JOSH GREEN, M.D.
GOVERNOR OF HAWAI'I
KE KIA'ĀINA O KA MOKU'ĀINA 'O HAWAI'I

KENNETH S. FINK, MD, MGA, MPH
DIRECTOR OF HEALTH
KA LUNA HO'OKELE

STATE OF HAWAII
DEPARTMENT OF HEALTH
KA 'OIHANA OLAKINO
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Testimony in SUPPORT of HB0242 HD1
RELATING TO ELECTRIC VEHICLE BATTERIES

SENATOR GLENN WAKAI, CHAIR
SENATE COMMITTEE ON ENERGY AND INTERGOVERNMENTAL AFFAIRS
SENATOR MIKE GABBARD, CHAIR
SEANTE COMMITTEE ON AGRICULTURE AND ENVIRONMENT

March 11, 2025, 3:00 PM, Room Number: 016

Fiscal Implications: N/A.

Department Position: The Department of Health (Department) supports this measure and offers comments.

Department Testimony: The Environmental Management Division, Solid and Hazardous Waste Branch (EMD-SHWB) provides the following testimony on behalf of the Department.

The Department supports this measure, which establishes an electric vehicle (EV) battery recycling and reuse working group in the Hawai'i State Energy Office. The Department agrees that it is prudent to gather more information about the current options for end-of-life EV batteries and develop policy to encourage proper recycling and disposal, as this waste stream will increase in the future. The Department defers to the Hawai'i State Energy Office on any specific recommendations relating to the working group's structure, purpose, and financing and looks forward to participating as co-chair.

Offered Amendments: The department recommends replacing "2026" with "2027" on page 5 line 6 to be consistent with the change already made to the original version of the measure at page 4 line 7.

Thank you for the opportunity to testify on this measure.

UNIVERSITY OF HAWAIʻI SYSTEM
ʻŌNAEHANA KULANUI O HAWAIʻI

Legislative Testimony
Hōʻike Manaʻo I Mua O Ka ʻAhaʻōlelo

Testimony Presented Before the
Senate Committee on Energy and Intergovernmental Affairs
Senate Committee on Agriculture and Environment
Tuesday, March 11, 2025, at 3:00 p.m.

By
Richard Rocheleau, Director
Michael Cooney, Professor
Hawaiʻi Natural Energy Institute
School of Ocean and Earth Science and Technology
And
Michael Bruno, PhD
Provost
University of Hawaiʻi at Mānoa

HB 242 HD1 – RELATING TO ELECTRIC VEHICLE BATTERIES

Chairs Wakai and Gabbard, Vice Chairs Chang and Richards, and Members of the Committees:

Thank you for the opportunity to provide comments on HB 242 HD1, which directs a working group to examine how to maximize the recycling and reuse of electric vehicle batteries and recommend electric vehicle battery management practices. The Hawaiʻi Natural Energy Institute (HNEI) supports the goal of HB 242 HD1 but would like to suggest its due date be 29 days before the end of 2026 (as opposed to 29 days before the end of 2025) to allow those engaged by HB 242 HD1 to fully use information from two working groups currently working on reports intended to address end-of-life management of Lithium-ion batteries (LIB), that will be finished at the end of 2025: *HNEI's requirements study* and *HEPF's policy study*.".

HNEI's Dr. Michael Cooney is chairing the working group on the *HNEI requirements study,* which is a final consolidation of three previous reports on management of LIB waste streams, including a final report to Act 92, SLH 2021, submitted in Dec of 2022, a supplemental report posted on HNEI website on Dec 2023, and a third report recently submitted to the Hawaiʻi State Energy Office. Dr. Cooney also serves on the Battery Recycling working group of the *Hawaiʻi Energy Policy Forum policy study*.

HNEI believes the information provided by both reports will prove most useful to the goals of HB 242 HD1.

Thank you very much for the opportunity to testify on HB 242 HD1.

