



HAWAII STATE ENERGY OFFICE STATE OF HAWAII

JOSH GREEN, M.D.
GOVERNOR

MARK B. GLICK
CHIEF ENERGY OFFICER

235 South Beretania Street, 5th Floor, Honolulu, Hawaii 96813
Mailing Address: P.O. Box 2359, Honolulu, Hawaii 96804

Telephone: (808) 587-3807
Web: energy.hawaii.gov

Testimony of
MARK B. GLICK, Chief Energy Officer

before the
SENATE COMMITTEE ON WAYS AND MEANS

Wednesday, March 1, 2023
10:10 AM
State Capitol, Conference Room 211 and Videoconference

Providing COMMENTS on
SB 968, SD 1

RELATING TO TRANSPORTATION.

Chair Dela Cruz, Vice Chair Keith-Agaran, and Members of the committee, the Hawai'i State Energy Office (HSEO) provides comments on SB 968, SD1, which requires the Department of Accounting and General Services (DAGS) to enable parking stall sharing among public employees, accommodate more electric vehicle charging stations, and provide bicycle storage lockers at facilities where parking is made available to public employees. In addition, the bill also requires new public housing developments' parking stalls to accommodate electric vehicle charging stations and bicycle storage lockers. HSEO's comments are guided by its mission to promote energy efficiency, renewable energy, and clean transportation to help achieve a resilient, clean energy, decarbonized economy.

Emissions from ground transportation account for more than half of energy emissions as reported in the Greenhouse Gas Emissions Report for 2017.¹ Vehicle miles traveled (VMT), a metric that correlates with GHG emissions from ground transportation, has increased by over 30% since 2000.² For Hawai'i to meet its statutory target "to sequester more greenhouse gases than emitted as soon as

¹ https://health.hawaii.gov/cab/files/2021/04/2017-Inventory_Final-Report_April-2021.pdf

² <https://dbedt.hawaii.gov/economic/databook/db2021/>

practicable but no later than 2045”, significant reductions in emissions will need to be made in the near to medium term. SB 968, SD1, supports flexible parking options, the provision of electric vehicle charging infrastructure, and secure bike parking, which can reduce VMT from internal combustion engine (ICE) vehicles and associated emissions.

The duties of the Chief Energy Officer per HRS 196-72 to support the clean energy initiative include providing technical assistance to state and county agencies to assess and implement programs related to clean transportation; evaluating, recommending, and participating in the development of programs that encourage clean transportation, and advocating for the State's energy and decarbonization goals at departments to ensure that state energy policies and regulations align with the state strategic goals and are data-driven.

HSEO supports the intent of SB 968, SD1, given HSEO’s responsibilities to advocate for the decarbonization of ground transportation. SB 968, SD1, may be particularly impactful in reducing ICE VMT because the majority of trips taken in Hawai'i are short trips, the ideal trip to be made via walking, biking, rolling, and/or transit. According to the *Drivers of VMT and Priority Reduction Strategies Report for Hawaii*, 30% of all trips made are under 1 mile, 60% of trips made are under 3 miles, and 70% of trips made are under 5 miles.³ By providing secure bike parking for public employees and those living in new public housing developments, people are incentivized to swap short trips in a car for trips that can be made via bike, particularly those 60% of trips that are under 3 miles.

SB 968, SD1, can reduce the cost of transportation for residents who need it the most. After housing, childcare, and food, the cost of transportation in Hawai'i represents the biggest monthly expense for many residents.⁴ While the high costs affect everyone, they especially hit low-income residents. The average cost of owning a

³ “Drivers of VMT and Priority Reduction Strategies for Hawaii.” State Smart Transportation Initiative. 2022.

⁴ <https://www.civilbeat.org/2022/03/why-it-costs-so-much-to-own-a-car-in-hawaii/#:~:text=According%20to%20a%202021%20study,incl%20gas%2C%20maintenance%20and%20insurance.>

vehicle in Hawai'i is \$8,100 annually, or \$675 per month, when factoring in the various costs, including gas, maintenance and insurance.⁵ 80% of Hawai'i households own two or more cars⁶ equating to a \$16,200 annual expense, or about \$1,350 a month for transportation. Providing secure bike parking for public employees and those who will live in new public housing developments will allow people to swap their short trips in a car for those that may be made via bike, reducing gas costs, ICE VMT and potentially the number of cars needed by a household.

