



STATE OF HAWAII
HAWAII CLIMATE CHANGE MITIGATION & ADAPTATION
COMMISSION
POST OFFICE BOX 621
HONOLULU, HAWAII 96809

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Director, OPSD

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The Adjutant General
Manager, CZM

**Testimony of
Leah Laramee
Coordinator, Hawai'i Climate Change Mitigation and Adaptation Commission**

**Before the House Committee on
ENERGY AND ENVIRONMENTAL PROTECTION**

**Tuesday January 30, 2024
9:00 AM**

State Capitol, Via Videoconference, Conference Room 325

**In support of
House Bill 2100
RELATING TO ELECTRIC VEHICLES**

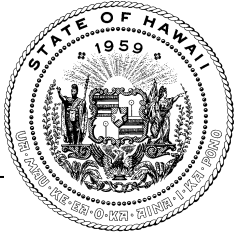
House Bill 2100 provides rebates for eligible electric vehicle-ready parking stalls for new construction of affordable housing. **The Hawai'i Climate Change Mitigation and Adaptation Commission (Commission) supports this measure.**

Emissions from ground transportation account for over half of energy emissions as noted in the 2019 Greenhouse Gas Inventory. Reducing emissions from ground transportation is one of the major focuses of the Commission, and a transition to clean renewable fueled vehicles is a crucial strategy to achieve State goals. The electrification of transportation, the use of clean renewable fuels, and a rebate program could be critical in promoting this transition to clean transportation. For significant reductions to be made, all market segments in Hawai'i need to be addressed, including low- to moderate-income households.

In its November 2018 statement supporting a price on carbon, the Commission emphasized that carbon fee program mechanisms should minimize regressivity. This bill addresses the Commission's position by empowering low- to moderate-income households who generally have a significantly lower adoption rate of electric vehicles (EVs) as a percentage of total vehicles in that neighborhood.

For Hawai'i to achieve its goal of a net-negative carbon economy as soon as practicable but no later than 2045, it is essential that everyone is afforded the opportunity to participate in the net-negative carbon economy from an equity, economic, and technical perspective.

Mahalo for the opportunity to testify in support of this measure.



HAWAII STATE ENERGY OFFICE STATE OF HAWAII

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Testimony of
MARK B. GLICK, Chief Energy Officer

before the
HOUSE COMMITTEE ON ENERGY & ENVIRONMENTAL PROTECTION

Tuesday, January 30, 2024
9:00 AM
State Capitol, Conference Room 325 and Videoconference

In SUPPORT of
HB 2100

RELATING TO ENERGY.

Chair Lowen, Vice Chair Cochran, and members of the Committee, the Hawai'i State Energy Office (HSEO) offers testimony in support on HB 2100 which provides rebates for eligible electric vehicle-ready parking stalls for new construction of affordable housing.

Hawai'i will need significant emissions reductions from ground transportation by 2030 to set a viable trajectory towards a net negative carbon economy by 2045. HSEO's *Hawai'i Pathways to Decarbonization* report, submitted to the Hawai'i State Legislature in December of 2023 pursuant to Act 238 (2022), highlights a transition to Zero Emission Vehicles as one of the two major facets to reducing emissions in ground transportation. This reducing the amount of energy needed for ground transportation through bicycles and other modes of transportation that reduce vehicle miles traveled¹.

Expanding the EV market and Hawai'i currently has 35 registered EVs per public charger². It is evident that there is a significant gap in what is reasonably estimated in public charging to support current adoption rates, notwithstanding the applicability of the California Energy Commission's estimate to Hawai'i. That gap, in combination with the

¹ Page 104, 1. Reducing the amount of energy needed for ground transportation.

² From Alliance for Automotive Innovation "Get Connected Electric Vehicle Quarterly Report, Second Quarter, 2023"

assumption that 90% of PEVs have reliable access to overnight charging in 2030, supports the need for greater access for all customers to charging at home.

Achievement of state goals will require all vehicle owners to participate. All three mitigation scenarios in HSEO's *Hawai'i Pathways to Decarbonization* assume Hawai'i will have 100% zero-emission light-duty vehicle sales by 2035. HSEO estimates that 21% of registered light-duty passenger vehicles would need to be zero emission vehicles by 2030 to achieve state emission reduction goals. Promoting such a transition to battery electric vehicles requires reliable charging at home based on NREL's report and current market conditions in Hawai'i. Hawai'i needs to expand access to at home EV charging beyond the early adopters in single family unit dwellings. Hawai'i must also do all it can to ensure low- and moderate-income communities have ample access to EV charging.

HSEO Supports HB 2100 as long as its passage does not replace or adversely impact priorities indicated in the Executive Budget.

Thank you for the opportunity to testify.

TESTIMONY OF
LEODOLOFF R. ASUNCION, JR.
CHAIR, PUBLIC UTILITIES COMMISSION
STATE OF HAWAII

TO THE
HOUSE COMMITTEE ON ENERGY AND ENVIRONMENTAL PROTECTION

January 30, 2024
9:00 a.m.

Chair Lowen, Vice Chair Cochran, and Members of the Committee:

MEASURE: H.B. No. 2100
TITLE: RELATING TO ENERGY.

DESCRIPTION: Provides rebates for eligible electric vehicle-ready parking stalls for new construction of affordable housing.

POSITION:

The Public Utilities Commission (“Commission”) offers the following comments for consideration.

COMMENTS:

The Commission appreciates the intent of this measure to support low-income customers by providing ready access to charging infrastructure at affordable housing units at lower cost, particularly given the finding that constructing electric vehicle ready parking stalls at the time of constructing is approximately one-tenth the cost of retrofitting already-built parking stalls.

The Commission currently manages the Electric Vehicle Charging System (“EVCS”) Rebate Program in consultation with electric vehicle stakeholders and with administrative support from Hawaii Energy. The program directly supports the state’s decarbonization goals and continues to provide benefits to Hawaii’s residents. This measure would be a meaningful addition to the program. During the 2023 Legislative Session, the Legislature increased the Commission’s budget ceiling for the fiscal biennium 2023-2025 in order to expend funds for the EVCS program. In service of long-term administrative efficiency of

this beneficial EVCS program, the Commission notes the need to establish a permanent spending authority to expend the funds that are automatically collected in the sub-account for this program.

