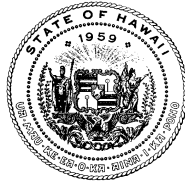


SB 1242 SD1

Measure Title:	RELATING TO SOLID WASTE DISPOSAL GOALS.
Report Title:	Solid Waste Goals; Department of Health
Description:	Amends the Department of Health's solid waste management goals by repealing outdated goals and adding an updated goal of reducing total solid waste prior to disposal by seventy per cent by 2030. (SD1)
Companion:	HB1016
Package:	Governor
Current Referral:	AEN, CPH
Introducer(s):	KOUCHI (Introduced by request of another party)



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

WRITTEN
TESTIMONY ONLY

**Testimony in SUPPORT of SB1242 SD1
RELATING TO SOLID WASTE DISPOSAL GOALS**

SENATOR ROSALYN H. BAKER, CHAIR
SENATE COMMITTEE ON COMMERCE, CONSUMER PROTECTION, AND HEALTH
Hearing Date: February 26, 2019 Room Number: 229

1 **Fiscal Implications:** None

2 **Department Testimony:** The Department of Health (Department) supports SB1242 SD1 as the
3 Department needs to update the State's goals to reduce solid waste prior to landfill disposal that
4 was set in the law 28 years ago.

5 The State Auditor in Report No. 14-16, "Audit of the Department of Health's Glass
6 Advance Disposal Fee Program," recommended that the Department should work with the
7 Legislature to update the State's waste disposal goals to ensure the goals are measurable and
8 revised when necessary.

9 The proposed goal is consistent with the Aloha+ Challenge target of reducing 70 percent
10 of total solid waste prior to disposal by 2030.

11 **Offered Amendments:** None

12 Thank you for the opportunity to testify on this measure.

13

14

15

16

DEPARTMENT OF ENVIRONMENTAL SERVICES
CITY AND COUNTY OF HONOLULU

1000 ULUOHIA STREET, SUITE 308, KAPOLEI, HAWAII 96707
TELEPHONE: (808) 768-3486 • FAX: (808) 768-3487 • WEBSITE: <http://envhonolulu.org>

KIRK CALDWELL
MAYOR



LORI M.K. KAHIKINA, P.E.
DIRECTOR

TIMOTHY A. HOUGHTON
DEPUTY DIRECTOR

ROSS S. TANIMOTO, P.E.
DEPUTY DIRECTOR

IN REPLY REFER TO:
WAS 19-71

February 21, 2019

The Honorable Rosalyn H. Baker, Chair
The Honorable Stanley Chang, Vice Chair
and Members of the Committee on Commerce,
Consumer Protection and Health
State Senate
State Capitol, Room 229
415 South Beretania Street
Honolulu, Hawaii 96813

Dear Chair Baker, Vice Chair Chang and Members:

SUBJECT: SB 1242 SD1
Relating to Solid Waste Disposal Goals

The Department of Environmental Services of the City and County of Honolulu (ENV) strongly supports S.B. 1242, S.D. 1, and the goals of the Aloha + Challenge and submits the following comments on the subject bill.

The City's H-POWER waste-to-energy facility processes 700,000 tons of waste per year, reducing the volume of waste by up to 90% prior to landfill disposal. Additionally, H-POWER is capable of generating up to 90 megawatts of reliable, renewable power for Oahu, reducing Hawaii's dependence on imported oil and advancing the State's commitment to achieving 100% renewable energy by 2045. It follows that waste-to-energy should be included among the solid waste management strategies that contribute to the solid waste reduction goal of the Aloha + Challenge.

Thank you for your consideration.

Sincerely,

Lori M.K. Kahikina, P.E.
Director



Email: communications@ulupono.com

SENATE COMMITTEE ON COMMERCE, CONSUMER PROTECTION, & HEALTH
Tuesday, February 26, 2019 — 9:30 a.m. — Room 229

Ulupono Initiative Supports SB 1242 SD 1, Relating to Solid Waste Disposal Goals

Dear Chair Baker, Vice Chair Chang, and Members of the Committee:

My name is Murray Clay and I am Managing Partner of the Ulupono Initiative, a Hawai'i-based impact investment firm that strives to improve the quality of life for the people of Hawai'i by working toward solutions that create more locally produced food; increase affordable, clean, renewable energy; and better manage waste and fresh water resources. Ulupono believes that self-sufficiency is essential to our future prosperity and will help shape a future where economic progress and mission-focused impact can work hand in hand.