Ensuring adequate workplace EV charging is critical to support the growing market for electric passenger vehicles during the time of day when solar energy is most abundant. It also provides an opportunity for residents of multi-unit developments where home charging is more challenging. By enabling public employees to share workplace parking spaces, SB 968, SD1, will also allow parking facilities to be used more efficiently. Shared parking provides employees flexibility and a financial incentive to only drive to work when needed. If parking supply is not increased, shared parking can reduce vehicle miles traveled, emissions, parking facility costs (including aesthetic and environmental impacts), traffic congestion, employee parking costs, and increase transportation choices.⁷

HSEO supports the opportunity for employees to securely park their bikes at their place of employment. The State should prioritize secure bike parking as this is one of the most energy efficient modes of transportation. More people biking to work will result in less traffic congestion, emissions, and transportation costs.

HSEO's stands ready to support DAGS and defers to DAGS regarding funding and implementation.

Thank you for the opportunity to testify.

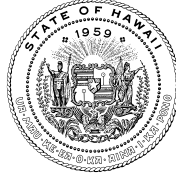
⁵ <https://ulupono.com/news-listing/report-examines-hawaii-s-21-8-billion-vehicle-economy/>

⁶ <https://www.civilbeat.org/2022/03/why-it-costs-so-much-to-own-a-car-in-hawaii/#:~:text=According%20to%20a%202021%20study,includin%20gas%2C%20maintenance%20and%20insurance.>

⁷ <https://www.vtpi.org/tdm/tdm89.htm>

LATE

JOSH GREEN, M.D.
GOVERNOR
KE KIA'ĀINA



KEITH A. REGAN
COMPTROLLER
KA LUNA HO'OMALU HANA LAULĀ

MEOH-LENG SILLIMAN
DEPUTY COMPTROLLER
KA HOPE LUNA HO'OMALU HANA LAULĀ

STATE OF HAWAII | KA MOKU'ĀINA O HAWAII
DEPARTMENT OF ACCOUNTING AND GENERAL SERVICES | KA 'OIHANA LOIHELU A LAWELAWE LAULĀ
P.O. BOX 119, HONOLULU, HAWAII 96810-0119

WRITTEN TESTIMONY
OF
KEITH A. REGAN, COMPTROLLER
DEPARTMENT OF ACCOUNTING AND GENERAL SERVICES
TO THE

COMMITTEE ON WAYS AND MEANS

MARCH 1, 2023, 10:10 AM
CONFERENCE ROOM 211 AND VIA VIDEOCONFERENCE, STATE CAPITOL

S. B. 968, S.D. 1

RELATING TO TRANSPORTATION.

Chair Dela Cruz, Vice Chair Keith-Agaran, and Members of the Committee on Ways and Means, thank you for the opportunity to provide **comments** on S.B.968, S.D. 1 which requires parking stall sharing for public employees, more electric vehicle charging stations, and bicycle storage lockers at parking facilities. While DAGS supports the intent of this bill, we offer the following comments:

1. DAGS does not manage all state public or employee parking. Therefore, DAGS would only be able to implement upgrades or new parking requirements for DAGS-managed parking facilities.
2. DAGS supports carpooling among state employees. We would not be able to track or administer fees and usage by non-state employees.
3. The conversion of all existing parking stalls to be electric vehicle charging ready

will be challenging, and in many cases not feasible, due to the extent of work required to run power infrastructure to each stall. The capacity of the electrical power system to accommodate the additional power demands at each affected facility would also have to be evaluated on a facility-by-facility basis, and provision of funding for any required power system upgrades would be necessary.

4. The provision of bike lockers and the requested variants is worthy of consideration, though the electric bike charging concept needs more review to determine what such systems require before implementing en masse.

In order to best achieve the desired outcomes as effectively and economically as possible, DAGS recommends a collaborative study be completed between the State Energy Office, Office of Planning and Sustainable Development, Hawaiian Electric Company, and all state agencies that administer state employee and public parking facilities to help forecast demand, identify availability of power infrastructure, identify potential parking and bike locker upgrade methodologies and cost estimates, and determine the feasibility of upgrades at the various facilities.

