

DAVID Y. IGE
GOVERNOR



CRAIG K. HIRAI
DIRECTOR

GLORIA CHANG
DEPUTY DIRECTOR

STATE OF HAWAII
DEPARTMENT OF BUDGET AND FINANCE
P.O. BOX 150
HONOLULU, HAWAII 96810-0150

EMPLOYEES' RETIREMENT SYSTEM
HAWAII EMPLOYER-UNION HEALTH BENEFITS TRUST FUND
OFFICE OF THE PUBLIC DEFENDER

ADMINISTRATIVE AND RESEARCH OFFICE
BUDGET, PROGRAM PLANNING AND
MANAGEMENT DIVISION
FINANCIAL ADMINISTRATION DIVISION
OFFICE OF FEDERAL AWARDS MANAGEMENT (OFAM)

WRITTEN ONLY
TESTIMONY BY CRAIG K. HIRAI
DIRECTOR, DEPARTMENT OF BUDGET AND FINANCE
TO THE HOUSE COMMITTEE ON ENERGY & ENVIRONMENTAL PROTECTION
ON
SENATE BILL NO. 2963, S.D. 2

March 22, 2022
9:30 a.m.
Room 325 and Videoconference

RELATING TO ENERGY EFFICIENCY

The Department of Budget and Finance (B&F) offers comments on this bill.

Senate Bill (S.B.) No. 2963, S.D. 2: requires and establishes deadlines for State facilities, except for smaller facilities and facilities within the stadium development district, to implement cost-effective energy efficiency measures (CEEEM); allows the Department of Accounting and General Services to opt out of the CEEEM if a facility will be demolished within five years; directs the Hawai'i State Energy Office (HSEO), in consultation with the Research and Economic Analysis Division of the Department of Business, Economic Development and Tourism, to collect electric utility bills and energy usage data for State-owned buildings and to make the data publicly available; directs the HSEO to collect water utility bills and water usage data for State-owned buildings and to make the data publicly available; establishes a goal for the State to achieve at least a 25% reduction in the electricity consumption of State facilities; provides that certain agencies that perform energy efficiency retrofitting may continue to receive appropriations for energy expenditures; 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; and appropriates an unspecified amount of general funds and authorizes an unspecified full-time equivalent position count to HSEO to collect and publish the water utility bills and water usage data as required by this measure.

B&F defers to the impacted agencies regarding the effects this measure could have on their respective operations. However, B&F points out that meeting and adopting the building efficiency standards described is likely to require significant investments in capital improvement projects for State facilities to either retrofit existing facilities or construct new facilities with these efficiency measures already in place. Additionally, B&F notes that many State departments and agencies have implemented various energy efficiency measures in their facilities to achieve the State's clean energy goals. B&F defers to each individual department and/or agency to detail specific measures they have adopted.

B&F notes that, with respect to the general fund appropriation in this bill, the federal Coronavirus Response and Relief Supplemental Appropriations Act requires that states receiving Elementary and Secondary School Emergency Relief (ESSER) II funds and Governor's Emergency Education Relief II funds must maintain state support for:

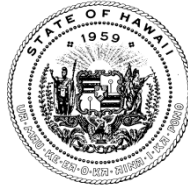
- Elementary and secondary education in FY 22 at least at the proportional level of the state's support for elementary and secondary education relative to the state's overall spending, averaged over FYs 17, 18 and 19; and
- Higher education in FY 22 at least at the proportional level of the state's support for higher education relative to the state's overall spending, averaged over FYs 17, 18 and 19.

Further, the federal American Rescue Plan (ARP) Act requires that states receiving ARP ESSER funds must maintain state support for:

- Elementary and secondary education in FY 22 and FY 23 at least at the proportional level of the state's support for elementary and secondary education relative to the state's overall spending, averaged over FYs 17, 18 and 19; and
- Higher education in FY 22 and FY 23 at least at the proportional level of the state's support for higher education relative to the state's overall spending, averaged over FYs 17, 18 and 19.

The U.S. Department of Education has issued rules governing how these maintenance of effort (MOE) requirements are to be administered. B&F will be working with the money committees of the Legislature to ensure that the State of Hawai'i complies with these ESSER MOE requirements.

Thank you for your consideration of our comments.



TESTIMONY BY:

JADE T. BUTAY
DIRECTOR

Deputy Directors
ROSS M. HIGASH
EDUARDO P. MANGLALLAN
PATRICK H. MCCAIN
EDWIN H. SNIFFEN

**STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION**
869 PUNCHBOWL STREET
HONOLULU, HAWAII 96813-5097

March 22, 2022
9:30 AM
State Capitol, Teleconference

S.B. 2963, S.D.2
RELATING TO ENERGY EFFICIENCY

House Committee on Energy & Environmental Protection

The Department of Transportation (DOT) **provides comments** to S.B. 2963, S.D.2. The bill proposes state facilities to implement cost-effective energy efficiency measures with a goal to achieve at least a thirty percent reduction in the electricity consumption of state facilities by 2025, from a 2005 baseline year, through the energy efficiency in state building projects. The bill also requires, where feasible and cost-effective, the design of all new state building construction to maximize energy generation, water efficiency, energy efficiency, and energy generation potential, and to use building materials that reduce the carbon footprint of the project.