Ulupono supports SB 1242 SD 1, which updates the Department of Health's solid waste management goals to align with the Aloha+ Challenge, because it aligns with our goal of reducing waste in Hawai'i.

As an island state, Hawai'i is responsible for handling and diverting its waste streams. Waste goals help to unify a shared outcome expectation amongst various stakeholders. However, we believe H-POWER serves a role in reducing waste to the landfill, while also reducing imported fossil fuels. We believe H-POWER should be considered part of the calculation. Therefore, the target should be an 85 percent goal in 2030 with H-POWER as part of the calculation. Setting a goal would motivate stakeholders to collaborate their efforts.

As Hawai'i's waste issues become increasingly complex and challenging, we appreciate this committee's efforts to look at policies that address these issues.

Thank you for this opportunity to testify.

Respectfully,

Murray Clay
Managing Partner

Investing in a Sustainable Hawai'i



Nicole Chatterson
Director, Zero Waste O'ahu
oahu.zerowaste@gmail.com
808.561.7730

February 24, 2019

Aloha Chair Baker, Vice Chair Chang and CPH Committee Members:

My name is Nicole Chatterson, I am Mānoa resident writing in **opposition with comments to SB 522 SD 1**, which update state solid waste management goals by repealing outdated goals and adding new, flawed goals.

Comments: While the intent of the bill to update and strengthen our waste reduction goals is important and necessary, the amended language of SD 1 is problematic and would result in less waste reduction. The following section re-focuses the goal language from “solid waste stream” reduction to reducing waste prior to “landfill disposal” only.

“(a) It is the goal of the State to reduce [~~the~~] total solid waste [~~stream~~] prior to landfill disposal by....”

In the waste management field disposing of waste via landfill, incineration, waste-to-energy, and even recycling are all “downstream” waste management techniques. Downstream management focuses only on dealing with trash *after* it is created. Instead of working to reduce the total amount of waste created *prior to disposal*, this measure simply allows the counties to continue increasing their total waste footprint and instead to just put their waste somewhere besides the landfill (most likely in an incinerator since the recycling market has crashed).

More effective language for achieve total solid waste reduction would read “....*reduce the solid waste stream prior to disposal of any kind*” If we do not reduce the whole solid waste **prior to disposal of any kind**, this means we risk rampant waste production which results in upstream impacts through the extraction, production, and transportation of products-turned-trash. According to the U.S. EPA, **about 42% of the U.S. greenhouse gas footprint results from this production-disposal chain**¹.

¹ <https://www.epa.gov/smm/epa-sustainable-materials-management-program-strategic-plan-fiscal-years-2017-2022>



If single-use plastic consumption and waste maintains on the current trajectory, **plastic use will account of 20% of our fossil fuel use by 2050²**. While recycling and waste-to-energy are often cited as ways to deal with this plastic waste—we have recently seen that the recycling markets are too unstable to offer a consistent, sustainable solution to our waste. Compounding this, roughly 80% of the Global North’s ‘recyclable’ plastics (exported from places like Hawai‘i) are not recycled and instead escape into the marne environment.³

While we have the option to incinerate plastic for energy locally via H-POWER, this is also a flawed approach. Per megawatt, **H-POWER produces 3 times more greenhouse gas emissions than Kahe—O‘ahu’s largest oil-based energy plant.**⁴ Further, **H-POWER requires 800,000 tons of waste annually** to maintain operations and profit margins.

If Hawai‘i is indeed serious about our commitment to the Paris Climate Accord and mitigating our climate footprint, it is clear that single-use plastic reduction (and waste reduction in general) is a necessary part of our climate change prevention tool-kit.

Plastic pollution reduction and movement away from a single-use economy are directly tied to the Aloha + Challenge goals to reduce our solid waste footprint and build sustainable communities. Further, plastic and single-use reduction also correspond to the following [United Nations Sustainable Development Goals](#), which have been adopted as a framework by the Hawai‘i State Senate.

- **SDG 12 = Responsible Production & Consumption**
- **SDG 13 = Climate Action**
- **SDG 14 = Life Below Water**
- **SDG 15 = Life on Land**

Mahalo for your time and consideration.

Nicole Chatterson

Director, Zero Waste O‘ahu

² UNEP (2018). SINGLE-USE PLASTICS: A Roadmap for Sustainability

³ World Economic Forum (2015). The New Plastics Economy. Rethinking the future of plastics.

