

SB 695 Building Code - Construction and Significan

Uploaded by: Cait Kerr

Position: FAV

Monday, March 4, 2024

TO: Brian Feldman, Chair of the Senate Education, Energy, and the Environment Committee, and Committee Members

FROM: Cait Kerr, The Nature Conservancy, State Policy Manager; Mariana Rosales, The Nature Conservancy, Director of Climate

POSITION: Support SB 695 Building Code - Construction and Significant Renovation of Housing Units - Electric Vehicle Parking Spaces

The Nature Conservancy (TNC) supports SB 695, offered by Senator Feldman. SB 695 will set requirements for EV charging parking availability for new or significantly renovated multifamily residential buildings. This bill is consistent with the Maryland Commission on Climate Change's (MCCC) recommendation in the 2023 Annual Report to require new and existing multifamily buildings to meet EV-ready standards and to install EV chargers accessible to building tenants.

As a member of the Mitigation Working Group and the Zero Emissions Vehicles Sub Group, TNC provided funding for a study to examine and design program recommendations for accelerating light-duty zero emission vehicle adoption in Maryland. We recognize that increasing access to EV charging equipment across the state is essential for transitioning the transportation sector to electric.

Population density in multifamily housing developments is high. Multifamily housing also tends to be more affordable than single-family housing. Establishing precise requirements for EV charging parking for housing units can vastly increase access to charging infrastructure and remove barriers for prospective EV buyers living in multifamily housing.

The EV market is expanding – an increasing number of customers are interested in purchasing cleaner and healthier transportation options. Accessible charging infrastructure is necessary to keep up with increasing demand and attract new potential buyers from various geographic regions that may not have previously had reliable access to charging equipment. SB 695 will make EV ownership less challenging for those with limited access to charging infrastructure.

TNC commends Senator Feldman on introducing this bill, which addresses a current obstacle to EV ownership and seeks to expand access to EV charging equipment for multifamily housing residents.

Therefore, we urge a favorable report on SB 695.

BGE-FAV-EEE-SB695-Building Code - Construction and

Uploaded by: Charles Washington, Vice-President of Government & Externa

Position: FAV

Support
Education, Energy, and the
Environment
3/4/2024

Senate Bill 695 - Building Code - Construction and Significant Renovation of Housing Units - Electric Vehicle Parking Spaces

Baltimore Gas and Electric Company (BGE) supports *Senate Bill 695 – Building Code – Construction and Significant Renovation of Housing Units – Electric Vehicle Parking*. *Senate Bill 695* will continue the push for the installation of electric vehicle charging infrastructure, which will lead to more electric vehicles on Maryland roads, effectively expanding the use of zero-emission vehicles in the state. This, in turn, will be essential to achieving Maryland’s climate and air quality goals.

Specifically, this bill would require the installation of electric vehicle charging equipment during the construction of or significant renovation of all housing units that have separate garages, carports, or driveways for each residential unit. It will also require a greater number of electric vehicle (EV) parking places under certain circumstances.

Maryland is concerned about its ability to meet the ambitious goal of having 300,000 zero-emission vehicles on the road by 2025. Currently, there are approximately 95,000 electric vehicles in Maryland, with about 55,000 in the BGE Service Territory. About 205,000 additional charging stations are needed to meet the EV charging demand goal. Expanding policies to boost EV adoption is crucial to meeting on-road targets. The construction mandates in *Senate Bill 695* will help support Maryland’s policies to broaden the adoption of electric vehicles and ensure that Marylanders have adequate access to charging stations.

BGE is a cooperative partner of Maryland’s goals. In support of the State’s goals, BGE launched the EVsmart Program. Since the launch of the EVsmart Program, BGE has educated consumers, installed 331 public chargers, and has plans to install 169 additional public stations in the near future. In addition, in conjunction with *Senate Bill 695*, BGE’s EVsmart Program could help to mitigate the costs of implementation as the program incentivizes the installation of charging infrastructure at multi-unit dwelling properties.