DOT modal divisions have installed a variety of energy conservation measures using Energy Savings Performance Contracts (ESPC). The DOT Airports Division \$209M ESPC has reduced its kWh consumption by approximately 51 percent from a 2013 baseline. The electrical cost savings over a 20-year period is approximately \$529M. The DOT Harbors Division's ESPC has reduced its kWh consumption by approximately 30 percent from a 2014 baseline. The DOT Harbors Division has installed approximately 740 kW of solar photovoltaic arrays at six facilities that produce 100% renewable power. Power generated by the solar photovoltaics is used within the Harbor facilities and the Harbors Division is currently working with the power utility to reach the Division's clean energy goals. The DOT Highways Division ESPC has reduced its kWh consumption by approximately 41 percent from a 2014 baseline.

Act 96, SLH 2006, already requires each agency, to the extent practicable, to design and construct state facilities meeting the Leadership in Energy and Environmental Design (LEED) Silver Certification or two green globes rating system or another comparable state-approved, nationally recognized standard or system.

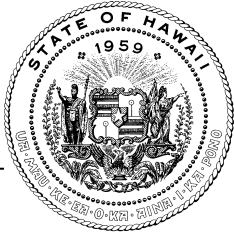
The DOT Airports Division's new facilities have achieved or are on track to achieve LEED Silver Certification. In addition, the Daniel K. Inouye International Airport (HNL) has received its 5th Airport Carbon Accreditation Level 2 certification from the Airports Council International, for the calendar year 2019, recognizing HNL's reduction in energy

use and carbon emission, and its ongoing commitment to sustainability. Renewal in the calendar year 2020 was deferred due to the pandemic.

The DOT Harbors Division has put together a process of pursuing sustainability vision for multiple buildings through LEED BD+C Certification. DOT Harbors Division will be able to transform the existing buildings into facilities that provide healthier spaces for its occupants, reduced demand on energy and water resources, and improved impact on the surrounding community. A preliminary review of the LEED BD+C credit scorecard for a building facility currently in the planning and scoping phase indicates that LEED Silver certification is attainable, and with additional planning and resources, LEED Gold certification is within reach.

The DOT also recommends the language including the energy efficiency target in this bill be made consistent with the language in H.B.1801, H.D.1.

Thank you for the opportunity to provide testimony.



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 ENERGY & ENVIRONMENTAL PROTECTION

Tuesday, March 22, 2022
9:30 AM
State Capitol, Conference Room 325 & Videoconference

**SUPPORT
SB 2963, SD2
RELATING TO ENERGY EFFICIENCY.**

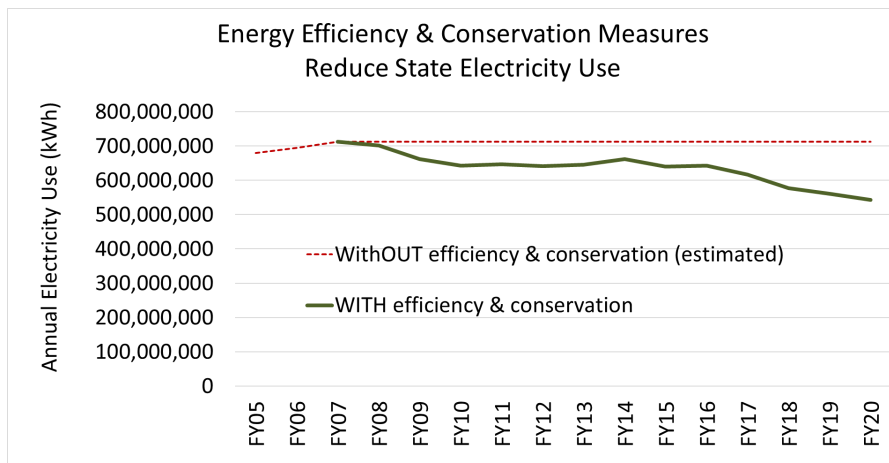
Chair Lowen, Vice Chair Marten, and Members of the Committee, the Hawai'i State Energy Office (HSEO) supports SB 2963, SD2, which establishes deadlines for all state facilities, except smaller facilities and facilities within the stadium development district, to implement cost-effective energy efficiency measures; allows the Department of Accounting and General Services to opt out of the cost-effective energy efficiency measures if a facility will be demolished within five years; directs HSEO, in consultation with the Research and Economic Analysis Division of the Department of Business, Economic Development, and Tourism, to collect electricity, energy, and water usage data for state-owned buildings and to make the data publicly available; establishes a goal of achieving at least a twenty-five percent reduction in the electricity consumption of state facilities; provides that agencies that perform energy efficiency retrofitting may continue to receive appropriations for energy expenditures; 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. SB 2963, SD2, also appropriates an unspecified amount of funds for an unspecified amount of full-time equivalent positions at HSEO for the collection and publication of water utility bill and water usage data for state-owned buildings.

