projects will help reduce energy costs and help our climate. A win win.

HB-1801-SD-1

Submitted on: 3/30/2022 7:30:38 PM

Testimony for WAM on 4/1/2022 10:30:00 AM

Submitted By	Organization	Testifier Position	Testify
Keith Neal	Individual	Support	Written Testimony Only

Comments:

As a resident of Hawaii, I strongly support HB1801 as it further harmonizes the state's energy efficiency measures.

The public sector should reflect the values of sustainability and climate action, and set an example for efforts across Hawaii. The state must expand on the good examples set by numerous agencies that have already adopted energy efficiency measures. Such projects have proven that public energy efficiency is sound action. Much has been discussed about clean, affordable sustainable energy generation. Perhaps even more important is the demand side of the energy equation. Clean, efficient buildings are critical to meeting the state's sustainability and climate action goals.

HB1801 encourages reliable long-term investments that pay for themselves, and dividends for many years there after.

"Our land is in great, great danger now"

Mahalo,

Keith Neal

HB-1801-SD-1

Submitted on: 3/30/2022 8:59:10 PM

Testimony for WAM on 4/1/2022 10:30:00 AM

Submitted By	Organization	Testifier Position	Testify
John K Cheever	Individual	Support	Written Testimony Only

Comments:

This bill makes sense on so many levels, especially in light of the disruption to the oil markets by the crisis in Ukraine. We need energy independence, and one of the best ways to achieve that is through energy conservation.

Hawaii leads the the national conversation on bold sustainable energy initiatives, and this is another chance for us to show the way for others to follow. When we succeed the world sees what we can do on the policy, implementation, and community levels. Be bold, be leaders. Let's go!

HB-1801-SD-1

Submitted on: 3/30/2022 9:11:49 PM

Testimony for WAM on 4/1/2022 10:30:00 AM

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

Comments:

Dear Chair Luke, Vice Chair Yamashita and FIN members,

We must not lose any more time in passing a bill to make our State buildings more energy efficient. Bill HB1801 does just that.

As a state that prides itself on becoming energy efficient by 2045, we must be a leader in reaching our clean energy goals. Hawaii's State buildings are a major user of fossil fuels which result in higher greenhouse gas emissions. The cost to taxpayers and the environment is tremendous and growing.

We can cut costs AND be energy efficient AND put Hawaii citizens to work AND set an example for private industry all at the same time.

Please don't wait to make such a monumental change. Delay only makes it more difficult. Support HB 1801 this session.

Sincerely,

Jan Pappas

Aiea, Hawaii 96701

HB-1801-SD-1

Submitted on: 3/30/2022 9:48:21 PM

Testimony for WAM on 4/1/2022 10:30:00 AM

Submitted By	Organization	Testifier Position	Testify
Jill Yoshicedo	Individual	Support	Written Testimony Only

Comments:

Dear Senate Ways and Means Committee,

The climate crisis is incredibly urgent. We need to take every step possible to ensure the world will continue to be inhabitable for our children and the plant and animal life that share it. Please support HB 1801 and help the state leaders lead the way on increasing energy efficiency and decreasing harmful greenhouse gas emissions. We need change NOW to get to a clean and sustainable energy future for Hawaii and the planet. HB 1801 will also create jobs and decrease energy costs on taxpayers. Please pass this bill and make it effective immediately.

Sincerely,

Jill Yoshicedo, DVM
Honolulu HI 96813

HB-1801-SD-1

Submitted on: 3/30/2022 10:21:35 PM

Testimony for WAM on 4/1/2022 10:30:00 AM

Submitted By	Organization	Testifier Position	Testify
Paul Bernstein	Individual	Support	Written Testimony Only

Comments:

Aloha Chair Dela Cruz, Vice Chair Keith-Agaranm and members of the WAM committee:

I'm writing in support of HB 1801. The bill will help us meet our environmental goals by reducing emissions from state buildings. The bill helps correct a market failure around energy efficiency. Often energy efficiency projects are not undertaken because too short of a timeline is considered when analyzing the project's cost-effectiveness. By requiring energy efficiency projects to be undertaken based on a 20 year payback, this bill helps correct the problem of using too high of a discount rate. In 2021, the Hawaii State Energy Office found that the 25% reduction target by 2025 is feasible. Therefore, putting the target date at 2026 should make the target feasible and make the bill's timing based on sound research.