BGE is committed to helping Maryland achieve its electric vehicle goals. Accordingly, we support this legislation and respectfully request a favorable committee report.

BGE, headquartered in Baltimore, is Maryland’s largest gas and electric utility, delivering power to more than 1.3 million electric customers and more than 700,000 natural gas customers in central Maryland. The company’s approximately 3,400 employees are committed to the safe and reliable delivery of gas and electricity, as well as enhanced energy management, conservation, environmental stewardship and community assistance. BGE is a subsidiary of Exelon Corporation (NYSE: EXC), the nation’s largest energy delivery company.

MD SB 695 Support - building codes.pdf

Uploaded by: Craig Orlan

Position: FAV



American Honda Motor Co., Inc.
1001 G Street, N.W. Suite 950
Washington, D.C. 20001
Phone (202) 661-4400
Fax (202) 661-4459

March 4, 2024

The Honorable Brian Feldman
Maryland Senate Education, Energy and the Environment Committee
2 West Miller Senate Office Building
11 Bladen Street
Annapolis, MD 21401

Re: SB 695 (Feldman) Building Codes: SUPPORT

Dear Chairman Feldman:

Thank you for the opportunity to express Honda's strong support for SB 695, which would revise the state building codes to ensure that newly built housing units, and those undergoing significant and relevant renovations are able to support the installation of level two electric vehicle charging infrastructure. Like many automakers Honda is rapidly working to electrify our automotive fleet. We have an ambitious goal to have 100% EV sales globally by 2040, but reaching this goal will require public support, and we greatly appreciate your leadership on this issue.

The U.S. Department of Energy recently released a study showing that over 80% of EV charging happens at home. This means that if Maryland is going to achieve its goal of having all new passenger cars and trucks sold in the state be zero-emission vehicles by 2035, consumers will need access to charging infrastructure in their homes that is safe, fast and cost effective. This bill makes sense because it is significantly cheaper and easier to make both single family homes and multi-unit dwellings EV ready while they are being built or already undergoing renovations. In the coming years, as EV adoption grows, this legislation will save countless Marylanders from having to undergo potentially expensive and intrusive work to make their homes EV ready while potentially significantly increasing the values of those properties.

Thank you for your time and consideration of our position. Honda is proud of our relationship with Maryland, which is home to over 200 authorized Honda and Acura dealerships that employ more than 3,100 people, providing Maryland consumers with a wide range of products that utilize the latest environmental and safety technologies. For more information on Honda's presence in the United States or our safety leadership, please visit www.hondainamerica.com or follow us on "X" formerly known as Twitter at @HondainAmerica.

Sincerely,

Craig Orlan
Director of State and Local Government Affairs
American Honda Motor Co.

Testimony SB695 EV Parking Spaces.pdf

Uploaded by: Debbie Cohn

Position: FAV

Committee: Education, Energy and the Environment
Testimony on: SB695 – Building Code-Construction and Significant Renovation of Housing Units – Electric Vehicle Parking Spaces
Submitting: Deborah Cohn
Position: Favorable
Hearing Date: March 4, 2024

Dear Chair Feldman and Committee Members:

Thank you for allowing my testimony today in support of SB695. I am concerned that Maryland reduce its greenhouse gas emissions in a manner that is equitable and permits more people to participate in necessary changes. I urge you to vote favorably on SB695.

Problem: Maryland's Climate Pollution Reduction Plan indicates that “to achieve deeper [greenhouse gas] reductions from the transportation sector, it will be necessary to transition much of the light-duty fleet to [zero-emission vehicles] by 2031. Yet, sales of electric vehicles have slowed down. Many factors contribute, but among these are having to adapt driving habits to find EV chargers that often do not work and range anxiety.

Solution: Both of these factors can be addressed by installing more EV chargers where people live. SB695 adds Public Safety Article §12-205(c) which applies to construction or significant renovation of housing units that include, or will include, on-site, off-street, common use parking, requiring that these housing units include for every 25 residents at least one common use parking space with electric vehicle supply equipment (EVSE) that is fully installed from the electric panel to the parking space and at least one EVSE-installed parking space that can provide at least Level 2 charging in a common use parking area, and increasing percentages of EV-ready parking spaces dedicated to specific residential units or for common use, depending on the date of the development or building permit application.