Equity is a high priority for the Commission, and we support the provisions of this measure to increase charging access for low-income communities. The Commission has worked with electric vehicle stakeholders to begin identifying communities that are underserved by electric vehicle charging infrastructure and will further explore equity measures related to transportation electrification in Docket No. 2022-0250, which is investigating equity holistically across Commission functions. We also note that Hawaii Energy has partnered with Ulupono Initiative to offer a bonus rebate for the installation of Level 2 EVCS at affordable housing projects on Kauai. The Commission supports the language of the measure that allows entities to simultaneously claim a rebate for a charging system as well as for an electric vehicle ready parking stall. This will help to ensure that electric vehicle ready stalls are actually furnished with charging systems.

The Commission notes that H.B. 2616 also proposes a new EV funding program that could cover EV ready parking stall infrastructure and prioritizes underserved communities. However, H.B. 2616 does not specifically carve out or propose rebates for affordable housing, which is an important priority.

Thank you for the opportunity to testify on this measure.

HB-2100

Submitted on: 1/27/2024 11:02:30 AM

Testimony for EEP on 1/30/2024 9:00:00 AM

Submitted By	Organization	Testifier Position	Testify
Keala Dickhens	Blue Planet Foundation	Support	Written Testimony Only

Comments:

Aloha Chair Lowen, Vice Chair Cochran, and members of the Committee,

I am testifying in support of HB 2100, which provides incentives for new affordable housing developments that are built to be electric vehicle charger-ready.

Accessibility to EV charging remains a significant barrier to the wider adoption of electric vehicles in Hawai‘i. This barrier is even greater for working families who plan to live in affordable housing developments, and rely on public charging for their transportation needs.

Installing “EV charger-ready” infrastructure is much cheaper during construction compared to expensive retrofits, and we can make electric vehicles more accessible to our working families and local residents.

Electric vehicles are the fastest growing segment of new cars and play a critical role in Hawai‘i’s clean energy future.

Please pass HB 2100.

Thank you for considering my testimony.

Keala Dickhens

Honolulu, HI 96816



Aloha committee members,

My name is Arwen Revere and I'm a high school student from Kailua and a member of the environmental organization Wild Kids, whom I am representing today. Wild Kids is in strong support of HB2100, a crucial initiative aimed at making new affordable housing projects "EV-charger ready" and thereby increasing access to electric vehicles (EVs). As residents of Hawai'i deeply concerned about our state's carbon footprint and accessibility to clean energy solutions, Wild Kids believe that this bill represents a significant step toward a more sustainable and equitable future.

While the state has made commendable progress in decarbonizing the electricity sector, ground transportation remains a major contributor to carbon emissions in Hawai'i, posing a significant challenge to our climate change mitigation efforts. House Bill 2100 addresses this issue by focusing on two critical fronts: affordable housing and electric vehicle infrastructure.

Affordable housing is an urgent need in our state, and ensuring that these developments are "EV-charger ready" is a strategic move to align housing projects with our clean energy goals. The provision of rebates for new affordable housing developments to install the necessary power capacity and wiring for EV charging stations is a forward-thinking approach. This not only helps residents save money for future EV charger installations but also removes barriers to EV adoption, making electric vehicles more accessible to a broader segment of our population.

As we strive to create a cleaner and more sustainable transportation system, initiatives like HB 2100 are essential in addressing the urgent challenge of reducing carbon emissions from ground transportation. By facilitating the integration of EV infrastructure into affordable housing projects, we contribute to environmental preservation and promote social equity by ensuring that all residents can participate in our clean energy future.

Thank you for your time and commitment to the betterment of Hawai'i.

Sincerely,

Arwen Revere, on behalf of Wild Kids

HB-2100

Submitted on: 1/27/2024 4:39:46 PM

Testimony for EEP on 1/30/2024 9:00:00 AM

Submitted By	Organization	Testifier Position	Testify
Christopher Dean	Clean the Pacific, Recycle Hawaii	Support	Remotely Via Zoom

Comments:

I support HB2100 as one part of a comprehensive action plan to rapidly transition to a solar/EV economy. All bills that advance the transition to a sustainable future need to be fast tracked. We're out of time, in fact, it's most likely already too late. This bill will help make lower income people able to participate in this transition and regrettably, lower income people make up the majority of citizens and we need them to be driving EVs.

HB-2100

Submitted on: 1/28/2024 1:47:38 PM

Testimony for EEP on 1/30/2024 9:00:00 AM

Submitted By	Organization	Testifier Position	Testify
robert brower	Surfrider Foundation Kauai chapter	Support	Written Testimony Only

Comments:

strong support



Email: communications@ulupono.com

HOUSE COMMITTEE ON ENERGY & ENVIRONMENTAL PROTECTION
Tuesday, January 30, 2024 — 9:00 a.m.

Ulupono Initiative supports HB 2100, Relating to Energy.

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, clean transportation choices, and better management of freshwater resources.

Ulupono supports HB 2100, which provides rebates for eligible electric vehicle-ready parking stalls for new construction of affordable housing.

Ulupono supports Hawai'i's reduction of fossil fuel use as we strive to meet the State's 100% renewable energy goal and its carbon net neutral goal by 2045. The EVCS Rebate Program has been a critical catalyst to infrastructure development within the State.