HAWAII STATE ENERGY OFFICE
STATE OF HAWAII

JOSH GREEN, M.D.
GOVERNOR

SYLVIA LUKE
LT. GOVERNOR

MARK B. GLICK
CHIEF ENERGY OFFICER

235 South Beretania Street, 5th Floor, Honolulu, Hawaii 96813 Telephone: (808) 451-6648
Mailing Address: P.O. Box 2359, Honolulu, Hawaii 96804 Web: energy.hawaii.gov

Testimony of
MARK B. GLICK, Chief Energy Officer

before the
SENATE COMMITTEES ON
ENERGY AND INTERGOVERNMENTAL AFFAIRS
AND
AGRICULTURE AND ENVIRONMENT

Tuesday, March 11, 2025
3:00 PM
State Capitol, Conference Room 016 and Videoconference

Providing Comments on
HB 242, HD1

RELATING TO ELECTRIC VEHICLE BATTERIES.

Chairs Wakai and Gabbard, Vice Chairs Chang and Richards, and Members of the Committees, the Hawai‘i State Energy Office (HSEO) offers comments on HB 242, HD1, which convenes a working group within the Hawai‘i State Energy Office to examine options for reuse and recycling of electric vehicle batteries.

The rapid development of the electric vehicle (EV) industry presents promising opportunities for technological innovation and sustainability. Concurrently, Hawai‘i’s geographical location as the most populated isolated island state requires adoption of pioneering waste management practices that can reliably ensure health and safety under a practical and effective regulatory framework. Specifically, Hawai‘i needs to step up to develop processes and practices that can stimulate private sector investment in local processing of lithium-ion batteries (LIBs) so the LIBs can be properly disposed of at the end of their useful life (EOL). Creating a local industry for EOL processing has the potential to create and retain good paying jobs in Hawai‘i while establishing a process for this that prioritizes safety, affordability, and sustainability. Such a proactive effort will permit Hawai‘i to avert a challenging waste problem and the associated health

and safety risks and potentially put Hawai‘i businesses in a leading opportunity to replicate and support solutions for export given the growing worldwide demand to appropriately handle and recycle the growing volume of battery waste.

HSEO has forecasted significant growth in electric vehicles given its central role in decarbonizing the ground transportation sector. The 2024 Hawai‘i Greenhouse Gas Emissions Report for 2020 and 2021 estimates that in 2021 the tailpipe emissions from ground transportation comprise 37% of all transportation emissions in Hawai‘i. In 2021, ground transportation contributed 3.53 MMT CO2e, making up 17.5% of the aggregated state gross total of 20.18 MMT CO2e emissions.[1] The Decarbonization Report prepared by HSEO pursuant to Act 238 (SLH 2022) and submitted to the Hawai‘i Legislature in December 2023 states that decarbonization of ground transportation requires a two-pronged approach: reducing the amount of energy for ground transportation and transitioning to zero-emission vehicles.[2]

HSEO agrees with the intention of convening a group of experts in technology, law, government, and industry to develop a report that can inform the management practices for EV batteries in Hawai‘i, along with the supporting required regulatory framework. HSEO acknowledges and greatly values the role and input of the Department of Health for the implementation of waste management policies and systems. To that end, HSEO suggests establishing a single working group that would consider end-of-life lithium-ion batteries at all scales, with subgroups to focus on the different battery sizes (small and medium format versus large), as these inform subtopics like collection points and packaging requirements. Since this bill title, “Relating to Electric Vehicle Batteries”, limits the scope of the working group to electric vehicle batteries, if the committee wishes to consider a holistic approach that includes a wider variety of batteries, **HB 332 HD1, Relating to Recycling** may offer the opportunity for a broader working group.

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[1] State of Hawai‘i Department of Heath (2024) Hawai‘i Greenhouse Gas Emissions Report for 2020 and 2021. Available at: https://health.hawaii.gov/cab/files/2024/05/2020-and-2021-Inventory_Final-Report_5-29-24.pdf

[2] Hawai‘i State Energy Office (2023). Hawai‘i Pathways to Decarbonization Report to the 2024 Hawai‘i State Legislature Act 238 (SLH 2022). Available at: https://energy.hawaii.gov/wpcontent/uploads/2022/10/Act238_HSEO_Decarbonization_FinalReport_2023.pdf pages 102 and 106

HSEO also acknowledges the valuable research and analysis completed by the Hawai‘i Natural Energy Institute (HNEI) to date; including the publication of three reports that provide the following: an analysis of current battery management practices and the regulatory environment; recommended approaches for battery management and processing; volume estimates; and guidance on feasible policy frameworks.[3]

Furthermore, HSEO has planned future work with the Hawai‘i Energy Policy Forum and HNEI to establish a working group focused on the requirements for managing the processing of all EOL LIBs (e.g. insurance, utilities, land, first responders, State and Federal regulations). Understanding these requirements is essential to the development of sound policy that the entire industry is likely to support and be able to execute. Collectively, these efforts would benefit from a cohesive approach that recognizes Hawai‘i’s unique environment, particularly its reliance on off-island shipping.

