

# HAWAII STATE ENERGY OFFICE STATE OF HAWAII

DAVID Y. IGE  
GOVERNOR

SCOTT J. GLENN  
CHIEF ENERGY OFFICER

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Testimony of  
**SCOTT J. GLENN, Chief Energy Officer**

before the  
**HOUSE COMMITTEE ON FINANCE**

Friday, February 25, 2022  
1:30 PM  
State Capitol, Conference Room 308 & Videoconference

**SUPPORT  
HB 1801 HD 1  
RELATING TO ENERGY EFFICIENCY.**

Chair Luke, Vice Chair Yamashita, and members of the Committee, the Hawai'i State Energy Office (HSEO) supports and proposes a modification to HB 1801, HD1, 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; establishes a goal of achieving at least a thirty percent reduction in electricity consumption of state facilities; provides that agencies that perform energy efficiency retrofitting may 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's comments are guided by its mission to promote energy efficiency, renewable energy, and clean transportation to help achieve a resilient, clean energy, decarbonized economy.

HSEO supports HB 1801, HD1, 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, are 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 has worked over the years with state agencies in Hawai'i that are currently participating or have participated in 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.

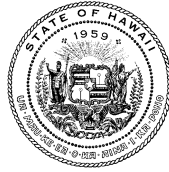
HSEO is working closely with Hawai'i Energy and state agencies on an energy efficiency for state buildings project to assess and promote opportunities to reduce energy use. HSEO has consistently been measuring facility electricity reduction using 2005 as the baseline year. The use of 2005 as the baseline 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](#).

Considering the above, HSEO recommends the following modification to HB 1801, HD1, on page 6, starting on line 6, to read:

"§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."

Thank you for the opportunity to testify.

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  
ENERGY & ENVIRONMENTAL PROTECTION

FEBRUARY 25, 2022, 1:30 P.M.  
VIA VIDEOCONFERENCE, STATE CAPITOL

H.B. 1801, H.D. 1

RELATING TO ENERGY EFFICIENCY

Chair Luke, Vice Chair Yamashita, and Members of the Committee, thank you for the opportunity to submit testimony on H.B. 1801, H.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.

**HB-1801-HD-1**

Submitted on: 2/25/2022 12:10:35 PM

Testimony for FIN on 2/25/2022 1:30:00 PM

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Remote Testimony Requested</b>
Richard Louis	DAGS	Support	Yes

Comments:

Testifying on behalf of the Department of Accounting and General Services.



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

HOUSE COMMITTEE ON FINANCE  
Friday, February 25, 2022 — 1:30 p.m.

**Ulupono Initiative supports HB 1801 HD 1, Relating to Energy Efficiency.**

Dear Chair Luke 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 HB 1801 HD 1**, which 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; establishes a goal for the State to achieve at least a 30% reduction in the electricity consumption of state facilities; 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 recommend adding in a deadline to meet the State's 30% reduction of electricity consumption goal.

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 House Committee on Finance  
From: Sherry Pollack, 350Hawaii.org  
Date: Friday, February 25, 2022, 1:30pm

**In support of HB1801 HD1**

Aloha Chair Luke, Vice Chair Yamashita, and members of the Finance committee,

I am Co-Founder of the Hawaii chapter of 350.org, the largest international organization dedicated to fighting climate change. 350Hawaii.org **supports HB1801 HD1** 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. This bill would establish a goal of reducing electricity consumption at State facilities by at least 30%. For State building construction design, it would require, where reasonable and cost effective, maximizing energy and water efficiency, maximizing energy generation potential, and using building materials that reduce the carbon footprint of the project. With respect to building materials, we strongly urge that plant-based products such as industrial hempcrete and structural bamboo be considered to replace carbon-intensive materials such as concrete and steel.

This plan will help substantially in reducing greenhouse gases and addressing our existential climate crisis while saving taxpayers money via energy efficiency.

