

STATE OF HAWAII
DEPARTMENT OF HEALTH
P. O. Box 3378
Honolulu, HI 96801-3378
doh.testimony@doh.hawaii.gov

**Testimony in SUPPORT of HB2413 HD1
RELATING TO ENERGY**

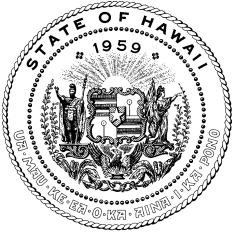
REPRESENTATIVE ROY M. TAKUMI, CHAIR
HOUSE COMMITTEE ON CONSUMER PROTECTION & COMMERCE
Hearing Date: 2/10/2020 Room Number: 329

- 1 **Fiscal Implications:** This measure may impact the priorities identified in the Governor's
- 2 Executive Budget Request for the Department of Health's (Department) appropriations and
- 3 personnel priorities. Undetermined appropriation of general funds to conduct the study.

- 4 **Department Testimony:** The Department of Health supports this measure. We agree with the
- 5 legislature's finding that proper management of solar panel waste will be a rapidly growing
- 6 problem in the State as panels installed in the 1990s reach their end-of-life within the next
- 7 decade. The Department has already begun evaluating disposal options and looks forward to our
- 8 continued collaboration with the State Energy Office.

- 9 **Offered Amendments:** None.

- 10 Thank you for the opportunity to testify on this measure.



HAWAII STATE ENERGY OFFICE STATE OF HAWAII

235 South Beretania Street, 5TH Floor, Honolulu, HI 96813 | energy.hawaii.gov

DAVID Y. IGE
GOVERNOR

SCOTT J. GLENN
CHIEF ENERGY OFFICER

(808) 587-3807

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

before the
HOUSE COMMITTEE ON CONSUMER PROTECTION & COMMERCE
Monday, February 10, 2020
2:00 PM
State Capitol, Conference Room 329

In SUPPORT of **HB 2413, HD1** **RELATING TO ENERGY.**

Chair Takumi, Vice Chair Ichiyama, and members of the Committee. The Hawaii State Energy Office (HSEO) supports HB 2413, HD1, which requires HSEO, in consultation with the Department of Health (DOH), to conduct a comprehensive study of the disposal and recycling of solar panels and other discarded clean energy products in the state, and requires an interim report and a final report to the legislature.

This bill is consistent with the Department of Business, Economic Development and Tourism's (DBEDT) Fiscal Year 2021 Supplemental Operating Budget request for an appropriation from the Energy Security Special Fund to HSEO to "conduct an initial analysis or assessment of recycling of clean energy waste."

HSEO recognizes the need to conduct this analysis at this time as earlier generation technologies are now passing their useful commercial lifetime and need to be disposed, including photovoltaic (PV) modules (commonly known as "PV panels"), solar thermal collectors (solar water heater panels), and batteries from electric vehicles. In addition, many new technologies are now being deployed that must be accounted for in the future when they are no longer useful, including batteries for PV systems.

HSEO appreciates the amendments made in HD1 to expand the scope of the study to include other clean energy materials per DBEDT's budget request.

HSEO believes it is important to collaborate with other stakeholders who have direct experience with this issue and could be involved in any implemented actions, including the solar industry and experts from the shipping, recycling, and waste management industries, and other pertinent stakeholders.

Thank you for the opportunity to testify.

HB-2413-HD-1

Submitted on: 2/9/2020 10:27:43 AM

Testimony for CPC on 2/10/2020 2:00:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Dylan P. Armstrong	Individual	Support	No

Comments:

Aloha Chair Takumi, Vice Chair Ichiyama, and Esteemed Members of the Committee on Consumer Protection and Commerce:

I write in support of House Bill 2413, House Draft 1.

When we think of clean energy in a changing climate, we often may imagine infrastructure improvements so important for the status quo that the disposal can be an afterthought. This measure wisely things of the complete picture, and tasks the Hawai'i State Energy Office with studyng disposal and recycling with the Department of Health.

This draft has incorporated departmental and office comments, along with the needs of businesses in the clean energy industry. This measure is prudent, incremental, and holistic.

I thank Representative Kitagawa for introducing this measure. Please pass HB2413 HD1.

Thank you,
Dylan P. Armstrong

HB-2413-HD-1

Submitted on: 2/9/2020 1:52:00 PM

Testimony for CPC on 2/10/2020 2:00:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
John L. Reppun	Individual	Support	No

Comments:

Chair Takumi, Vice Chair Ichiyama & Committee Members:

I previously submitted testimony in support of the original measure, now before your Committee on Consumer Protection and Commerce as HB2413HD 1. I urge your favorable consideration. It is both exciting and critical to see the State of Hawaii move forward - and quickly - in the direction of expanded use of alternative energy options. At the same time, every such option comes with the need for planning and consideration of implications, both obvious and hidden.

I have lived "off the grid" for the past four decades, learning "as we go", advocating for alternatives for many years. While always aware of a projected lifespan for photovoltaic panels and batteries for such systems, I've only recently learned enough about the component elements (of PV panels) to begin to understand the urgent need for a plan for disposal/recycling. It is clear that we are - locally, nationally, internationally - behind in planning for the inevitable "end of life" for these and other alternative energy products.

Support for a plan to be executed in coordination between the Hawaii State Energy Office and the Dept of Health is wise; as such a study comes about, I would urge there to be a Stakeholders engagement element in order to include community, industry expertise and input as well.

Please move this measure forward. Mahalo for the opportunity to provide input

John L. Reppun

jrppun@keyproject.org; 277-8686