⁴ <https://ghgdata.epa.gov/ghgp/main.do>



SIERRA CLUB OF HAWAI'I

MĀLAMA I KA HONUA. *Cherish the Earth.*

SENATE COMMITTEE ON COMMERCE, CONSUMER PROTECTION, AND HEALTH

February 26, 2019 9:00 AM Room 229

COMMENTS for SB 1242 SD1: Relating to solid waste disposal goals

Aloha Chair Baker, Vice Chair Chang, and members of the committee,

On behalf of our 20,000 members and supporters, the Sierra Club of Hawai'i **offers comments for SB 1242 SD1**, which seeks to update the Department of Health's solid waste management goals to align with the Aloha+ Challenge.

The Sierra Club of Hawai'i is committed to supporting efforts seeking to reduce waste and consumption across the islands like the State's Aloha+ Challenge goal for solid waste reduction. However, we do offer **recommended amendments** to ensure this path to solid waste reduction is done in the most effective, clean and sustainable way as possible.

Amend as follows:

- ~~"Reducing total solid waste prior to disposal by seventy per cent by 2030"~~ to "Reducing total solid waste prior to disposal by any means, including but not limited to, landfill, incineration, waste-to-energy, or recycling by seventy per cent by 2030"

According to the U.S. EPA and Hawaiian Electric Company (HECO) data, **H-POWER produces 3 times more emissions than the Kahe oil plant and 10% MORE GHG emissions than the AES coal plant.**

Due to the above statement, we *urge the committee* to make the necessary amendments to SB 1242 SD1, which will help ensure an effective, clean and sustainable path towards solid waste reduction for the State of Hawaii.

Thank you very much for this opportunity to provide testimony.

Mahalo,
Lori Mallini
Volunteer, Sierra Club of Hawai'i

SB-1242-SD-1

Submitted on: 2/24/2019 6:17:45 PM

Testimony for CPH on 2/26/2019 9:00:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
Mia Melamed	Individual	Oppose	No

Comments:

SB-1242-SD-1

Submitted on: 2/24/2019 8:19:13 PM

Testimony for CPH on 2/26/2019 9:00:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
Lorraine Garnier	Individual	Oppose	No

Comments:

I oppose SB1242.

SB-1242-SD-1

Submitted on: 2/25/2019 8:17:16 AM

Testimony for CPH on 2/26/2019 9:00:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
Joy Silver	Individual	Oppose	No

Comments:

SB-1242-SD-1

Submitted on: 2/24/2019 7:43:58 PM

Testimony for CPH on 2/26/2019 9:00:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
Ray Aivazian III	Individual	Oppose	No

Comments:

The focus of this bill is on waste reduction not landfill diversion. The use of the word diversion when it comes to waste will never be a solution, it is just that, a diversion. Through this practice though what we are diverting is an issue that future generations will have to deal with instead of us. These subjects need to be addressed in a sustainable matter in order to preserve the quality of life for us and future generations to come.

SB-1242-SD-1

Submitted on: 2/24/2019 7:50:04 PM

Testimony for CPH on 2/26/2019 9:00:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
Zamora Sanchez	Individual	Oppose	No

Comments:

Used to be a good bill originally, but this bill and it's companion (HB 1016) are aiming to change original waste reduction gpal to "landfill diversion" instead. This means that waste won't actually be reduced in any way, but another place besides a landfill will be chosen for trash to be dumped, which can be avoided and is very unecessary. By reducing the actual amount of trash created, we are benefiting everything and everyone way more than just picking another plcae to dump the same big amount of trash. WE NEED POLLUTION AND TRASH REDUCED GREATLY, nothing else.

SB-1242-SD-1

Submitted on: 2/25/2019 9:25:39 AM

Testimony for CPH on 2/26/2019 9:00:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
Mio Chee	Individual	Oppose	No

Comments:

SB-1242-SD-1

Submitted on: 2/25/2019 9:38:11 AM

Testimony for CPH on 2/26/2019 9:00:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
Jennifer Milholen	Individual	Oppose	No

Comments:

This was a good bill originally, and on first glance has tremendous merit. "However, the amendments to SB 1242 (and companion bill HB 1016) change our state waste reduction goal to focus on **“landfill diversion” instead of waste reduction**. What does this mean? Landfill diversion means that instead of creating less trash through product design, policy and behavior change— we just keep producing lots of trash and put it somewhere other than a landfill instead."