Just last month in December 2023, the Hawai'i State Energy Office specifically recommended that we needed to “[p]ursue incentives for and streamline permitting for public EV charging infrastructure[,]” to meet our climate goals and exceed the current projected reductions of 54%.¹

Ulupono is very supportive of policies and programs that can accelerate the state's transition to greater electric vehicle (EV) adoption, especially ones that increase access to EV charging for low- to moderate-income households. The lack of access to charging is one of the top barriers to EV adoption.² This clearly plays out here since 80% of Hawai'i EV drivers predominantly charge at home.³ However, more than 40% of Hawai'i residents live in multi-family unit housing and likely lack convenient home charging options.⁴

Significant impact has been made from the current EVCS Rebate Program with more than \$1.3 million expended so far to help install almost 300 charging stations, including those at

¹ https://energy.hawaii.gov/wp-content/uploads/2024/01/Act-238_HSEO_Decarbonization_Report.pdf

² <https://www.osti.gov/biblio/1854730>

³ ³ <https://www.ulupono.com/media/xj4cayeh/the-extra-mile-why-electric-vehicles-make-sense-for-hawaii-economy-environment-and-communities.pdf>

⁴ <https://dbedt.hawaii.gov/hhfdc/files/2017/03/Inventory-Report-2016.pdf>

affordable housing developments.⁵ Continued support is still needed as we increase our dependence of charging infrastructure to transition the economy away from fossil fuel-based mobility. We are supportive of the on-going attempt to serve low- and moderate-income communities more effectively, which helps to ensure that all community members stand to benefit from access to EVs.

As Hawai'i's energy issues become increasingly complex and challenging, we appreciate this committee's efforts to look at policies that support the continued implementation of renewable energy resources throughout the islands.

Thank you for the opportunity to testify.

Respectfully,

Micah Munekata
Director of Government Affairs

⁵ <https://hawaiienergy.com/for-business/rebates-for-business/electric-vehicle-charging-stations/>



HOUSE COMMITTEE ON ENERGY AND ENVIRONMENTAL PROTECTION

January 30, 2024, 9:00 AM

Room 325

TESTIMONY IN SUPPORT OF HB 2100

Aloha Chair Lowen, Vice Chair Cochran, and Committee members:

Blue Planet Foundation **supports HB 2100**, which establishes rebates for new affordable housing to construct parking lots that are "EV charger-ready." This bill would help save money for residents on future EV charger installation, reduce the barriers to EV adoption, and address the urgent challenge of reducing carbon emissions from ground transportation.

Electric vehicles are shaping the future of transportation

Electric vehicles are the fastest growing segment of new cars in Hawai'i. In 2023, the number of registered electric vehicles in Hawai'i increased more than 31%, compared to only a 1.5% increase in registered gasoline-powered vehicles.¹ There are currently over 29,000 electric vehicles registered in the state, a number that is expected to rise exponentially as more electric vehicles come to market, vehicle ranges increase, and the cost of electric vehicles decreases.

Battery costs have fallen precipitously over the past several years so that in many cases, the total cost of ownership for EVs is lower than for gasoline-powered vehicles. Recent studies predict electric vehicles could hit price parity with fossil-fuel powered cars in 2024² and account for two thirds of global car sales by 2030.³ Experts expect battery prices to continue to fall and automakers are increasing the number of models and volume of EVs in the next few years.

In part due to falling costs and increasing consumer demand, and in part due to government policies encouraging the transition towards EVs, nearly all of the world's leading automakers have announced aggressive strategies and investments in electric and plug-in hybrid vehicles

¹ "Monthly Energy Trends", *DBEDT*, December 2023 (https://dbedt.hawaii.gov/economic/files/2024/01/Energy_Trend.pdf/).

² Slowik, Peter, et. al. "Assessment of Light-duty Electric Vehicle Costs and Consumer Benefits in the United States in the 2022-2035 Time Frame." *The International Council on Clean Transportation*. October 2022. (<https://theicct.org/publication/ev-cost-benefits-2035-oct22/>).

³ Carey, Nick. "As prices fall, two thirds of global car sales could be EVs by 2030, study says." *Reuters*. September 4, 2023. (<https://www.reuters.com/technology/prices-fall-two-thirds-global-car-sales-could-be-evs-by-2030-study-2023-09-14/>)

over the past two years.⁴ **This bill helps to prepare Hawai'i for the future demand for electric vehicles in our state.**

The lack of EV charging is a barrier to adoption and an equity issue

The International Energy Agency found that “the availability of chargers emerged as one of the key factors for contributing to the market penetration of EVs.”⁵ Unlike gasoline car owners, 80% of EV drivers charge their cars at home or at work.⁶ Residents in multi-unit dwellings or condos, however, are often unable to find a place to charge, preventing them from receiving the benefits of EVs. This is a fundamental equity issue in Hawai'i: a large segment of residents in Hawai'i live in multi-family housing, in part because single-family homes are financially out of reach for many. **This bill reduces barriers to EV adoption and addresses social inequities. By providing incentives for new affordable housing to be made EV charger ready, we support low- and moderate-income residents who couldn't otherwise afford to install EV chargers at their homes.**

Installing EV-ready wiring is cheaper pre-construction

The most challenging aspect of EV charger installation is the common lack of electrical capacity and distributed subpanels to support broad deployment of charging infrastructure. Studies have shown that installing EV infrastructure at the time of construction can be 91% less expensive than post-construction retrofits, and that per stall installation costs can be reduced through economies of scale, by deploying more stations at time of construction.⁷ Requiring that the power capacity and conduit be set up during construction would dramatically reduce retrofit costs at the time of installation, creating significant cost savings for affordable-housing renters and homeowners.

By choosing not to plan for EV charging infrastructure in new housing construction, low and moderate-income residents would be forced to pay expensive retrofit costs to upgrade power capacity later when ground transportation has shifted to electric vehicles—a transition that is already well underway. **This bill is about future proofing our new affordable housing and encouraging developers to be proactive in installing the power capacity and wiring needed for future EV charging infrastructure.**

Expanding EV charging infrastructure benefits all electricity users

⁴ Motavalli, Jim. “Every Automaker’s EV Plans Through 2035 and Beyond.” *Forbes*, October 2021. (<https://www.forbes.com/wheels/news/automaker-ev-plans/>).

⁵ *Global EV Outlook 2017*, International Energy Agency, June 2017, <https://www.iea.org/reports/global-ev-outlook-2017>.

⁶ *Ibid.*

⁷ See <http://evchargingpros.com/wp-content/uploads/2017/04/City-of-SF-PEV-Infrastructure-Cost-Effectiveness-Report-2016.pdf>.