Please pass this bill out of your committees.

Respectfully,

Paul Bernstein

HB-1801-SD-1

Submitted on: 3/31/2022 6:32:48 AM

Testimony for WAM on 4/1/2022 10:30:00 AM

Submitted By	Organization	Testifier Position	Testify
Caroline Kunitake	Individual	Support	Written Testimony Only

Comments:

Dear Chair Donovan Dela Cruz, Vice Chair Gilbert Keith-Agaran and Committee on Ways and Means,

I support HB 1801 HD1 SD1 with an amendment.

An effective way the State can lead in reducing greenhouse gas emissions while at the same time maximizing savings of taxpayer dollars, is by installing energy efficient equipment and taking energy efficiency measures at State facilities.

To better ensure that this measure can fulfill its purpose, **I respectfully offer an amendment for your consideration.** I urge you to **strike changes added in SD1** which removed language that established a goal for the State to achieve at least 30% reduction in the electricity consumption of state facilities. We need to set goals, otherwise we will not achieve them. **Please put the goal to achieve at least 30% reduction in the electricity consumption of state facilities back in this important measure!**

Mahalo,

Caroline Kunitake

HB-1801-SD-1

Submitted on: 3/31/2022 7:06:01 AM

Testimony for WAM on 4/1/2022 10:30:00 AM

Submitted By	Organization	Testifier Position	Testify
Severine Busquet	Individual	Support	Written Testimony Only

Comments:

Aloha:

I am testifying in support of the House Bill 1801 HD1 SD1, proposing to implement cost-effective energy efficiency measures for state facilities.

Hawai'i was the first in the nation to pass a 100% clean energy mandate, and we need energy efficiency to help us get there. The State should lead by example on reducing greenhouse gas emissions.

Energy efficiency is a critical component of Hawai'i's renewable energy future and will play a significant role in reaching the state's 100% clean energy requirement by 2045. Though some progress has occurred in recent years, state buildings are still one of the largest consumers of electricity in Hawai'i. While residents do their part in their own homes, the state must lead by example in changing our energy culture.

HB 1801 will not only help support the resilient, clean energy future that is necessary for our islands to thrive, it will also bolster our local economy and provide new jobs. This energy efficiency measure will reduce the cost of state energy bills for taxpayers while simultaneously providing jobs to our state, which is still recovering from the effects of the pandemic.

By implementing energy efficiency measures in state buildings, Hawai'i can once again demonstrate that our islands are committed to taking action against climate change. HB 1801 shows that the state will lead by example and serve as a model for residents and the private sector for our clean energy transformation.

Please pass HB 1801 HD1 SD1 to support Hawai'i's clean energy future.

Thank you for considering my testimony.

Severine Busquet

Hawaii Kai, Honolulu, 96825

HB-1801-SD-1

Submitted on: 3/31/2022 7:54:33 AM

Testimony for WAM on 4/1/2022 10:30:00 AM

Submitted By	Organization	Testifier Position	Testify
Adriann Gin	Individual	Support	Written Testimony Only

Comments:

Aloha Chair Dela Cruz, Vice Chair Keith-Agaran, and members of the Committee,

I am testifying in support of House Bill 1801, proposing to implement cost-effective energy efficiency measures for state facilities.

Legislation like this is critical to address the very real existential crisis that climate change confronts humanity with. The UN released it's most recent report earlier this year - written by 270 researchers from 67 countries - on climate change with the take-home message: Climate change is likely going to make the world sicker, hungrier, poorer, gloomier and way more dangerous by 2040, with an "unavoidable" increase in risks. 2040 is in our lifetime, just 18 years away from today. I implore you, please act now, we must do everything we can, as quickly as we can, to change our course, as we are fast-approaching the point of no return. As an island community, we can't afford the luxury of time - we couldn't afford in 20 years ago, and we certainly can't afford it now. Please act now.