That "instead" could be any technology that has just as much negative harm to Hawai'i as landfilling. On O'ahu that means that incineration is endorsed as a sustainable strategy in spite of the fact that the EPA clearly shows incineration and landfilling TOGETHER as the WORST method for managing municipal waste. This is in spite of the reality that smokestack emissions from HPOWER are HIGHER than even coal or gas - the second highest source of emissions on O'ahu.

SB-1242-SD-1

Submitted on: 2/25/2019 9:40:15 AM

Testimony for CPH on 2/26/2019 9:00:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
Stacey Gray	Individual	Oppose	No

Comments:

Aloha Chair Baker and Committe Members,

I disagree with the change in language: state waste reduction goal to focus on **“landfill diversion” instead of waste reduction.**

For this reason please oppose this bill.

SB-1242-SD-1

Submitted on: 2/25/2019 9:56:47 AM

Testimony for CPH on 2/26/2019 9:00:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
june chee	Individual	Oppose	No

Comments:

SB-1242-SD-1

Submitted on: 2/25/2019 10:16:11 AM

Testimony for CPH on 2/26/2019 9:00:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
Kaliko Amona	Individual	Oppose	No

Comments:

I oppose this bill with the last round of edits made to it. By adding in the term "landfill," the bill keeps us dependent on burning waste at H-Power, with no real incentive to reduce the actual amount of waste we create. H-POWER produces a lot of toxins and more greenhouse gas emmissions from the smokestack than oil or coal.

Our state needs to reduce the amount of waste we produce period, not just keep burning it.

Thank you.

SB-1242-SD-1

Submitted on: 2/25/2019 10:05:53 AM

Testimony for CPH on 2/26/2019 9:00:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
Marissa Miller	Individual	Oppose	No

Comments:

I am writing in opposition of this bill because it redirects Hawai'i's waste reduction goals to focus on "landfill diversion" and does not require us to minimize how much trash we make. We need to focus legislation and funding on reducing the amount of trash we are creating and redesigning our waste disposal systems accordingly. Thi bill makes it so that instead of making a positive impact--we would still produce too much trash and then send it somewhere other than the landfill. On O'ahu this likely means the trash would get burned at H-POWER to make so-called "clean, local energy". In reality, H-POWER produces a lot of toxins and MORE greenhouse gas emission from the smokestack THAN OIL OR COAL! We do not need this in our islands. H-power is not the solution to our trash problem.

As a representative of Hawai'i's youth, I urge you not to pass this bill as it is currently written so that we can pass more effective legislation to protect these islands for my generation's future. It is for the good of our local economy, the environment, and social justice.

SB-1242-SD-1

Submitted on: 2/25/2019 11:09:52 AM

Testimony for CPH on 2/26/2019 9:00:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
Kela Megorden	Individual	Oppose	No

Comments:

This bill redirects Hawaii's waste reduction goals to focus on landfill diversion but doesn't minimize how much trash the state produces. I do not support the possible use of H-Power burning of trash because this process releases toxins and greenhouse gases.

SB-1242-SD-1

Submitted on: 2/25/2019 11:12:30 AM

Testimony for CPH on 2/26/2019 9:00:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
Elizabeth Leyshon	Individual	Oppose	No

Comments:

SB-1242-SD-1

Submitted on: 2/25/2019 11:46:53 AM

Testimony for CPH on 2/26/2019 9:00:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
kai chase	Individual	Oppose	No

Comments:

I do not support SB1242 SD1!

SB-1242-SD-1

Submitted on: 2/25/2019 11:38:25 AM

Testimony for CPH on 2/26/2019 9:00:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
Andrea Quinn	Individual	Support	No

Comments:

Dear Honorable Committee Members:

Please support SB1242. By using more up-to-date systems in solid waste disposal is to help protect against pollution and contamination.

Thank you for the opportunity to present my testimony.

Andrea Quinn

Kihei

SB-1242-SD-1

Submitted on: 2/25/2019 11:59:51 AM

Testimony for CPH on 2/26/2019 9:00:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
Jenna Neher	Individual	Oppose	No

Comments:

I oppose SB1242 because it focuses on "landfill diversion." Rather, we should be focused on reducing our consumption and policy should facilitate this. Individual and corporate action won't change unless policy changes first! H-Power produces a lot of toxins and more greenhouse gas emissions from the smokesatck than oil and coal. This is sending Hawaii BACKWARD.