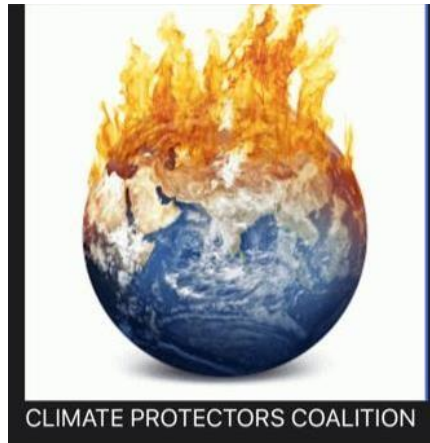
Expanding access to EV charging is critical to unlock benefits for all electricity users, not just for EV drivers. **Enabling EV charging during the middle of the day allows more low-cost solar to be added to the grid and helps the overall energy system.** When large numbers of EVs—which are essentially batteries on wheels—are connected to the electricity grid simultaneously, they could be used to help manage the system through demand response, load shifting, and other grid services.

Conclusion

Recognizing that automakers are rapidly moving towards electric vehicles, and that a lack of charging infrastructure remains a barrier to more widespread EV adoption, HB 2100 is an opportunity to incentivize the installation of EV-ready charging infrastructure in new affordable housing construction. In doing so, we can prepare residents for the future of transportation, address equity issues for low- and moderate-income residents, and reduce unnecessary financial costs to working families and local residents— all while tackling the urgent challenge of reducing carbon emissions from ground transportation in Hawai'i.

For these reasons, Blue Planet is in strong support of HB 2100.

Thank you for the opportunity to provide testimony.



To: The Honorable Representative Nicole Lowen, Chair, the Honorable Elle Cochran, Vice Chair, and Members of the Committee on Energy and Environmental Protection.

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

Re: Hearing **HB2100 RELATING TO ENERGY**

Hearing: Tuesday January 30, 2024 9:00 a.m.

Aloha Chair Lowen, Vice Chair Cochran, and Energy and Environmental Protection Committee Members:

The mission of the Climate Protectors Hawai'i is to educate and engage the local community in climate change action, to help Hawai'i show the world the way back to a safe and stable climate.

The Climate Protectors Hawai'i STRONGLY SUPPORTS HB2100!

Hawai'i has an excellent opportunity to save money in affordable housing and meet its carbon negative target (as soon as practicable but not later than 2045).

This bill would help fund installation of electric vehicle charging at new construction of affordable housing by providing rebates for eligible electric vehicle-ready parking stalls. This would benefit both affordable housing and Hawai'i's environment.

Please pass this bill.

Mahalo!

Climate Protectors Hawai'i (by Ted Bohlen)



To: The House Committee on Energy and Environmental Protection
From: Sherry Pollack, 350Hawaii.org
Date: Tuesday, January 30, 2024, 9am

In strong support of HB2100

Aloha Chair Lowen, Vice Chair Cochran, 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 HB2100** that provides rebates for eligible electric vehicle ready parking stalls for new construction of affordable housing.

Parking stalls for affordable housing units are not constructed to be electric vehicle ready because of the added cost and because affordable housing is exempted from electric vehicle ready county requirements. But for Hawaii to achieve its sustainable transportation and climate goals, we must electrify ground transportation on our islands as soon as possible. **And in a just transition, no one is left behind.**

Access to vehicle charging infrastructure presents a barrier and an equity issue for low-income families who are unable to access the savings and other benefits associated with electric vehicle ownership because they lack access to charging infrastructure. Clearly, adequate vehicle charging infrastructure is a MUST for the democratization of transportation. To adopt electric cars, everyone must have access to charging. Providing incentives for electric vehicle ready new construction for affordable housing, as in HB2100, is an effective step to address this important equity issue.

Mahalo for the opportunity to testify.

Sherry Pollack
Co-Founder, 350Hawaii.org



TESTIMONY FROM THE DEMOCRATIC PARTY OF HAWAII
HOUSE COMMITTEE ON ENERGY AND ENVIRONMENTAL PROTECTION

JANUARY 30, 2024

HB 2100, RELATING TO ENERGY

POSITION: SUPPORT

The Democratic Party of Hawai'i **supports** HB 2100, relating to energy. Pursuant to the “Transportation” section of the official Democratic Party of Hawai'i platform, the party endorses “efforts to promote less reliance on imported fossil fuel and to support energy-efficient methods of transportation” and supports “tax incentives that encourage renewable energy initiatives” regarding transportation.

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, such as seawalls.

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.

Last year, 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-induced 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 increasing access to electric vehicles and EV-ready charging stations.** A growing number of people are adopting electric vehicles in Hawai'i. As of March 2022, there were about 19,000 registered electric vehicles in the state—a 35 percent increase from the prior year—and 24,000 hybrid vehicles. Yet, a lack of sufficient charging infrastructure presents a persistent impediment to expansion, especially for renters or and residents who live in apartment buildings.

We note that according to the National Low-Income Housing Coalition's *Out of Reach 2023* report, there are 38,820 renter households earning below 30 percent of area median income (21 percent of renter households) in the islands and 67,519 renter households earning below (36 percent of renter households) earning below 50 percent of area median income. As this measure's preamble states, this barrier creates an equity issue for low-income families who are unable to access the savings associated with electric vehicle ownership because they lack access to charging infrastructure and financial security.

Mahalo nui loa,

Kris Coffield
Co-Chair, Legislative Committee
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Abby Simmons
Co-Chair, Legislative Committee
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**Hawaiian
Electric**

**TESTIMONY BEFORE THE
HOUSE COMMITTEE ON ENERGY & ENVIRONMENTAL PROTECTION**

**HB 2100
RELATING TO ENERGY**

January 30, 2024

9:00AM AGENDA #11

Conference Room 325

Terea Macomber

Policy Strategy & Community Program

Electrification of Transportation

Hawaiian Electric

Aloha Chair Lowen, Vice Chair Cochran, and Members of the Committee:

My name is Terea Macomber and I am testifying on behalf of Hawaiian Electric in support of HB 2100, which provides rebates for eligible electric vehicle-ready parking stalls for new construction of affordable housing. The EV charging infrastructure rebate program administered by Hawaii Energy has successfully provided supplemental funding for EV charging infrastructure across the state. Expanding the rebate program to include the eligibility of EV-ready projects for new affordable housing will increase the program's effectiveness, provide resources to developers, and offer equitable transportation options for Hawaii's underserved communities.