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

Sherry Pollack  
Co-Founder, 350Hawaii.org

**HB-1801-HD-1**

Submitted on: 2/23/2022 11:33:10 PM

Testimony for FIN on 2/25/2022 1:30:00 PM

Submitted By	Organization	Testifier Position	Remote Testimony Requested
Ted Bohlen	Climate Protectors Hawai'i	Support	No

Comments:

The Honorable Sylvia Luke, Chair and Members of the House Committee on Finance

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

Re: Hearing **HB1801 HD1 RELATING TO ENERGY EFFICIENCY.**

Hearing: Friday, February 25, 2022, 1:30 p.m., CR 308 and by videoconference

Aloha Chair Luke and Members of the House Committee on Finance:

The Climate Protectors Hawai'i is a group focused on reversing the climate crisis and encouraging Hawai'i to lead the world towards a safe and sustainable climate and future.

**The Climate Protectors Hawai'i STRONGLY SUPPORTS HB1801, an important energy efficiency measure that will reduce the taxpayer burden of state energy bills, create new jobs in clean energy, and decrease our Greenhouse gas emissions.**

As a tropical island State, Hawai'i will be among the first places harmed by the global climate crisis, with more intense storms, loss of protective coral reefs, food insecurity, and rising sea levels destroying our shorelines. We must do all we can to reduce our carbon footprint and become carbon negative as soon as possible. Hawaii can and should be a leader in showing the world the way forward towards a safe and sustainable climate and future. The sooner we inspire others to take action and lead by example, the better off the future will be for our keiki.

One of the areas where the State can lead in reducing greenhouse gas emissions is by installing energy efficient equipment and taking energy efficiency measures at State facilities. **This bill would establish a goal of reducing electricity consumption at State facilities by at least 30%.**

**Another important way this bill would reduce greenhouse gases is by requiring State building design, where reasonable and cost effective, to maximize energy and water efficiency, maximize energy generation potential, and use building materials that reduce the carbon footprint of the project.** This plan will help substantially in reducing greenhouse gases and addressing our existential climate crisis.



Hawai'i must lead on climate. **Reducing the energy usage and carbon footprint of State buildings is an excellent way for Hawai'i to show how to begin to mitigate the climate emergency!**

Please pass this bill! Mahalo!

Climate Protectors Hawai'i (by Ted Bohlen)



## HOUSE COMMITTEE ON FINANCE

February 25, 2022, 1:30 P.M.

Video Conference

### TESTIMONY IN STRONG SUPPORT OF HB 1801 HD1

Aloha Chair Luke, Vice Chair Yamashita, and Committee members:

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. These are critical objectives—particularly given the dramatic economic challenges that Hawai'i faces. What's more, passing this measure will demonstrate that the State of Hawai'i leads by example.

### House Bill 1801 Is Needed Today

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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

[info@blueplanetfoundation.org](mailto:info@blueplanetfoundation.org)

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money. House Bill 1801 would help to identify new energy savings opportunities and revitalize the successful performance contracting program.

**Blue Planet also strongly supports the HD1 version of that bill that sets a 30% goal for reduction of electricity consumption in state facilities.** State agencies have already reduced energy consumption roughly 20.1% since 2005.<sup>1</sup> A more ambitious—yet reasonable and still attainable—goal will ensure that deeper energy efficiency upgrades and their associated cost savings are pursued, rather than merely “checking the box” on the lowest hanging fruit. Further, **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

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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.

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<sup>1</sup> 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](https://energy.hawaii.gov/wp-content/uploads/2022/01/HSEO_2021_Annual_Report_1.4-3.pdf)



Before the House Committee on Finance  
Friday, February 25, 2022 at 1:30p.m.

Testimony in Support of HB1801 HD1: Relating to Energy Efficiency

Chair Luke, Vice Chair Yamashita, and Members of the Committees:

Thank you for the opportunity to testify in support and provide comments on House Bill 1801 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 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.

