

HB-2423-HD-1

Submitted on: 4/6/2022 4:51:21 PM

Testimony for JDC on 4/8/2022 9:50:00 AM

Submitted By	Organization	Testifier Position	Testify
Ted Bohlen	Testifying for Climate Protectors Hawai'i (by Ted Bohlen)	Support	Written Testimony Only

Comments:

To: The Honorable Karl Rhoads, Chair, the Honorable Jarrett Keohokalole, Vice Chair, and Members of the Senate Committee on Judiciary, and

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

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

Re: Hearing **HB2423 HD1 RELATING TO CLIMATE CHANGE MITIGATION.**

Hearing: Friday April 8, 2022, 9:50 a.m., CR 224 and by videoconference

Aloha Chairs Rhoads and Dela Cruz, Vice Chairs Keohokalole and Keith-Agaran, and Members of the Committees:

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. **Climate Protectors Hawai'i STRONGLY SUPPORTS HB2423 HD1!**

The purpose of this Act is to require all state building construction projects and state highway projects to use building and construction materials that seek to **reduce their carbon footprint**, where feasible and cost effective.

Reducing a building or highway's carbon footprint is increasingly important in building design. State building designs for **new building and highway projects can avoid copious amounts of greenhouse gas emissions and save taxpayers money if agencies consider how to reduce their carbon footprint.**

Requiring the State to reduce its carbon footprint by using lower carbon technologies in its buildings, highways, and other public works projects, where feasible and cost effective, is also vital in helping the State achieve its goal of becoming carbon negative as soon as practicable but not later than 2045.

The State should lead by example to show the world how to the mitigate climate crisis!

Please pass this excellent bill!

Mahalo!

Climate Protectors Hawai'i (by Ted Bohlen)

HB-2423-HD-1

Submitted on: 4/6/2022 9:06:48 PM

Testimony for JDC on 4/8/2022 9:50:00 AM

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

Comments:

The State can set the standards for how to build better, low carbon structures and highways. State housing projects and all state construction should be included as well. How we design, build and use all structures needs to be considered as we work to decarbonize.



Environmental Caucus of The Democratic Party of Hawai'i

To: The Honorable Donovan Dela Cruz, Chair
The Honorable Gilbert S.C. Keith-Agaran, Vice Chair
Committee on Ways and Means

The Honorable Karl Rhoads, Chair
The Honorable Jarrett Keohokalole, Vice Chair
Committee on Judiciary

Re: **HB 2423 HD 1, RELATING TO CLIMATE CHANGE MITIGATION**

Hearing: Friday, April 8, 2022, 9:50 a.m.
Conference Room 211, via Videoconference

Position: **Strong Support**

Aloha, Chairs Dela Cruz and Rhoads, Vice Chairs Keith-Agaran and Keolokalole, and Members of the Committees on Ways and Means; and Judiciary:

The Environmental Caucus of the Democratic Party of Hawai'i stands in strong support of HB 2423 HD1. This measure would require all state building construction projects and state highway projects to use building and construction materials that seek to reduce their carbon footprint, where feasible and cost effective.

Carbon footprints focus on the greenhouse gas emissions associated with consumption, as opposed to greenhouse gas emissions associated with production. Individuals and corporations can take several steps to reduce their carbon footprints and thus contribute to global climate mitigation.

Carbon footprints can be reduced through improving energy efficiency and changing lifestyles and purchasing habits. Switching one's energy and transportation use can have an impact on primary carbon footprints. For example, using public transportation such as buses, would reduce an individual's carbon footprint as compared with driving. Individuals and corporations can reduce their respective carbon footprints by installing energy-efficient lighting, adding insulation in buildings, or using renewable energy sources to generate the electricity they require. For example, electricity generation from wind power produces no direct carbon emissions. Additional lifestyle choices that can lower an individual's secondary carbon footprint include reducing one's consumption of meat and switching one's purchasing habits to products that require fewer carbon emissions to produce and transport. "Buying local" would reduce the state's carbon footprint.



April 8, 2022

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In our view, this bill is highly beneficial as it would require each state building construction project and each state highway project to use building and construction materials that will reduce the carbon footprint of the building or highway project, where feasible and cost effective, for the purpose of reducing the project's carbon footprint which in turn, will serve to assist in the state's efforts to mitigate climate change; accordingly, we respectfully request that this bill be passed by your Committees.