Hawaiian Electric supports the expansion of this rebate program as it will reduce the cost burden for affordable housing developers to include charging infrastructure in their parking plans. Installing EV charging capability during the initial construction of a building mitigates and avoids the increased cost of retrofitting. This rebate will be another

integral part of accomplishing the 2030 goal of reducing carbon emissions by 50% of 2005 levels. The 2024 Report to the Hawaii State Legislature, Hawaii Pathways to Decarbonization forecasts mitigation scenarios where all light duty vehicles sales are for zero emission vehicles by 2035. Providing an EV-ready rebate for affordable housing developers will reduce their cost burden to include EV charging that is accessible for residents. The expansion of this rebate program will align with the State's goals by providing at-home charging for low to moderate income residents now and destigmatize the narrative that these residents do not drive electric vehicles. Hawaiian Electric supports this bill. Thank you for the opportunity to testify in support of HB 2100.



Before the House Committee on Energy & Environmental Protection
Tuesday, January 30, 2024 at 9:00 a.m.

Testimony in Support of HB2100: Relating to Energy

Chair Lowen, Vice Chair Cochran, and Members of the Committee:

Thank you for the opportunity to testify in support and provide comments on House Bill 2100.

Hawai'i Energy works to empower island families and businesses on behalf of the Hawai'i Public Utilities Commission (PUC) to make smart energy choices to reduce energy consumption, save money, and pursue a 100% clean energy future. Energy efficiency – the energy we do not use – is the cheapest option to help us achieve our 100% clean energy goal by eliminating waste and being more efficient.

Hawai'i Energy applauds the legislature's efforts to support the continued impact of electrical vehicle charging station (EVCS) infrastructure on Hawai'i's residents and businesses as an integral component of the State's Clean Energy Initiative, which calls for Hawai'i to achieve 100% clean energy by 2045.

Hawai'i Energy administers the state-funded EVCS Incentive Program on behalf of the Public Utilities Commission, which was established through Act 75 (2021) and Act 202 (2022) by the Hawai'i State Legislature. We are proud to already be emphasizing EVCS installations for our underserved communities via a bonus incentive for affordable housing developments for AC Level 2 single- and multi-port EV charging stations with network connectivity. The bonus incentive, which is in addition to the state-funded rebate, is \$5,000 per station for existing affordable housing developments, and \$1,500 per station for new affordable housing developments.

House Bill 2100 expands the state-funded EVCS Incentive Program to offer rebates to new affordable housing developments to install the power-capacity and wiring necessary to make parking lots "electric vehicle ready." Giving rebates to affordable housing developments that are built as "electric vehicle ready" will only further accelerate our important momentum toward making electric vehicles more affordable to our local families. That, in turn, will only further accelerate Hawai'i's overall pursuit of a 100% clean energy future.

Thank you for the opportunity to testify in support of House Bill 2100.

Sincerely,
Caroline Carl
Executive Director
Hawai'i Energy

HB-2100

Submitted on: 1/29/2024 8:54:27 AM

Testimony for EEP on 1/30/2024 9:00:00 AM

Submitted By	Organization	Testifier Position	Testify
Dave Mulinix	Greenpeace Hawaii	Support	Written Testimony Only

Comments:

Aloha Chair, CoChair & Committee Members,

Greenpeace Hawaii stands in Strong Support of HB2100.

To get off of planet killing fossil fuels we have to transition to electric vehicles as quickly as possible, but unfortunately there is not enough electric vehicle charging stations to meet the needs for the transition.

Here are a few key points in support of this proposal:

- HB2100 would provide incentives for electric vehicle ready new construction for affordable housing. Access to vehicle charging infrastructure presents a barrier and an equity issue for low-income families who are unable to access the savings and other benefits associated with electric vehicle ownership because they lack access to charging infrastructure. As we transition away from gas vehicles, we need to take close account of our LMI/ALICE communities. They have economic concerns that must be accounted for as we decarbonize our transportation sector.
- For Hawaii to achieve its sustainable transportation and climate goals, we must electrify ground transportation on our islands as soon as possible. To adopt electric cars, everyone must have access to charging. And in a just transition, no one is left behind.

Mahalo Nui Loa for hearing this important bill, and please pass HB2100.

Dave Mulinix, CoFounder, Greenpeace Hawaii



January 30, 2024

Representative Nicole Lowen, Chair
Representative Elle Cochran, Vice Chair
Committee on Energy & Environmental Protection

RE: **HB 2100 HD1 – RELATING TO ENERGY**
Hearing date – January 30, 2024 at 9:00 AM

Aloha Chair Lowen, Vice Chair Cochran and members of the committee,

Thank you for allowing NAIOP Hawaii to submit testimony in **SUPPORT OF HB 2100 HD1 – RELATING TO ENERGY**. NAIOP Hawaii is the Hawaii chapter of the nation's leading organization for office, industrial, retail, residential and mixed-use real estate. NAIOP Hawaii has over 200 members in the State including local developers, owners, investors, asset managers, lenders, and other professionals. NAIOP Hawaii is generally supportive of efforts to incentivize sustainability.

HB 2100 HD1 provide rebates for eligible electric vehicle ready parking stalls for new construction of affordable housing starting in 2024. Further, the measure prioritizes administration for the rebate program to include affordable housing units.

NAIOP Hawaii supports the legislature's intent to incentivize the installation of EV charging stations in affordable housing projects. Currently, Hawaii is experiencing higher construction costs due to inflation and interest rates have significantly risen in the past year making affordable housing projects nearly infeasible.