In the interim, DAGS requests that the requirements for new parking stalls to be constructed to accommodate electric vehicle charging, as well as provision of workplace charging stations, be amended to be goals since DAGS Public Works Division (PWD) has been, and continues to be, collaborating with DAGS Automotive Management Division (AMD) to identify facilities to retrofit parking, where feasible. We further request that an amendment be made to identify two bicycle storage lockers be constructed in locations where most feasible. Based on our preliminary research, we've determined

that the approximate cost for a single secured bicycle locker, with card access and charging capability for e-bikes and micro-mobility devices, to be \$80K-90K per locker. We recognize that there may be less expensive options, such as providing basic locking racks without charging, and are willing to explore those options if the committee sets that direction for the department.

Please also note that work is currently underway to upgrade lighting and install security cameras in and around DAGS-managed parking facilities that will be monitored by the State Sheriffs for added security and enforcement.

Thank you for this opportunity to testify on this matter.

SB-968-SD-1

Submitted on: 2/27/2023 8:35:59 PM

Testimony for WAM on 3/1/2023 10:10:00 AM

Submitted By	Organization	Testifier Position	Testify
Ted Bohlen	Testifying for Climate Protectors Hawaii	Support	Written Testimony Only

Comments:

STRONG SUPPORT!



ADDRESS
3442 Waiālae Ave., Suite 1
Honolulu, HI 96816

PHONE
808-735-5756

EMAIL
bicycle@hbl.org

SENATE COMMITTEE ON WAYS AND MEANS
Wednesday, March 1, 2023 – 10:10am

Hawai'i Bicycling League supports SB968 SD1, Relating to Transportation

Aloha Chair Dela Cruz, Vice Chair Keith-Agaran, and Committee Members,

My name is Travis Counsell, and I am the Executive Director of the Hawai'i Bicycling League (HBL). We are a non-profit organization founded in 1975 with the mission of enabling more people to ride bicycles for health, recreation, and transportation. We strive to create communities across our islands that have safe, accessible, and inclusive environments for people to bike, walk, and roll. This means creating infrastructure that is designed for all users with safety as a top priority.

Hawai'i Bicycling League strongly supports SB968 SD1, requires the Department of Accounting and General Services to collaborate with the Department of Transportation to enable parking stall sharing among public employees, accommodate more electric vehicle charging stations, and provide bicycle storage lockers at facilities where parking is made available to public employees. Requires new public housing developments' parking stalls to accommodate electric vehicle charging stations and bicycle storage lockers.

HBL is focused on the bicycle parking components of this bill. Safe and secure bike parking is a frequent concern of people who ride bicycles, and often cited as a reason people do not ride a bike to work or for errands. This bill would provide for bicycle storage lockers at public parking areas for public employees, as well as at public housing developments. Bicycle storage lockers provide safe and secure storage and drastically reduce bicycle theft. This bill would help to reduce the perceived barriers that prevent people from riding bicycles for health, recreation, and transportation.

Mahalo for the opportunity to provide testimony. Please support SB968 SD1 and support better bicycle parking options.

Ride Aloha,

Travis L. Counsell
Executive Director
Hawai'i Bicycling League



Email: communications@ulupono.com

SENATE COMMITTEE ON WAYS & MEANS
Wednesday, March 1, 2023 — 10:10 a.m.

Ulupono Initiative supports SB 968 SD1, Relating to Transportation.

Dear Chair Dela Cruz 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 choices, and better management of freshwater resources.

Ulupono supports SB 968 SD1, which requires the Department of Accounting and General Services to collaborate with the Department of Transportation to enable parking stall sharing among public employees, accommodate more electric vehicle charging stations, and provide bicycle storage lockers at facilities where parking is made available to public employees. This bill also requires new public housing developments' parking stalls to accommodate electric vehicle charging stations and bicycle storage lockers.

Given the State's existing commitments in cleaner forms of transportation to meet climate change, active-living, and Vision Zero goals, it is imperative that the State lead the way. As one of the largest employers in Hawai'i, our State government can be a national leader in enabling and encouraging clean transportation options across its workplaces.

Ulupono also believes that this legislation is an opportunity to evaluate the potential of State properties to more comprehensively support sustainable transportation choices. We therefore respectfully request amending the bill to include assessing properties' potential across all modes of travel, including in the following:

- **Pedestrian Access**—Ensuring safe, convenient and comfortable walking routes, both in parking areas as well as entry areas for those using walking as a primary mode, can make all the difference between merely providing basic walking access and creating a strong pedestrian environment that encourages walking to and throughout a workplace.
- **Additional Bicycling Accommodations**—In addition to secure parking, it would also be useful to consider some additional end-of-trip amenities such as showers/locker

Investing in a Sustainable Hawai'i

room options, bike wash options, and repair locations. We realize not all of these are possible at all locations, but they would be worth assessing in government office clusters. In addition, we recommend exploring opportunities to provide additional Biki access, particularly for State buildings in downtown Honolulu.