Mahalo for the opportunity to testify,

Melodie Adaja

and Alan Burdick

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



To: The Senate Committee on Judiciary (JDC)
and
The Senate Committee on Ways and Means (WAM)
From: Sherry Pollack, 350Hawaii.org
Date: Friday, April 8, 2022, 9:50am

In support of HB2423 HD1

Aloha Chairs Rhoads and Dela Cruz, Vice Chairs Keohokalole and Keith-Agaran, and members of the JDC and WAM committees;

I am Co-Founder of the Hawaii chapter of 350.org, the largest international organization dedicated to fighting climate change. 350Hawaii.org **supports HB2423 HD1** that requires all state building construction projects and state highway projects to use building and construction materials that seek to reduce their carbon footprint, where feasible and cost effective.

This measure will help reduce greenhouse gases, which is critically needed in our fight against the climate crisis. We encourage that when making decisions for State building designs for new buildings that consideration is made for the potential of plant-based products such as industrial hempcrete and structural bamboo to replace carbon-intensive materials used today such as concrete and steel. Cement, a basic material for all types of construction, is responsible for up to 8% of the world's carbon dioxide emissions. The simple act of switching to a low-carbon concrete can make a huge difference in our efforts to lower carbon emissions. We need to target all emission sources, especially cost-effective low hanging fruit like this.

Scientists have declared that the decade we are in right now is one of the most consequential decades for our climate future. **Children living today will live to see a 1.5°C warmer world because of the failure of adults to take real action when there still was time to do so.** We must consider **these costs** in our decision-making process and take action to reduce our greenhouse gas emissions across all sectors in our efforts to confront the climate crisis. HB2423 HD1 is a step forward in these efforts.

Mahalo for the opportunity to testify on this very important legislation.

Sherry Pollack
Co-Founder, 350Hawaii.org

HB-2423-HD-1

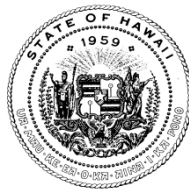
Submitted on: 4/7/2022 7:58:38 AM

Testimony for JDC on 4/8/2022 9:50:00 AM

Submitted By	Organization	Testifier Position	Testify
Henry Curtis	Testifying for Life of the Land	Support	Written Testimony Only

Comments:

Please pass this important legislation. Mahalo



TESTIMONY BY:

JADE T. BUTAY
DIRECTOR

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

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



April 8, 2022
9:50 A.M.

State Capitol, Conference Room 211/Teleconference

H.B. 2423, H.D. 1
RELATING TO CLIMATE CHANGE MITIGATION

Senate Committee(s) on Judiciary & Ways and Means

H.B. 2423, H.D. 1 requires all state building construction projects and state highway projects to use building and construction materials that seek to reduce their carbon footprint, where feasible and cost effective. The Department of Transportation (DOT) **supports** H.B. 2423, H.D. 1.

The DOT is always actively looking for technologies to reduce carbon emission in construction.

The DOT Highways Division has been using carbon reduction technology to reduce the embodied carbon footprint of concrete highway infrastructure and requires that all structural concrete placed in highways projects on Oahu use such technology. Our first choice is to utilize carbon dioxide mineralization, a technology that we have successfully and cost effectively employed on a number of projects. However, other options are available within our specifications to ensure we have options should the cost of carbonization increase, or if the locally sourced carbon dioxide is in short supply.

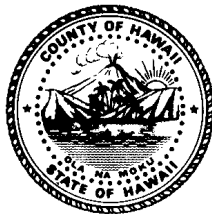
For asphalt roads, the DOT Highways Division has transitioned to use more durable pavements that will extend the anticipated service life of pavement. The use of polymer modified asphalt and stone matrix asphalt mixes are anticipated to increase the life of pavements approximately 10 years. By utilizing longer lasting pavements, DOT can extend the time when major reconstruction is needed and reduce construction emissions by reducing construction activities need to maintain our roads.