HSEO is dedicated to collaborating with the appropriate agencies to develop and align solutions for effective local repurposing and EOL management of LIBs to ensure safety, energy security, enhanced cost-effectiveness, and the re-use of valuable materials.

Thank you for the opportunity to testify.

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[3] Hawai‘i Natural Energy Institute (HNEI), three reports:

2022: *Final Report to Provide Recommendations on Waste Management of Clean Energy Products in Hawai‘i to the 2023 Legislature under Act 92 and HB 1333,* December 2022 (https://www.hnei.hawaii.edu/wp-content/uploads/2023-HNEI-Act92-Final-Report-Clean-Energy-Products-Waste-Management.pdf);

2023: *Policy Recommendations on Waste Management of Clean Energy Products in Hawai‘i – Supplemental Report to the Hawai‘i State Legislature in Accordance with HB1333*, December 2023 (https://www.hnei.hawaii.edu/wp-content/uploads/HNEI-Act92-Supplemental-Report-Clean-Energy-Products-Waste-Management.pdf);

2024: *Waste Management of EOL PV Panels and LIBs in Hawai‘i*, December 2024 (https://www.hnei.hawaii.edu/wp-content/uploads/Waste-Management-of-EOL-PV-Panels-and-LIBs-in-Hawaii.pdf).

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Senator Glenn Wakai, Chair
Senator Stanley Chang, Vice Chair
Committee on Energy and Intergovernmental Affairs

Senator Mike Gabbard, Chair
Senator Herbert "Tim" Richards, III, Vice Chair
Committee on Agriculture and Environment

RE: **HB 242 HD1 - Relating to Electric Vehicle Batteries – In Support**
March 11, 2025; 3:00 PM
Conference room 016 & Videoconference

Aloha Chairs Wakai and Gabbard, Vice Chairs Chang and Richards and members of the committees:

Servco appreciates this opportunity to offer testimony in support of HB 242 HD1, which establishes a working group within the Hawaii State Energy Office to examine how to maximize the recycling and reuse of electric vehicle batteries and recommend electric vehicle battery management practices.

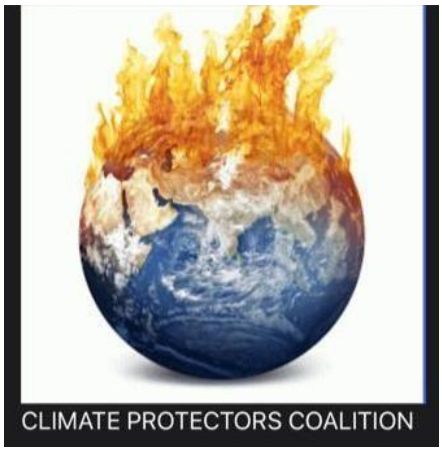
As the exclusive distributor for Lexus, Toyota, and Subaru in Hawaii, Servco has a strong presence in both sales and service aspects of the automotive industry in the state. Our experience in Japan and Australia also supports the adoption and efficient use of alternative fuel vehicles through consumer education and services.

Given the rapid adoption of EVs and the eventual end-of-life cycle of batteries, establishing a working group is appropriate. Servco would be interested in participating and sharing insights on management, regulation, and recommendations for developing a recycling and reuse framework for EV batteries.

This initiative aligns with Hawaii's efforts to address the growing need for proper EV battery management. As the number of EVs on Hawaii's roads increases, establishing clear pathways for maximizing the value of EV batteries and unlocking economic benefits through upcycling and recycling becomes critical. The working group will help Hawaii establish best practices, ensure coordination with various stakeholders, and prioritize economic viability and environmental sustainability in the EV battery lifecycle management process.

Thank you for the opportunity to provide comments in support.