- Transit Support—Providing some additional transit fare support is one option, but another is investing in real-time transit data information resources for employees and other residents, such as digital and physical wayfinding systems. Great examples of such resources are available in the City's Frank F. Fasi Municipal Building.

Again, we think this bill is a tremendous opportunity for the State to lead the way toward a multimodal future that provides more clean transportation choices for Hawai'i residents.

Thank you for the opportunity to testify.

Respectfully,

Micah Munekata
Director of Government Affairs

LATE

Big Island Electric Vehicle Association
hawaiidriveelectric@gmail.com
bigislandev.org



February 28, 2023

SUPPORT for SB968 SD1 - RELATING TO TRANSPORTATION

Dear Chair Dela Cruz, Vice Chair Keith-Agaran, and Committee Members,

Big Island EV Association supports SB968 SD1, which "Requires the Department of Accounting and General Services to enable parking stall sharing among public employees, accommodate more electric vehicle charging stations, and provide bicycle storage lockers at facilities where parking is made available to public employees. Requires new public housing developments' parking stalls to accommodate electric vehicle charging stations and bicycle storage lockers."

SB968 SD1 will encourage carpooling and bicycling. These will reduce traffic and local air pollution, optimize transportation costs for our community, and promote active transportation.

Notably, the provision for electric vehicle-ready parking stalls in new construction will future-proof our infrastructure and increase the availability of public electric vehicle charging equipment, a key to a broader and more equitable adoption of electric vehicles.

Thank you for this opportunity to testify in support of SB968 SD1.

Sincerely,

A handwritten signature in black ink, appearing to read 'Noel Morin', with a long horizontal line extending to the right.

Noel Morin - President

Big Island Electric Vehicle Association (bigislandev.org), established in 2011, is a grassroots non-profit group dedicated to accelerating EV adoption in Hawaii Island. Our members are EV owners and supporters.



LATE

To: The Senate Committee on Ways and Means (WAM)
From: Sherry Pollack, Co-Founder, 350Hawaii.org
Date: Wednesday, March 1, 2023, 10:10 am

In support of SB968 SD1

Aloha Chair Dela Cruz, Vice Chair Keith-Agaran, and WAM 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 SB968 SD1** that requires the Department of Accounting and General Services to collaborate with the Department of Transportation to enable parking stall sharing among public employees, accommodate more electric vehicle charging stations, and provide bicycle storage lockers at facilities where parking is made available to public employees. This measure further requires new public housing developments' parking stalls to accommodate electric vehicle charging stations and bicycle storage lockers.

SB968 SD1 will encourage alternative means of transportation, including carpooling, electric vehicles and bicycles. This will not only reduce traffic, but also climate-destroying greenhouse gas emissions.

The provision of more electric vehicle charging stations for public employees, and for electric vehicle-ready parking stalls in new public housing construction, will help residents and employees adopt EVs, and as a result, accelerate our transition to a clean energy future. It is also important to note that wiring during construction avoids future costly retrofits. Low-income residents should not be forced to pay expensive retrofit costs later when ground transportation has shifted to electric vehicles—a transition that is already well underway.

SB968 SD1 offers effective policies that are needed to reduce carbon emissions from ground transportation in Hawaii. Please support and pass this important measure.

Mahalo for the opportunity to testify.

Sherry Pollack
Co-Founder, 350Hawaii.org

LATE

SB-968-SD-1

Submitted on: 2/28/2023 8:11:00 PM

Testimony for WAM on 3/1/2023 10:10:00 AM

Submitted By	Organization	Testifier Position	Testify
Sonja Kass	Testifying for KauaiEV	Support	Written Testimony Only

Comments:

Aloha,

KauaiEV strongly supports *SB968 SD1*.

More electric vehicle charging stations and bicycle storage lockers will help to decarbonize transportation.