Sincerely,  
Brian Kealoha  
Executive Director  
Hawai'i Energy

**HB-1801-HD-1**

Submitted on: 2/24/2022 1:00:48 PM

Testimony for FIN on 2/25/2022 1:30:00 PM

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Remote Testimony Requested</b>
Ron Reilly	Citizens' Climate Lobby - Hawaii Island Chapter	Support	No

Comments:

Dear Chair Luke, Vice Chair Yamashita, and Members of the Committee on Finance,

Thank you for holding a hearing on this important bill; HB 1801 HD1.

Citizens' Climate Lobby – Hawaii Island Chapter, with over 300 members, supports HB 1801 HD1 which places benchmarks for the implementation of energy efficiency measures for state buildings with a goal of at least thirty percent reduction in the electricity consumption of state facilities.

Energy efficiency is an often overlooked tool in Hawaii's transition towards our bright new, clean-energy future.

Those familiar with the freely available En-Roads climate-simulation global model will know that “energy efficiency of buildings” and the “electrification of buildings” are two high leverage items in combating greenhouse gas emission and the resultant global warming.

En-Roads notes that, “Energy efficiency of buildings and industry is high leverage. It leads to less overall energy use, which leads to less coal, oil, and gas being used. It also saves families, business, and communities money.” Through, “Government policies such as tax breaks and performance standards to incentivize energy efficient products and practices.” Further, “Electrification of buildings and industry can help, particularly when renewable energy is already encouraged or fossil fuels are discouraged.”

Here is a link to an En-Roads scenario that shows just two climate mitigation actions: 1) Energy Efficiency and 2) Electrification, of Buildings and Industry.

This scenario can be viewed at...

<https://en-roads.climateinteractive.org/scenario.html?v=22.1.1&p47=4.9&p55=98&g0=2&g1=62>

I urge your support for HB 1801 HD1 as part of a suite of positive climate action legislation that is being introduced in this 2022 Hawaii legislative session.

Thank you for your consideration.

Ron Reilly  
Co-Lead, Citizens' Climate Lobby – Hawaii Island Chapter  
En-Roads Ambassador

P.S. I am freely available for legislators and/or their staff who may wish to schedule a more complete En-roads presentation.



**Written Statement of Elemental Excelerator  
before the House Finance Committee**

**In consideration of HB 1801, HD1 RELATING TO ENERGY EFFICIENCY Feb 25, 2022**

**Aloha Chair Luke, Vice-Chair Yamashita, and Members of the House Committee on Finance:**

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

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 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 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.



**HB-1801-HD-1**

Submitted on: 2/23/2022 2:35:57 PM

Testimony for FIN on 2/25/2022 1:30:00 PM

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Remote Testimony Requested</b>
Douglas Perrine	Individual	Support	No

Comments:

HB1801, if passed, will save money and help save the planet at the same time. Seems like a no-brainer!

**HB-1801-HD-1**

Submitted on: 2/23/2022 2:38:15 PM

Testimony for FIN on 2/25/2022 1:30:00 PM

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Remote Testimony Requested</b>
Denise Boisvert	Individual	Support	No

Comments:

Aloha, please accept my FULL SUPPORT for HB1801 which is crucial to reaching our 100% clean energy goal by 2045, and please pass it for the good of Hawai'i's future generations. Mahalo!

**HB-1801-HD-1**

Submitted on: 2/23/2022 2:41:15 PM

Testimony for FIN on 2/25/2022 1:30:00 PM

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Remote Testimony Requested</b>
Kim Jorgensen	Individual	Support	No

Comments:

I am submitting testimony in FULL SUPPORT of HB1801.

**HB-1801-HD-1**

Submitted on: 2/23/2022 4:17:50 PM

Testimony for FIN on 2/25/2022 1:30:00 PM

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Remote Testimony Requested</b>
B.A. McClintock	Individual	Support	No

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-HD-1**

Submitted on: 2/23/2022 4:45:27 PM

Testimony for FIN on 2/25/2022 1:30:00 PM

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Remote Testimony Requested</b>
Nikos Leverenz	Individual	Support	No

Comments:

Chair Luke, Vice Chair Yamashita, & Members of the Committee:

I am writing in support of House Bill 1801, HD 1.