Because SB695 would increase the supply of EV charging stations in multifamily housing, I urge a **FAVORABLE** report in Committee.

Thank you.

Deborah A. Cohn

SB 695 MDE SUP.pdf

Uploaded by: Jeremy D. Baker

Position: FAV



The Maryland Department of the Environment
Secretary Serena McIlwain

Senate Bill 695

***Building Code - Construction and Significant Renovation of Housing Units - Electric
Vehicle Parking Spaces***

Position: Support
Committee: Education, Energy, and the Environment
Date: March 4, 2024
From: Hadley Anthony

The Maryland Department of the Environment (MDE) **SUPPORTS** SB 695.

Bill Summary

Senate Bill 695 sets requirements for new or significantly renovated residential housing units to include at least one Level 2 charger installed parking space available for use by all residents and a specific number of electric vehicle (EV)-ready parking spaces dedicated to specific residential units or for common use. The bill changes the definition of “housing” unit to include multifamily residential buildings. The bill defines “significant renovation” as a renovation to a housing unit that includes electrical panel upgrades that increase the capacity of the panel or parking upgrades that involve repaving or trenching in or around parking spaces. The bill also authorizes a county or municipality to require the construction of housing units to include a greater number of electric vehicle supply equipment (EVSE)-installed parking spaces or EV-ready parking spaces than the bill requires under.

Position Rationale

Senate Bill 695 would remove barriers to growing Maryland’s technology infrastructure and ensure that all residents, including those who reside in multifamily residential buildings, can affordably and easily charge their EV at home. At-home EV charging is crucial for widespread adoption of EVs. It's widely known that the majority of personal vehicle charging occurs at night, at home. The bill would help to guarantee that more Marylanders, including residents in multifamily settings, have accessible charging infrastructure either within their buildings, or in nearby communities. This commitment enhances overall accessibility and convenience, contributing to the broader goal of promoting electric vehicle ownership throughout Maryland.

Accordingly, MDE asks for a **FAVORABLE** report for SB 695.

Maryland SB 695 - EV Building Codes - Favorable .p

Uploaded by: Joshua Fisher

Position: FAV



February 28, 2024

The Honorable Brian Feldman
Chair, Senate Education, Energy, and the Environment Committee
Annapolis, Maryland 21401

**SB 695: Building Code - Construction and Significant Renovation of Housing Units -
Electric Vehicle Parking Spaces
Position: Favorable**

Chair Feldman:

The Alliance for Automotive Innovation¹ (Auto Innovators) requests a favorable report for SB 695 and we appreciate your continued leadership on this important issue. SB 695 builds on critical legislation from the 2023 session and will extend necessary electric vehicle (EV) charging to residents at multi-unit dwellings.

Commitment to Net-Zero Carbon Transportation

Auto Innovators and its members are committed to achieving a net-zero carbon transportation future for America's cars and light trucks. The auto industry is investing \$1.2 trillion globally by 2030 to advance vehicle electrification and will increase the number of EV models available from 111 today to around 150 by model year (MY)2026². In August of 2021, Auto Innovators and our members announced support for a goal of achieving 40-50 percent U.S. new light-duty vehicle market share of EVs nationally by 2030, with the right complementary policies in place.

Current State-of-Play

Maryland EVs sales comprised 11% percent of new vehicles sales through the first three quarters of 2023³. The challenge of reaching the California Air Resource Board (CARB) ACC II mandate of 100 percent electric vehicle market share by 2035, requires Maryland to address several hurdles to consumer acceptance.

The ACC II regulations require very aggressive increases in EV sales starting with MY2027 when 43% of all new vehicles delivered to Maryland car dealers will be EVs. That means, in Maryland, EV sales must increase more than four-fold in about two model years. These are

¹ From the manufacturers producing most vehicles sold in the U.S. to autonomous vehicle innovators to equipment suppliers, battery producers and semiconductor makers – Alliance for Automotive Innovation represents the full auto industry, a sector supporting 10 million American jobs and five percent of the economy. Active in Washington, D.C. and all 50 states, the association is committed to a cleaner, safer and smarter personal transportation future. www.autosinnovate.org.

² [EVs, PHEVs hitting U.S. dealerships through 2026 | Automotive News \(autonews.com\)](https://www.autosinnovate.org/posts/papers-reports/get-connected-q3-2023)

³ <https://www.autosinnovate.org/posts/papers-reports/get-connected-q3-2023>

staggering required sales increases for a new technology that relies heavily on customer acceptance and market readiness.

Based on the average transaction price of EVs, EV buyers are far more likely to be affluent single-family homeowners with modern electric panels just a few feet from their garage where they will charge their EVs. These buyers do not represent a full cross-section of Maryland's new car buyers, and achieving even 30, 70, or 100 percent of the new car market will require reaching buyers of more moderate means. It will also require action well beyond automakers' ability to produce more EVs.

The Time to Act is Now

According to the U.S. Department of Energy, roughly 80% of EV charging occurs at home, making access to home charging a top priority for customers considering an EV. Lack of access to home charging is a major barrier to EV adoption. As a first and most cost-effective step, states should immediately begin adopting residential building codes to require EV-ready charging capabilities in parking spots in new multi-unit dwellings (MUDs).

According to BestPlaces.net⁴, the median residential unit age in Maryland is 43 years. Housing being built today will likely be around through at least 2050 or 2060. Consequently, if EV charging infrastructure is not installed as a new construction, it will need to be a retrofit installation afterwards which is a costly endeavor.

MUD Residents Should be Able to Charge at Home

While most charging occurs at home, MUD residents often face the most costly and burdensome obstacles to installing residential EV charging. For MUD residents, the additional costs to upgrade the electrical panel, install conduit between the electrical panel and their parking space, and the logistical challenges of securing building owner approval, coordinating the billing with the building owner, and persuading an owner to make a long-term investment on a rental property, make it nearly impossible to be an EV driver in a MUD.

Nonetheless, some suggest that while those in single family homes can charge at home, MUD residents can simply charge elsewhere, such as DC fast charge stations or public chargers. Not only is this patently unfair it also raises equity and access concerns for some communities where MUDs are the dominant housing option due to cost or geography. Ensuring access for all communities should be a priority particularly those that have been traditionally underserved.

Charging at home is far cheaper, far more convenient, and far more reliable. It would be unreasonable to expect MUD residents to pay 2 or 3 times as much for charging and spend hours away from home each week just to charge their vehicles. This will lead them away from EVs and is not consistent with Maryland's stated goals.

⁴ <https://www.bestplaces.net/housing/state/maryland>

Updating Codes Will Save Money

Numerous studies show the costs to retrofit EV charging is several times more expensive than installing it during new construction.⁵ In fact, compared to the cost of a new residential unit, the cost of installing even 208/240v 7.2 kW EV Ready charging is relatively small and typically well under \$2,000 per charging station.⁶ Compare this to the California Public Utilities Commission's approval of ratepayers funding up to \$15,000 per charger make-ready to retrofit charging stations at MUDs.⁷

Failing to update building codes that do not adequately plan for 100 percent EVs, does not help long-term housing affordability. Instead, it trades small savings today for vastly higher costs down the road. Moreover, these higher costs will be borne by MUD residents (or ratepayers). To the extent MUD residents are lower income, this further exacerbates inequities and widens economic divides.

The California Energy Commission (CEC) summarizes this well in their most recent study (January 2021)⁸:

Building codes are often a cost-effective tool to support state policy, ensure equitable outcomes, and reduce barriers to adoption. Increased charging options at MUDs are needed to ensure that all Californians have access to convenient charging. This is all too often an issue at apartments, condos, and for renters where the motivations of tenants and landlords do not always align. Building codes that address new construction as well as major renovations to existing buildings such as when new parking is added or during repaving of an existing parking lot can materially address the EV charging infrastructure gap.

EV Ready

In using the term, "EV Ready" we mean panel capacity, breaker installed, with wiring to the parking spot terminating in either a receptacle or EV charger. MUD residents (in many cases, renters) cannot be expected to bear the significant costs and coordination responsibility associated with obtaining landlord permission, local permitting, and hiring contractors to install

⁵ For example, see Pike, Ed, Jeffery Steuben, Shayna Hirshfield. 2020. City of Oakland Plug-in Electric Vehicle Readiness Grant. California Energy Commission. Publication Number: CEC-600-2020- 116.

⁶ Id. See Table

⁷ See CPUC Decision 20-08-045 "Decision Authorizing Southern California Edison Company's Charge Ready 2 Infrastructure And Market Education Programs," August 27, 2020.

⁸ Crisostomo, Noel, Wendell Krell, Jeffrey Lu, and Raja Ramesh. January 2021. Assembly Bill 2127 Electric Vehicle Charging Infrastructure Assessment: Analyzing Charging Needs to Support Zero-Emission Vehicles in 2030. California Energy Commission. Publication Number: CEC-600-2021-001.

breakers, wiring, and chargers. This is unlikely to happen, and residents need access to charging to realize Maryland's EV goals.

Conclusion

Passing SB 695 aligns with, and will support, Maryland's climate and transportation goals. The bill will also save Maryland residents money while ensuring they have access to EV charging in the future. Thank you in advance for your consideration of our views. For more information, please contact our local representative, Bill Kress, at (410) 375-8548.

Sincerely,

A handwritten signature in black ink that reads "Josh Fisher". The signature is written in a cursive style with a large, sweeping initial "J".

Josh Fisher
Director, State Affairs
Alliance for Automotive Innovation

SB0695 (HB0889) - FAV .pdf

Uploaded by: Landon Fahrig

Position: FAV



Maryland

Energy Administration

TO: Chair Feldman, Vice Chair Kagan, and Members of the Education, Energy, and the Environment Committee

FROM: MEA

SUBJECT: SB 695 - Building Code - Construction and Significant Renovation of Housing Units - Electric Vehicle Parking Spaces

DATE: March 4, 2024

MEA Position: FAVORABLE

This bill proposes that any new construction or a building undergoing significant renovation without a separate garage, carport, or driveway for each residential unit should have at least one EVSE-installed parking space with at least a level 2 charger or one EV-ready parking space. The bill proposes one common-use EVSE-installed parking space for every 25 units for construction or significant renovation with common-use parking. The bill also makes provisions for the minimum percentages of EV-ready spaces for developments depending on the date that the development application or building permit application is made

MEA is supportive of the bill. MEA recently released a study that highlighted the significant challenges associated with installing EVSE in multifamily buildings.¹ It is estimated that installing EVSE in 10% of parking spaces in Multifamily buildings could cost as much as \$1.5 billion, rising higher if EVSE is installed in 30% of multifamily building parking spaces. Accordingly, it is key that EVSE be integrated into multifamily developments when it is least expensive to do so (i.e. during construction or significant renovation).

According to Maryland's Climate Pollution Reduction Plan, the “transportation sector accounted for 35% of Maryland’s GHG emissions in 2020 with most emissions (82%) in this sector coming from on-road vehicles powered by gasoline or diesel”... but “[t]o achieve deeper reductions from the transportation sector, it will be necessary to transition much of the light-duty fleet to [zero-emission vehicles] by 2031 and increase the use of other modes of transportation, including public transportation and micro-mobility options.” Additionally, “[t]o accomplish Maryland’s goal for rapid growth in the number of ZEVs on Maryland’s roads, building out a robust [zero-emission vehicle] infrastructure network is critical.