Mahalo

Sonja Kass

LATE

SB-968-SD-1

Submitted on: 2/28/2023 2:03:20 PM

Testimony for WAM on 3/1/2023 10:10:00 AM

Submitted By	Organization	Testifier Position	Testify
Minister, Hector Hoyos (aka) SisterFace	Individual	Support	Written Testimony Only

Comments:

I Support

LATE

SB-968-SD-1

Submitted on: 2/28/2023 5:26:09 PM

Testimony for WAM on 3/1/2023 10:10:00 AM

Submitted By	Organization	Testifier Position	Testify
Peter Sternlicht	Individual	Support	Written Testimony Only

Comments:

I support the passage of this bill.

LATE

SB-968-SD-1

Submitted on: 2/28/2023 6:01:35 PM

Testimony for WAM on 3/1/2023 10:10:00 AM

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

Comments:

Members of the WAM Committee,

I support SB968 SD1.

SB968 SD1 will encourage carpooling and bicycling. These will reduce traffic and local air pollution, optimize transportation costs for our community, and promote active transportation.

- Adequate public charging is a MUST for the democratization of transportation. While many in our community benefit from home EV charging, many of our residents live in apartments, condos, or rentals and don't have this convenience.
- To adopt electric cars, they must have access to a reliable and ubiquitous public charging network.
- Electric vehicle-ready parking stalls in new construction will future-proof our infrastructure and increase the availability of public electric vehicle charging equipment, a key to a broader and more equitable adoption of electric vehicles.

Mahalo for this opportunity to testify

Virginia Tincher, Oahu

SB-968-SD-1

Submitted on: 2/28/2023 8:44:16 PM

Testimony for WAM on 3/1/2023 10:10:00 AM



Submitted By	Organization	Testifier Position	Testify
Diane Ware	Individual	Support	Written Testimony Only

Comments:

Dear Chair WAM and Committee Members,

My name is Diane Ware and I live in the Moku of Ka'u. I care deeply about the climate sustainability, pollution and future generations. For these reasons I strongly *support SB968 SD1*.

SB968 SD1 will encourage carpooling and bicycling. These will reduce traffic and local air pollution, optimize transportation costs for our community, and promote active transportation.

Furthermore Adequate public charging is a MUST for the democratization of transportation. While many in our community benefit from home EV charging, many of our residents live in apartments, condos, or rentals and don't have this convenience.

- To adopt electric cars, they must have access to a reliable and ubiquitous public charging network.
 - Electric vehicle-ready parking stalls in new construction will future-proof our infrastructure and increase the availability of public electric vehicle charging equipment, a key to a broader and more equitable adoption of electric vehicles.
- Mahalo for the opportunity to comment at the hearing level.

SB-968-SD-1

Submitted on: 2/28/2023 9:37:49 PM

Testimony for WAM on 3/1/2023 10:10:00 AM

LATE

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

Comments:

This is only one of many bills that are needed to advance our electric transportaion goals for the state... Your support is appreciated...

Lorn DOuglas

Lower Puna

SB-968-SD-1

Submitted on: 2/28/2023 10:20:51 PM

Testimony for WAM on 3/1/2023 10:10:00 AM

LATE

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

Comments:

I am a voter who lives in Hilo. Public charging is a must for the democratization of transportation. While many in our community benefit from home EV charging, many of our residents live in apartments, condos, or rentals and don't have this convenience.

To adopt electric cars, they must have access to a reliable and ubiquitous public charging network.

Electric vehicle-ready parking stalls in new construction will future-proof our infrastructure and increase the availability of public electric vehicle charging equipment, a key to a broader and more equitable adoption of electric vehicles.

Thank you for the opportunity to testify in support of SB968.

SB-968-SD-1

Submitted on: 3/1/2023 5:11:45 AM

Testimony for WAM on 3/1/2023 10:10:00 AM



Submitted By	Organization	Testifier Position	Testify
Jennifer Lieu	Individual	Support	Written Testimony Only

Comments:

Aloha, I support SB968 SD1.

SB968 SD1 will encourage carpooling and bicycling. These will reduce traffic and local air pollution, optimize transportation costs for our community, and promote active transportation.

- Adequate public charging is a MUST for the democratization of transportation. While many in our community benefit from home EV charging, many of our residents live in apartments, condos, or rentals and don't have this convenience.
- To adopt electric cars, they must have access to a reliable and ubiquitous public charging network.
- Electric vehicle-ready parking stalls in new construction will future-proof our infrastructure and increase the availability of public electric vehicle charging equipment, a key to a broader and more equitable adoption of electric vehicles.