Energy efficiency is a critical component of Hawaii's renewable energy future and will play 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 Hawaii.

This measure will reduce the cost of state energy bills for taxpayers while simultaneously providing jobs to our state's residents.

Mahalo for the opportunity to provide testimony.

**HB-1801-HD-1**

Submitted on: 2/23/2022 4:55:28 PM

Testimony for FIN on 2/25/2022 1:30:00 PM

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Remote Testimony Requested</b>
Michael Koster	Individual	Support	No

Comments:

I strongly support of House Bill 1801, proposing to implement cost-effective energy efficiency measures for state facilities. Energy efficiency saves taxpayer money and combats climate change. It's a no-brainer & should be aggressively implemented.

**HB-1801-HD-1**

Submitted on: 2/23/2022 8:03:39 PM

Testimony for FIN on 2/25/2022 1:30:00 PM

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Remote Testimony Requested</b>
Laura Ramirez	Individual	Support	No

Comments:

Aloha Chair Luke, Vice Chair Yamashita, and members of the Committees,

I strongly support of House Bill 1801, proposing to implement cost-effective energy efficiency measures for state facilities. State buildings are still one of the largest consumers of electricity in Hawai'i. The state must lead by example and create a culture that both the private sector and residents will be proud to be part of in order to reach the 100% clean energy requirement by 2045.

HB1801 will help create the resilient, clean energy future that we all want for our islands. This bill will also reduce the high cost of state energy bills for taxpayers while simultaneously providing new jobs to our state and boosting our local economy which as it recovered from the effects of the pandemic.

By implementing energy efficiency measures in state buildings and in new construction, Hawai'i can once again demonstrate that our islands are committed to taking effective action against climate change.

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

Mahalo,

Laura Ramirez

Kapa'a, Kaua'i 96746

**HB-1801-HD-1**

Submitted on: 2/23/2022 8:22:21 PM

Testimony for FIN on 2/25/2022 1:30:00 PM

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Remote Testimony Requested</b>
Noel Morin	Individual	Support	No

Comments:

Dear Chair Luke, Vice-Chair Yamashita, and member of the Finance Committee,

I am in full support of HB1801 HD1. Saving energy is a critical strategy in our goal to decarbonize our economy. Enhancing efficiency is one of the most effective tools in our climate action tool chest. By reducing energy consumption, we can instantly reduce our carbon footprint.

This measure will enable the implementation of energy efficiency measures in our state facilities and help inspire similar action across our economy.

Thank you for this opportunity to testify.

Noel Morin



**HB-1801-HD-1**

Submitted on: 2/23/2022 8:31:07 PM

Testimony for FIN on 2/25/2022 1:30:00 PM

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Remote Testimony Requested</b>
Matt	Individual	Support	No

Comments:

Aloha Legislators,

I believe it's time to get some work done. This bill needs to be passed. It's a no brainer.

- 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. Let's keep this direction going.
- The State should lead by example on reducing greenhouse gas emissions. Embrace the clean future, look at the upcoming green technologies and do the work.
- Embracing energy efficiency measures is an important part of addressing climate change, the effects of which are already here. That or kiss the biggest tax revenue makers goodbye - tourism and all the coastal residences.
- State energy efficiency projects will create jobs while Hawai'i continues to recover from the effects of the pandemic.
- The energy and economic savings from these energy efficiency measures are a win for the state, the taxpayers, and our climate. We have three huge sustainable sources - sun, wind and ocean currents.

