



# HAWAII STATE ENERGY OFFICE STATE OF HAWAII

DAVID Y. IGE  
GOVERNOR

SCOTT J. GLENN  
CHIEF ENERGY OFFICER

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

before the  
**HOUSE COMMITTEE ON FINANCE**

Wednesday, April 6, 2022  
1:30 PM

State Capitol, Conference Room 308 & Videoconference

**SUPPORT  
SB 2196, SD2, HD2  
RELATING TO ELECTRIC VEHICLE CHARGING STATIONS.**

Chair Luke, Vice Chair Yamashita, and Members of the Committee, the Hawai'i State Energy Office (HSEO) supports SB 2196, SD2, HD2, which after January 1, 2023, prohibits the issuance of a building permit for any new multi-family residential building that has ten or more parking stalls, unless those stalls will be electric vehicle charger ready; and requires cooperative housing corporations, homeowners associations, planned community associations, and condominium associations to develop plans to incorporate electric vehicle charging systems onto any of its residential properties that are newly constructed after January 1, 2023; provided that the association has adequate common area infrastructure and boundaries.

HSEO's support is guided by its mission to promote energy efficiency, renewable energy and clean transportation to help achieve a resilient, clean energy, decarbonized economy.

To achieve a decarbonized economy, it is necessary for Hawai'i's transportation systems to be increasingly powered by renewable energy sources and to become less reliant on fossil fuels. Developing plans to integrate electric vehicle charging systems onto new residential parking areas, ensures that our new communities are prepared for and support the state's clean energy transformation. Establishing EV charging

readiness in a new building is also much more cost effective than retrofitting after the fact.

The requirements of SB 2196, SD2 are somewhat consistent with existing requirements, such as those in [Chapter 32. Building Energy Conservation Code](#) of the City and County of Honolulu, which includes a subsection entitled, "[C406.8 Electric vehicle infrastructure](#)," requiring parking stalls for newly-constructed residential and multi-unit and commercial buildings to comply with an electric vehicle readiness compliance pathway.

The same code also includes subsection "[R404.3, Electric Vehicle Readiness](#)," requiring that when a building permit application involves the installation of a residential electrical panel and parking area, a dedicated receptacle for an electric vehicle must be provided with a minimum AC Level 2 charge in each enclosed attached garage.

Thank you for the opportunity to testify.

HAWAII LEGISLATIVE  
ACTION COMMITTEE

  
**community**  
ASSOCIATIONS INSTITUTE

P.O. Box 976  
Honolulu, Hawaii 96808

April 4, 2022

Chair Sylvia Luke  
Vice Chair Kyle T. Yamashita  
Committee on Finance  
415 South Beretania Street  
Honolulu, Hawaii 96813

Re: SB 2196 SD2 HD2 - OPPOSE IN ITS CURRENT FORM

Dear Chair Luke, Vice-Chair Yamashita and Committee Members:

The Community Associations Institute ("CAI") has supported the intent of SB 2196 through several iterations. CAI supports the broader 100% renewable energy goal in and for the State of Hawaii and prefers to be supportive of initiatives promoting energy independence.

Unfortunately, SB 2196 SD2 HD2 cannot be supported as it is written. Those who applaud the bill overlook the real world adverse consequences that would attend its passage.

Sections two through four are vague and ambiguous. The proposed mandate is ill-defined, unfunded and likely to require court intervention to interpret.

Prior committees have left the trigger for action unclear. CAI proposed a clarifying amendment to SB 2196 SD2 HD1 that would have substantially addressed that issue.

The words "that are newly" were misplaced in SB 2196 SD2 HD2. The mandate to "incorporate electric vehicle charging systems onto any of its residential properties that are newly constructed" leaves unclear, for example, whether maintenance, repair and/or replacement activities trigger the mandate. What does "residential properties that are newly constructed" mean?

Chair Sylvia Luke  
Vice Chair Kyle T. Yamashita  
April 4, 2022  
Page two

The clarifying amendment proposed for SB 2196 SD2 HD1 related to newly constructed *parking stalls*:

"The plans shall include electric vehicle charger ready stalls for parking stalls **that are newly** constructed, including details on sufficient wiring, electrical conduit, electrical panel service capacity, overcurrent protection devices, suitable termination points to connect to a charging system, and one hundred twenty volt to two hundred forty volt outlets."

This language would have been clear and actionable. Covered entities have to know what they are obliged to do.

The amendment highlighted above would demonstrate that maintenance, repair or replacement activity with respect to existing improvements would not trigger a burdensome unfunded mandate that would disregard the findings contained in the report of the Working Group<sup>1</sup> about inherent limitations found at some projects. Safety will be endangered in the absence of such an amendment, because needed work will be deferred.

The Committee should also amend sections two through four to address the vague and ambiguous proviso that the entity "has sufficient and adequate common area<sup>2</sup> infrastructure and boundaries" by adding the words: "**as reasonably determined by the board of directors.**" Directors are fiduciaries and are obliged to follow the law.

Boards should be the interpretive authority for the sufficiency and adequacy of infrastructure and boundaries. The reasonableness of interpretations made is subject to judicial review, but it must be clear who can act in the first instance.

Finally, there is not a gas station at every current parking stall. It is unclear why there would be electric vehicle charging stations at every newly constructed stall.

Very truly yours,

*Philip Nerney*

Philip Nerney

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<sup>1</sup> See, [https://energy.hawaii.gov/wp-content/uploads/2013/07/Act-164\\_EV-Working-Group-Report\\_FINAL.pdf](https://energy.hawaii.gov/wp-content/uploads/2013/07/Act-164_EV-Working-Group-Report_FINAL.pdf)

<sup>2</sup> As to condominiums, the reference should be to common "elements". This has been pointed out in prior testimony.

**SB-2196-HD-2**

Submitted on: 4/4/2022 5:00:54 PM

Testimony for FIN on 4/6/2022 1:30:00 PM

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Testify</b>
Mike Golojuch, Sr.	Palehua Townhouse Association	Support	Written Testimony Only

Comments:

Our association supports SB2196. Please pass. Thank you.

Mike Golojuch, Sr., President, Palehua Townhouse Association



Email: [communications@ulupono.com](mailto:communications@ulupono.com)

HOUSE COMMITTEE ON FINANCE  
Wednesday, April 6, 2022 — 1:30 p.m.

**Ulupono Initiative supports SB 2196 SD 2 HD 2, Relating to Electric Vehicle Charging Stations.**

Dear Chair Luke 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 and clean transportation; and better management of freshwater and waste.

**Ulupono supports SB 2196 SD 2 HD 2**, which, after January 1, 2023, prohibits the issuance of a building permit for any new multi-family residential building that has ten or more parking stalls, unless those stalls are electric vehicle (EV) charger ready, and requires cooperative housing corporations, homeowners' associations, planned community associations, and condominium associations to develop plans to incorporate electric vehicle charging systems into any of its residential properties that are newly constructed after January 1, 2023.

Ulupono finds that electric vehicles (EVs) are an important avenue to address Hawai'i's pressing climate issues and align with the State's energy and environmental goals. EVs currently offer an effective option to advance clean, renewable ground transportation and provide immediate benefits to Hawai'i.

EVs are a critical part of our climate and transportation energy future:

- EVs provide immediate greenhouse gas (GHG) emissions reductions. EVs produce zero-emissions at the tailpipe, and even when full lifecycle emissions (from manufacturing through disposal) are considered, EV emissions are approximately 50 percent lower than internal combustion engine vehicles. Here in Hawai'i, they become cleaner every year.
- EVs can alleviate Hawai'i's high cost of living. In one study, rural drivers in Hawai'i saved \$417 per year by switching from gasoline to electricity.
- EVs are prime for market acceleration from public support. We have more EVs per capita than any other state, except California, but declining availability of charging infrastructure. In 2015, there were 8 EVs for every public charging station in Hawai'i, and in 2018, there were 13 EVs per charger. Automakers continue to announce plans to transform their fleets to EVs within the next 10-15 years, so we must prepare our state for the shift.

*Investing in a Sustainable Hawai'i*



Requiring qualifying facilities to be “EV-ready” is smart future-proofing. Recently, the International Code Council (ICC) updated its building standards to include EV-ready provisions. The rationale was that the cost of retrofits is significantly more expensive than when installed upfront, and such an upfront investment is a relatively small part of the total building cost. The ICC approval only validates this State policy and market need for EV-ready policies. Additionally, the City and County of Honolulu passed Bill 25 in 2020 requiring EV-ready for certain new construction. Passing this State policy will ensure a consistent policy is applied statewide and that all residents have the same options to reduce their overall cost of living.

A recent case study in San Francisco estimated the costs of EV-readiness at the time of construction to be less than \$1,000 per parking spot. Given that our recent research shows that a typical high rise parking stall can cost more than \$40,000 to build, this relatively low incremental amount seems worth the option to expand EV access. Otherwise, folks will have to pay tens of thousands of dollars to install an EV charger at a later date, or worse yet, will simply not have equal access to charging. Even if the costs were \$2,000 per spot, these additions would only increase the price of a condo by 0.5-0.7 percent. This equates to an increase in a typical 20 percent down payment by \$400 and a monthly mortgage (or related rent) by less than \$10 per month. In addition, EV drivers stand to save \$35 or more per month by driving electric, so this policy actually enables residents to lower their cost of living rather than pricing Hawai'i families out of such benefits since the costs to retrofit can be exorbitantly expensive.

Ulupono is supportive of independent research or a study to better understand the potential costs associated with EV ready construction.

As our energy issues become more complex and challenging, we appreciate this committee's efforts to look at policies that support clean ground transportation.

Thank you for the opportunity to testify.

Respectfully,

Micah Munekata  
Director of Government Affairs

**SB-2196-HD-2**

Submitted on: 4/4/2022 10:10:59 PM

Testimony for FIN on 4/6/2022 1:30:00 PM

Submitted By	Organization	Testifier Position	Testify
Ted Bohlen	Climate Protectors Hawai'i	Support	Remotely Via Zoom

Comments:

To: The Honorable Sylvia Luke, Chair, The Honorable Kyle Yamashita, Vice Chair, and Members of the House Committee on Finance

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

Re: Hearing **SB2196 SD2 HD2 RELATING TO ELECTRIC VEHICLE CHARGING STATIONS.**

Hearing: Wednesday, April 6, 2022, 1:30 p.m., CR 308 and by videoconference

Aloha Chair Luke, Vice Chair Yamashita, and Members of the House Committee on Finance:

The Climate Protectors Hawai'i is a group focused on reversing the climate crisis and encouraging Hawai'i to lead the world towards a safe and sustainable climate and future. The Climate Protectors Hawai'i **STRONGLY SUPPORTS SB2196 SD2 HD2.**

To achieve a decarbonized economy, it is necessary for Hawai'i's transportation systems to be increasingly fueled by renewable energy sources and to become less reliant on fossil fuels. **The lack of adequate electric vehicle charging infrastructure, especially in multi-unit dwellings, is a major barrier to the adoption of electric vehicles.** Therefore, it is critical to support electric vehicle charging system installations in multi-unit dwellings.

**This bill would prohibit building permits for any new multi-family residential building that has ten or more parking stalls, unless those stalls are electric vehicle charger ready.** It also would require residential multi-unit housing to develop plans to incorporate zero-emissions infrastructure, including electric vehicle charging systems.

**The option to own an electric vehicle should be made available to everyone, including low- and moderate-income families who often live in smaller units and condominiums.**

There are numerous logistical challenges involved with installing single-user and shared-stall chargers, including high costs, the lack of electric infrastructure capacity, parking facility limitations, maintenance costs, questions about metering, and questions about managing a charging system as a shared amenity. Among other challenges, associations of multi-family residential dwellings or townhouse units do not have electric vehicle charging system installation



expertise, meet infrequently, and sometimes lack quorum, making it impractical for associations to unilaterally develop installation guidelines without guidance from government entities.