SB-1242-SD-1

Submitted on: 2/25/2019 12:42:35 PM

Testimony for CPH on 2/26/2019 9:00:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
Andrew Levora	Individual	Support	No

Comments:

I support this SB 1242 because we need to reduce the total waste that we produce in our islands. Additionally, I believe burning the trash through H-Power is a viable option, as long as this process is done in a sustainable and continually environmentally conscious way, in terms of ensuring the residual pollution created (CO2 and other air pollutants) are properly scrubbed from the air and properly disposed. This proposition could lead to a reduction of overall trash while still generating electricity.

SB-1242-SD-1

Submitted on: 2/25/2019 12:56:14 PM

Testimony for CPH on 2/26/2019 9:00:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
Nicole Valhuerdi	Individual	Oppose	No

Comments:

I oppose this bill because it redirects Hawaii's waste reduction goals to focus on "landfill diversion" and does not require us to minimize how much trash we make.

SB-1242-SD-1

Submitted on: 2/25/2019 12:55:02 PM

Testimony for CPH on 2/26/2019 9:00:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
Yui Hartman	Individual	Oppose	No

Comments:

This is only a temporary fix for Hawaii's waste reduction goals, not REQUIRING us to minimize how much trash we produce. Malama the aina

SB-1242-SD-1

Submitted on: 2/25/2019 12:51:23 PM

Testimony for CPH on 2/26/2019 9:00:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
Dyson Chee	Individual	Oppose	No

Comments:

As a 16 year old high schooler, I strongly oppose SB1242 as it does not promote a green Hawaii. This bill focuses on "landfill diversion" and does not require us to minimize how much trash we make. Instead of making a positive impact, we would still produce too much trash and then send it somewhere other than the landfill. On O'ahu this likely means the trash would get burned at H-POWER to make so-called "clean, local energy." H-POWER is NOT clean, local energy, as it emits an enormous amount of carbon emissions, and produces a toxic ash which cannot be used without risking the health of many people. Please do not pass SB1242, for the sake of our precious island and future generations. Mahalo.

SB-1242-SD-1

Submitted on: 2/25/2019 12:57:29 PM

Testimony for CPH on 2/26/2019 9:00:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
Anny Barlow	Individual	Oppose	No

Comments:

I would rather be seeing a waste reduction tact when tackling out waste management problem.

SB-1242-SD-1

Submitted on: 2/25/2019 1:37:58 PM

Testimony for CPH on 2/26/2019 9:00:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
Jesse Owens, Ph. D.	Individual	Oppose	No

Comments:

This bill is sneaky. It is trying to appear pro-environmental, however the bill supports production of excess trash and supports using H-power which has many downsides. H-power emits carbon into the atmosphere and creates toxins. We should be supporting reduction in waste. This bill does not support reduction in waste. I oppose.

SB-1242-SD-1

Submitted on: 2/25/2019 1:57:39 PM

Testimony for CPH on 2/26/2019 9:00:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
Laura Macklin	Individual	Oppose	No

Comments:

I oppose this bill because it does nothing to address the urgent need to minimize personal trash and waste. It as well puts the possibility of burning trash on Oahu which would produce more greenhouse gases than oil and oil which increases the effects of climate change which islands like ours are at the most risk for the effects of climate change. Let's not shoot ourselves in the foot.

SB-1242-SD-1

Submitted on: 2/25/2019 1:45:27 PM

Testimony for CPH on 2/26/2019 9:00:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
Ku'ulei Neher	Individual	Oppose	No

Comments:

SB-1242-SD-1

Submitted on: 2/25/2019 3:10:27 PM

Testimony for CPH on 2/26/2019 9:00:00 AM



Submitted By	Organization	Testifier Position	Present at Hearing
kristin dong	Individual	Oppose	No

Comments:

SB-1242-SD-1

Submitted on: 2/25/2019 3:04:31 PM

Testimony for CPH on 2/26/2019 9:00:00 AM

LATE

Submitted By	Organization	Testifier Position	Present at Hearing
jaimie chhu	Individual	Oppose	No

Comments:

SB-1242-SD-1

Submitted on: 2/25/2019 2:54:45 PM

Testimony for CPH on 2/26/2019 9:00:00 AM

LATE

Submitted By	Organization	Testifier Position	Present at Hearing
Hailey Kuo	Individual	Oppose	No

Comments: