



TESTIMONY BY:

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DIRECTOR

Deputy Directors
LYNN A.S. ARAKI-REGAN
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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
869 PUNCHBOWL STREET
HONOLULU, HAWAII 96813-5097

March 23, 2021
2:00 P.M.
State Capitol, Teleconference

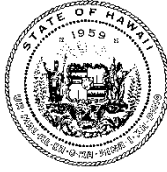
S.B. 920, S.D. 2, H.D.1
RELATING TO STATE LIGHT DUTY VEHICLES

House Committee on Consumer Protection & Commerce

The Department of Transportation (DOT), **supports** this bill that requires State owned transportation fleets to transition to one hundred percent clean ground transportation by establishing a goal to transition all light duty vehicles powered by renewable energy source by December 31, 2035.

The State Department of Transportation, Highways Division is currently in the process of converting light duty vehicle to electric through a lease agreement that has recently been executed with an electric vehicle provider who will also be providing supporting electrical charging equipment. The agreement is available for all State agencies, Counties, and University of Hawaii to utilize for their electric vehicle conversion needs. Highways Division has taken steps to reduce its carbon footprint by converting all highway and building lighting to energy efficient devices, installing photovoltaic systems at all baseyard facilities, utilizing higher quality AC with longer life, requiring that all concrete on our system be CO2 entrained, using cementitious epoxy coatings to extend the life of our structures, moving away from building new roads and using technology to improve the system we have, and piloting new technologies like plastics in pavements.

Thank you for the opportunity to provide testimony.



STATE OF HAWAII
STATE PROCUREMENT OFFICE

P.O. Box 119
Honolulu, Hawaii 96810-0119
Tel: (808) 586-0554
email: state.procurement.office@hawaii.gov
<http://spo.hawaii.gov>

TESTIMONY
OF
BONNIE KAHAKUI, ACTING ADMINISTRATOR
STATE PROCUREMENT OFFICE

TO THE HOUSE COMMITTEE
ON
CONSUMER PROTECTION & COMMERCE
MARCH 23, 2021, 2:00PM

SENATE BILL 920, SD2, HD1
RELATING TO STATE LIGHT DUTY VEHICLES

Chair Johanson, Vice Chair Kitagawa, and members of the committee, thank you for the opportunity to submit testimony on SB920, SD2, HD1. The State Procurement Office (SPO) offers the following comments and recommendations:

COMMENTS:

Chapter 103D, Hawaii Revised Statutes (HRS), Hawaii Public Procurement Code (Code), is meant for general procurement methods and high-level guidance. It should not be a receptacle for all industry-specific specifications or goals as this will, over time, create a vast, and complicated Code that will confuse buyers because they will not be able to trust that specifications are in the respective chapter and procurement specific requirements are lost within the sea of specifications or goals.

RECOMMENDATIONS:

The SPO proposes removing Section 2, page 2, lines 16-20; and page 3, lines 1-8:

~~"§103D— Other motor vehicle requirements. (a) The procurement policy for all agencies purchasing or leasing medium and heavy duty motor vehicles shall be to seek vehicles that reduce dependence on petroleum-based fuels that meet the needs of the agency, where feasible and cost-effective.~~

~~Priorities for selecting vehicles for lease or purchase shall be as follows:~~

- ~~(1) Zero emission vehicles;~~
- ~~(2) Plug in hybrid electric vehicles;~~
- ~~(3) Alternative fuel vehicles; and~~
- ~~(4) Hybrid vehicles~~
- ~~(b) Vehicles shall not be larger than necessary for their intended functions."~~

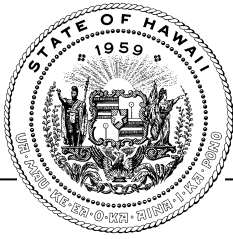
The SPO proposes the revision of Section 5, page 4, lines 12-15, adding the words "medium- and heavy-duty" to read as follows:

"§103D-412 Light-, medium- and heavy-duty motor vehicle requirements. (a) The procurement policy for all agencies purchasing or leasing light-, medium-, and heavy-duty motor vehicles shall be to reduce dependence on petroleum-based fuels. ~~for transportation energy[.]~~

The SPO proposes to delete a phrase on page 7, lines 19-21, so (f) will read as follows:

~~{(e)}~~ (f) Vehicles acquired from another state agency and excluded vehicles are exempt from the requirements of this section section[.] ~~but shall be included in the calculation of the clean ground transportation goals established under section 196-9(e)(10).~~

Thank you.



HAWAII STATE ENERGY OFFICE STATE OF HAWAII

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Testimony of
SCOTT J. GLENN, Chief Energy Officer

before the
HOUSE COMMITTEE ON CONSUMER PROTECTION & COMMERCE

Tuesday, March 23, 2021
2:00 PM
State Capitol, Conference Room 329 & Videoconference

In Support of
SB920 SD2 HD1
RELATING TO STATE LIGHT DUTY VEHICLES.

Chair Johanson, Vice Chair Kitagawa, and Members of the Committee, the Hawaii State Energy Office (HSEO) supports SB 920 SD2 HD1, which establishes clean ground transportation goals for state agencies to achieve a one hundred per cent light-duty motor vehicles zero-emission fleet by December 31, 2035, authorizes the department of accounting and general services to approve state fleet acquisitions, including zero emission vehicle requirements for light-duty passenger cars¹, light-duty multipurpose passenger vehicles and trucks², and allowance for exemptions; and requires state and county agencies to purchase building materials for the project that reduce the carbon footprint of the project whenever feasible and cost-effective.

SB 920 SD2 HD1 aligns with the State's efforts to expand strategies and mechanisms to reduce greenhouse gas emissions through the reduction of energy use, adoption of renewable energy, and control of air pollution among all agencies, departments, industries, and sectors, including transportation. Emissions from ground transportation account for the largest share of energy sector emissions in the state. As noted in the 2016 Greenhouse Gas Inventory, transportation emissions in Hawaii were

¹ light-duty passenger cars are light-duty motor vehicles which are passenger cars.

² light-duty multipurpose passenger vehicles and trucks are light-duty motor vehicles which are multipurpose passenger vehicles and trucks

at 8.69 million metric tonnes of carbon dioxide equivalents, accounting for 51 percent of total energy sector emissions. Ground transportation accounted for 47 percent of the transportation emissions. For Hawaii to meet its statutory target “to sequester more greenhouse gases than emitted as soon as practicable but no later than 2045”, policies that support the adoption of cleaner transportation options are necessary and tremendously important.

It is important that the State take actions within its power to advance and align with the decarbonization policies of the State and the 2045 time frame identified in Chapter 225P, Hawaii Revised Statutes (HRS). Adopting targets for the conversion of the state fleet will be a material contribution to bolster the number of existing zero emission vehicles (ZEV) in Hawaii and sends a clear signal to the market about Hawaii’s commitment to the decarbonization of the ground transportation sector. HSEO supports that SB920 SD2 HD1 sets the goals for the achievement of State fleet conversion in Section 196-9, Hawaii Revised Statute, Energy efficiency and environmental standards for state facilities, motor vehicles, and transportation fuel, aligning with HSEO statutory responsibilities.

HSEO supports the SB920 SD2 HD1 amendment to Section 26-6, HRS, adding a bullet in subsection (b) to address the approval of State fleet acquisitions with provisions that starting January 1, 2022 all new light-duty passenger cars purchased for the State's fleets shall be ZEVs and that exemptions must be expressly authorized for new fleet vehicle procurements if ZEVs are demonstrated to be cost-prohibitive on a lifecycle basis or unsuitable for the vehicle's planned purpose. Fundamental to achieving the decarbonization of the State’s fleet is for procurement of new vehicles to be ZEVs when cost-effective models are readily available in the market. Approximately one third of the State’s light-duty motor vehicle fleet, or approximately 1,000 vehicles, are passenger cars (info-graphic is attached to the end of this testimony). Currently 28% of the State’s light-duty passenger cars are 16 years or older. Over 50% of light-duty passenger cars are 11 years or older. By 2025 those percentages grow to 44% and over 70% respectively. Cost-effective models for ZEV light-duty passenger cars are

readily available in the market today. Requiring approval for an exemption for the procurement of any light-duty passenger car that is not a ZEV starting January 1, 2022, will ensure meaningful progress is made towards transitioning the State fleet in the near term.

Setting the goal for the conversion of the State's light-duty vehicle fleet to ZEV by 2035 provides adequate time for State agencies to plan their fleet transitions. Light-duty multipurpose passenger vehicles and light-duty trucks represent, in large part, the remaining approximate two-thirds of the State's light-duty motor vehicle fleet. The amendment to Section 26-6, HRS requiring that all acquisitions of light-duty multipurpose passenger vehicles and light-duty trucks be ZEV starting January 1, 2030 gives the market time to provide sufficient models to satisfy State fleet requirements for those vehicle types. Roughly 30 ZEV trucks, sports utility vehicles, and vans are expected to be on the market by 2023³. The requirement to procure ZEVs, coupled with the planning horizon, provides the opportunity to align procurement cycles to replace the fleet as it ages achieving light-duty vehicle fleet transition goals of 100% ZEV by 2035.

Updating vehicle procurement priorities in Section 103D, Hawaii Revised Statutes, with corresponding definitions consistent with the Code of Federal Regulation provides updated vehicle procurement guidance for the State fleet in general. This guidance provides clarity on the objective to decarbonize the State fleet even while more prescriptive direction is provided for specific vehicle types with market ready ZEV models. The linkage of definitions with the Code of Federal Regulation supports benchmarking and tracking progress overtime by ensuring Hawaii is tracking vehicle types on an apples to apples basis compared with other states and national averages.

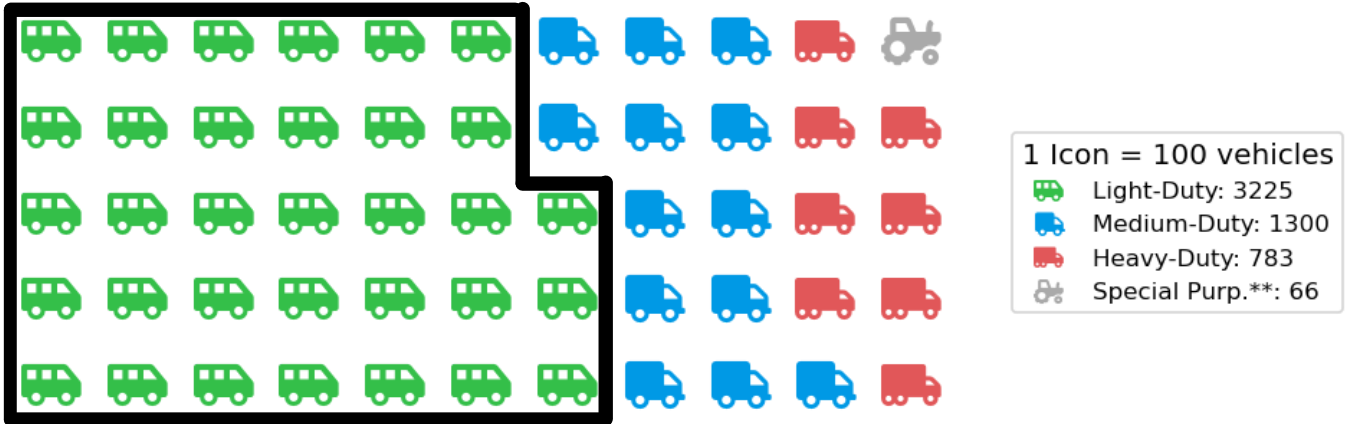
Thank you for the opportunity to testify.

³ MJB&A Electric Vehicle Market Status – Update, Manufacturer Commitments to Future Electric Mobility in the U.S. and Worldwide
https://mjbradley.com/sites/default/files/EDF_EV_Market_Report_September_2020_Update.pdf

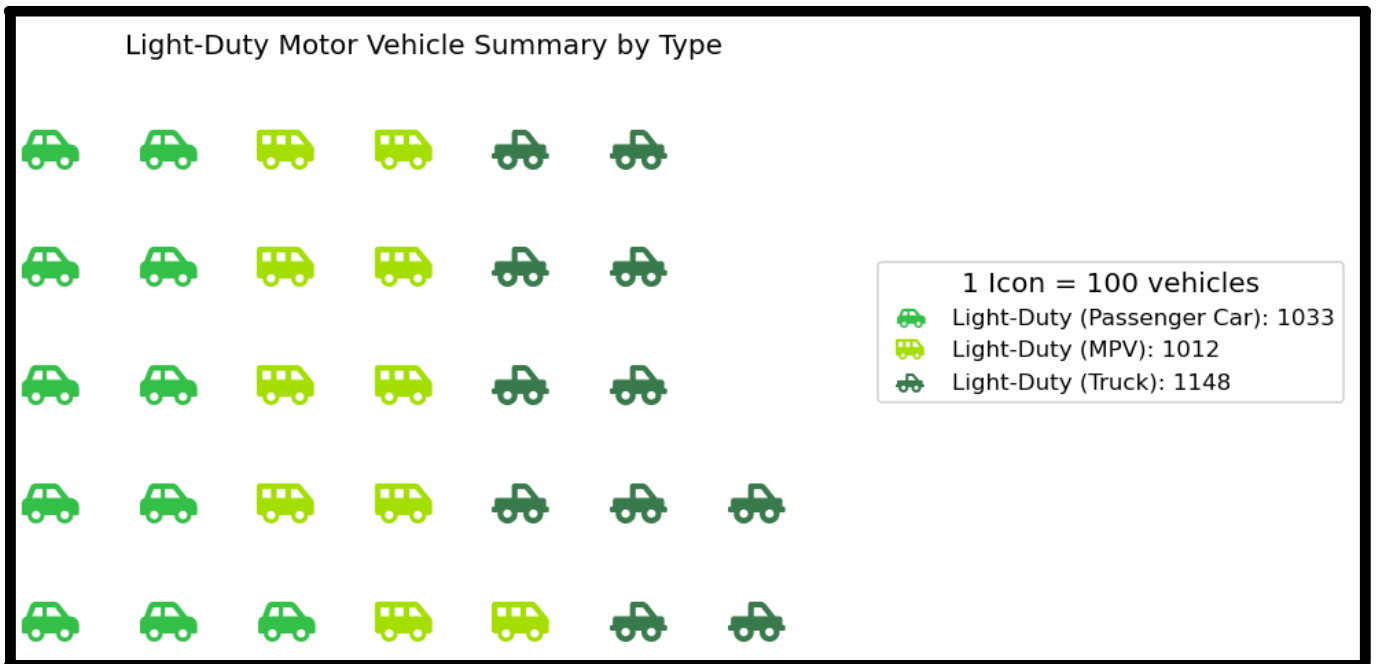
State of Hawaii Motor Vehicle Fleet Summary FY2020

Prepared by the Hawaii State Energy Office

State Motor Vehicle Fleet by Duty Class



Light-Duty Motor Vehicle Summary by Type



SB-920-HD-1

Submitted on: 3/21/2021 7:37:50 PM

Testimony for CPC on 3/23/2021 2:00:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Steve Parsons	Kauai Climate Action Coalition	Support	No

Comments:

Aloha TRUSTED Lawakers

I strongly support this bill. As do some Automotive CEO at least in principle. Recently Volvo's CEO said:, "electric cars are the future of personal transportation, putting a deadline for combustion-engined vehicle sales helps companies plan for EVs accordingly – and promote [EV adoption](#)." This helps manufacturers plan for demand. It also has an undo influence on EV adoption:<https://www.utilitydive.com/news/fleet-electrification-can-have-outsized-influence-on-ev-adoption-rmi-ana/593755/>

A bigger reason is it will save the state Millions of dollars over time.For example, a recent study shows Nevada will save 20 Bllion swithching to <https://cleantechnica.com/2021/02/05/new-report-electric-vehicles-can-save-nevada-20-billion/>, so how much savings does Hawaii lose if they don't pass this now.

Lastly, a MUCH bigger reason is to help the health of Hawaii's people and visitors. Forbes recently reported Fossil Fuel Pollution Kills 8.7 Million People a year, TWICE AS MANY AND PREVIOUSLY THOUGHT!!! I'm NOT ok with this <https://www.forbes.com/sites/scottcarpenter/2021/02/10/fossil-fuel-air-pollution-kills-nearly-as-many-as-cancer-study-finds/?sh=51e4c6c31dba> and neither should you be! I want you to be ANGRY about this too and ACT, PLEASE ACT!!! Oh, if you're looking for ways to save money: Ford's CEO recently explained how the All-Electric F-150, starting production next year, will save Fleet owners over 40%!!! Any fleet, Rentals, State, County, Police, Lifeguards, etc. In a budget shortfall? Here's a 40% savings you can put into motion, today! <https://cleantechnica.com/2020/09/17/electric-ford-f150-is-a-game-changer-for-fleets-with-a-40-lower-cost-of-ownership/> Thank you for your time in considering this great bill! It's a GREAT way to fight climate change that is currently Kicking our Okole: Big Time!!!

Imua>>>

Steve Parsons, Kauai Resident, Wailua

Core Member Kauai Climate ACTION Coalition



Email: communications@ulupono.com

HOUSE COMMITTEE ON CONSUMER PROTECTION & COMMERCE
Tuesday, March 23, 2021 — 2:00 p.m.

Ulupono Initiative supports SB 920 SD 2 HD 1, Relating to State Light Duty Vehicles.

Dear Chair Johanson 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 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 920 SD 2 HD 1, which establishes clean ground transportation goals for state agencies to achieve a one hundred per cent light-duty motor vehicles zero-emission fleet by December 31, 2035; authorizes the Department of Accounting and General Services to approve State fleet acquisitions, including zero-emission vehicle requirements for light-duty passenger cars, light-duty multipurpose passenger vehicles and trucks, and allowance for exemptions; and, requires the State and county agencies to purchase building materials for the project that reduce the carbon footprint of the project whenever feasible and cost-effective.

Ulupono supports Hawai'i's reduction of fossil fuel use as we strive to meet the State's 100% renewable goal by 2045. This measure seeks to make a large impact on the renewable energy goal by transitioning State and public light-duty vehicles to vehicles powered by renewable energy sources.

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

EV sales grew by more than 40% in 2020, but ZEVs still only represent about one percent of all passenger vehicles in the state. We strongly support the State setting goals to transition State-owned light-duty vehicles. We believe this is an important market signal as the State competes in the global vehicle market and further showcases Hawai'i's commitment to decarbonize our economy.

Furthermore, this bill begins to align the State with stronger prohibitions and commitments made around the globe.

In fact, the Governor of California recently signed an executive order to eliminate the sale of new

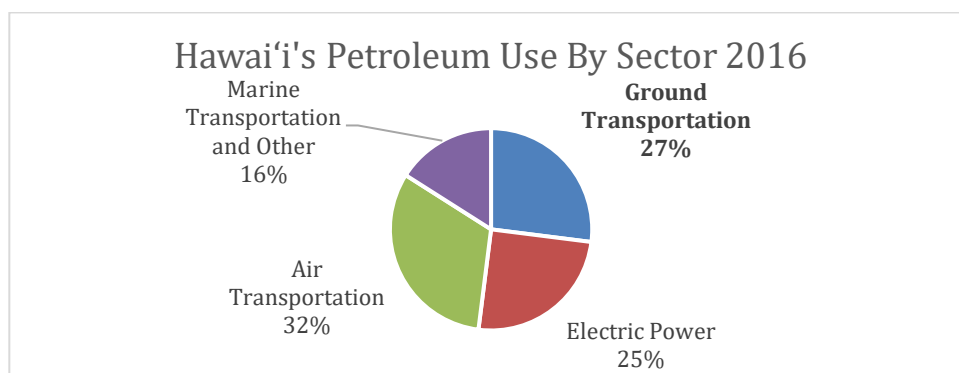
Investing in a Sustainable Hawai'i

gas cars and trucks by 2035. California joins a multitude of countries and cities across Europe, as well as China and British Columbia, who have taken similar measures to eliminate the sale of new fossil fuel vehicles with target dates ranging from as soon as 2025 to 2040.

Auto manufacturers are also making similar commitments. Most recently, Nissan committed to having every new vehicle in major markets (including the US) be electrified by the early 2030s, and General Motors (GM) committed to stop making gasoline and diesel cars, vans and SUVs by 2035.

EVs Provide Immediate Energy and Environmental Impact

Ground transportation alone utilizes more than a quarter of the state's imported petroleum. Electrifying ground transportation will reduce our demand for imported fossil fuels, keeping millions of dollars in the state and cutting harmful pollution.



Source: Hawai'i State Energy Office – Hawai'i Energy Facts & Figures

Converting from petroleum-based vehicles to EVs immediately reduces greenhouse gas (GHG) emissions, helping combat climate change and its impacts on our islands. 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 (ICE) vehicles.

EVs can also support the integration of more renewables on the electric grid with smart charging technology and rate structures. Thus, proliferating EVs throughout Hawai'i can help accelerate progress towards the State's 100 percent RPS goal, as well as contribute to the State's Paris Agreement commitments and carbon neutral goal.

This bill is an important measure for the State to push for the decarbonization of our economy, while continuing to show the world that Hawai'i is a clean energy leader.

Thank you for this opportunity to testify.

Respectfully,

Micah Munekata
Director of Government Affairs



Environmental Caucus of The Democratic Party of Hawai'i

Tuesday, March 23, 2021, 2:00 pm

House Committee on Consumer Protection and Commerce

SENATE BILL 920 – RELATING TO STATE LIGHT DUTY VEHICLES: Converting the State fleet to EV by 2030

Position: Strong Support

Me ke Aloha, Chair Aaron Johanson, Vice-Chair Lisa Kitagawa, and Members of the Committee on Consumer Protection and Commerce:

SB 920 proposes to power 100% of the State light vehicle fleet by renewable energy by 2030. The Environmental Caucus strongly supports this measure, with an exception. HD1 clarifies a sequence of motive power priorities for acquiring fuel-efficient vehicles, including greenhouse gas burning fuels of somewhat greater efficiency; our committee appreciates the timidity in rapidly abandoning current options, but believe the overwhelming priority must be the elimination of all greenhouse gas emissions, and that we as a society must commit to proving this transition possible. The technology is here, and the will to avoid extinction is strong. With carbon emissions driving climate change, continuing to accelerate as we deliberate, we note that the transportation sector is by far the greatest contributor to greenhouse gases in Hawaii. It is therefore incumbent upon the State to provide the leadership in transforming our transportation sector, thereby encouraging private industry to follow.

Conversion to renewable fuels also means supporting a fleet of vehicles at cheaper maintenance costs. Reducing our fossil fuel use means a very large portion of Hawaii's wealth remains in the State rather than being exported to fossil fuel producers. Finally, this bill provides incentive for full build-out of Hawaii's renewable fuels infrastructure, affecting the general market for electric vehicles to decelerate statewide use of fossil fuels.

This bill is supported by the broad spectrum of grass roots organizations interested in promoting environmental awareness. Significantly, the conversion of Hawaii's vehicle culture to electric vehicles raises the awareness of the broad driving public regarding carbon emissions and environmental protection generally, and the fragility of our island ecosystems.

The Environmental Caucus strongly supports this bill with the exception of continuing to allow greenhouse gas-burning vehicles; mahalo for the opportunity to address this issue.

/s/ Charley Ice, Co-Chair, Energy and Climate Action Committee, Environmental Caucus of the Democratic Party



To: The House Committee on Consumer Protection & Commerce (CPC)
From: Sherry Pollack, 350Hawaii.org
Date: Tuesday, March 23, 2021, 2pm

In support of SB920 SD2 HD1

Aloha Chair Johanson, Vice Chair Kitigawa, and CPC 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 SB920 SD2 HD1 with some suggested amendments.**

We ask the you restore the language in this bill with the goal to transition light-duty motor vehicle fleets to 100% electric vehicles by 2030. This will save the State money because vehicle maintenance is much lower for electric vehicles than for internal combustion engines.

Further, 350Hawaii strongly urges that the measure be amended to include a target for **all light-duty vehicles** in the state to be powered by renewable energy sources, not just state agency vehicles. Scientists are warning that major and unprecedented reductions in emissions are needed **now** for us to have a chance to avoid untold suffering from climate breakdown. We must have bold leadership if we are to preserve a livable climate.

Moreover, the definition of "zero-emission vehicle" should not include plug-in hybrid electric vehicles. The legislature has the opportunity—and the power—to mandate very significant use of **real** zero-emission vehicles with this bill. Vehicles should be fully electric or hydrogen ones, not ones that will perpetuate our importation of fossil fuels.

Next, the definition of "fuel cell electric vehicle" should specify hydrogen made from renewable sources. Hydrogen can be produced in many ways, including by burning fossil fuels.

Last, we strongly urge this bill's definition of "alternative fuels," which is the same as the federal definition in Title 10 Code of Federal Regulations 490, be amended to **remove all fossil fuels, such as natural gas and liquefied petroleum gas**, and list only nonclimate-harming fuels under the definition of 'alternative fuels.' Natural gas and liquified petroleum gas, for example, are dirty fossil fuels that contain methane which is actually a far more potent greenhouse gas than carbon dioxide and have no place in our clean energy future. As previously stated, the legislature has the opportunity and the power to mandate very significant use of **real** zero-emission vehicles with this bill.

Zero-emission vehicles are better for the environment and the economy. They are the future for Hawaii. A future we must begin now. Thank you for the opportunity to testify in support of this very important bill.

Sherry Pollack
Co-Founder, 350Hawaii.org



**Hawaiian
Electric**

**TESTIMONY BEFORE THE HOUSE COMMITTEE ON
CONSUMER PROTECTION & COMMERCE**

SB 920, SD2, HD1

Relating to State Light Duty Vehicles

March 23, 2021

2:00 PM, Agenda Item # 6

State Capitol, Conference Room 329 / VIDEO CONFERENCE

June Chee

Senior Program Manager, Electrification of Transportation
Hawaiian Electric Company, Inc.

Aloha Chair Johanson, Vice Chair Kitagawa, and Committee Members,

My name is June Chee and I am testifying on behalf of Hawaiian Electric Company **in strong support of SB920, SD2, HD1**, Relating to State Light Duty Vehicles. Hawaiian Electric Company supports this measure because it would be a significant step in implementing Hawaii's commitment to clean ground transportation and result in quantifiable emissions reductions. Specifically, the Company supports the legislature's proposed landmark commitment to decarbonizing the ground transportation sector by transitioning all light-duty motor vehicles in the State's fleet to meet clean ground transportation goals. Hawaiian Electric similarly committed to transitioning our class one light duty fleet to 100% electric vehicles by 2035.

Facilitating the electrification of transportation in Hawaii is a top Company strategic objective. Consistent with our *Electrification of Transportation Strategic Roadmap*, the Company is providing support and momentum for electrification of transportation through programs and initiatives such as EV-specific rates to encourage daytime charging, an electric bus make ready infrastructure pilot, our proposed Charge Ready Hawaii pilot to provide make ready infrastructure support to commercial properties and multi-unit

dwellings, and a planned request to expand our public charging network. These initiatives will be supportive of the State's transition to a zero-emission motor pool.

Accordingly, Hawaiian Electric Company is in strong support of SB920, SD2, HD1. Thank you for this opportunity to testify.

SB-920-HD-1

Submitted on: 3/22/2021 10:56:20 AM

Testimony for CPC on 3/23/2021 2:00:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Ted Bohlen	Climate Protectors Hawai'i	Support	No

Comments:

To: The Honorable Aaron Ling Johanson, Chair,

The Honorable Lisa Kitagawa, Vice Chair, and Members of the

House Committee on Consumer Protection and Commerce

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

Re: Hearing SB920 SD2 HD1 **RELATING TO STATE LIGHT DUTY VEHICLES.**

Hearing: Tuesday, March 23, 2021, 2:00 p.m., by videoconference

Aloha Chair Johanson, Vice Chair Kitagawa, and members of the House Committee on Consumer Protection and Commerce:

Position: **STRONG SUPPORT FOR SB920 SD2 HD1, BUT WITH AMENDMENTS TO REQUIRE ELECTRIC VEHICLES BY 2030 INSTEAD OF 2036 AND REVISE THE ALTERNATIVE FUELS DEFINITION**

The Climate Protectors Hawai'i is a group focused on reversing the climate crisis and encouraging Hawaii to lead the world towards a safe and sustainable climate and future. As a tropical island State, Hawai'i will be among the first places harmed by the global climate crisis, with more intense storms, loss of protective coral reefs, food insecurity, and rising sea levels destroying our shorelines. We must do all we can to reduce our carbon footprint and become carbon negative as soon as possible.

This bill would begin transitioning ground transportation to one hundred per cent zero-emission vehicles in the State by establishing goals for the reduction and ultimate elimination of the use of fossil fuels for ground transportation, including a goal for the State to lead by example by transitioning one hundred per cent of its light-duty motor vehicles by December 31, 2035. The bill also would require state and county agencies to purchase building materials that reduce the carbon footprint of each project whenever feasible and cost-effective.

Fortunately, the motor vehicle industry is rapidly transitioning away from petroleum power. **As battery and perhaps other technologies improve and costs decline, vehicles powered by fossil fuels will themselves become fossils! The State can and should lead by transitioning its fleets to 100% zero emission vehicles by 2030 instead of 2036!** This will save the State money as well as reduce greenhouse gas emissions because vehicle maintenance is much lower for electric vehicles than for internal combustion engines.

The bill's requiring state and county agencies to purchase building materials that reduce the carbon footprint of each project whenever feasible and cost-effective can also be an important way to reduce emissions, particularly with the use of carbon dioxide mineralized concrete. Cement, the critical ingredient in concrete, produces more than seven per cent of the world's carbon dioxide. However, emission of carbon dioxide from cement can be halted by injecting carbon dioxide into the concrete during mixing. This process chemically transforms the carbon dioxide into mineral form, embedding it into the concrete and preventing its release as a gas. State and county agencies should be using only concrete that is carbon dioxide mineralized wherever feasible.

One part of the bill is inconsistent with the bill's purpose. The definition of "Alternative fuel":

"means alcohol fuels, mixtures containing eighty-five per cent or more by volume of alcohols with **gasoline** or other fuels, **natural gas, liquefied petroleum gas**, hydrogen, biodiesel, mixtures containing twenty per cent or more by volume of biodiesel with **diesel** or other fuels, other fuels derived from biological materials, and electricity provided by off-board energy sources."

We strongly urge that this bill's definition of "alternative fuels," which is the same as the federal definition in Title 10 Code of Federal Regulations 490, be **amended to remove all fossil fuels, such as ethanol containing gasoline, natural gas and liquefied petroleum gas, and mixtures containing diesel**, and list only nonclimate-harming fuels. Gasoline, liquified petroleum gas, and diesel are petroleum fossil fuels, and natural gas is basically methane, which is a far more potent greenhouse gas than carbon dioxide. These fossil fuels should not be included as alternative fuels in our clean energy future.

Please pass this bill with this amendment! Mahalo!

Climate Protectors Hawai'i (by Ted Bohlen)



HOUSE COMMITTEE ON CONSUMER PROTECTION & COMMERCE

March 23, 2021, 2:00 P.M.

Video Conference

TESTIMONY IN SUPPORT OF SB 920 SD2 HD1, SUGGESTED AMENDMENT

Aloha Chair Johanson, Vice Chair Kitagawa, and members of the Committee:

Blue Planet Foundation **supports SB 920 SD2 HD1**, which sets a planning goal to transition 100% of state light-duty fleets to zero-emission vehicles by the end of 2035. This measure is a needed and important first step to ensure that Hawai'i is taking meaningful action to reduce greenhouse gas emissions in the ground transportation sector. This bill will help the state lead by example and promote alignment and collaboration in ongoing and future planning efforts.

Blue Planet recommends that the measure be amended to include a target for all light-duty vehicles in the state to be powered by renewable energy sources by at least 2045. Unlike several other states and countries across the globe, Hawai'i lacks a strong policy framework for shifting our lingering dependence on imported fossil fuel to power our ground transportation sector. The steady but incremental pace of clean vehicle adoption currently in the state is a result of this void. **To meet the challenge of climate change with the pace and scale required, Hawai'i must not continue along the business-as-usual trajectory. We need bold leadership to change course.**

Existing policies and initiatives have failed to reduce carbon emissions from Hawai'i's cars and trucks

While Hawai'i has made substantial progress on policies, programs, and actions to reduce burning fossil fuels in the electricity sector, **we are falling short on decarbonizing our ground transportation sector**. Greenhouse gas emissions from transportation have been climbing steadily for years prior to the coronavirus pandemic. In 2019, more gasoline was sold in the islands than in 2018.¹ Without deliberate and forward-thinking leadership, we risk accelerating this trend of increased transportation emissions as Hawai'i residents go back to school and the office and as tourists return, especially with lower than usual oil prices. In addition, the quicker we turn our private and public fleets over to electric, the faster we turn the spigot off that leaks billions out of our economy annually to buy gasoline. Mobility should be powered by homegrown power, not imported carbon.

¹ "Monthly Energy Trends," DBEDT, <http://dbedt.hawaii.gov/economic/energy-trends-2>.

Even today, over one million gasoline-powered vehicles are on the roads in Hawai'i—and from them comes nearly five million metric tons of climate-changing carbon pollution. Although we now have over 13,000 electric vehicles (EVs) on the state's roads, they still only make up a mere 1% of all registered vehicles in the state.² Hawai'i drivers are increasingly choosing larger, heavier vehicles, which are often less fuel efficient. According to the Hawaii Auto Dealers Association, pickup trucks and sport utility vehicles—still largely powered solely by fossil fuels—accounted for 69.2% of Hawai'i vehicle sales in 2019, a sharp increase from 48.7 per cent in 2012.³ Without a shift in policy, Hawai'i's reliance on fossil fuel for its transportation needs won't change. Senate Bill 920 can help Hawai'i shift this trajectory by setting planning targets for transitioning state fleets to zero-emission vehicles.

Others have already committed to a clean transportation future

In September 2020, California made headlines when Governor Gavin Newsom signed an executive order directing the state to require **all new cars and passenger trucks sold in California to be zero-emission vehicles by 2035**, after a summer of devastating wildfires fueled by climate-change-induced extreme weather. California joined the ranks of several countries who have also recognized that fossil fuel-powered ground transportation needs to end. **France** plans to phase out gas-powered car sales by 2040. **Britain announced in November that it will ban the sale of new gasoline and diesel cars by 2030**, a decade earlier than its previous commitment of 2040. **India, Netherlands, Israel, and Denmark** have set a similar goal for 2030. And **Norway** plans to have all new cars, buses, and light commercial vehicles be zero emission vehicles by 2025.

Auto manufacturers are similarly making bold commitments to phase out fossil-fuel-powered vehicles. **General Motors—one of the world's largest automakers**—announced in January 2021 that it would phase out petroleum-powered cars and trucks and **sell only vehicles that have zero tailpipe emissions by 2035**. As a mere sampling of other examples, Ford is launching all-electric versions of its popular Mustang (launching 2021) and F-150 (expected in 2022), and Volkswagen is targeting electric options for all of its vehicle models by 2030.

Conclusion

Through SB 920, the state government is leading by example and taking an important step forward by setting a goal to transition 100% of state light-duty fleets to zero-emission vehicles. Blue Planet recommends that the measure be amended to include a target for all light-duty vehicles in the state to be powered by renewable energy sources by at least 2045.

Thank you for the opportunity to provide testimony.

² Ibid.

³ Hawaii Dealer, "Hawaii Auto Dealers Association, 2020 Spring Edition, https://issuu.com/traveler-media/docs/hawaiidealer_2020_spring_edition.



John Uekawa, President
Dave Rolf, Executive Director



HADA Testimony with SUPPORT for SB920 SD2 HD1
RELATING TO THE ENVIRONMENT

Presented to the House Committee on Consumer Protection and Commerce

at the Public Hearing 2 p.m. Tuesday, March 23, 2021 in CR329

VIA VIDEO CONFERENCE
Hawaii State Capitol

by David H. Rolf for the members of the Hawaii Automobile Dealers Association

Chair Johanson, Vice Chair Kitagawa and members of the committee:

HADA dealers offer support for the provisions in this bill which seek to establish clean ground transportation goals for state agencies to achieve a one hundred per cent light-duty motor vehicle zero-emission fleet by December 31, 2030. (SB920 SD2 HD1)

The goal for State agencies achieving a light-duty clean energy vehicle fleet by 12/31/2030 continues to follow the purchasing and leasing priorities set for state agencies through the Hawaii Clean Energy Initiative in 2010, with some vehicle category additions, and with the addition of new deadlines for 100% adoption by agencies using the State Fleet of passenger cars and trucks.

HADA dealers thank you for the opportunity to provide support testimony on this bill.

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Respectfully submitted,

David H. Rolf for the Hawaii Automobile Dealers Association

68 new car dealerships, 4,383 direct jobs, \$5.8 billion total sales, \$269 million State Gross Excise Taxes paid

SB-920-HD-1

Submitted on: 3/22/2021 12:49:48 PM

Testimony for CPC on 3/23/2021 2:00:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
David Mulinix	Our Revolution Hawaii	Support	No

Comments:

Aloha Committee,

On Behalf of Our Revolution Hawaii's 7,000 members and supporters statewide, we stand in STRONG SUPPORT of [SB920 regarding State Agencies Zero-Emission Fleet](#).

This measure will reduce Hawaii's use of gasoline and internal combustion engines and help show the way to a cleaner vehicle future that will help mitigate the currently growing Climate Crisis. To reach Hawaii's sustainable transportation and climate goals, we have to electrify ground transportation on our islands as soon as possible. Therefore, we urge the original target date of 2030, rather than 2035, be restored to this measure.

Please vote for and pass [SB920](#).

Mahalo for your consideration.

Dave Mulinix

Cofounder & Hawaii State Community Organizer

Our Revolution Hawaii



SanHi

GOVERNMENT STRATEGIES
A LIMITED LIABILITY LAW PARTNERSHIP

DATE: March 22, 2021

TO: Representative Aaron Johanson
Chair, Committee on Consumer Protection and Commerce

FROM: Tiffany Yajima

RE: **S.B. 920, S.D. 2, H.D. 1 – Relating to State Light Duty Vehicles**
Hearing Date: Tuesday, March 23, 2021 at 2:00 p.m.
Conference Room: 329

Dear Chair Johanson, Vice Chair Kitagawa, and members of the Committee on Consumer Protection and Commerce:

On behalf of the Alliance for Automotive Innovation (“Auto Innovators”) we submit these comments on S.B. 920, SD2, HD1.

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.

Automobile manufacturers support state efforts to transition public fleets to zero-emission vehicles and would suggest the following amendment on page 4, section 4 at line 7 to clarify that the intent of this measure is the electrification of state fleets:

"§264- **Clean ground transportation goal.** The department of transportation, in collaboration with the Hawaii state energy office, shall develop strategies to transition all light-duty motor vehicles in the ~~State~~ **state's fleets** to meet the clean ground transportation goal established pursuant to section 196-9(c) (10)."

Government support for ZEVs, EV charging infrastructure, and alternative fuel deployment is essential to the state's overall transition to cleaner transportation. In the transition to 100 percent ZEV government fleets, state agencies can facilitate opportunities for private fleet electrification and can accelerate broader EV adoption among consumers. In addition, a statewide charging network would need to be built to fuel these vehicles and with government support could transform the state's ZEV

landscape by offering widespread access and compatibility in charging stations across the state.

Thank you for the opportunity to submit this testimony.

FAITH ACTION FOR COMMUNITY EQUITY
ENVIRONMENTAL JUSTICE TASK FORCE

HOUSE
COMMITTEE ON CONSUMER PROTECTION & COMMERCE
March 23, 2021 at 2:00 pm
Via Videoconference and Conference Room 329

SUPPORTING SB 920, SD2, HD1

The Environmental Justice Task Force of Faith Action for Community Equity supports **SB 920, SD2, HD1**, which will reduce our dependence on imported fossil fuels for transportation, and accelerate the transition to electric vehicles. Please continue to support this measure and any others that help Hawaii do its part to address climate change.



SIERRA CLUB OF HAWAI'I

HOUSE COMMITTEE ON CONSUMER PROTECTION AND COMMERCE

March 23, 2021 2:00 PM

In **SUPPORT** of **SB920 SD2 HD1**: Relating to State Light Duty Vehicles

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

On behalf of our 27,000 members and supporters, the Sierra Club of Hawai'i **supports SB920 SD2 HD1**, which seeks to eliminate carbon-based ground transportation in state light-duty fleets by 2035, reduce emissions from medium- and heavy-duty vehicles, and encourage the use of building materials that reduce the carbon footprint of state and county facilities and projects.

Since adopting our 100% renewable energy goal, Hawai'i has made considerable progress in fostering collaborative efforts to reform electricity policy. We have seen that setting such a high standard has accelerated the transition of our electric sector to clean, renewable energy. However, transportation accounts for approximately two-thirds of the state's fossil fuel consumption and more focus must be placed on reducing the use of fossil fuels for ground transportation in order to achieve 100% carbon neutrality by 2045, and to reduce air and water pollution, increase our energy independence, and mitigate the impacts of climate change.

The Sierra Club supports SB920 to transform the state's light duty fleet to zero-emission vehicles by 2035 and decrease the carbon emissions from other vehicles and projects. This bill begins to set targets for Hawai'i's vehicles to convert to zero-emission vehicles and indicates that our agencies are willing to lead by example in this commitment. As we move forward, it will also be important to provide funding to the agencies, as well as adopt other EV charging infrastructure and vehicle incentives to achieve these goals.

Thank you very much for this opportunity to provide testimony in **support of SB920 SD2 HD1**.



Environmental Caucus of The Democratic Party of Hawai'i

March 23, 2021

To: House Committee on Consumer Protection & Commerce
Representative Aaron Ling Johanson, Chair
Representative Lisa Kitagawa, Vice Chair, and
Members of the Committee on Consumer Protection & Commerce

Re: SB920, SD2, HD1 – RELATING TO ELECTRIC VEHICLES

Hearing: Tuesday, March 23, 2021, 2:00 p.m., Room 329 via videoconference

Position: **STRONG SUPPORT**

Aloha Chair Johanson, Vice Chair Kitagawa, and Members of the Committee on Consumer Protection & Commerce:

The Environmental Caucus of the Democratic Party of Hawai'i and its Human Environmental Impacts Committee are in strong support of SB920, SD2, HD1 as in Part I: it establishes clean ground transportation goals for state agencies to achieve a one hundred per cent light-duty motor vehicles zero-emission fleet by December 31, 2035. In Part II: it authorizes the department of accounting and general services to approve state fleet acquisitions, including zero emission vehicle requirements for light-duty passenger cars and light-duty multipurpose passenger vehicles and trucks with allowance for exemptions. In Part III: it requires state and county agencies to purchase building materials for the project that reduce the carbon footprint of the project whenever feasible and cost-effective.

The Democratic Party of Hawai'i (Party) has adopted at its 2018 State Convention, clear safeguards to protect the *'āina* through combating climate change by eliminating fossil fuels through electrification. At page 18 of the Party Platform, it specifically provides:

“We are committed to getting 100 percent of our electricity from clean energy sources within a decade. . . . We will transform Hawai'i's transportation by reducing fossil fuel consumption through cleaner fuels, vehicle electrification, and increasing the fuel efficiency of cars, boilers, ships, and trucks. We will make new investments in public transportation and build bicycle and pedestrian infrastructure across our urban and suburban areas. . . .



March 23, 2021

Page 2

Democrats are committed to defending, implementing and extending smart pollution and efficiency standards and fuel economy standards for automobiles and heavy-duty vehicles, building codes and appliance standards. We are also committed to expanding clean energy research and development.

We will work to expand access to cost-saving renewable energy by low-income households, create good-paying jobs in communities that struggled with energy poverty, and oppose efforts by utilities to limit consumer choice or slow clean energy deployment. We will streamline State permitting to accelerate the construction of new transmission lines to get low-cost renewable energy to market, and incentivize wind, solar, and other renewable energy.

As this bill is supported by the 2018 Democratic Party of Hawai'i Platform, we urge you to pass this bill. It purposes to begin transitioning ground transportation to be one hundred per cent zero—emission vehicles in the State by establishing goals for the reduction and ultimate elimination of the use of fossil fuels for ground transportation, including a goal for the State to lead by example by transitioning one hundred per cent of its light—duty motor vehicles by 2035. This measure reflects the legislature's recognition of the challenges of transitioning medium-duty and heavy—duty motor vehicles and the resultant impacts on the feasibility of completely eliminating the use of fossil fuels by 2045.

Please pass this important and overdue legislation . Thank you very much for the opportunity to testify on this key issue.

Respectfully yours,

Alan B. Burdick
Co-Chair, Environmental Caucus
Co-Chair, Natural Resources Committee
Democratic Party of Hawai'i
Email: burdick808@gmail.com

Melodie R. Aduja
Co-Chair, Environmental Caucus
Co-Chair, Human Environmental Impacts Committee
Democratic Party of Hawai'i
Email: legislativepriorities@gmail.com

SB-920-HD-1

Submitted on: 3/20/2021 8:23:01 PM

Testimony for CPC on 3/23/2021 2:00:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Nanea Lo	Individual	Support	No

Comments:

Hello,

My name is Nanea Lo. I'm from Papakāleia, O'ahu currently living in Māhili in my ancestral homelands. I support SB920.

This measure will reduce Hawaii's use of gasoline and internal combustion engines and help show the way to a cleaner vehicle future that will help mitigate the climate crisis. To reach Hawaii's sustainable transportation and climate goals, we have to electrify ground transportation on our islands as soon as possible. Therefore, I urge the original target date of 2030, rather than 2035, be restored to this measure.

SUGGESTED AMENDMENT: I urge that this measure be amended to include a target for **all light-duty vehicles** in the state to be powered by renewable energy sources, not just state agencies.

Support SB920.

me ke aloha 'Āina,

Nanea Lo

SB-920-HD-1

Submitted on: 3/21/2021 7:12:13 AM

Testimony for CPC on 3/23/2021 2:00:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Joan Gannon	Individual	Support	No

Comments:

Aloha Joan here from South Kona asking you to pass SB920. This bill establishes clean ground transportation goals for state agencies to achieve. It is important in reaching Hawaii's sustainable transportation and climate goals. Reduces gasoline use and gives us cleaner air.

Thank you for your work on the climate crisis

Joan Gannon

SB-920-HD-1

Submitted on: 3/21/2021 12:44:16 PM

Testimony for CPC on 3/23/2021 2:00:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
P Noel Bobilin	Individual	Support	No

Comments:

Please support this bill because this measure will reduce Hawaii's use of gasoline and internal combustion engines and help show the way to a cleaner vehicle future that will help mitigate the climate crisis. To reach Hawaii's sustainable transportation and climate goals, we have to electrify ground transportation on our islands as soon as possible. Therefore, I urge the original target date of 2030, rather than 2035, be restored to this measure.

I also urge that this measure be amended to include a target for **all light-duty vehicles** in the state to be powered by renewable energy sources, not just state agencies. Mahalo

SB-920-HD-1

Submitted on: 3/21/2021 12:49:02 PM

Testimony for CPC on 3/23/2021 2:00:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Caroline Kunitake	Individual	Support	No

Comments:

Dear Chair Johanson, Vice Chair Kitagawa and Committee on Consumer Protection and Commerce,

Please support SB920 SD2 HD1 with amendments.

This measure will reduce Hawaii's use of gasoline and internal combustion engines and help show the way to a cleaner vehicle future that will help mitigate the climate crisis. To reach Hawaii's sustainable transportation and climate goals, we have to electrify ground transportation on our islands as soon as possible. Therefore, I urge the original target date of 2030, rather than 2035, be restored to this measure.

SUGGESTED AMENDMENT: I urge that this measure be amended to include a target for **all light-duty vehicles** in the state to be powered by renewable energy sources, not just state agencies.

Thank you for taking the time to review this issue. I appreciate the opportunity to provide testimony in support of this bill.

Mahalo,

Caroline Kunitake

SB-920-HD-1

Submitted on: 3/21/2021 4:48:19 PM

Testimony for CPC on 3/23/2021 2:00:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Gwendellyn Cruise	Individual	Support	No

Comments:

I support SB920. We don't have an option; we must transition to all electric or hydrogen hydrogen fuel-cell cars, and we must do it as soon as possible. The state should be a leader in this by mandating the transition of its own fleet.

SB-920-HD-1

Submitted on: 3/21/2021 6:57:36 PM

Testimony for CPC on 3/23/2021 2:00:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Roseann Michaud	Individual	Support	No

Comments:

We need to help mitigate the climate crisis. To reach Hawaii's sustainable transportation and climate goals, we have to electrify ground transportation on our islands as soon as possible. Therefore, I urge the original target date of 2030, rather than 2035, be restored to this measure.

SB-920-HD-1

Submitted on: 3/21/2021 8:52:49 PM

Testimony for CPC on 3/23/2021 2:00:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Daniela Escontrela	Individual	Support	No

Comments:

This measure will reduce Hawaii's use of gasoline and internal combustion engines and help show the way to a cleaner vehicle future that will help mitigate the climate crisis. To reach Hawaii's sustainable transportation and climate goals, we have to electrify ground transportation on our islands as soon as possible. Therefore, I urge the original target date of 2030, rather than 2035, be restored to this measure.

SUGGESTED AMENDMENT: I urge that this measure be amended to include a target for **all light-duty vehicles** in the state to be powered by renewable energy sources, not just state agencies.

SB-920-HD-1

Submitted on: 3/21/2021 9:09:31 PM

Testimony for CPC on 3/23/2021 2:00:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Elizabeth Hansen	Individual	Support	No

Comments:

Please support this measure and the suggested amendment.

This measure will reduce Hawaii's use of gasoline and internal combustion engines and help show the way to a cleaner vehicle future that will help mitigate the climate crisis. To reach Hawaii's sustainable transportation and climate goals, we have to electrify ground transportation on our islands as soon as possible. Therefore, I urge the original target date of 2030, rather than 2035, be restored to this measure.

SUGGESTED AMENDMENT: I urge that this measure be amended to include a target for **all light-duty vehicles** in the state to be powered by renewable energy sources, not just state agencies.

Mahalo

SB-920-HD-1

Submitted on: 3/21/2021 9:17:35 PM

Testimony for CPC on 3/23/2021 2:00:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Rodger Hansen	Individual	Support	No

Comments:

Please support this measure and the suggested amendment.

This measure will reduce Hawaii's use of gasoline and internal combustion engines and help show the way to a cleaner vehicle future that will help mitigate the climate crisis. To reach Hawaii's sustainable transportation and climate goals, we have to electrify ground transportation on our islands as soon as possible. Therefore, I urge the original target date of 2030, rather than 2035, be restored to this measure.

SUGGESTED AMENDMENT: I urge that this measure be amended to include a target for **all light-duty vehicles** in the state to be powered by renewable energy sources, not just state agencies.

Mahalo

SB-920-HD-1

Submitted on: 3/22/2021 8:47:50 AM

Testimony for CPC on 3/23/2021 2:00:00 PM

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

Comments:

Support with strong recommendation for original target date of 2030 restored.