Peter Dames
President & CEO



To: The Honorable Chairs Glenn Wakai and Mike Gabbard, the Honorable Vice Chairs Stanley Chang and Herbert “Tim” Richards, III, and Members of the Energy and Intergovernmental Affairs and Agriculture and Environment Committees.
From: Climate Protectors Hawai‘i (by Ted Bohlen)
Re: **Hearing HB242 HD1 RELATING TO ENERGY FINANCING**

Hearing: Tuesday March 11, 2025, 3:02 p.m., room 016

Aloha Chairs Wakai and Gabbard, Vice Chairs Chang and Richards, and Members of the Committees on Energy and Intergovernmental Affairs and Agriculture and Environment.

The mission of the Climate Protectors Hawai‘i is to educate and engage the local community in climate change action.

The Climate Protectors Hawai‘i SUPPORTS HB977 HD1!

This bill provides for a working group within the Hawai‘i State Energy Office to examine how to maximize the recycling and reuse of electric vehicle batteries and recommend electric vehicle battery management practices.

As electric vehicle usage increases, more electric vehicle batteries will enter the waste stream. Proper recycling and disposal practices are needed to ensure that electric vehicle batteries do not contribute to environmental harm. It is prudent to gather more information about the current options for end-of-life for EV batteries. Electric vehicle batteries are suitable for use as stationary energy storage systems, and they contain valuable minerals including lithium, cobalt, manganese, nickel, and aluminum. This bill would help us achieve reuse that is consistent with a more circular waste economy, which Hawai‘i needs.

Please pass this bill!

Mahalo!

Climate Protectors Hawai‘i (by Ted Bohlen)

Hawaii Electric Vehicle Association
hawaiiev.org
noel@hawaiieva.com

March 9, 2025

SUPPORT FOR HB242 HD1 (RELATING TO ELECTRIC VEHICLE BATTERIES)

Dear Chairs Wakai and Gabbard, Vice-Chairs Chang and Richards, and members of the Committees,

My name is Noel Morin. I am submitting testimony on behalf of Hawaii Electric Vehicle Association (Hawaii EV) in STRONG SUPPORT of HB242 HD1, which *Establishes a working group within the Hawai'i State Energy Office to examine how to maximize the recycling and reuse of electric vehicle batteries and recommend electric vehicle battery management practices.*

As the number of EVs on our roads continues to grow, it will be critical that we establish clear pathways to maximize the value of EV batteries and unlock economic benefits that exist in upcycling and recycling.

Batteries are valuable even after they are no longer of use in EVs – they may have 70-80% of their useful capacity. At this stage of their lifecycle, they can be repurposed as stationary batteries, which is already being done in other markets. These stationary batteries can be used to store energy in commercial and residential applications.

Of course, once fully depleted, these batteries must be recycled as they contain valuable minerals that can be repurposed to create new batteries. 'Mining' minerals already concentrated in depleted batteries is many times better economically and environmentally than virgin mineral mining.

HB242 HD1 is a critical step toward establishing an effective EV battery upcycling and recycling framework. The proposed working group will help Hawaii establish a best practice for this framework, ensure coordination with various stakeholders throughout the battery lifecycle (local and offshore), and ensure that we establish a process that prioritizes economic viability and environmental sustainability.

Hawaii EV urges the committee to pass HB242 HD1.

Thank you for the opportunity to testify.

Sincerely,

Noel Morin
President
Hawaii EV Association

Hawaii EV Association is a grassroots non-profit group representing electric vehicle owners in Hawaii. Our mission is to accelerate the electrification of transportation through consumer education, policy advocacy, and electric vehicle charging infrastructure expansion. For more information, please visit hawaiiev.org.

SIERRA CLUB OF HAWAIʻI

SENATE COMMITTEE ON ENERGY AND INTERGOVERNMENTAL AFFAIRS
SENATE COMMITTEE ON AGRICULTURE AND ENVIRONMENT

March 11, 2025 3:00 PM Conference Room 016

In SUPPORT of HB242 HD1: Relating to Electric Vehicle Batteries

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Aloha Chair Wakai, Chair Gabbard, Vice Chair Chang, Vice Chair Richards, and Members of the Committees,

On behalf of our over 20,000 members and supporters, the Sierra Club of Hawaiʻi **SUPPORTS** HB242 HD1**,** which will help to confront the growing waste stream concerns associated with lithium ion batteries used in electric vehicles.

Our islands' failure to account for our continuous production of solid waste, and the externalized costs of our consumption-based economy, have resulted in significant and ever-growing impacts to our environment, our public health, and overall quality of life. Leachates from our landfills threaten to contaminate our water resources and nearshore areas; toxic emissions and ash from Oʻahu's waste-to-energy facility have raised the risks of lung and heart disease, neurological complications, reproductive issues, and cancer in nearby, largely Native Hawaiian communities; and our limited land areas and our sensitive environments and groundwater sources severely limit the space we have available to receive and store our waste byproducts.

Unfortunately, while electric vehicles are helping to reduce our dependency on fossil fuels and further our progress towards a net negative carbon footprint by 2045, the lithium ion batteries that power them may exacerbate our solid waste conundrum. Notably, the storage, transportation, and disposition of such batteries present unique waste management challenges, particularly given the potential for fires and toxic chemical releases, the limited options for affordably off-shipping used and damaged batteries, and the lack of any proper lithium battery processing much less recycling facilities in our islands. As more and more electric vehicles are imported, these unique challenges will only increase over time.

Accordingly, the Sierra Club supports this measure's efforts to begin the process of researching and planning for the management of electric vehicle batteries entering our waste stream, including through potential battery recycling and reuse. Not only may this head off a looming hazardous waste crisis, but innovative strategies for recycling and reuse could also result in educational opportunities and economic benefits for local residents and businesses.

Accordingly, the Sierra Club of Hawaiʻi respectfully urges the Committees to **PASS** HB242 HD1. Mahalo nui for the opportunity to testify.

SENATE COMMITTEES ON ENERGY AND INTERGOVERNMENTAL AFFAIRS and AGRICULTURE AND ENVIRONMENT

MARCH 11, 2025

HB 242, HD1, RELATING TO ELECTRIC VEHICLE BATTERIES

POSITION: SUPPORT

Coalition Earth **supports** HB 242, HD1, relating to electric vehicle batteries, which establishes a working group within the Hawai'i State Energy Office to examine how to maximize the recycling and reuse of electric vehicle batteries and recommend electric vehicle battery management practices.

According to a report produced by the Hawai'i Climate Change Mitigation and Adaptation Commission, global sea levels could rise more than three feet by 2100, with more recent projections showing this occurring as early as 2060. In turn, over the next 30 to 70 years, approximately 6,500 structures and 19,800 people statewide will be exposed to chronic flooding. Additionally, an estimated $19 billion in economic loss would result from chronic flooding of land and structures located in exposure areas. Finally, approximately 38 miles of coastal roads and 550 cultural sites would be chronically flooded, on top of the 13 miles of beaches that have already been lost on Kaua'i, O'ahu, and Maui to erosion fronting shoreline armoring.

As we work to reduce carbon emissions and stave off the worst consequences of climate change, we must begin preparing for the adverse impact of sea level rise on our shores. We are now quantifying the speed at which we must act. We cannot continue to develop the 25,800-acre statewide sea level rise exposure area–one-third of which is designated for urban use–without risking massive structural damage and, potentially, great loss of life.

Just two years ago, we witnessed the impact of the climate emergency on our shores. On August 8, 2023, wildfires swept across Maui and killed at least 100 people, making it one of the nation's deadliest natural disasters. The spread of the fires has been attributed to climate change conditions, such as unusually dry landscapes and the confluence of a strong high-pressure system

to the north and Hurricane Dora to the south. The wildfires destroyed over 2,200 structures, including numerous residential buildings, historic landmarks, and school facilities. In September 2023, a report from the United States Department of Commerce estimated the total economic damage of the wildfires to be roughly $5.5 billion. Investing in renewable energy generation could not be more urgent, given the growing threat of climate catastrophes to our island home.

Therefore, **our state should take steps to accelerate our transition to a clean energy economy and continue our fight against climate change, including by strengthening policies related to electric vehicles.** A growing number of people are adopting electric vehicles in Hawai'i. As of December 2024, there were about 35,000 registered electric vehicles in the state–a 30 percent increase from prior years. As electric vehicle usage continues to quicken and EV batteries enter the local waste stream, we should prepare proper recycling and disposal practices to prevent such batteries from damaging our environment.