Energy efficiency is a critical component of Hawai'i's renewable energy future and will play a significant role in reaching the state's 100% clean energy requirement by 2045. Though some progress has occurred in recent years, state buildings are still one of the largest consumers of electricity in Hawai'i. While residents do their part in their own homes, the state must lead by example in changing our energy culture.

HB 1801 will not only help support the resilient, clean energy future that is necessary for our islands to thrive, it will also bolster our local economy and provide new jobs. This energy efficiency measure will reduce the cost of state energy bills for taxpayers while simultaneously providing jobs to our state, which is still recovering from the effects of the pandemic.

By implementing energy efficiency measures in state buildings, Hawai'i can once again demonstrate that our islands are committed to taking action against climate change. HB 1801 shows that the state will lead by example and serve as a model for residents and the private sector for our clean energy transformation.

Please pass HB 1801 to support Hawai'i's clean energy future.

Mahalo for considering my testimony.

Adriann Gin; Honolulu, HI 96821

HB-1801-SD-1

Submitted on: 3/31/2022 7:55:54 AM

Testimony for WAM on 4/1/2022 10:30:00 AM

Submitted By	Organization	Testifier Position	Testify
Virginia Tincher	Individual	Support	Written Testimony Only

Comments:

I support HB1801 HD1 SD1 with a suggested amendment. Investing in energy efficiency by the State sends a strong leadership message to all of Hawaii.

- It is an effective way the State can lead in reducing greenhouse gas emissions while at the same time maximizing savings of taxpayer dollars, is by installing energy efficient equipment and taking energy efficiency measures at State facilities.

-- To better ensure that this measure can fulfill its purpose, **I respectfully offer an amendment for your consideration.** I urge you to **strike changes added in SD1** which removed language that established a goal for the State to achieve at least 30% reduction in the electricity consumption of state facilities. Goals help us all achieve objectives.

Mahalo,

Virginia Tincher

Aina Haina, Honolulu

HB-1801-SD-1

Submitted on: 3/31/2022 8:33:23 AM

Testimony for WAM on 4/1/2022 10:30:00 AM

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

Comments:

I support this bill with ammendments and heres why: this bill is an effective way the State can lead in reducing greenhouse gas emissions while at the same time maximizing savings of taxpayer dollars, is by installing energy efficient equipment and taking energy efficiency measures at State facilities.

However, To better ensure that this measure can fulfill its purpose, **I respectfully offer an amendment for your consideration.** I urge you to **strike changes added in SD1** which removed language that established a goal for the State to achieve at least 30% reduction in the electricity consumption of state facilities. We need to set goals, otherwise we will not achieve them. **Please put the goal to achieve at least 30% reduction in the electricity consumption of state facilities back in this important measure!**

Mahalo

HB-1801-SD-1

Submitted on: 3/31/2022 8:39:03 AM

Testimony for WAM on 4/1/2022 10:30:00 AM

Submitted By	Organization	Testifier Position	Testify
Dale Jensen	Individual	Comments	Written Testimony Only

Comments:

Dear Ways and Means Committee:

An effective way the State can lead in reducing greenhouse gas emissions while at the same time maximizing savings of taxpayer dollars, is by installing energy efficient equipment and taking energy efficiency measures at State facilities.

To fulfill the purpose of HB 1801, I urge you to strike changes added in SD1 which removed language that established a goal for the State to achieve at least 30% reduction in the electricity consumption of state facilities. We need to set goals, otherwise we will not achieve them.

How will the state meet its long term renewable energy goals if we keep watering down legislation such as this and removing the truly effective aspects of the bill. The State needs to lead the way and demonstrated to private industry and the public what can be done to reduce energy consumption. There are any number of ways that a 30% energy reduction can be achieved in state facilities if we only have the courage to require it.