The DOT is also looking into new innovations for sustainability in asphalt roads. The DOT will be piloting a recycled plastic asphalt pavement project on Oahu. The pilot project will replace a certain percentage of the asphalt binder with recycled plastic. The carbon impact would be reduced since it would result in less asphalt binder (petroleum product) used in the pavement. The pilot project would also utilize plastic waste that will be redirected from a landfill or incineration. The pilot project will evaluate and monitor if

road performance is impacted, as well as check if any microplastics may leach off the roadway.

Thank you for the opportunity to provide testimony.

REBECCA VILLEGAS
Council Member
District 7, Central Kona



PHONE: (808) 323-4267
FAX: (808) 323-4786
EMAIL: Rebecca.villegas@hawaiicounty.gov

HAWAI'I COUNTY COUNCIL

West Hawai'i Civic Center, Bldg. A
74-5044 Ane Keohokalole Hwy. Kailua-Kona, Hawai'i 96740

April 7, 2022

TESTIMONY OF REBECCA VILLEGAS
COUNCIL MEMBER, HAWAI'I COUNTY COUNCIL
ON HB 2423 HD1, RELATING TO CLIMATE CHANGE MITIGATION

Committee on Judiciary
Committee on Ways and Means
Friday, April 8, 2022 at 9:50 a.m.

Aloha Chair Rhoads, Chair Dela Cruz, and Members of the Committees:

I thank you for the opportunity to testify in support of HB 2423 HD1. My testimony is submitted in my individual capacity as a member of the Hawai'i County Council and Chair of the Hawai'i County Council Climate Resilience and Natural Resource Management Committee.

The purpose of this Act is to require all state building construction projects and state highway projects to use building and construction materials that seek to reduce their carbon footprint, where feasible and cost effective.

Heating, ventilation and air conditioning systems (HVAC) regularly maintained and updated can help reduce a buildings carbon footprint by being as efficient as they can be without wasting excess energy. Reduction of carbon emissions in proposed new building and highway plans will be critical to achieving the climate and sustainability goals in our State of Hawai'i 2050 Sustainability Plan.

For the reasons stated above I urge the Committee on Judiciary, and the Committee on Ways and Means to support this measure as well. Should you have any questions, please feel free to contact me at (808) 323-4267.

Mahalo for your consideration.

A handwritten signature in black ink, appearing to read "Rebecca Villegas".

Rebecca Villegas
Council Member, Hawai'i County Council

HB-2423-HD-1

Submitted on: 4/6/2022 6:02:45 PM

Testimony for JDC on 4/8/2022 9:50:00 AM

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

Comments:

Dear JDC and WAM Chairs and committee members,

Hawaii should be doing all it can to improve the energy efficiency of its buildings and facilities. They are major sources of fossil fuel emissions, including the cement used in their construction. Conventional cement contributes more than 8% of the world's CO2 emission. Requiring the use of low-carbon concrete for State construction projects--including roads and highways--should be a no-brainer.

Please pass HB2423 HD1 so that we can get the paperwork started to require sustainable building materials in Hawaii.

Thank you,

Jan Pappas

Aiea, Hawaii 96701

HB-2423-HD-1

Submitted on: 4/6/2022 8:23:38 PM

Testimony for JDC on 4/8/2022 9:50:00 AM

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

Comments:

I am glad to see that the legislature is looking to multiple ways reduce our carbon footprint. Everything we do matters, and these changes will make a difference. Please support.

HB-2423-HD-1

Submitted on: 4/6/2022 9:46:36 PM

Testimony for JDC on 4/8/2022 9:50:00 AM

Submitted By	Organization	Testifier Position	Testify
stephanie frazier	Individual	Support	Written Testimony Only

Comments:

I support this bill to help protect our environment.

thank you,

stephanie frazier

HB-2423-HD-1

Submitted on: 4/6/2022 5:10:35 PM

Testimony for JDC on 4/8/2022 9:50:00 AM

Submitted By	Organization	Testifier Position	Testify
Hideki Kimukai	Individual	Support	Written Testimony Only

Comments:

Aloha house committe members,

I am writing this testimony to support HB2423. Climate change is not slowing down. We must take any step possible to mitigate the climate crisis and help our future. Decisions we will make today will make a big impact as we are feeling the impact from the decisios that were made in the past. We can only change our future. Industrial and consturction sector plays a big role in carbon footprint reduction. Please vote yes for our future. Mahalo nui for your help. Hideki