For recycling purposes, EV battery packs are shipped to a facility specializing in battery disassembly and reprocessing of their components. Parts like steel, copper, and aluminum scrap metal usually go into the nationwide metals-recycling stream. The plastics may not be recyclable, but they constitute a small proportion of the total contents of an EV battery pack. EV battery cells, on the other hand, include lithium, cobalt, manganese, nickel, and, to a lesser extent, aluminum. When they are ground up, the resulting stream is purified in various ways, and the end of the process is a pure supply of the desired metals.

Additionally, an EV battery pack is assumed to be at the end of its life when it has no more than 70 to 75 percent of its original capacity. Yet, hitting this mark may take 10 years or more. Even with a quarter or more of peak capacity gone, aging battery packs still offer plenty of energy storage—20-to-90 kilowatt-hours, or up to three days' worth of electricity for the average U.S. household. Many experts believe a robust "second use" industry is emerging to buy and repurpose used battery packs, extending their lives by a decade or longer.

Sincerely,

Kris Coffield

Kris Coffield, Chairperson, Board of Directors

Coalition Earth is a nongovernmental organization that works to preserve the well-being of people and our planet. We champion policies that advance climate resilience, clean energy, public health, and economic fairness for working families. Contact us at info@coalitionearth.org.

SanHi
GOVERNMENT STRATEGIES
A LIMITED LIABILITY LAW PARTNERSHIP

DATE: March 10, 2025

TO: Senator Glenn Wakai
Chair, Committee on Energy and Intergovernmental Affairs

Senator Mike Gabbard
Chair, Committee on Agriculture and Environment

FROM: Tiffany Yajima

RE: **H.B. 242, H.D. 1 – Relating to Electric Vehicle Batteries**
Hearing Date: Tuesday, March 11, 2025 at 3:00 p.m.
Conference Room: 016

Dear Chair Wakai, Chair Gabbard, and Members of the Joint Committees:

On behalf of the Alliance for Automotive Innovation ("Auto Innovators") we submit this testimony in **support** of H.B. 242, H.D.1, Relating to Electric Vehicle Batteries. The Alliance for Automotive Innovation is the singular, authoritative and respected voice of the automotive industry. Focused on creating a safe and transformative path for sustainable industry growth, the Alliance for Automotive Innovation represents the manufacturers producing nearly 99 percent of cars and light trucks sold in the U.S. Members include motor vehicle manufacturers, original equipment suppliers, technology, and other automotive-related companies and trade associations.

This measure establishes a working group to study how to maximize the recycling and reuse of electric vehicle batteries and tasks the group to make recommendations on electric vehicle battery management practices with a report to the legislature before the 2027 legislative session.

As the representative of both the makers of electric vehicles and electric vehicle batteries, Auto Innovators is willing to and interested in serving as a resource to the state on this working group. We would also suggest that the group consider current programs that exist today to manage EV battery recycling, and support amendments that give the group additional time to organize and develop comprehensive battery management best practices.

Currently, in the life cycle of a battery, when an EV battery begins to show signs of failure, these battery modules or packs can first be refurbished to as good or better quality and performance levels through the replacement of worn or

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deteriorated components which can be re-certified to OEM specifications. If a battery module or pack cannot be reused, these batteries and components can also be refurbished on the secondary market to fulfill a different use from what was originally intended. At the end of the life of a battery, EV batteries can be processed to recover the maximum amount of raw materials for reuse in similar or alternative industries.

For vehicles that have reached their end-of-life and that are unwanted without parts removed by a dismantler, Automakers have adopted a “Full Vehicle Backstop” program. The Full Vehicle Backstop program covers the whole electric vehicle and not just the battery. Under the program, the vehicle manufacturer is responsible to accept the vehicle and ensure that it is properly dismantled and the lithium-ion battery is properly reused, refurbished, or recycled.

As we continue the shift to an electric vehicle future, Auto Innovators is interested in supporting this working group to provide input on EV battery management practices.

Thank you for the opportunity to submit this testimony.