The objectives of energy efficiency, cost control, lower energy, and water bills, and leading by example outlined in SB 2963, SD2, 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 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.”

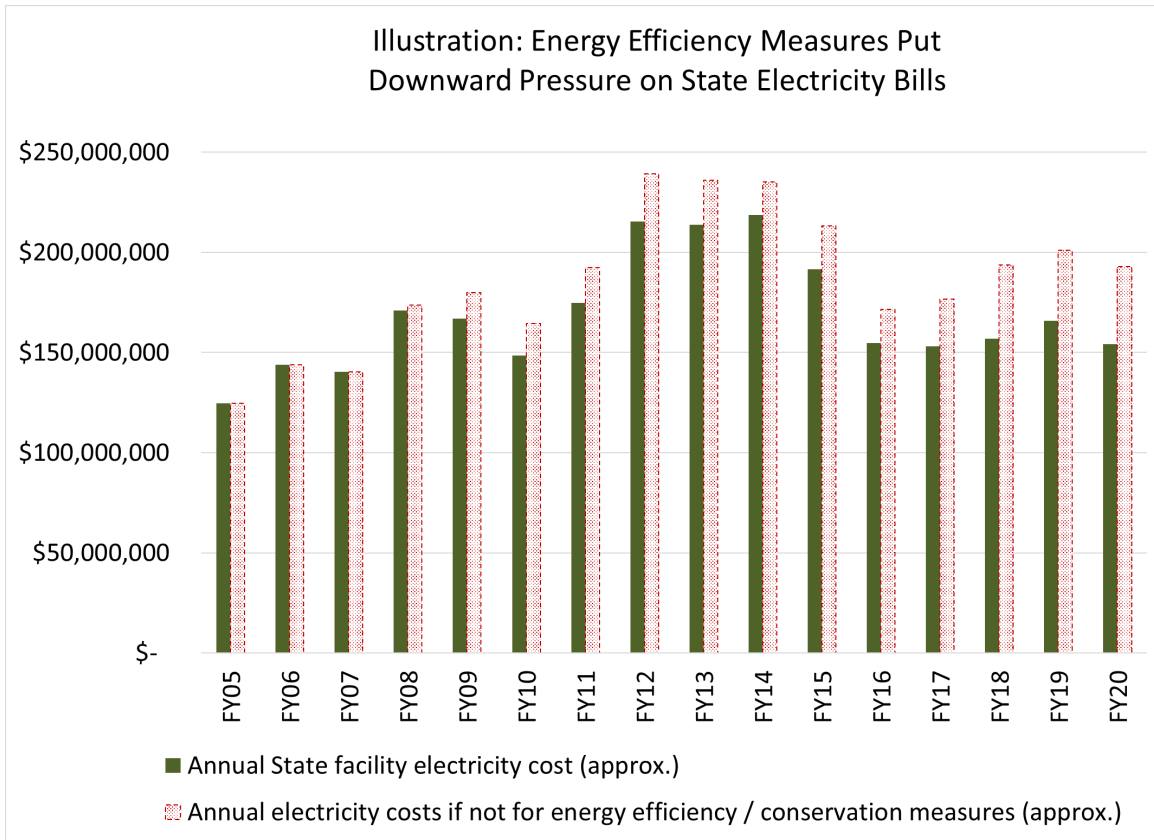
HSEO agrees that energy efficiency is the most cost-effective way to reduce energy usage. HSEO has worked over the years and continues to work with a number of state agencies in Hawai'i that have participated, or are currently participating in, facility benchmarking, energy audits, and energy savings performance contracts. HSEO has observed there are always more, and sometimes new, energy savings opportunities.

HSEO is working closely with Hawai'i Energy and state agencies to assess these opportunities to reach a target goal of 25% reduction by 2025 from a 2005 baseline year. HSEO has consistently been measuring facility electricity reduction using 2005 as the baseline year, which is consistent with the United States’ baseline year in its Nationally Determined Contribution for the Paris Agreement, that 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 by 2025.



Although State electricity bills rise and fall when electricity rates increase or decrease, the electricity savings shown in the graph above create downward pressure on State electricity bills. This is shown in the graph below.



HSEO notes the Research & Economic Analysis Division (READ) of the Department of Business, Economic Development and Tourism (DBEDT) already collects all electric utility data for state-owned facilities, and the Hawai'i State Energy Office helps coordinate and reports on that data annually. This can also be arranged for state-owned facilities' water usage data. The budget appropriation as proposed in HB 1600 HD1 will help HSEO fulfill this additional task.

Thank you for the opportunity to testify.