NAIOP Hawaii understands the need for zero-emission transportation infrastructure, however, the cost should not be placed upon the developers of affordable housing, and future homeowners. We support the rebate at an increased amount to adequately offset the high cost of level 2 EV charging stations. We would recommend an increase in the rebate amount to prevent the substantial cost of level stations from being placed on affordable housing buyers.

Thank you for the opportunity to testify on this measure.

Mahalo for your consideration,

A handwritten signature in black ink, appearing to read "Reyn Tanaka".

Reyn Tanaka, President
NAIOP Hawaii

To: The House Committee on Energy & Environmental Protection
From: Brodie Lockard
Date: Tuesday, January 30, 2024, 9:00 am

In support of HB2100

Dear EEP Chair Lowen, Vice Chair Cochran and Committee Members—

While we have made progress on decarbonizing the electricity sector, ground transportation is still the worst contributor to climate change in Hawai'i. The affordable housing we need so badly must provide equitable access for all residents to be part of our clean energy future.

The hardest part of EV charger installation is the lack of electrical capacity to support charging infrastructure. In buildings that are not “EV charger-ready,” tenants may pay up to 91% more for expensive retrofits to install the necessary wiring to their parking stalls.

Many working families cannot afford single family homes, so the lack of EV charging in multi-unit dwellings, condos, and affordable housing is an equity issue for Hawai'i residents.

HB2100 provides rebates for new affordable housing developments to install the power-capacity and wiring necessary to make parking lots “EV charger-ready,” which would save money for residents on future EV charger installation, reduce the barriers to EV adoption, and address the urgent challenge of reducing carbon emissions from ground transportation.

Making it easier to charge EVs is a critical part of addressing the climate crisis that everyone seems to have forgotten about.

I urge you to pass this crucial bill.

Brodie Lockard
Founder, 350Hawaii

HB-2100

Submitted on: 1/29/2024 7:09:17 PM

Testimony for EEP on 1/30/2024 9:00:00 AM

Submitted By	Organization	Testifier Position	Testify
TJ Sao	Blue Planet Foundation	Support	Written Testimony Only

Comments:

Aloha Chair Lowen, Vice Chair Cochran, and members of the Committee,

I am testifying in support of HB 2100, which provides incentives for new affordable housing developments that are built to be electric vehicle charger-ready.

I'm passionate about creating a sustainable and equitable environment in Hawai'i for all people and future generations to share. We need to bridge a stronger and more harmonious relationship with nature and realign our values to favour the interests and well-being of humanity and our environment. I believe this bill aligns with these goals

Accessibility to EV charging remains a significant barrier to the wider adoption of electric vehicles in Hawai'i. This barrier is even greater for working families who plan to live in affordable housing developments, and rely on public charging for their transportation needs.

Installing "EV charger-ready" infrastructure is much cheaper during construction compared to expensive retrofits that must be paid by tenants once a building is completed. By incentivizing new affordable housing to be ready for the future demand of electric vehicles, we can make electric vehicles more accessible to our working families and local residents.

Electric vehicles are the fastest growing segment of new cars and play a critical role in Hawai'i's clean energy future. I support incentives for EV-ready affordable housing to help encourage electric vehicle adoption, significantly lower the cost for local families to install EV charging in the future, and address the urgent challenge of reducing carbon emissions.

Please pass HB 2100.

Thank you for considering my testimony.

TJ Sao, Pearl City, HI 96782

HB-2100

Submitted on: 1/27/2024 12:05:56 PM

Testimony for EEP on 1/30/2024 9:00:00 AM

Submitted By	Organization	Testifier Position	Testify
ANDREW ISODA	Individual	Support	Written Testimony Only

Comments:

- HB2100 would provide incentives for electric vehicle ready new construction for affordable housing. Access to vehicle charging infrastructure presents a barrier and an equity issue for low-income families who are unable to access the savings and other benefits associated with electric vehicle ownership because they lack access to charging infrastructure. As we transition away from gas vehicles, we need to take close account of our LMI/ALICE communities. They have economic concerns that must be accounted for as we decarbonize our transportation sector.
- For Hawaii to achieve its sustainable transportation and climate goals, we must electrify ground transportation on our islands as soon as possible. To adopt electric cars, everyone must have access to charging. And in a just transition, no one is left behind.

HB-2100

Submitted on: 1/27/2024 12:27:35 PM

Testimony for EEP on 1/30/2024 9:00:00 AM

Submitted By	Organization	Testifier Position	Testify
B.A. McClintock	Individual	Support	Written Testimony Only

Comments:

Accessibility to EV charging remains a significant barrier to the wider adoption of electric vehicles in Hawai‘i. This barrier is even greater for working families who plan to live in affordable housing developments, and rely on public charging for their transportation needs.

Installing “EV charger-ready” infrastructure is much cheaper during construction compared to expensive retrofits that must be paid by tenants once a building is completed. By incentivizing new affordable housing to be ready for the future demand of electric vehicles, we can make electric vehicles more accessible to our working families and local residents.

Electric vehicles are the fastest growing segment of new cars and play a critical role in Hawai‘i’s clean energy future. I support incentives for EV-ready affordable housing to help encourage electric vehicle adoption, significantly lower the cost for local families to install EV charging in the future, and address the urgent challenge of reducing carbon emissions.

Please pass HB 2100.

Thank you for considering my testimony.

HB-2100

Submitted on: 1/27/2024 4:42:13 PM

Testimony for EEP on 1/30/2024 9:00:00 AM

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

Comments:

Please pass HB2100 to enable lower-income residents to participate in the EV revolution and help Hawaii advance toward its goal of decarbonizing the transportation sector.

HB-2100

Submitted on: 1/27/2024 4:53:34 PM

Testimony for EEP on 1/30/2024 9:00:00 AM

Submitted By	Organization	Testifier Position	Testify
Judith A Mick	Individual	Support	Written Testimony Only

Comments:

Strongly support this bill

HB-2100

Submitted on: 1/27/2024 6:06:16 PM

Testimony for EEP on 1/30/2024 9:00:00 AM

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

Comments:

Developers should be required to provide affordable housing and support infrastructure to the community affected, including future recharging stations to help preserve our precious Hawai'i environment.