March 11, 2025

Tony Belot

91-56 Hanua Street

Kapolei, HI 96707

abelot@rdus.com

Senator Glenn Wakai, Chair
Committee on Energy & Intergovernmental Affairs

Senator Mike Gabbard, Chair
Committee on Agriculture & Environment

RE: HB 242 HD1, Relating to Electric Vehicle Batteries

Chair Wakai, Chair Gabbard, and members of the committees,

Radius Recycling (formerly Schnitzer Steel Industries), is a world leader in sustainable and environmentally responsible recycling. The Company was listed as one of TIME's 100 Most Influential Companies of 2023, recognized as the Most Sustainable Company in the World by Corporate Knights in 2025, and has been honored by Ethisphere as one of the World's Most Ethical Companies® for ten consecutive years.

HB 242 HD1 recognizes the need for Hawai'i to maximize the recycling and reuse of electric vehicle batteries and establishes a working group to recommend electric vehicle battery management practices. An important goal for the state is to preserve our local environment while concurrently optimally utilizing resources through recycling.

As our organization routinely encounters these batteries in our recycling stream, we strongly support the inclusion of at least one or more representatives from the automotive recycling industry. Such a representative will, we believe, contribute a significant and valuable viewpoint, grounded in practical experience, concerning the safe, environmentally responsible, and efficient handling of end-of-life electric vehicles.

Radius Recycling is deeply appreciative of the intent of this measure to assure that there is proper recycling and disposal of EV batteries. We look forward to serving as a resource to policymakers on EV recycling.

Sincerely,

Tony Belot, Government and Public Affairs Manager, Radius Recycling

HB-242-HD-1
Submitted on: 3/7/2025 6:53:59 PM
Testimony for EIG on 3/11/2025 3:00:00 PM

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

Comments:

HB242 is a measure that should have been passed at least ten years ago. EV batteries are already dying in Hawaii with, in many cases, no reasonable disposal options available to the vehicle owners. HB242 could be much improved by amending it to provide funding for staff for the working group. Please pass HB242.

HB-242-HD-1
Submitted on: 3/7/2025 9:31:58 PM
Testimony for EIG on 3/11/2025 3:00:00 PM

Submitted By	Organization	Testifier Position	Testify
Lois Crozer	Individual	Support	Written Testimony Only

Comments:

Especially being on an island, we need to think about our wastestream. We can't be dumping them in Waimanalo.

HB-242-HD-1
Submitted on: 3/9/2025 5:39:17 PM
Testimony for EIG on 3/11/2025 3:00:00 PM

Submitted By	Organization	Testifier Position	Testify
chris c.	Individual	Comments	Written Testimony Only

Comments:

Where are the neighbor island Counties' environmental management representatives on the working group?

The manufacturers and buyers of EVs should be responsible for the disposal of EV batteries. Stop externalizing costs.

HB-242-HD-1
Submitted on: 3/10/2025 1:20:34 PM
Testimony for EIG on 3/11/2025 3:00:00 PM

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

Comments:

Support for HB242

Chair Wakai, Chair Gabbard, and members of the Committee On Energy And Intergovernmental Affairs and the Committee On Agriculture And Environment,

Those who may have a vested interest in opposing Hawaii's adoption of electric vehicles will sometimes raise concerns about the environmental cost of EV batteries and the supposed lack of recycling or re-purposing.

HB242 establishes a working group to research and address these concerns in constructive ways.

The supply stream of used EV batteries that need to be replaced is relative new, and yet other jurisdictions are already working to convert these still useful batteries to stationary storage for home and utility battery storage.

Further, the national and international growth of battery production and standardization among battery manufacturers will allow for recycling of valuable minerals into new batteries. Please see a recent report on battery production increases and cost decreases from the **International Energy Agency**

I urge your support for HB242.

Thank you, Ron Reilly, Volcano Village, 96785

HB-242-HD-1
Submitted on: 3/10/2025 2:25:48 PM
Testimony for EIG on 3/11/2025 3:00:00 PM

Submitted By	Organization	Testifier Position	Testify
Paul Bernstein	Individual	Support	Written Testimony Only

Comments:

Aloha Chair Wakai, Chair Gabbard, and Members of the AEN and EIG Committees:

I'm writing in **support** of HB242 for the following reason:

- After EV batteries are no longer suitable for use in an EV, they have much useful life to offer utilities for storage, which we desperately need as we move to more and more intermittent resources. These batteries are being repurposed as stationary storage and, when completely depleted, recycled into new batteries.
- EV batteries contain valuable minerals and have material economic value.
- Establishing clear pathways to ensure efficient upcycling and recycling will help Hawaii leverage these opportunities.