SB-2963-SD-2

Submitted on: 3/21/2022 10:28:41 AM

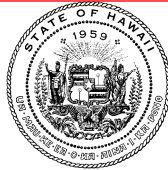
Testimony for EEP on 3/22/2022 9:30:00 AM

Submitted By	Organization	Testifier Position	Testify
Kirsten Baumgart Turner	Hawaii State Energy Office	Support	Remotely Via Zoom

Comments:

Kirsten Baumgart Turner will be testifying in place of Scott Glenn.

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

MARCH 22, 2022, 9:30 A.M.
VIA VIDEOCONFERENCE/CONFERENCE ROOM 325, STATE CAPITOL

S.B. 2963, S.D. 2

RELATING TO ENERGY EFFICIENCY.

Chair Lowen, Vice Chair Marten , and Members of the Committee, thank you for the opportunity to testify on S.B. 2963, S.D. 2.

The Department of Accounting and General Services (DAGS) supports the intent of this measure which requires and establishes deadlines for State facilities, except smaller facilities and facilities within the stadium development district, to implement cost-effective energy efficiency measures.

Thank you for the opportunity to testify on this matter.

SB-2963-SD-2

Submitted on: 3/16/2022 8:03:59 AM

Testimony for EEP on 3/22/2022 9:30:00 AM

Submitted By	Organization	Testifier Position	Testify
Ted Bohlen	Climate Protectors Hawai'i	Support	Remotely Via Zoom

Comments:

To: The Honorable Nicole Lowen, Chair, the Honorable Lisa Marten, Vice Chair, and Members of the House Committee on Energy and Environmental Protection

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

Re: Hearing SB2511 SD2 RELATING TO ENERGY EFFICIENCY.

Thursday March 17, 2022, 9:00 a.m., by videoconference

Aloha Chair Lowen, Vice Chair Marten, and Members of the House Committee on Energy and Environmental Protection!

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 SB2963 SD2, but urges that the reduction in usage be 30% as in HB1801 HD1, instead of 25%!

This is 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 should 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)

SB-2963-SD-2

Submitted on: 3/17/2022 7:19:51 PM

Testimony for EEP on 3/22/2022 9:30:00 AM

Submitted By	Organization	Testifier Position	Testify
laurel brier	Kauai women's caucus	Support	Written Testimony Only

Comments:

Yes, let's address the climate crisis in the most fundamental ways - reduce our greenhouse gases significantly



Email: communications@ulupono.com

HOUSE COMMITTEE ON ENERGY & ENVIRONMENTAL PROTECTION
Tuesday, March 22, 2022 — 9:30 a.m.

Ulupono Initiative supports SB 2963 SD 2, Relating to Energy Efficiency.

Dear Chair Lowen 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 SB 2963 SD 2, which requires and establishes deadlines for state facilities, except smaller facilities and facilities within the stadium development district, to implement cost-effective energy efficiency measures; allows the Department of Accounting and General Services to opt out of the cost-effective energy efficiency measures if a facility will be demolished within five years; directs the Hawai'i State Energy Office, in consultation with the Research and Economic Analysis Division of the Department of Business, Economic Development, and Tourism, to collect electric 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 twenty-five per cent reduction in the electricity consumption of state facilities; provides that certain agencies that perform energy efficiency retrofitting may continue to receive appropriations for energy expenditures; 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 25% 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 Energy and Environmental Protection
From: Sherry Pollack, Co-Founder, 350Hawaii.org
Date: Tuesday, March 22, 2022, 9:30 am

In support of SB2963 SD2

Aloha Chair Lowen, Vice Chair Marten, and Energy and Environmental Protection Committee members,

I am Co-Founder of the Hawaii chapter of 350.org, the largest international organization dedicated to fighting climate change. 350Hawaii.org **supports SB2963 SD2** that would reduce the taxpayer burden of state energy bills and decrease our carbon emissions, and we respectfully offer amendments.

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 25%. 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 in reducing greenhouse gases and addressing our existential climate crisis while saving taxpayers money via energy efficiency. However, to better ensure that this measure can fulfill its purpose, **we respectfully offer amendments for your consideration.**

- 1) Restore the implementation dates from the original version of the bill, i.e. requiring state facilities that have not recently implemented cost-effective efficiency measures to do so by 2023 and all others by 2025, rather than delaying implementation to 2028 and 2030, as proposed in the SD1 version.
- 2) Increase the percentage goal for reduction of electricity consumption of state facilities from 25% to 35%. This is still reasonable and attainable. The recent IPCC report has made clear we need to be much more ambitious and robust in our actions to decarbonize our economies if we are to have a bright future on our planet. Bottomline: We must step up our efforts. We can do better

If we are to solve the climate crisis, it will require **all of us** working together. The State can and should be a leader towards a safe and sustainable climate and future. Reducing our greenhouse gas emissions through energy efficiency is an effective means to put us on track to achieve this goal.

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

Sherry Pollack
Co-Founder, 350Hawaii.org



Environmental Caucus of The Democratic Party of Hawai'i

Energy & Climate Action Committee

Tuesday, March 22, 2022, 9:30 am

House Committee on Energy and Environmental Protection

SENATE BILL 2963 – RELATING TO ENERGY EFFICIENCY

Position: Strong Support

Me ke Aloha, Chair Lowen, Vice-Chair Marten, and Members of the Committee on Energy and Environmental Protection:

In our efforts to reduce our carbon footprint and therefore minimize our impact on climate change, energy use efficiency is a paramount foundational principle. The State has been diligent in pursuing efficiencies in its buildings, and SB2963 reinforces this effort by setting standards for retrofitting existing buildings and designing new buildings, and assuring the collection of relevant metrics to monitor this progress.

We appreciate your full support of this bill.

Mahalo for the opportunity to address this matter.

Charley Ice & Ted Bohlen, Co-Chairs, Energy and Climate Action Committee
Environmental Caucus of the Democratic Party



HOUSE COMMITTEE ON ENERGY & ENVIRONMENTAL PROTECTION

March 22, 2022, 9:30 A.M.

Conference Room 325 and Video Conference

TESTIMONY IN SUPPORT OF SB 2963 SD2, WITH SUGGESTED AMENDMENTS

Aloha Chair Lowen, Vice Chair Marten, and members of the Committee:

Blue Planet Foundation **supports SB 2963**, 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 the State of Hawai'i leads by example. We offer suggested amendments at the end of this testimony.

Senate Bill 2963 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. Senate Bill 2963 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, SB 2963 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. Senate Bill 2963 would help to identify new energy savings opportunities and revitalize the successful performance contracting program.

Suggested Amendments

Blue Planet respectfully proposes two amendments to Section 2:

- (1) **Restore the implementation dates from the original version of the bill**, i.e. requiring state facilities that have not recently implemented cost-effective efficiency measures to do so by 2023 and all others by 2025, rather than delaying implementation by half a decade (to 2028 and 2030, as proposed in the current version). **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.**

- (2) **Increase the percentage goal for reduction of electricity consumption of state facilities from 25% to at least 30%.** State agencies have already reduced energy consumption roughly 20.1% since 2005.¹ A more ambitious—yet reasonable and still attainable—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.

Conclusion

Senate Bill 2963 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, SB 2963 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 *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



Environmental Caucus of The Democratic Party of Hawai'i

To: The Honorable Nicole E. Lowen , Chair
The Honorable Lisa Marten, Vice Chair
Committee on Ways and Means

Re: **SB 2963 SD 2 – RELATING TO ENERGY EFFICIENCY**
Hearing: Tuesday, March 22, 2022, 9:30 a.m., Conference Room 325 and
Via Videoconference
Position: **Strong support**

Aloha, Chair Lowen, Vice Chair Yamashita, and Members of the Committees on Finance:

The Environmental Caucus of the Democratic Party of Hawai'i stands in strong support of SB 2963 SD 2. This measure would require and establish deadlines for state facilities to implement cost-effective energy efficiency measures. It would allow DAGS to opt out of the cost-effective energy efficiency measures if a facility will be demolished within 5 years. It would direct the Hawaii State Energy Office, in consultation with the Research and Economic Analysis Division of DBEDT to collect electric utility and energy usage data for state-owned buildings and to make the data publicly available. It also directs the Hawaii State Energy office to collect water utility and water usage data for state-owned buildings and to make the data publicly available. It would establish a goal for the State to achieve at least a 25% reduction in electricity consumption of state facilities. It would provide that those certain agencies that perform energy efficiency retrofitting may continue to receive appropriation for energy expenditures. It also requires that beginning on July 1, 2023, where feasible and cost-effective, the design of all new state building construction projects to maximize energy and water efficiency, maximize energy generation potential, and to use building materials that reduce the carbon footprint of the project.

Given that the State's goal is to be 100% dependent on renewable energy by 2045, to require that all new state buildings to be built to maximize energy and water efficiency would assist in timely meeting this goal. The Environmental Caucus of the Democratic Party of Hawai'i strongly supports SB 2963 SD2 as it would require that data be kept on the usage of electricity and water in State buildings and incentivizes the Departments to retrofit their buildings for energy efficiency while still providing appropriations for energy expenditures. Most importantly, however, is where this measure would require all new state building construction projects to be built to maximize energy and water efficiency and to use building materials that reduce the carbon footprint of the project. Please pass this measure.

Mahalo for the opportunity to testify,

Melodie Atija and Alan Burdick

Co-Chairs, Environmental Caucus of the Democratic Party of Hawai'i

SB-2963-SD-2

Submitted on: 3/15/2022 9:01:54 PM

Testimony for EEP on 3/22/2022 9:30:00 AM

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

Comments:

Dear EEP committee members,

As a state that prides itself on becoming energy efficient by 2045, we must be a leader in reaching our clean energy goals. We must not lose any more time in passing a bill to make our State buildings more energy efficient. Bill SB2963 SD2 needs to pass this session.