Thank you for your consideration,

L.Osterer, long-time resident and registered voter

HB-2100

Submitted on: 1/27/2024 7:19:00 PM

Testimony for EEP on 1/30/2024 9:00:00 AM

Submitted By	Organization	Testifier Position	Testify
Lei-Anne Jones	Individual	Support	Written Testimony Only

Comments:

Aloha Chair Lowen, Vice Chair Cochran, and members of the Committee,

I am testifying in support of HB 2100, which provides incentives for new affordable housing developments that are built to be electric vehicle charger-ready.

Accessibility to EV charging remains a significant barrier to the wider adoption of electric vehicles in Hawai‘i. This barrier is even greater for working families who plan to live in affordable housing developments, and rely on public charging for their transportation needs.

Installing “EV charger-ready” infrastructure is much cheaper during construction compared to expensive retrofits that must be paid by tenants once a building is completed. By incentivizing new affordable housing to be ready for the future demand of electric vehicles, we can make electric vehicles more accessible to our working families and local residents.

Electric vehicles are the fastest growing segment of new cars and play a critical role in Hawai‘i’s clean energy future. I support incentives for EV-ready affordable housing to help encourage electric vehicle adoption, significantly lower the cost for local families to install EV charging in the future, and address the urgent challenge of reducing carbon emissions.

Please pass HB 2100.

Thank you for considering my testimony.

Lei-Anne Jones, Honolulu, Hawaii 96822

HB-2100

Submitted on: 1/28/2024 8:16:23 AM

Testimony for EEP on 1/30/2024 9:00:00 AM

Submitted By	Organization	Testifier Position	Testify
Ben Robinson	Individual	Support	Written Testimony Only

Comments:

I support this initiative.

HB-2100

Submitted on: 1/28/2024 8:50:51 AM

Testimony for EEP on 1/30/2024 9:00:00 AM

Submitted By	Organization	Testifier Position	Testify
Maki Morinoue	Individual	Support	Written Testimony Only

Comments:

Aloha

I strongly support rebates for eligible electric vehicle-ready parking stalls for the new construction of affordable housing. We can't allow our underserved community to be marginalized and become climate resilient.

Please SUPPORT this all the way through!

Mahalo
Maki Morinoue
Hōlualoa
96725

HB-2100

Submitted on: 1/28/2024 10:28:20 AM

Testimony for EEP on 1/30/2024 9:00:00 AM

Submitted By	Organization	Testifier Position	Testify
Wendy Gibson-Viviani	Individual	Support	Written Testimony Only

Comments:

Dear Chair, Vice-Chair and Members of the Committee,

My name is Wendy Gibson-Viviani and I'm writing in SUPPORT of HB2100

My husband, a retired EPA Scientist and I are committed to addressing climate change issues by promoting systems that will help reduce carbon emissions.

HB2100 will help reduce electric vehicle charging challenges, especially for people who live in low-income housing. If we are promoting electric vehicles as a means to reduce carbon emissions, we need to provide the infrastructure to keep them running.

Thank you for the opportunity to share my views,

Wendy Gibson-Viviani RN/BSN

Kailua

HB-2100

Submitted on: 1/28/2024 11:31:46 AM

Testimony for EEP on 1/30/2024 9:00:00 AM

Submitted By	Organization	Testifier Position	Testify
Melissa Barker	Individual	Support	Written Testimony Only

Comments:

Honorable Members,

I respectfully ask that you support HB2100 which provides rebates for eligible electric vehicle ready parking stalls for new construction of affordable housing. HB2100 would provide incentives for electric vehicle ready new construction for affordable housing. Access to vehicle charging infrastructure presents a barrier and an equity issue for low-income families who are unable to access the savings and other benefits associated with electric vehicle ownership because they lack access to charging infrastructure. As we transition away from gas vehicles, we need to take close account of our LMI/ALICE communities. They have economic concerns that must be accounted for as we decarbonize our transportation sector.

Thank you for your attention and consideration.

Melissa Barker

Kapaa, HI

HB-2100

Submitted on: 1/28/2024 12:31:43 PM

Testimony for EEP on 1/30/2024 9:00:00 AM

Submitted By	Organization	Testifier Position	Testify
Audrey Enseki-Tom	Individual	Support	Written Testimony Only

Comments:

I strongly support HB2100.

HB-2100

Submitted on: 1/28/2024 12:37:43 PM

Testimony for EEP on 1/30/2024 9:00:00 AM

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

Comments:

Strong Support

The importance of incentives has been proven to be effective in the past.

HB-2100

Submitted on: 1/28/2024 1:25:08 PM

Testimony for EEP on 1/30/2024 9:00:00 AM

Submitted By	Organization	Testifier Position	Testify
laurel brier	Kauai Climate Action Coalition	Support	Written Testimony Only

Comments:

The lack of access to EV recharging stations is an obstacle to the transition to Electric vehicles, particularly lower income families. For Hawaii to achieve its sustainable transportation and climate goals, we must electrify ground transportation on our islands as soon as possible. To adopt electric cars, everyone must have access to charging. And in a just transition, no one is left behind. Strong support

HB-2100

Submitted on: 1/28/2024 2:42:25 PM

Testimony for EEP on 1/30/2024 9:00:00 AM

Submitted By	Organization	Testifier Position	Testify
John NAYLOR	Individual	Support	Written Testimony Only

Comments:

Aloha,

Hawaii needs to do everything to assist residents in the transition to a lower carbon future.

JN Makawao

HB-2100

Submitted on: 1/28/2024 4:07:45 PM

Testimony for EEP on 1/30/2024 9:00:00 AM

Submitted By	Organization	Testifier Position	Testify
Carol Hemington	Individual	Support	Written Testimony Only

Comments:

The lack of adequate vehicle charging infrastructure presents a barrier to widespread EV adoption, particularly for residents who are renters or who live in apartment buildings. This barrier creates an equity issue for low-income families who are unable to access the savings and other benefits associated with electric vehicle ownership because they lack access to charging infrastructure. HB2100 would address this issue by providing incentives for electric vehicle ready new construction for affordable housing.