**Multi-family housing needs charging infrastructure to be installed in order to serve electric vehicles. Without that infrastructure, the transition to electric vehicles, which Hawai'i needs to mitigate the climate crisis, will be delayed.**

Please pass this important bill!

Mahalo!

Climate Protectors Hawai'i (by Ted Bohlen)

TESTIMONY OF  
**LARRY S VERAY**

TO THE COMMITTEE ON:  
FINANCE

***MOST STRONGLY SUPPORT SB 2196 SD2 HD2***  
**RELATING TO ELECTRIC VEHICLE CHARGING STATIONS**

April 4, 2022

Aloha, Chair Luke and Vice Chair Yamashita and committee members. Thank you for allowing me the opportunity to provide testimony on SB 2196 SD2 HD2. I am submitting this testimony as Chair of the Pearl City Neighborhood Board No. 21. Our board unanimously passed a resolution on September 28, 2021 that stated the requirement for community, homeowners, condominium associations and high-rise apartment building complexes to begin their planning for the integration of Electric Vehicle (EV) charging stations on their respective property.

I understand this bill requires all newly built multi-family residential buildings built after January 1, 2023 to be integrated with EV charging stations.

I most strongly urge you to approve SB 2196 SD2 HD2. Mahalo!

Very respectfully,

*Larry S. Veray*

**SB-2196-HD-2**

Submitted on: 4/5/2022 4:20:08 AM

Testimony for FIN on 4/6/2022 1:30:00 PM

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Testify</b>
Christopher Dean	Recycle Hawaii and Clean the Pacific	Support	Written Testimony Only

Comments:

If we're going to continue to drive cars and survive this century, they had better all be electric and powered by solar energy. Clearly, this bill is a wake up call for developers and everyone. The transition to EVs is coming and to save time, money and avoid annoying disruptions due to retrofitting EV infrastructure, we need to do it now, so it's ready to go. We strongly support this legislation.

**SB-2196-HD-2**

Submitted on: 4/5/2022 6:17:30 AM

Testimony for FIN on 4/6/2022 1:30:00 PM

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Testify</b>
Noel Morin	Big Island Electric Vehicle Association	Support	Written Testimony Only

Comments:

April 5, 2022

Dear Chair Luke, Vice-Chair Yamashita, and members of the Finance Committee,

**Big Island EV Association (BIEVA) supports SB2196 SD2 HD2.**

This measure will facilitate the expansion of charging infrastructure in multi-unit dwellings. Hawaii has many condos and apartments, and residents and visitors who live or stay in these dwellings cannot effectively utilize electric vehicles. This measure establishes rules that will enable charging in existing complexes.

SB2196 introduces requirements for creating electric vehicle (EV) charger-ready parking stalls in new multi-unit projects. This will allow the projects to be futureproofed and a more cost-effective installation of future EV chargers.

Thank you for this opportunity to testify.

Noel Morin

President - BIEVA

[bigislandev.org](http://bigislandev.org)

**COMMITTEE ON FINANCE**

**Rep. Sylvia Luke, Chair**

**Rep. Kyle T. Yamashita, Vice Chair**

**Wednesday, April 6, 2022 – 1:30 pm**

**Testimony in Support of SB 2196, Senate Draft 2, House Draft 2 Relating To Electric Vehicle Charging Stations**

The American Lung Association is the leading organization working to save lives by improving lung health and preventing lung disease, through research, education, and advocacy. The work of the American Lung Association in Hawaii and across the nation is focused on four strategic imperatives: to defeat lung cancer; to improve the air we breathe; to reduce the burden of lung disease on individuals and their families; and to eliminate tobacco use and tobacco-related diseases.

**The American Lung Association in Hawaii supports SB 2196, SD 2, HB 2 which would increase the infrastructure for charging electric vehicles by helping develop plans to integrate electric vehicle charging stations onto various types of properties.**

The health impacts of ozone and particle pollution are well documented based on decades of scientific research. Exposure to ozone and particle pollution contribute to a wide range of negative health effects, including asthma attacks, lost workdays and premature deaths<sup>1</sup>. Transportation is a leading source of harmful air pollution in the United States, representing over half of the total ozone- and particle-forming oxides of nitrogen (NOx) emissions and represents the largest source of carbon pollution in the United States. Transportation sources also contribute to particle pollution and local diesel exhaust impacts that threaten lung health.<sup>2</sup> People who live near major roadways, lower-income communities and communities of color often face disproportionate exposures to harmful pollution, along with poor health outcomes, making health and climate equity key to the electric vehicle discussion<sup>3</sup>. Children, seniors and those living with respiratory, cardiovascular and other chronic health conditions are also more vulnerable to poor air quality.

Research by the American Lung Association shows that transitioning to zero-emission transportation solutions along with increasing levels of renewable energy will save lives by decreasing asthma triggers, improving the quality of air along roadways, and many other positive health effects for people who face lung health issues. In addition, moving to eliminate combustion from the transportation sector will yield significant reductions in greenhouse gases that drive wide-ranging climate change impacts on air quality and public health<sup>4</sup>. Hawaii stands to benefit from cleaner air through a transition to electric vehicles. Electric vehicles mean zero emissions from cars, buses and trucks, translating to cleaner air and better health for all residents of Hawaii. Such a transition would also help address the climate emergency, which threatens the health and future of all Americans today.

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<sup>1</sup> Health Effects Institute. Health Effects Institute Panel on the Health Effects of Traffic-Related Air Pollution, Traffic-Related Air Pollution: A Critical Review of the Literature on Emissions, Exposure, and Health Effects. Health Effects Institute: Boston, 2010. Available at [www.healtheffects.org](http://www.healtheffects.org).