HB-2423-HD-1

Submitted on: 4/6/2022 9:52:16 PM

Testimony for JDC on 4/8/2022 9:50:00 AM

Submitted By	Organization	Testifier Position	Testify
heidi kreul	Individual	Support	Written Testimony Only

Comments:

I support bill HB2423.

mahalo nui

HB-2423-HD-1

Submitted on: 4/7/2022 5:28:14 AM

Testimony for JDC on 4/8/2022 9:50:00 AM

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

Comments:

Aloha JDC/WAM Chairs, Vice Chairs & Committees,

I support HB2423 HD1. In 2017 Hawaii became the first state to enact a law that aligned with the Paris agreement. In 2021 Hawaii became the first state to enact a Climate Emergency Resolution. BUT where are our climate resolutions of 2022 to meet our lofty laws and resolutions? We need to back up these proposed laws and resolutions with bills that will move us in the right direction. This bill will assist us in meeting our stated aims. All buildings, highways etc have embodied energy (the amount of energy needed to produce the building/highways etc). This bill addresses embodied energy by using low-carbon concrete.

State building designs for new building and highway projects can avoid large amounts of greenhouse gas emissions and save taxpayers money if agencies consider how to reduce their carbon footprint. This measure will help reduce greenhouse gases, which is critically needed in our fight against the climate crisis. Cement, a basic material for all types of construction, is responsible for up to 8% of the world's carbon dioxide emissions. The simple act of switching to a low-carbon concrete will lower carbon emissions.

Construction is a significant contributor to carbon emissions. By starting with state buildings constructed, Hawaii state government can lead by example in transitioning toward more environmentally sustainable buildings and highways.

Mahalo for your consideration,

Tlaloc Tokuda

Kailua Kona, HI 96740

LATE

HB 2423 HD 1 TESTIMONY

To: Senate Committee on Ways and Means
Hearing on April 8, 2022 at 9:50 a.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 avoid 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 reduce the carbon footprints of buildings and highways. For example, concrete is responsible for large amounts of carbon dioxide emissions. New methods have been developed that reduce these emissions. This bill makes the State a leader in shifting toward more environmentally sustainable buildings and highways.

LATE

HB-2423-HD-1

Submitted on: 4/7/2022 9:10:29 PM

Testimony for JDC on 4/8/2022 9:50:00 AM

Submitted By	Organization	Testifier Position	Testify
Megan Okuma	Individual	Support	Written Testimony Only

Comments:

Aloha, I am writing in support of HB2423 HD1 which requires all state building construction projects and state highway projects to use building and construction materials that seek to reduce their carbon footprint, where feasible and cost effective. As a young adult who lives in Hawaii, the climate crisis is an extremely prevalent and concerning issue that affects my life in the very near future if not currently. Requiring future state construction projects to be cognisant and active in reducing the footprint they leave behind is an important step toward diminishing the inevitable negative impacts we will have on Hawaii's environment in the future. Therefore, I support HB2423 HD1.

Mahalo for your consideration.

LATE

HB-2423-HD-1

Submitted on: 4/7/2022 11:25:55 PM

Testimony for JDC on 4/8/2022 9:50:00 AM

Submitted By	Organization	Testifier Position	Testify
Eileen Nelson	Individual	Support	Written Testimony Only

Comments:

I support this Bill!

LATE

HB-2423-HD-1

Submitted on: 4/8/2022 8:05:49 AM

Testimony for JDC on 4/8/2022 9:50:00 AM

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

Comments:

I support this measure which will kickstart the development and use of new green building technologies. These technologies will bring economic growth to our state.

LATE

HB-2423-HD-1

Submitted on: 4/7/2022 2:46:46 PM

Testimony for JDC on 4/8/2022 9:50:00 AM

Submitted By	Organization	Testifier Position	Testify
Gerard Silva	Individual	Oppose	Written Testimony Only

Comments:

There is no such thing as Clime Change this is all made up by the Media and the Crooked Government Being run By Comunist. End the Bull Shit the People are tired of it . We will have to Clean House this Election!!!!