Historically, it has been difficult to build out that robust EV infrastructure for low- to moderate-income Marylanders, as they are more likely to live within a multifamily development. This bill would

¹ energy.maryland.gov/Reports/Multifamily%20Residential%20EV%20Study.pdf

assist in the deployment of EVSE by requiring a certain level of adoption in developments either during construction or when undergoing significant renovation.

For these reasons, MEA urges the committee to issue a **favorable report**.

Our sincere thanks for your consideration of this testimony. For questions or additional information, please contact Landon Fahrig, Legislative Liaison, directly (landon.fahrig@maryland.gov, 410.931.1537).

SB695_2024_Hartmann.pdf

Uploaded by: Lanny Hartmann

Position: FAV

SB 695 — Building Code - Construction and Significant Renovation of Housing Units -
Electric Vehicle Parking Spaces
Position: **Favorable**

March 4, 2024

The Honorable Brian J. Feldman
Chair, Education, Energy and the Environment Committee
Senate Office Building
Annapolis, MD 21401

Dear Chairman Feldman and Members of the Committee:

I am writing to express my enthusiastic support for Senate Bill 695, which aims to establish requirements for the installation of electric vehicle (EV) charging equipment during the construction or significant renovation of housing units.

As Maryland ranks among the top ten states nationally for EV adoption, it is crucial that we proactively address the growing demand for EV charging infrastructure. Senate Bill 695 presents an invaluable opportunity to future-proof our residential buildings and ensure that Maryland residents have access to convenient, affordable, and reliable charging options.

By encouraging the inclusion of EV charging infrastructure in new multifamily residential buildings and significant renovations, this bill will facilitate easier adoption of EVs for homeowners and also support the growth of clean transportation.

It is essential to prioritize the installation of conduit and panel space for electric vehicle charging during construction to minimize future retrofitting costs. This will help ensure access to low-cost residential utility rates by directly wiring EV spaces to home meters.

In conclusion, I urge you to support Senate Bill 695 and help advance this critical initiative. By doing so, we can take a significant step towards building a more sustainable future for Maryland. I respectfully ask the committee to provide a favorable report on Senate Bill 695.

Thank you for considering my perspective.

Sincerely,



Lanny Hartmann
Columbia, Maryland

SB695_MDSierraClub_4Marc2024 .docx.pdf

Uploaded by: Lindsey Mendelson

Position: FAV



P.O. Box 278
Riverdale, MD 20738

Committee: Energy, Education, and Environment

Testimony on: SB 695- Building Code – Construction and Significant Renovation of Housing Units – Electric Vehicle Parking Spaces

Position: Support

Hearing Date: March 4, 2024

The Maryland Chapter of the Sierra Club supports SB 695. The bill would extend EV ready building codes to the new construction and significant renovation of multi-family units. This bill would require that for every 25 residential units in a multi-family complex, there be at least one Electric Vehicle Supply Equipment (EVSE)-installed parking space and an increasing percentage of EV-Ready parking spaces between 2024 and 2035 for newly constructed homes.

Equitable building codes will help to provide residents of multi-family units (who are more likely to be low-income residents or People of Color) with access to electric vehicle charging. Studies have found that at-home and employee charging is typically much cheaper (and more convenient) than public charging.¹

The transportation sector accounted for 35% of Maryland’s greenhouse gas emissions in 2020, with most emissions (82%) in this sector coming from on-road vehicles powered by gasoline or diesel. Therefore, it is imperative that we support residents’ transition toward utilizing clean modes of transportation. The Maryland Department of Transportation’s 2024 Annual Attainment Report on Transportation System Performance included a goal of 1.1 million electric vehicles being registered in Maryland by 2030. This bill would support the requirements of the Advanced Clean Cars II program that are needed to meet our climate targets.

SB 695 makes an important contribution in encouraging and supporting Maryland residents with all levels of resources who want to move away from using gasoline-powered cars for their transportation needs. We urge the Committee to provide a favorable report. Finally, we also encourage the Committee to consider increasing, over time, the requirements for providing on-site charging sites to residents of existing multi-family housing.