<sup>2</sup> US Environmental Protection Agency. Air Pollutant Emissions Trends Data; U.S. Inventory of Greenhouse Gas Emissions and Sinks. <https://www.epa.gov/air-emissions-inventories/air-pollutant-emissions-trends-data>; <https://www.epa.gov/sites/production/files/2020-04/documents/us-ghg-inventory-2020-main-text.pdf>

<sup>3</sup> American Lung Association. State of the Air 2020. April 2020. [www.lung.org/sota](http://www.lung.org/sota)

<sup>4</sup> American Lung Association. The Road to Clean Air. September 2020 <https://www.lung.org/clean-air/electric-vehicle-report>



Hawaii

The American Lung Association in Hawaii urges legislators to continue to support and encourage the state's transition into electric vehicles by supporting electric vehicle charging infrastructure. We support Senate Bill 2196 and encourage your committee to approve the measure.

A handwritten signature in black ink, appearing to read "Pedro Haro".

Pedro Haro  
Executive Director  
American Lung Association in Hawaii



**HOUSE COMMITTEE ON FINANCE  
State Capitol  
415 South Beretania Street  
2:00 pm**

**April 6, 2022**

RE: SB 2196 SD2 HD2 - RELATING TO ELECTRIC VEHICLE CHARGING STATIONS

Chair Luke, Vice Chair Yamashita, and members of the committee:

My name is Daryl Takamiya, 2022 President of the Building Industry Association of Hawaii (BIA-Hawaii). Chartered in 1955, the Building Industry Association of Hawaii is a professional trade organization affiliated with the National Association of Home Builders, representing the building industry and its associates. BIA-Hawaii takes a leadership role in unifying and promoting the interests of the industry to enhance the quality of life for the people of Hawaii. Our members build the communities we all call home.

**BIA-Hawaii is in opposition to SB 2196 SD2 HD2, Relating to Electric Vehicle Charging Stations.**

This bill would require cooperative housing corporations, homeowners associations, planned community associations, and condominium associations to develop plans to incorporate zero-emissions fueling stations, including electric vehicle charging stations, onto any of its residential properties that are constructed after January 1, 2023. This bill would further prohibit the issuance of building permits for any new multi-family residential building that has 10 or more parking stalls unless those stalls are electric vehicle charger-ready.

This proposed legislation may be in conflict with County laws already in place which currently govern electric vehicle infrastructure in new multi-family dwellings.

While we understand the need for zero-emission transportation infrastructure, we disagree that the cost should be placed upon builders of housing developments, and future homeowners. Financial impact needs to be analyzed and addressed when mandating further cost onto homebuilding in our state.

Hawaii is in a major housing crisis, which has only worsened over time. Rather than placing more costly mandates on construction, perhaps the Legislature should look for creative ways to incentivize the market to move further in that direction, without negatively impacting local families. **The cost of housing in Hawaii is extremely high, with Oahu's median price of homes being currently over \$1 million.** Adding to the cost of building will further raise this price. On the second page of our testimony, you will find an example of the cost added to a housing development with respect to electric vehicle infrastructure.

Thank you for the opportunity to share our concerns.

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CASTLE & COOKE HAWAII

# EV Requirement Impact on Koa Ridge Housing Development

## EV INFRASTRUCTURE

Single Family/Duplex:  
\$4300/unit

Multi Family/Rental:  
\$11300/unit

## EV CHARGER-READY (charging unit not included)

Single Family/Duplex:  
\$750/unit

Multi Family/Rental:  
\$7000/unit

## TOTAL ADDED COST

Single Family/Duplex:  
\$5050/unit

Multi Family/Rental:  
\$18300/unit

MEDIAN HOME PRICE ON OAHU: \$1,060,000 (DEC 2021, HONOLULU BOR)

NUMBER OF U.S. BUYERS PRICED OUT FOR EVERY \$1000 INCREASE IN HOME PRICE:

153,967 (NAHB)



**Hawaii Electric Vehicle Association**  
 hawaiiiev.org  
 info@hawaiiieva.com



April 5, 2022

Dear Chair Luke, Vice-Chair Yamashita, and members of the Finance Committee,

**Hawaii Electric Vehicle Association supports SB2196 SD2 HD2 (RELATING TO ELECTRIC VEHICLE CHARGING STATIONS).**

Hawaii Electric Vehicle Association (Hawaii EV) is supportive of the intent of this measure. It “requires cooperative housing corporations, homeowners associations, planned community associations, and condominium associations to develop plans to integrate electric vehicle charging stations onto their properties and make funds available for that purpose.”

We take issue with the bill’s general language about "homeowners associations". We request you consider minor language modifications to SD2 in the following areas of concern.

Specifically, many Hawaii’s homeowner associations are little more than single-family residential developments bound by CCR rules. Many include communities with physical assets owned by the association, e.g., streets, lights, drainage, etc., and in some cases, association-owned buildings within common areas. The potentially broad application of the bill’s language, once law, is most concerning.

For example, does SB2196 require individual lot owners engaged in new construction of single residential homes (within a Homeowners Association) to be responsible for installing EV chargers on their private property, or will that be the responsibility of the Association? Technically, Association common areas and individual owner lots are not only connected but together legally bound by the association’s bylaws.

Does the bill apply to "homeowners associations" comprised only of single-family homes and common areas defined as roads, but with no association buildings, e.g., as in common meeting areas within a "homeowners association"?

We support the measure’s intent to expand the state’s much-needed EV charging infrastructure, but we believe the state’s role in advancing such developments should end at the doorstep of private property comprised of individual family homes located within "homeowners associations."

**Hawaii EV Association fully supports the intention of SB2196 to require electric vehicle (EV) charger-ready parking stalls in multi-family residential buildings with 10 or more parking stalls. This will allow futureproofing of projects and enable cost-effective installation of future EV chargers.**

Please support with aforementioned amendments and pass SB2196 SD2 HD2.

Thank you for this opportunity to testify.

Sincerely,

A handwritten signature in black ink, appearing to be "Noel Morin".

Noel Morin  
President  
Hawaii EV Association

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**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](http://hawaiiev.org).