HB-2100

Submitted on: 1/28/2024 8:42:41 PM

Testimony for EEP on 1/30/2024 9:00:00 AM

Submitted By	Organization	Testifier Position	Testify
Carolyn Eaton	Individual	Support	Written Testimony Only

Comments:

Aloha Chair Lowen, Vice Chair Cochran and members of the Committee,

My name is Carolyn Eaton and I full-heartedly support this bill. The rebates to developers of affordable housing who will install the power capacity and wiring to facilitate future installation of an EV charger are going to give new tenants in this housing the option to help achieve the common goal of lowering carbon emissions from ground transportation. My own situation, residing in a condo built 50 years ago, will not be affected by the passage of this bill, but the sorrow I feel in being unable to transition to an EV, underscores my desire for others, who will live in the affordable developments covered in this bill, to afford and choose to contribute to Hawaii's clean energy future.

Mahalo for your consideration of my support.

HB-2100

Submitted on: 1/28/2024 9:29:32 PM

Testimony for EEP on 1/30/2024 9:00:00 AM

Submitted By	Organization	Testifier Position	Testify
Cory Harden	Individual	Support	Written Testimony Only

Comments:

Aloha legislators,

Please support this bill for rebates for electric vehicle-ready parking stalls for affordable housing. Lower-income people can really use the savings electric vehicles offer. In addition, this bill will help Hawai'i reach its sustainable transportation and climate goals.

mahalo,

Cory Harden

HB-2100

Submitted on: 1/28/2024 9:54:11 PM

Testimony for EEP on 1/30/2024 9:00:00 AM

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

Comments:

Dear Chair Nicole E. Lowen, and Members of the Committee On Energy & Environmental Protection,

Thank you for hearing HB2100 related to Relating To Energy. Many thanks also to the introducers of this measure which provides rebates for eligible electric vehicle-ready parking stalls for new construction of affordable housing.

A friend of mine recently moved into senior housing in Hilo and mentioned that she could not buy and electric vehicle (new or used) because there was no capability for charging the vehicle.

The move to electrify ground transportation to meet Hawaii's goal of net zero by 2045 requires readily accessible EV charging infrastructure for all income groups.

I respectfully urge your support of this measure.

Sincerely, Ron Reilly
Volcano Village, Hawaii

HB-2100

Submitted on: 1/29/2024 7:31:07 AM

Testimony for EEP on 1/30/2024 9:00:00 AM

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

Comments:

Mahalo for this opportunity to testify in strong support of HB2100

- HB2100 would provide incentives for electric vehicle ready new construction for affordable housing. Access to vehicle charging infrastructure presents a barrier and an equity issue for low-income families who are unable to access the savings and other benefits associated with electric vehicle ownership because they lack access to charging infrastructure. As we transition away from gas vehicles, we need to take close account of our LMI/ALICE communities. They have economic concerns that must be accounted for as we decarbonize our transportation sector.

- For Hawaii to achieve its sustainable transportation and climate goals, we must electrify ground transportation on our islands as soon as possible. To adopt electric cars, everyone must have access to charging. And in a just transition, no one is left behind.

Virginia

HB-2100

Submitted on: 1/29/2024 7:55:44 AM

Testimony for EEP on 1/30/2024 9:00:00 AM

Submitted By	Organization	Testifier Position	Testify
Ruth Robison	Individual	Support	Written Testimony Only

Comments:

I strongly support HB 2100. For Hawaii to achieve its sustainable transportation and climate goals, we must electrify ground transportation on our islands as soon as possible. To adopt electric cars, everyone must have access to charging. And in a just transition, no one is left behind.

HB-2100

Submitted on: 1/29/2024 10:38:40 AM

Testimony for EEP on 1/30/2024 9:00:00 AM

Submitted By	Organization	Testifier Position	Testify
Nanea Lo	Individual	Support	Written Testimony Only

Comments:

Hello,

My name is Nanea Lo. I'm born and raised in the Hawaiian Kingdom. I live in Mō'ili'ili. I'm writing in STRONG SUPPORT of HB2100.

HB2100 would provide incentives for electric vehicle ready new construction for affordable housing. Access to vehicle charging infrastructure presents a barrier and an equity issue for low-income families who are unable to access the savings and other benefits associated with electric vehicle ownership because they lack access to charging infrastructure. As we transition away from gas vehicles, we need to take close account of our LMI/ALICE communities. They have economic concerns that must be accounted for as we decarbonize our transportation sector.

For Hawaii to achieve its sustainable transportation and climate goals, we must electrify ground transportation on our islands as soon as possible. To adopt electric cars, everyone must have access to charging. And in a just transition, no one is left behind.

me ke aloha 'āina,

Nanea Lo

HB-2100

Submitted on: 1/29/2024 10:39:34 AM

Testimony for EEP on 1/30/2024 9:00:00 AM

Submitted By	Organization	Testifier Position	Testify
Keith Neal	Individual	Support	Written Testimony Only

Comments:

Aloha Chair Lowen and committee members,

I strongly support HB1200.

HB2100 would provide incentives for electric vehicle ready new construction for affordable housing. Access to vehicle charging infrastructure presents a barrier and an equity issue for low-income families

Mahalo

Keith Neal

Waimea

HB-2100

Submitted on: 1/29/2024 12:27:59 PM

Testimony for EEP on 1/30/2024 9:00:00 AM

Submitted By	Organization	Testifier Position	Testify
Zoe Malia Ozoa Loos	Individual	Support	Written Testimony Only

Comments:

Hi! I know y'all don't really read these, and I totally get it. Y'all have lots of important things to do and not a lot of time. I could list all the reasons this bill should be supported, but come on, y'all, the planet is dying, and if the planet goes, we go. There's no arguing around that. This bill provides rebates for eligible electric vehicle-ready parking stalls for new construction of affordable housing. That's great! Anything to help our community make the switch to electric vehicles and stop polluting our planet should be done. And they get money back? We all know that money sweetens the deal. So, if rebates are given for making a positive switch, so be it.

Thanks for your time! Let's keep protecting the planet for seven generations to come.