I'm 61 years old and fighting to keep us going green, sustainable and keepers of our environment for all Hawai'i's people. You need to apply your skills and energy to accomplish this and rally the hundreds of thousands of us through legislation

**HB-1801-HD-1**

Submitted on: 2/23/2022 8:51:26 PM

Testimony for FIN on 2/25/2022 1:30:00 PM

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Remote Testimony Requested</b>
Virginia Hinshaw	Individual	Support	No

Comments:

Aloha! I am testifying in support of House Bill 1801, proposing to implement cost-effective energy efficiency measures for state facilities.j. The state facilities are major users of electricity so reducing that use is critically important in meeting the state's energy goals. Mahalo for supporting this bill which will ensure a better environment for Hawaii's future - Virginia Hinshaw

## Energy Efficiency

Aloha Chair Luke, Vice Chair Yamashita, 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'm a keiki o ka 'āina from the big island. I've also traveled and spent a lot of time in Europe and have seen ways that they implement energy efficiency in buildings that were very inspiring and had me asking "why don't we do this back home in Hawaii?"

One example is in many hotels the hallway lights are activated by motion sensor. Those same hallways have actual switches to turn on the lights as well which were on timers. I was so very impressed by this way of reducing energy use and cost.

Please lead us in leading the nation and in turn the world in being the most green state. This seemingly small shift in the way state facilities minimize their electricity usage is in fact substantial and far reaching.

Thank you for all that you do to make Hawaii the best it can possibly be, we truly appreciate all your hard work and dedication,

Emily Dudley

(Mother of 3 and 4 year olds, Papa'ikou HI)

## HB 1801 HD 1 TESTIMONY

To: House Committee on Finance  
Hearing on Feb. 25, 2022 at 1:30 p.m.

From: John Kawamoto

Position: Support

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 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 makes the State a leader in energy efficiency.

**HB-1801-HD-1**

Submitted on: 2/24/2022 5:27:40 AM

Testimony for FIN on 2/25/2022 1:30:00 PM

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Remote Testimony Requested</b>
Virginia Tincher	Individual	Support	No

Comments:

Aloha Chair Luke, Vice Chair Yamashita and members of the House Finance Committee,

Thank you for hearing HB1801 HD1. I support the excellent testimony provided for the first hearing and the ammendments made by the EEP committee.

This bill is a win-win. It save money for the state and taxpayers and reduces green house gas emissions. As some testifiers mention it's also an opportunity to support growing business opportunites for energy efficiency products.

HB1801 sends a strong message to the state from its citizens through our representatives that addressing climate change is important to us and needs to be considered with every decision we make.

Mahalo,

Virginia Tincher

Ania Haina, Honolulu

**HB-1801-HD-1**

Submitted on: 2/24/2022 6:54:58 AM

Testimony for FIN on 2/25/2022 1:30:00 PM

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Remote Testimony Requested</b>
Barbara Best	Individual	Support	No

Comments:

We must continue on to our goals of reducing emissions

**HB-1801-HD-1**

Submitted on: 2/24/2022 7:10:41 AM

Testimony for FIN on 2/25/2022 1:30:00 PM

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Remote Testimony Requested</b>
Keith Neal	Individual	Support	No

Comments:

As a resident of Hawaii, I strongly support HB1801 as it further aligns 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 thereafter.

Mahalo,

Keith Neal

**HB-1801-HD-1**

Submitted on: 2/24/2022 7:12:05 AM

Testimony for FIN on 2/25/2022 1:30:00 PM

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Remote Testimony Requested</b>
Elena Arinaga	Individual	Support	No

Comments:

TO: House Committee on Finance

SUBJECT: Support for HB 1801, RELATING TO ENERGY EFFICIENCY, February 25, 2022, 1:30 PM hearing

Aloha Chair Luke, Vice Chair Yamashita, 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.

Embracing energy efficiency measures is an important part of addressing climate change, the effects of which are already here. 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-HD-1**

Submitted on: 2/24/2022 8:57:07 AM

Testimony for FIN on 2/25/2022 1:30:00 PM

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Remote Testimony Requested</b>
Stacey Gray	Individual	Support	No

Comments:

Aloha Chair Luke, Vice Chair Yamashita, and members of the Committees,

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

I am passionate about decreasing our dependency on fossil fuels. That is why I have elected to put solar panels on my own home and choose to drive an electric car. The State of Hawaii needs to get to 100% clean energy by 2045, but if the State isn't implementing energy efficiency, how can they expect to ask its citizens to do so?

Energy efficiency is a critical component of Hawaii's renewable energy future and will play 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.

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 and in new construction, Hawai'i can once again demonstrate that our islands are committed to taking effective 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 Hawaii's clean energy future.

Thank you for considering my testimony.

Stacey Gray, Manoa resident

**HB-1801-HD-1**

Submitted on: 2/24/2022 9:19:48 AM

Testimony for FIN on 2/25/2022 1:30:00 PM

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Remote Testimony Requested</b>
Adriann Gin	Individual	Support	No

Comments:

Aloha Chair Luke, Vice Chair Yamashita, 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.

The effects of climate change and the slow pace at which we continue to address it as the greatest threat to humanity really concerns me and keeps me up at night. It is absolutely critical we attack this issue from every possible angle, including staying on track to hit our clean energy goals.

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.

Adriann Gin; Honolulu, HI 96821

**HB-1801-HD-1**

Submitted on: 2/24/2022 11:14:33 AM

Testimony for FIN on 2/25/2022 1:30:00 PM

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Remote Testimony Requested</b>
Janet L Pappas	Individual	Support	No

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-HD-1**

Submitted on: 2/24/2022 11:17:26 AM

Testimony for FIN on 2/25/2022 1:30:00 PM

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Remote Testimony Requested</b>
Carolyn Eaton	Individual	Support	No

Comments:

Aloha, Chair Luke, Vice Chair Yamashita and members of the Committee,

My name is Carolyn Eaton and I support this bill. It commits the State to keep on the path to 100% clean energy use by implementing energy efficiency measures for state facilities. Our important goal requires many steps, year after year, and this bill proposes a significant step. I learned about energy efficiency as a first-time homeowner in Ohio. My husband and I were quick to add storm windows to our old wood frame, steam-heated house. But the first winter arrived, and we realized cold air came in right through the walls. We knew our next move would be a return, for my husband, to Honolulu, where his parents still lived. Anticipating our big move, I let myself dream of solar-energy for our next home. That move was 43 years ago, and my dream is still unrealized.

Please do your part to move the State, my adopted home, toward the clean energy prize I have believed in so long. There will be an economic boost for our communities as well as the existential lifeline we must secure. Please make this investment. We're truly together in the same boat.

Mahalo for the opportunity to share my story and show it connects to my support of Bill 1801.

**HB-1801-HD-1**

Submitted on: 2/24/2022 11:40:12 AM

Testimony for FIN on 2/25/2022 1:30:00 PM

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Remote Testimony Requested</b>
Severine Busquet	Individual	Support	No

Comments:

Aloha Chair Luke, Vice Chair Yamashita, 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.

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 to support Hawai'i's clean energy future.

Thank you for considering my testimony.

Severine Busquet

Hawaii Kai, Honolulu, 96825

**HB-1801-HD-1**

Submitted on: 2/24/2022 11:45:01 AM

Testimony for FIN on 2/25/2022 1:30:00 PM

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Remote Testimony Requested</b>
Matthew Geyer	Individual	Support	Yes

Comments:

Thank you for continuing to hear and support these important environmental measures. Energy efficiency is the most effective way to reduce our emissions while saving money over time.

**HB-1801-HD-1**

Submitted on: 2/24/2022 9:11:11 PM

Testimony for FIN on 2/25/2022 1:30:00 PM

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Remote Testimony Requested</b>
Paul Bernstein	Individual	Support	No

Comments:

Aloha Chair Luke, Vice Chair Yamashita, and members of the Finance 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 committee.

Respectfully,

Paul Bernstein