Hawaii's State buildings are a major user of fossil fuels which result in higher greenhouse gas emissions and more pollution. The cost to taxpayers and the environment is tremendous and growing. With Bill SB2963, 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 and more expensive.

Support SB2963 SD2 this session. Help make Hawaii a leader in clean energy and save our precious dollars for other needs.

Sincerely,

Jan Pappas

Aiea, Hawaii 96701

SB-2963-SD-2

Submitted on: 3/15/2022 9:43:34 PM

Testimony for EEP on 3/22/2022 9:30:00 AM

Submitted By	Organization	Testifier Position	Testify
Camile Cleveland	Individual	Support	Written Testimony Only

Comments:

I strongly support this bill. It is imperative that Hawaii lower its greenhouse gas emissions levels, and energy efficiency measures are critical to decarbonizing the building sector. Mahalo for the opportunity to testify.

SB-2963-SD-2

Submitted on: 3/16/2022 10:30:33 AM

Testimony for EEP on 3/22/2022 9:30:00 AM

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

Comments:

Mandating energy and water efficiency in state facilities is a matter of fiscal and environmental responsibility. It is something we owe to our taxpayers and our keiki. Please move the effective date forward to 2022.

SB-2963-SD-2

Submitted on: 3/18/2022 9:08:13 PM

Testimony for EEP on 3/22/2022 9:30:00 AM

Submitted By	Organization	Testifier Position	Testify
Koohan Paik	Individual	Support	Written Testimony Only

Comments:

STRONGLY SUPPORT.

SB-2963-SD-2

Submitted on: 3/19/2022 10:49:35 AM

Testimony for EEP on 3/22/2022 9:30:00 AM

Submitted By	Organization	Testifier Position	Testify
Stacy K. Tang	Individual	Support	Written Testimony Only

Comments:

I do support SB2963 SD2, WITH AMENDMENTS

Energy efficiency is the most cost effective way to reduce carbon emissions associated with electricity generation and consumption. Maximizing efficiency and thereby reducing demand for power generation is a necessary component of reaching the state's clean energy and decarbonization goals.

To better ensure that this measure can fulfill its purpose, I respectfully offer amendments for consideration.

1) Restore the implementation dates from the original version of the bill, i.e. requiring state facilities that have not recently implemented cost-effective efficiency measures to do so by 2023 and all others by 2025, rather than delaying implementation to 2028 and 2030. We are seriously out of time!

2) Increase the percentage goal for reduction of electricity consumption of state facilities from 25% to 35%. **This is still reasonable and attainable.** The recent IPCC report has made clear we need to be much more aggressive in our actions to decarbonize our economies if we are to have a future at all.

Unfortunately, our society has sat on our hands until the crisis is REAL. We've ignored scientists in the 1970's, who warned about all the problems we currently face. We must make drastic changes, NOW.

SB-2963-SD-2

Submitted on: 3/19/2022 1:54:18 PM

Testimony for EEP on 3/22/2022 9:30:00 AM

Submitted By	Organization	Testifier Position	Testify
Tadia Rice	Individual	Support	Written Testimony Only

Comments:

I strongly SUPPORT SB2963 SD2 for energy efficiency so that Hawaii can lead in reducing greenhouse gas emissions while at the same time maximizing savings of taxpayer dollars. By installing energy efficient equipment and taking energy efficiency measures at State facilities, Hawaii can restore the implementation dates from the original version of the bill, i.e. requiring state facilities that have not recently implemented cost-effective efficiency measures to do so by 2023 and all others by 2025, rather than delaying implementation to 2028 and 2030, as proposed in the SD1 version.

Further, the recent IPCC report has made clear we need to be much more ambitious and robust in our actions to decarbonize our economies if we are to have a bright future on our planet.

Mahalo, Tadia Rice

SB-2963-SD-2

Submitted on: 3/19/2022 3:44:04 PM

Testimony for EEP on 3/22/2022 9:30:00 AM

Submitted By	Organization	Testifier Position	Testify
Racquel Segato-Figueroa	Individual	Support	Written Testimony Only

Comments:

Aloha! I am a Hawai'i resident deeply concerned about the climate crisis. Installing energy efficient equipment and taking energy efficiency measures at State facilities is an extremely effective way the State can lead in reducing greenhouse gas emissions while at the same time maximizing savings of taxpayer dollars. To better ensure that this measure can fulfill its purpose, **I respectfully offer amendments for your consideration.** 1) Restore the implementation dates from the original version of the bill, i.e. requiring state facilities that have not recently implemented cost-effective efficiency measures to do so by 2023 and all others by 2025, rather than delaying implementation to 2028 and 2030, as proposed in the SD1 version. 2) Increase the percentage goal for reduction of electricity consumption of state facilities from 25% to 35%. This is still reasonable and attainable. The recent IPCC report has made clear we need to be much more ambitious and robust in our actions to decarbonize our economies if we are to have a bright future on our planet. Mahalo!