Lindsey Mendelson
Transportation Representative
Lindsey.mendelson@mdsierra.org

Josh Tulkin
Chapter Director
Josh.Tulkin@MDSierra.org

Karen Douglas
Transportation Committee Member
douglasdouglas@verizon.net

¹ <https://www.consumerreports.org/hybrids-evs/evs-offer-big-savings-over-traditional-gas-powered-cars/>

Maryland SB 695 testimony (2024) - written Final.p

Uploaded by: Matthew Chen

Position: FAV



March 1, 2024

The Hon. Brian J. Feldman
Chair, Education, Energy & The Environment Committee
Senate of Maryland
Miller Senate Office Building, 2 West Wing
11 Bladen St.
Annapolis, MD 21401 - 1991

Re: Written Testimony to Support SB 695 (2024)

*Building Code - Construction and Significant Renovation of Housing Units -
Electric Vehicle Parking Spaces*

Dear Chair Feldman, Vice Chair Kagan, and Members of the Committee:

Blink Charging Company respectfully offers its support for Senate Bill 695 on Building Code - Construction and Significant Renovation of Housing Units - Electric Vehicle Parking Spaces.

Blink is a global leader in the electric vehicle charging industry with more than 50 employees working from our production facility and corporate offices in Bowie, Maryland. We have deployed more than 1,900 chargers across Maryland and are one of three vendors for the U.S. Postal Service's nationwide fleet electrification program. Blink's principal line of products and services includes the Blink EV charging network, charging equipment, and charging services. In March, Blink will open its new manufacturing facility in Bowie where the company is expanding its production of EV chargers and creating many high-quality jobs in the local community.

Maryland continues to be an EV leader among the 50 states by promoting EV adoption and EV infrastructure deployment through public policy. The American Council for an Energy-Efficient Economy (ACEEE), a nonprofit

research organization, ranked Maryland 10th out of 32 states and the District of Columbia for their transportation electrification efforts in its June 2023 report.ⁱ The ACEEE report found that Maryland is among the top states for:

- Executive branch leadership to promote electrification
- Transportation systems efficiency
- Setting goals for transit agency EV procurement and investing in ZEV buses
- Establishing GHG reduction goals for transportation

The ACEEE report noted that “our review of transportation electrification policy levers identified three policy areas that are likely to have the greatest impact on EV uptake: zero emission vehicle (ZEV) mandates and EV deployment targets; financial incentives for vehicle purchases; and incentives for charging infrastructure installation (Morrison et al. 2018; Lutsey 2015; Mersky et al. 2016; EEI 2018b).”ⁱⁱ

Even though Maryland has already taken significant steps to deploy EV charging infrastructure, it needs many more charging stations to meet projected demand statewide. The Maryland Energy Administration’s study on multifamily EV-ready requirements found that “[...] Maryland is already on track to meet the 2025 DCFC forecast. However, significant development of a Level 2 charging network is needed.”ⁱⁱⁱ According to the U.S. Department of Energy’s Alternative Fuels Data Center, today Maryland has 1,394 public Level 2 charging station locations with 3,638 charging ports and 295 public DC fast charging station locations with 973 DC fast charging EVSE ports.^{iv}

As the ACEEE’s June 2023 report makes clear, “To avoid the challenges of modernizing older buildings while supporting ambitious EV deployment goals, states (as well as some local governments that can set minimum



building standards) are beginning to integrate elements of vehicle charging into their building codes.”^v

SB 695 would support the transition from internal combustion engine vehicles to electric vehicles by requiring a gradual increase in the number of EV-ready parking spaces, including for homes that undergo significant renovation and for newly constructed residential multifamily buildings. Many studies have determined that the cost of including EV-ready and EVSE-installed infrastructure during the initial construction phase is much less than retrofitting existing structures. For example, according to the Urban Sustainability Directors Network, “EV-Ready infrastructure cost savings ranges between 67% and 79% and for EV-installed infrastructure, the cost savings ranges between 59% and 75%.”^{vi}

If passed by the General Assembly, SB 695 will help ensure that Maryland remains a leading destination for the EV industry while supporting the equitable deployment of charging infrastructure. In closing, we commend your leadership in advancing zero-emission transportation and introducing this bill to make EV charging more widely available across the state.