Mahalo,

Paul Bernstein

HB-242-HD-1
Submitted on: 3/10/2025 2:29:28 PM
Testimony for EIG on 3/11/2025 3:00:00 PM

Submitted By	Organization	Testifier Position	Testify
Barbara Best	Individual	Support	Written Testimony Only

Comments:

We can't have too many actions to promote environmental issues.

Mahalo,

Barbara Best

LATE

Date: March 11, 2025
Time: 3:00PM
Place: VIA VIDEOCONFERENCE and Conference Room 016
Bill: HB242 HD1 Relating to Electric Vehicle Batteries

Aloha Chairs Wakai & Gabbard, Vice Chairs Chang & Richards, and members of the committees,

On behalf of the Hawai‘i Automobile Dealers Association (HADA), we are writing to **support** HB242 HD1, Relating to Electric Vehicle Batteries. This bill establishes a working group within the Hawaii State Energy Office to examine how to maximize the recycling and reuse of electric vehicle batteries and recommend electric vehicle battery management practices.

HADA's membership includes small and locally-owned businesses, many of which are operated by the family members of their founders. These business leaders are the fabric of life in Hawai‘i, directly employing thousands of workers, indirectly employing tens of thousands, and providing vehicle transportation to consumers across the islands.

The Hawaii Automobile Dealers Association (HADA) supports this bill because it promotes responsible recycling and reuse of electric vehicle (EV) batteries, addressing environmental concerns associated with the growing number of EVs in Hawaii. By establishing best management practices and encouraging coordinated efforts across industries, the bill helps ensure sustainable business practices, which align with the association's commitment to responsible automotive industry standards.

We thank you for the opportunity to testify.

The Hawai‘i Automobile Dealers Association is the voice of more than 60 new car dealerships across the islands, accounting for over 4,000 direct jobs, $6 billion total sales and more than $250 million in general excise taxes paid.

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C. Kimo Alameda, Ph.D.
Mayor

William V. Brilhante, Jr.
Managing Director

Wesley R. Segawa
Director

Craig Kawaguchi
Deputy Director

County of Hawai'i

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

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March 11, 2025

LATE

COMMITTEE ON ENERGY AND INTERGOVERNMENTAL AFFAIRS
Sen. Glenn Wakai, Chair
Sen. Stanley Chang, Vice Chair
COMMITTEE ON AGRICULTURE AND ENVIRONMENT
Sen. Mike Gabbard, Chair
Sen. Herbert M. "Tim" Richards III, Vice Chair
Hawai'i State Capitol
Honolulu, HI 96813

Re: Testimony in Support of House Bill (HB) 242 HD1 Relating to Electric Vehicle Batteries, which establishes the Hawai'i State Energy Office's Electric Vehicle Battery Recycling and Reuse Working Group.

Dear Chair Wakai, Chair Gabbard, and Committee Members,

The County of Hawai'i Department of Environmental Management is pleased to submit testimony **in support of House Bill 242 HD1 with comments**, which will establish a Hawai'i State Energy Office Electric Vehicle Battery Recycling & Reuse working group to examine EV battery management practices.

As a result of the increased popularity of electric and hybrid vehicles a plan (e.g., Extended Producer Responsibility system) for the reuse, recycling or disposal of vehicle propulsion batteries is long overdue. The County of Hawai'i does not have the resources to manage this emerging waste stream and believes that producers should not externalize their disposal costs, and producers have the expertise and incentive to reuse or recycle their batteries in an environmentally sound manner.

The County offers the following comments on the bill to improve clarity and improve representation. Hybrid vehicles with batteries should also be included in the bill. A representative from each County's environmental management department should be included in the working group.

Thank you for your consideration.

Best Regards,

Craig Kawaguchi
DEPUTY DIRECTOR

cc: Mayor Kimo Alameda

Gene Quiamas, Acting Hawai'i County Solid Waste Division Chief
Tanya Buckley, Acting Hawai'i County Recycling Coordinator