SB-2963-SD-2

Submitted on: 3/19/2022 8:20:16 PM

Testimony for EEP on 3/22/2022 9:30:00 AM

Submitted By	Organization	Testifier Position	Testify
Ryan Christopher	Individual	Support	Written Testimony Only

Comments:

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 amendments for your consideration.** 1) Restore the implementation dates from the original version of the bill, i.e. requiring state facilities that have not recently implemented cost-effective efficiency measures to do so by 2023 and all others by 2025, rather than delaying implementation to 2028 and 2030, as proposed in the SD1 version. 2) Increase the percentage goal for reduction of electricity consumption of state facilities from 25% to 35%. This is still reasonable and attainable. The recent IPCC report has made clear we need to be much more ambitious and robust in our actions to decarbonize our economies if we are to have a bright future on our planet. Bottomline: We must step up our efforts. We can do better.

Ryan Christopher

Honokaa HI

SB-2963-SD-2

Submitted on: 3/19/2022 9:24:52 PM

Testimony for EEP on 3/22/2022 9:30:00 AM

Submitted By	Organization	Testifier Position	Testify
Noreen Dougherty	Individual	Support	Written Testimony Only

Comments:

Senators:

I support SB2963 SD2. because energy efficiency is the most cost—effective way to reduce carbon emissions associated with electricity generation and consumption. Maximizing efficiency and thereby reducing demand for power generation is a necessary component of reaching the State's clean energy and decarbonization goals.

Mahalo.

Noreen Dougherty

Kapaa, Hawaii

SB-2963-SD-2

Submitted on: 3/20/2022 8:31:51 AM

Testimony for EEP on 3/22/2022 9:30:00 AM

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

Comments:

Aloha Chairs and members of the Committees,

I am testifying in support of Senate Bill 2963 HD2, proposing to implement cost-effective energy efficiency measures for state facilities.

Embracing energy efficiency measures is to me an essential part of addressing climate change, the effects of which are already here. It is a proof of human intelligence and progress not to waste this energy that is so costly to produce.

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.

SB 2963 SD2 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. SB 2963 SD2 shows that the state will lead by example and serve as a model for residents and the private sector for our clean energy transformation.

For these reasons, I strongly support SB 2963 SD2.

Thank you for considering my testimony.

Severine Busquet

Hawaii Kai

Honolulu 96825

SB-2963-SD-2

Submitted on: 3/20/2022 10:13:07 AM

Testimony for EEP on 3/22/2022 9:30:00 AM

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

Comments:

Aloha, I strongly support this bill but with the following amendments for your consideration. 1) Restore the implementation dates from the original version of the bill, i.e. requiring state facilities that have not recently implemented cost-effective efficiency measures to do so by 2023 and all others by 2025, rather than delaying implementation to 2028 and 2030, as proposed in the SD1 version. 2) Increase the percentage goal for reduction of electricity consumption of state facilities from 25% to 35%. This is still reasonable and attainable. The recent IPCC report has made clear we need to be much more ambitious and robust in our actions to decarbonize our economies if we are to have a bright future on our planet. Bottomline: We must step up our efforts. We can do better.

Mahalo

P Noel Bobilin 96771

SB-2963-SD-2

Submitted on: 3/20/2022 12:05:17 PM

Testimony for EEP on 3/22/2022 9:30:00 AM

Submitted By	Organization	Testifier Position	Testify
Ruta Jordans	Individual	Support	Written Testimony Only

Comments:

Energy goals for state facilities are vital. Please support.

SB-2963-SD-2

Submitted on: 3/20/2022 12:33:36 PM

Testimony for EEP on 3/22/2022 9:30:00 AM

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

Comments:

Dear Chair Lowen and members of the EEP Committee,

I am in strong support of SB2963 SD2. Energy efficiency at the State level saves money, reduces emissions and sends a strong message that the Hawaii Legislature stands behind its declaration of a climate emergency with action.

Thank you for this opportunity to testify.

Virginia Tincher

Aina Haina, Honolulu

SB-2963-SD-2

Submitted on: 3/20/2022 1:58:00 PM

Testimony for EEP on 3/22/2022 9:30:00 AM

Submitted By	Organization	Testifier Position	Testify
Ron Reilly	Individual	Support	Written Testimony Only

Comments:

Dear Chair Lowen, Vice Chair Marten, and Members of the Committee on Energy & Environmental Protection,

I am in support of SB2963 SD2.

Along with transforming our electricity supply side we need to transform the electricity demand side in part through efficiency of buildings and industry.

Every kWh saved through efficiency is a kWh of generation that was not required.

Happily, all machines in my home are now electric, including my vehicle a Kia Niro EV, water heating, lighting, and electric power tools. The majority of my electricity comes from roof-top solar. No fossil fuels involved except some grid power from HELCO which is getting greener each year. Discovered a great quote from Saul Griffith, "**Natural gas sounds benign, like the energy version of organic kale.** But despite the "natural" label it's largely methane, mixed with ethane, propane, butanes, and pentanes". **

To better ensure that SB 2963 can fulfill its purpose, I respectfully offer amendments for your consideration.

1- Restore the implementation dates from the original version of the bill, i.e. requiring state facilities that have not recently implemented cost-effective efficiency measures to do so by 2023 and all others by 2025, rather than delaying implementation to 2028 and 2030, as proposed in the SD1 version.

2- Increase the percentage goal for reduction of electricity consumption of state facilities from 25% to 35%. This is still reasonable and attainable.

Thank you for your consideration, Ron Reilly

Volcano Village, Hawaii 96785

** I respectfully recommend a new (2021) book "**ELECTRIFY – An Optimist's Playbook for Our Clean Energy Future**" by Saul Griffith. (It is in the HI State Library System).

SB-2963-SD-2

Submitted on: 3/20/2022 2:43:12 PM

Testimony for EEP on 3/22/2022 9:30:00 AM

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

Comments:

Dear Chair Lowen, Vice Chair Marten and Committee on Energy and Environmental Protection,

I support SB2963 SD2.

SB2963 SD2 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.

This bill will better ensure that this measure can fulfill its purpose, **I respectfully offer amendments for your consideration.** 1) Restore the implementation dates from the original version of the bill, i.e. requiring state facilities that have not recently implemented cost-effective efficiency measures to do so by 2023 and all others by 2025, rather than delaying implementation to 2028 and 2030, as proposed in the SD1 version. 2) Increase the percentage goal for reduction of electricity consumption of state facilities from 25% to 35%. This is still reasonable and attainable. The recent IPCC report has made clear we need to be much more ambitious and robust in our actions to decarbonize our economies if we are to have a bright future on our planet. Bottomline: We must step up our efforts. We can do better.

Thank you for the opportunity to provide testimony in support of SB2963 SD2. I appreciate your time and energy to review this matter.

Mahalo,

Caroline Kunitake

SB-2963-SD-2

Submitted on: 3/20/2022 4:22:33 PM

Testimony for EEP on 3/22/2022 9:30:00 AM

Submitted By	Organization	Testifier Position	Testify
tlaloc tokuda	Individual	Support	Written Testimony Only

Comments:

Aloha EEP Chair, Vice Chair & Committee,

I support (and hope you do to) [SB2963](#) SD2 because of all its lofty goals, and its all doable! Amory Lovins, energy conservation guru could do it with his eyes shut and Hawaii has many *in-house experts* who could implement cost-effective energy efficiency measures. Establishes a goal for the State to achieve at least a 25% reduction in the electricity consumption of state facilities. Where feasible and cost-effective, requires 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.

Energy efficiency is the most cost—effective way to reduce carbon emissions associated with electricity generation and consumption. Maximizing efficiency and thereby reducing demand for power generation is a necessary component of reaching the State's clean energy and decarbonization goals. Several years ago a bill to do R&D for cooling buildings with deep ocean water is now a reality and should be used in all buildings close enough to the sea. [*“The state of Hawaii has finalized an agreement with Honolulu Seawater Air Conditioning to cool seven state office buildings and the state Capital through the use of chilled ocean water starting in 2021”*]

To better ensure that this measure can fulfill its purpose, **I respectfully offer amendments for your consideration.** 1) Restore the implementation dates from the original version of the bill, i.e. requiring state facilities that have not recently implemented cost-effective efficiency measures to do so by 2023 and all others by 2025, rather than delaying implementation to 2028 and 2030, as proposed in the SD1 version. 2) Increase the percentage goal for reduction of electricity consumption of state facilities from 25% to 35%. This is still reasonable and attainable. The recent IPCC report has made clear we need to be much more ambitious and robust in our actions to decarbonize our economies if we are to have a bright future on our planet.

Mahalo for your consideration,

Tlaloc Tokuda

Kailua Kona HI 96740

SB-2963-SD-2

Submitted on: 3/20/2022 8:06:01 PM

Testimony for EEP on 3/22/2022 9:30:00 AM

Submitted By	Organization	Testifier Position	Testify
Taylor Roberts	Individual	Support	Written Testimony Only

Comments:

Thank you for supporting this bill!

SB-2963-SD-2

Submitted on: 3/20/2022 8:13:09 PM

Testimony for EEP on 3/22/2022 9:30:00 AM

Submitted By	Organization	Testifier Position	Testify
Sara DiGrazia	Individual	Support	Written Testimony Only

Comments:

Please help us be more energy effecient and preserve our island home!

SB 2963 SD 2 TESTIMONY

To: House Committee on Energy & Environmental Protection
Hearing on March 22, 2022 at 9:30 a.m.

From: John Kawamoto

Position: Support

Once carbon dioxide is emitted into the atmosphere, it stays there for 300 to 1000 years, according to NASA, the National Aeronautics and Space Administration. 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 warm the Earth for hundreds of years. What we do now -- and what we don't do -- will impact the climate for many generations.

We must adopt a multi-faceted strategy to mitigate climate change. One element of that strategy is to make buildings more energy efficient. This bill makes State government a leader in energy efficient buildings.