Sincerely,

Dale Jensen

Prof. Engineer

HB-1801-SD-1

Submitted on: 3/31/2022 10:01:27 AM

Testimony for WAM on 4/1/2022 10:30:00 AM

Submitted By	Organization	Testifier Position	Testify
Joanna Norton	Individual	Support	Written Testimony Only

Comments:

Please pass HB1801, and remove the amendment that struck down concrete goals. It's time to set goals on climate action. The research indicates that energy efficiency is the first easiest way to reduce energy consumption, and will actually save money. It will also build local, good jobs as people are needed to build in the changes. As state facilities lead the way, other entities will decide to follow the same route. Please pass this bill, with solid goals.

HB-1801-SD-1

Submitted on: 3/31/2022 10:17:55 AM

Testimony for WAM on 4/1/2022 10:30:00 AM

Submitted By	Organization	Testifier Position	Testify
Keala Dickhens	Testifying for Blue Planet Foundaiton	Support	Written Testimony Only

Comments:

TO: Senate Committee on Ways and Means

SUBJECT: Support for HB 1801, RELATING TO ENERGY EFFICIENCY, April 1, 2022, 10:30 AM hearing

Aloha Chair Dela Cruz, Vice Chair Keith-Agaran, and members of the Committee,

I am testifying in support of House Bill 1801, proposing to implement cost-effective energy efficiency measures for state facilities that are one of the largest consumers of electricity in the state. The Biden administration plans to spend nearly \$3.2 billion to modernize hundreds of thousands of homes in low-income communities, aiming to cut Americans' energy bills and greenhouse gas emissions. We need energy efficiency legislation across the state, but this bill is a start at one of the most economically efficient and effective ways to reduce greenhouse gases and combat climate change.

HB 1801 will help support a resilient, clean energy future, bolster our local economy with jobs, and reduce the cost of state energy bills for taxpayers. HB 1801 shows that the state will lead by example and serve as a model for residents and the private sector for our clean energy transformation.

Please pass HB 1801 to support Hawai'i's clean energy future.

Thank you for considering my testimony.

Keala Dickhens, Honolulu, HI, 96816

HB-1801-SD-1

Submitted on: 3/31/2022 10:28:07 AM

Testimony for WAM on 4/1/2022 10:30:00 AM

Submitted By	Organization	Testifier Position	Testify
Kai Mottley	Individual	Support	Written Testimony Only

Comments:

Aloha Chair Dela Cruz, Vice Chair Keith-Agaran, and members of the Committee,

My name is Kai Mottley. I am a senior at Kauai High School on Kauai.

I am testifying in support of HB 1801, proposing to implement cost-effective energy efficiency measures for state facilities.

Climate change will have devastating effects globally, but as islands we will be hit the hardest. We also have the most to loose with most of our infrastructure being located near the sea, and on top of the fact that we host an extreme level of beautiful biodiversity. Something important but delicate. My classmates and I are already seeing the effects. During a recent king tide, our small boat harbor was almost innaccessible by foot, with the water seemilgy creeing up on our only large port. There are many other instances of this.

If we want to help fight climate change, make Hawaii a better place for the youth, and become more self-sufficent and efficeient, this bill is an important step. At our current pace, progress is too slow to meet our 2045 goals. Along with passing this, we will continue our role as a global leader in climate change. This is an important role that we should take pride in and continue leading.

Please pass HB 1801 to support our future.

Thank you for your time,

Kai Mottley Lihue, Hawaii, 96766

LATE

HB 1801 HD 1 SD 1 TESTIMONY

To: Senate Committee on Ways and Means
Hearing on April 1, 2022 at 10:30 a.m.

From: John Kawamoto

Position: Support with amendments

When carbon dioxide is emitted into the atmosphere it stays there for 300 to 1,000 years, according to the National Aeronautics and Space Administration (NASA). Carbon dioxide that has been emitted into the atmosphere since the beginning of the Industrial Revolution is still warming the Earth. Carbon dioxide that is being emitted today will have harmful effects on the climate for hundreds of years. Our efforts to reduce carbon dioxide emissions will benefit many future generations. We must adopt a multi-faceted strategy to reduce carbon emissions. One element of that strategy is to make State buildings more energy efficient.

This bill, however, is inadequate. It is merely aspirational and full of glittering generalities because the previous committee removed the measurable objective -- the teeth of the legislation. The previous version of the bill, HB 1801 HD 1, required a 30% reduction in electricity. The previous reasoned that a 30% reduction would disrupt services in certain State buildings such as hospitals and prisons, so it removed the requirement. That is excessive. Instead, that committee should have retained the 30% reduction requirement and exempted specific types of buildings.

This bill should be amended to restore the requirement to reduce electricity use by 30% in State buildings, and to specify the types of buildings that would be exempt.

LATE

HB-1801-SD-1

Submitted on: 3/31/2022 1:59:30 PM
Testimony for WAM on 4/1/2022 10:30:00 AM

Submitted By	Organization	Testifier Position	Testify
Matthew K Lynch	Individual	Support	Written Testimony Only

Comments:

Aloha mai kakou,

My name is Matthew K Lynch and, I currently serve as the Director of Sustainability Initiatives for the University of Hawai‘i System, which has given me experience and subject matter experience in this matter. I am submitting testimony as a private individual in SUPPORT of this bill, with a suggested amendment.

I would like to recommend adding the word “renewable” to Section (2) on page 7, starting on line 21 page 7:

- (1) Maximize energy and water efficiency measures;
- (2) Maximize renewable energy generation potential; and
- (3) Use building materials that reduce the carbon footprint of the project”

Thank you for the opportunity to provide testimony on this measure.

Mahalo,

Matthew K Lynch

LATE

HB-1801-SD-1

Submitted on: 3/31/2022 3:13:44 PM

Testimony for WAM on 4/1/2022 10:30:00 AM

Submitted By	Organization	Testifier Position	Testify
Dylan Ramos	Individual	Support	Written Testimony Only

Comments:

Aloha,

As a resident of Hawaii, I strongly support HB1801 and its bolstering of State energy efficiency measures.

If we purport to value sustainability and climate action, then the public sector should reflect those values and set the example for efforts across Hawaii. Not only does this bill prompt the State to make good on its commitments to clean energy and decarbonization, but it expands on the good example set by numerous agencies that have already adopted energy efficiency measures. Such projects have proven that public energy efficiency is feasible.

Furthermore, by proposing a realistic 20-year timeframe for calculating cost-effectiveness, HB1801 encourages reliable long-term investments that literally pay for themselves.

For all these reasons and more, please pass this bill and encourage your colleagues to do the same.

Mahalo,
Dylan Ramos

LATE



**Written Statement of Elemental Excelerator
before the Senate Committees on Ways and Means**

In consideration of HB 2088, HD3 SD1 RELATING TO FINANCING

April 1, 2022

Aloha Chair Dela Cruz, Vice-Chair Keith-Agaran, and Members of the Committee:

Elemental Excelerator respectfully submits **strong support** for HB 1801, HD1 SD1.

Elemental Excelerator is a Honolulu-based non-profit organization that supports climate positive startup companies that are helping solve Hawai'i's most urgent environmental problems. Each year, we select 15-20 companies annually that best fit our mission and fund each company up to \$1 million. To date, we have awarded over \$48 million to 135 companies resulting in 80 demonstration projects in Hawai'i & the Asia Pacific.

We strongly support HB 1801, HD1 SD1 and the requirement for state facilities to implement cost-effective energy efficiency measures, establish a goal for the State to achieve at least a thirty percent reduction in the electricity consumption of state facilities, and use building materials that reduce the carbon footprint of new state building projects.

Elemental Excelerator has helped support dozens of climate tech solution companies that create good jobs, help transition our economy to 100% clean energy, and lower the energy burden for companies and households throughout the islands. HB 1801, HD1 SD 1 will help the State of Hawaii lead by example in the areas of energy efficiency, energy savings, and smart green building that will save taxpayer funds for years into the future as well as drive down carbon emissions in our built environment. It will also provide an opportunity for the climate tech sector to help Hawaii meet climate goals and increase the number of green jobs in the sector.

Mahalo for the opportunity to provide testimony.