**Hawaii EV Board**

Noel Morin, President  
Nanette Vinton, Secretary, and Treasurer  
Bill Bugbee – Director  
Tam Hunt - Director  
Sonja Kass – Director  
Rob Weltman – Director

**Hawaii EV Clubs**

Big Island EV Association  
Kauai EV  
Maui Nui EV  
Tesla Hawaii Club



To: The House Committee on Finance  
From: Sherry Pollack, 350Hawaii.org  
Date: Wednesday, April 6, 2022, 1:30pm

**In support of SB2196 SD2 HD2**

Aloha Chair Luke, Vice Chair Yamashita, and members of the Finance committee,

I am Co-Founder of the Hawaii chapter of 350.org, the largest international organization dedicated to fighting climate change. 350Hawaii supports the intent of SB2196 SD2 HD2 that requires cooperative housing corporations, homeowners associations, planned community associations, and condominium associations to develop plans to integrate electric vehicle charging stations onto their properties and make funds available for that purpose.

This measure will expand the much-needed charging infrastructure, particularly in projects where access to home charging is not feasible, e.g., condos and apartments.

Including these requirements for new multi-family residential buildings with ten or more parking stalls will enable cost-effective installation of future EV chargers.

Please support and pass SB2196 SD2 HD2.

Mahalo for this opportunity to testify.

Sherry Pollack  
Co-Founder, 350Hawaii.org

## TESTIMONY REGARDING SB 2196 HD 2

House Committee on Finance  
Wednesday, April 6, 2022 at 1:30 PM

Aloha Chair Luke, Vice Chair Yamashita, and Members of the Committee:

Thank you for the opportunity to provide testimony regarding SB 2196 HD 2, which would require new multi-family residential properties to be electric vehicle (EV) charger ready to ensure sufficient wiring and electrical capacity to support current and future EV drivers.

**Tesla supports SB 2196 HD 2 as it requires planning for EV charging in new multi-family construction which would reduce the costs of EV charging for Hawaii residents, accelerate the adoption of EVs for those living in apartment buildings, and reduce Hawaii's dependence on fossil fuel imports.** Planning for and providing electric vehicle infrastructure readiness in new residential construction is significantly less expensive than in retrofits. A study analyzing the cost implications of California's EV infrastructure building codes found that each EV-Capable parking space installed in a multi-unit dwelling during new construction saves \$2,040 - \$4,635 over the retrofit scenario.<sup>1</sup> Compared to single-family homes, the cost and complexity to retrofit an existing building with EV charging can be most significant for those in multi-unit dwellings who must navigate a myriad of obstacles from coordinating with the building owner or association, overseeing utility and electrical site work, gaining approval to construct in shared spaces, and often more costly installations due to parking structure design.

**While we believe each unit in a new multi-family building should have access to an electric vehicle charger ready parking stall, we recommend Hawaii set a minimum requirement of 20% electric vehicle charger readiness in new multi-family buildings, mirroring other states and cities across the United States.** In 2021 alone, Oregon [HB 2180](#), New Jersey [S3223](#), and Maryland [HB 784](#) passed minimum electric vehicle charger ready parking requirements for new buildings. California also approved a requirement for new multi-family buildings to have 40% electric vehicle charger readiness, including a 5% requirement for Level 2 electric vehicle charging stations to be installed.<sup>2</sup> If Hawaii does not act now to set a minimum requirement for electric vehicle charger readiness in new multi-family buildings, it will force unnecessarily high or cost prohibitive future retrofit costs for installing electric vehicle charging on Hawaii residents who want to transition away from internal combustion engine vehicles. Delaying adoption of minimum electric vehicle charger readiness requirements in new multi-family buildings is wholly misaligned with the interests of Hawaii residents and Hawaii's

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<sup>1</sup> <https://caletc.aodesignsolutions.com/assets/files/CALGreen-2019-Supplement-Cost-Analysis-Final-1.pdf>

<sup>2</sup> <https://www.dgs.ca.gov/-/media/Divisions/BSC/03-Rulemaking/2021-Triennial-Cycle/Dec-2021-Commission-Mtg/HCD-03-21-Pt11-FET.docx?la=en&hash=33BDAA5CEAC67DF5F9098FCAB3C44E3ADF8A5C9B>

climate goals. Attachment 1 includes recommended revisions to SB 2196 HD 2 to set a minimum 20% electric vehicle charger readiness requirement for new multi-family buildings.

**Level 2 EV charging levels must be maintained to ensure sufficient EV charging and allow for energy management.** Level 2 EV charging at 208/240-volts is standardized throughout existing state and local electric charger ready requirements.<sup>3</sup> This is primarily due to the difference in the time required to charge. A Level 1 120-volt outlet can add roughly 3.3 miles of charge over an hour, compared to charging from a Level 2 208/240-volt outlet which can add around 30 miles in an hour.<sup>4</sup> For a multi-family building, Level 2 charging allows for EV drivers to adequately recharge overnight in under 10 hours. Providing less than Level 2 charging results in a substandard level of charging that fails to adequately future proof new multi-family buildings. Level 2 chargers also have the capability to provide energy management and power sharing to optimize emission reductions, electric grid constraints, and participate in utility programs. This is even more essential for rural, low-income, and disadvantaged communities who typically have much longer commutes and often drive older EVs with shorter ranges. Importantly, for new construction, the cost differential for electric vehicle charger readiness between a Level 1 120-volt outlet and Level 2 208/240-volt outlet is negligible. Attachment 1 includes recommended revisions to SB 2196 HD 2 to set Level 2 EV charging as the requirement for electric vehicle charger readiness in new multi-family buildings.

Thank you for the opportunity to submit this testimony.

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<sup>3</sup> <https://www.swenergy.org/transportation/electric-vehicles/building-codes>

<sup>4</sup> [Building Code Ordinances to Support Electric Vehicle Charging Infrastructure for New Construction and Alterations](#)

## ATTACHMENT 1

SECTION 1. Chapter 196, Hawaii Revised Statutes, is amended by adding a new section to part I to be appropriately designated and to read as follows:

“§196- Electric vehicle charger ready; new multi-family residential buildings.

(a) After January 1, 2023, no building permit shall be issued for any new multi-family residential building that will have ten or more parking stalls, unless the building’s parking stalls will be **at least 20 percent** electric vehicle charger ready.

(b) For the purposes of this section, “electric vehicle charger ready” means having sufficient wire, conduit, raceway, termination point, and electrical panel capacity to support at minimum a **fifteen twenty** ampere, ~~one two~~ **hundred twenty forty**-volt branch circuit dedicated per parking stall.”

SECTION 2. Chapter 421I, Hawaii Revised Statutes, is amended by adding a new section to be appropriately designated and to read as follows:

“§421I- Residential properties; electric vehicle charging systems; requirement.

Each corporation shall have plans to incorporate electric vehicle charging systems onto any of its residential properties that are newly constructed after January 1, 2023; provided that the corporation has sufficient and adequate common area infrastructure and boundaries. The plans shall include electric vehicle charger ready stalls for parking stalls constructed, including details on sufficient wiring, electrical conduit, electrical panel service capacity, overcurrent protection devices, suitable termination points to connect to a charging system, and ~~one hundred twenty volt~~ **to two hundred forty volt outlets in accordance with Section 1.**”

SECTION 3. Chapter 421J, Hawaii Revised Statutes, is amended by adding a new section to be appropriately designated and to read as follows:

“§421J- Residential properties; electric vehicle charging systems; requirement.

Each association shall have plans to incorporate electric vehicle charging systems onto any of its residential properties that are newly constructed after January 1, 2023; provided that the association has sufficient and adequate common area infrastructure and boundaries. The plans shall include electric vehicle charger ready stalls for parking stalls constructed, including details on sufficient wiring, electrical conduit, electrical panel service capacity, overcurrent protection devices, suitable termination points to connect to a charging system, and ~~one hundred twenty volt~~ **to two hundred forty volt outlets in accordance with Section 1.**”

SECTION 4. Chapter 514B, Hawaii Revised Statutes, is amended by adding a new section to be appropriately designated and to read as follows:

“§514B- Residential properties; electric vehicle charging systems; requirement.

Each association shall have plans to incorporate electric vehicle charging systems, onto any of its residential properties that are newly constructed after January 1, 2023; provided that the association has sufficient and adequate common area infrastructure and boundaries. The plans shall include electric vehicle charger ready stalls for parking stalls constructed, including details on sufficient wiring, electrical conduit, electrical panel service capacity, overcurrent protection devices, suitable termination points to connect to a charging system, and ~~one hundred twenty volt~~ to two hundred forty volt outlets **in accordance with Section 1.**”

SECTION 4. Chapter 514B, Hawaii Revised Statutes, is amended by adding a new section to be appropriately designated and to read as follows:

“§514B- Residential properties; electric vehicle charging systems; requirement. Each association shall have plans to incorporate electric vehicle charging systems, onto any of its residential properties that are newly constructed after January 1, 2023; provided that the association has sufficient and adequate common area infrastructure and boundaries. The plans shall include electric vehicle charger ready stalls for parking stalls constructed, including details on sufficient wiring, electrical conduit, electrical panel service capacity, overcurrent protection devices, suitable termination points to connect to a charging system, and ~~one hundred twenty volt~~ to two hundred forty volt outlets **in accordance with Section 1.**”

SECTION 5. New statutory material is underscored.

SECTION 6. This Act shall take effect on January 1, 2050.



**SanHi**

GOVERNMENT STRATEGIES

A LIMITED LIABILITY LAW PARTNERSHIP

DATE: April 4, 2022

TO: Representative Sylvia Luke  
Chair, Committee on Finance

FROM: Tiffany Yajima

RE: **S.B. 2196, S.D.2, H.D.2 – Relating to Electric Vehicle Charging Stations**  
**Hearing Date: Wednesday April, 06, 2022 at 1:30 p.m.**  
**Conference Room: 308**

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Dear Chair Luke, Vice Chair Yamashita, and Members of the Committee on Finance:

On behalf of the Alliance for Automotive Innovation (“Auto Innovators”) we submit this testimony in support of S.B. 2196, SD2, HD2, Relating to Electric Vehicle Charging Stations.

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.

Hawaii has one of the highest rates of adoption of passenger electric vehicles in the nation with more than 17,700 passenger electric vehicles registered in the state. This number, however, represents only a small percentage of the total number of registered vehicles in Hawaii. While there is a growing interest in electric vehicles, Hawaii’s charging infrastructure is lacking, and presents a key barrier to broader EV adoption. Many Hawaii residents live in apartments, condominiums and multi-unit dwellings that cannot support electric vehicle charging at home, and without sufficient at-home charging infrastructure these drivers remain hesitant to invest in electric vehicles that cannot be easily refueled.

Auto Innovators recommend and support plans for level 2 charging infrastructure in new multi-unit dwellings and also support plans for a percentage of stalls to be dedicated for EV charging. Level 1 chargers that use standard 120-volt plugs allow drivers to fully charge their vehicles overnight but are slow and can take between 11-12 hours to fully charge an electric vehicle. Level 2 chargers use 240-volts and can charge an electric vehicle anywhere between 3-8 hours. Overall, level 2 chargers provide a better experience for drivers of electric vehicles.

Automobile manufacturers are already transitioning toward an electric future and a new generation of ZEVs is coming with 130 models expected for sale in the U.S.



market by 2026, up from over 50 models today. This measure supports the build-out of EV charging infrastructure in new residential properties to prepare communities for the transition to electric vehicles.

Thank you for the opportunity to submit this testimony.



**Hawaiian  
Electric**

**TESTIMONY BEFORE THE HOUSE  
COMMITTEE ON FINANCE**

**SB 2196, SD2, HD2**

**Relating to Electric Vehicle Charging Stations**

April 6, 2022

1:30 PM, Agenda Item # 18

State Capitol, VIDEO CONFERENCE

June Chee

Program Manager, Electrification of Transportation  
Hawaiian Electric Company

Aloha Chair Luke, Vice Chair Yamashita, and Committee Members,

My name is June Chee, and I am testifying on behalf of Hawaiian Electric Company in **support of and proposing amendments on SB2196 SD2 HD2**, Relating to Electric Vehicle Charging Stations, as it supports the installation of additional and reliable electric vehicle (EV) charging for future residential properties. Retrofits for EV charging infrastructure are significantly more expensive because they require the addition of electrical capacity, labor, boring, trenching, and re-filling with concrete. Developing plans to incorporate EV charging stations during the pre-construction phase dramatically decreases the costs to install EV charging infrastructure down the road.

The Company would encourage the committee to amend the following language for consistency on page 2, lines 6-12; page 3, lines 1-6; page 3, lines 15-21:

The plans shall include electric vehicle charger ready stalls for parking stalls constructed, including details on sufficient wiring, electrical conduit, raceway, electrical panel service capacity, ~~overcurrent protection devices,~~ and suitable

termination points to support at minimum a 15 ampere, 120-volt branch circuit ~~connect to a charging system, and one hundred twenty volt to two hundred forty volt outlets.~~

Hawaiian Electric's Electric Vehicle Critical Backbone Study looked at the forecasted need for public and private EV charging infrastructure in the next 10 years. The backbone study projected a need of seven-times more public charging by 2030 and an even greater need for private commercial and residential charging. This insight helped the Company focus its support and momentum for electrification of transportation through programs and initiatives such as EV-specific rates to encourage daytime charging, the Charge Up eBus make ready pilot, a proposal to expand our public charging network, and our recently approved Charge Ready Hawaii pilot. Hawaiian Electric is supportive of efforts that encourage the planning for and installation of residential EV charging as it will supplement the Company's public EV infrastructure programs and serve EV charging needs of current and future EV drivers. Accordingly, Hawaiian Electric Company supports SB2196 SD2 HD2. Thank you for this opportunity to testify.



# Environmental Caucus of The Democratic Party of Hawai'i

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## Energy & Climate Action Committee

Wednesday, April 6, 2022, 1:30 pm

House Committee on Finance

SENATE BILL 2196 – RELATING TO ELECTRIC VEHICLE CHARGING STATIONS

Position: Strong Support

Me ke Aloha, Chair Luke and Members of the Finance Committee:

SB2196 requires that any new multi-family building with more than 10 parking stalls shall be capable of charging electric vehicles.

The popularity of electric vehicles grows, and the necessity of many urban dwellers in apartments and condominiums to find charging stations at home makes SB2196 an important prelude for residential associations to begin the planning to accommodate the shift from internal combustion engines.

Until fast-charging stations are more readily available, residential access will continue to be essential for average complex trip drivers.

Making it a legal requirement will overcome apathy and uncertainty among building owners, associations, and managers, including initiating the process for any necessary building upgrades. It could open the door to incentivize installation contractors to develop plans and financing.

Mahalo for the opportunity to address this issue.

/s/ Charley Ice & Ted Bohlen, Co-Chairs, Energy and Climate Action Committee  
Environmental Caucus of the Democratic Party

**SB-2196-HD-2**

Submitted on: 4/4/2022 1:19:38 PM

Testimony for FIN on 4/6/2022 1:30:00 PM

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Testify</b>
Douglas Perrine	Individual	Support	Written Testimony Only

Comments:

We need to make it practical for citizens to adopt electric vehicles by having charging infrastructure available. This bill advances that goal.

**SB-2196-HD-2**

Submitted on: 4/4/2022 11:26:35 PM

Testimony for FIN on 4/6/2022 1:30:00 PM

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Testify</b>
Harald Ebeling	Individual	Support	Written Testimony Only

Comments:

Dear Chair, dear Committee Members,

I would like to express my strong support for this bill. Providing charging infrastructure is critically important for a swift transition to electric vehicles and should be required for new construction just as solar hot water heaters are. Enabling EV charging is key in particular for apartment buildings and other multi-unit dwellings to make the installation of chargers easy and affordable for all of us.

Thank you for supporting SB2196 SD2 HD2!

Aloha,

Harald Ebeling

**SB-2196-HD-2**

Submitted on: 4/5/2022 6:59:36 AM

Testimony for FIN on 4/6/2022 1:30:00 PM

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Testify</b>
Stephanie Hall Morin	Individual	Support	Written Testimony Only

Comments:

Aloha,

I have encountered many would be EV drivers who live in condos or apartments that are uneasy about adopting because of the lack of charging stations available. Paving the way for multi-family housing to install chargers makes a lot of sense. Please support this initiative. Mahalo

**SB-2196-HD-2**

Submitted on: 4/5/2022 7:03:41 AM

Testimony for FIN on 4/6/2022 1:30:00 PM

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Testify</b>
Paul Bernstein	Individual	Support	Written Testimony Only

Comments:

Aloha Chair Luke, Vice Chair Yamashita, and members of the Finance Committee:

I'm writing in support of SB2196. We need to plan as early as possible for our necessary low carbon future. This bill helps with that aim when it comes to reducing emissions from light duty vehicles as it's far less costly to ensure a new building is wired for EV charging than having to retrofit it later. Therefore, I urge you to pass this bill out of your committee.

Respectfully,

Paul Bernstein



**SB-2196-HD-2**

Submitted on: 4/5/2022 7:18:22 AM

Testimony for FIN on 4/6/2022 1:30:00 PM

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Testify</b>
Andrea Nandoskar	Individual	Support	Written Testimony Only

Comments:

Strongly support!

**SB-2196-HD-2**

Submitted on: 4/5/2022 8:22:06 AM

Testimony for FIN on 4/6/2022 1:30:00 PM

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Testify</b>
Cheryl Reeser	Individual	Support	Written Testimony Only

Comments:

Aloha Honorable Members of the Finance Committee,

I am writing to strongly support SB2196 SD2 HD2. As an electric car owner for almost ten years, I have experienced range anxiety yet feel it is my responsibility to do my part to reduce our reliance on gas and oil. This is an important bill to move Hawaii further towards its zero emission goals and to encourage more drivers to buy electric vehicles by ensuring the charging infrastructure is available and dependable for everyone.

Mahalo,

Cheryl Reeser  
Makawao, Maui

**SB-2196-HD-2**

Submitted on: 4/5/2022 9:15:11 AM

Testimony for FIN on 4/6/2022 1:30:00 PM

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Testify</b>
Debbie McMenemy	Individual	Support	Written Testimony Only

Comments:

I urge you to support this measure. If Hawaii is to meet our solar energy goals then people who live in multi-unit dwellings, as many of us must, EV charging needs to be accessible to them. I've seen these folks not consider an EV because they have no way of charging at home in a condominium or apartment complex.

**SB-2196-HD-2**

Submitted on: 4/5/2022 9:18:10 AM

Testimony for FIN on 4/6/2022 1:30:00 PM

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Testify</b>
ANDREW ISODA	Individual	Support	Written Testimony Only

Comments:

This measure will expand the much-needed charging infrastructure, particularly in projects where access to home charging is not feasible, e.g., condos and apartments. Including these requirements for new multi-family residential buildings with ten or more parking stalls will enable cost-effective installation of future EV chargers.

**SB-2196-HD-2**

Submitted on: 4/5/2022 10:16:35 AM

Testimony for FIN on 4/6/2022 1:30:00 PM

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Testify</b>
Thomas Brandt	Individual	Support	Written Testimony Only

Comments:

This measure will expand the much-needed charging infrastructure, particularly in projects where access to home charging is not feasible, e.g., condos and apartments.

Including these requirements for new multi-family residential buildings with ten or more parking stalls will enable cost-effective installation of future EV chargers.

Thank you for the opportunity to offer these comments.

**SB-2196-HD-2**

Submitted on: 4/5/2022 11:00:12 AM

Testimony for FIN on 4/6/2022 1:30:00 PM

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Testify</b>
Hattie Gerrish	Individual	Support	Written Testimony Only

Comments:

I support policies that expand the use of electric vehicles, and I look forward to driving an electric car in the near future.

Mahalo!

**SB-2196-HD-2**

Submitted on: 4/5/2022 11:41:10 AM

Testimony for FIN on 4/6/2022 1:30:00 PM

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Testify</b>
CAROLINE LANDRY	Individual	Support	Written Testimony Only

Comments:

I am in support of this bill. We need to phase out fossil fuels, period. Having more charging stations will help. Mahalo for reading. -Caroline Landry

**SB-2196-HD-2**

Submitted on: 4/5/2022 12:07:47 PM

Testimony for FIN on 4/6/2022 1:30:00 PM

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Testify</b>
Scott Young MD	Individual	Support	Written Testimony Only

Comments:

Aloha I fully support this bill because we desperately need more electric vehicle charging infrastructures and this is particularly true for multifamily developments as we switch from fossil fuel vehicles. Please pass this bill. Mahalo, Scott Young MD



**SB-2196-HD-2**

Submitted on: 4/5/2022 12:25:32 PM

Testimony for FIN on 4/6/2022 1:30:00 PM

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Testify</b>
Matt Lannis	Individual	Support	Written Testimony Only

Comments:

I fully support SB 2196 to help create a Hawaii clean energy future.

**SB-2196-HD-2**

Submitted on: 4/5/2022 1:06:33 PM

Testimony for FIN on 4/6/2022 1:30:00 PM

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Testify</b>
Diane Ware	Individual	Support	Written Testimony Only

Comments:

Dear Chair and Committee Members,

This bill makes a lot of sense and convenience as we move to electric vehicles. I own an EV and charge at home but I have friends who rent and they aren't allowed to charge where they live. Please contribute to solutions of the problems of climate disasters.

Respectfully,

Diane Ware, 99-7815 Kapoha Pl, Volcano Hi 96785

**SB-2196-HD-2**

Submitted on: 4/5/2022 1:37:24 PM

Testimony for FIN on 4/6/2022 1:30:00 PM

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Testify</b>
Sulara James	Individual	Support	Written Testimony Only

Comments:

I support this bill SB2196

Sulara James, resident of Maui

**SB-2196-HD-2**

Submitted on: 4/5/2022 4:21:51 PM

Testimony for FIN on 4/6/2022 1:30:00 PM

Submitted By	Organization	Testifier Position	Testify
Rita Ryan	Individual	Support	Written Testimony Only

Comments:

Aloha State of Hawaii Lawmakers-

I am so happy to see SB2196 move forward for a vote, and I fully support this measure. It is past time that we require EV infrastructure for HOAs. Why should property owners be left out of the low-carbon EV transportation market because the development companies did not have the proper foresight? Forcing HOA property owners to use fossil-fueled vehicles because they cannot install their own chargers is a **social injustice**. Yes, there are fine lines on what constitutes an eligible HOA, but exemptions can be dealt with case-by-case so this bill does not do financial harm to homeowners in unique situations.

I think the bill can be better qualified by stating that **'HOAs where any individual property owner does not have the ability to install a private charging station should be subject to SB2196.'**

We need to be equitable across Hawaii with access to charging infrastructure for ALL residents, this measure is one step in that direction.

2022 is the Year of the Electric Car across our nation, and Hawaii residents and homeowners should not be left out!

Mahalo for your vote to pass SB2196,

*Rita Ryan*

*Makawao*

**SB-2196-HD-2**

Submitted on: 4/5/2022 7:12:19 PM

Testimony for FIN on 4/6/2022 1:30:00 PM

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Testify</b>
Elizabeth Hansen	Individual	Support	Written Testimony Only

Comments:

Please support this bill.

Mahalo

**SB-2196-HD-2**

Submitted on: 4/5/2022 7:23:28 PM

Testimony for FIN on 4/6/2022 1:30:00 PM

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Testify</b>
Rodger Hansen	Individual	Support	Written Testimony Only

Comments:

please support this bill

Mahalo

**SB-2196-HD-2**

Submitted on: 4/5/2022 9:00:59 PM

Testimony for FIN on 4/6/2022 1:30:00 PM

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Testify</b>
Jeremy Garrett	Individual	Support	Written Testimony Only

Comments:

Please support this measure. Accessibility for electric automobile charging stations is imperative to reduce fossil fuel use and reliance.