Sincerely,

Matthew E. Chen
Director, Government Affairs
Blink Charging Company

ⁱ State Transportation Electrification Scorecard 2023, The American Council for an Energy-Efficient Economy (ACEEE), June 2023: <https://www.aceee.org/research-report/t2301> (page xi in original document).

ⁱⁱ State Transportation Electrification Scorecard 2023, The American Council for an Energy-Efficient Economy (ACEEE), June 2023: <https://www.aceee.org/research-report/t2301> (page 5 in original document).

ⁱⁱⁱ Maryland Energy Administration (MEA), Multifamily Residential EV Study, January 2024, page 25 [https://dlslibrary.state.md.us/publications/Exec/MEA/HB830Ch582\(3\)\(2023\).pdf](https://dlslibrary.state.md.us/publications/Exec/MEA/HB830Ch582(3)(2023).pdf)

^{iv} Alternative Fuels Data Center (AFDC), U.S. Department of Energy, https://afdc.energy.gov/fuels/electricity_locations.html#/analyze?region=US-MD&fuel=ELEC&ev_levels=dc_fast

^v State Transportation Electrification Scorecard 2023, The American Council for an Energy-Efficient Economy (ACEEE), June 2023: <https://www.aceee.org/research-report/t2301>

^{vi} Urban Sustainability Directors Network, "EV Ready Cost Comparison", Accessed February 27, 2024: https://www.usdn.org/uploads/cms/documents/ev_ready_cost_comparison.pdf

SB 0695 Testimony.pdf

Uploaded by: Neda Deylami

Position: FAV



Testimony on **SB 0695**

Building Code - Construction and Significant Renovation of Housing Units - Electric Vehicle Parking Spaces

Education, Energy, and the Environment Committee

Position: Favorable

The Environmental Defense Fund urges a favorable report on SB 0695.

We encourage you to support the bill and consider the principles and best practices below in order to maximize access to equitable home charging for multi-family building residents, while minimizing cost and complexity of construction, management, and enforcement of these buildings and codes.

Maryland's adoption of Advanced Clean Cars II (ACCII) is expected to bring 1.8 million electric vehicles¹ to consumers by 2035 and \$6.6 billion worth of emissions reductions, cleaner air, and societal benefits by 2050.² Currently, most electric vehicle (EV) owners charge at home for its affordability and convenience, but home charging is not as accessible an option for those in multi-family homes, especially low-income households who tend to be overburdened by pollution and transportation costs and could benefit the most from switching to EVs.

This bill's EV-ready requirements seek to future-proof housing to reduce barriers to home charging. The cost of retrofitting an existing building with charging supply equipment is up to twelve times more expensive than the cost at new construction.³ The largest expenses when retrofitting are related to demolition, breaking and repairing walls, and asphalt and concrete trenching.⁴ On the other hand, adding the necessary conduit,

¹ Maryland Energy Administration, *Multifamily Residential EV Study* (Jan. 2024), <https://energy.maryland.gov/Reports/Multifamily%20Residential%20EV%20Study.pdf> at 6.

² Sierra Club, *New Reports Warn of Deadly Effects of Vehicle Pollution in Maryland* (June 23, 2023), <https://www.sierraclub.org/press-releases/2023/06/new-reports-warn-deadly-effects-vehicle-pollution-maryland>.

³ Energy Solutions, *Electric Vehicle Infrastructure Cost Analysis Report for Peninsula Clean Energy (PCE) & Silicon Valley Clean Energy (SVCE)* (Nov. 20, 2019), https://bayareareachcodes.org/wp-content/uploads/2020/03/PCE_SCVE-EV-Infrastructure-Report-2019.11.05.pdf

⁴ The Solar Foundation, *EV Ready Cost Comparison*, https://www.usdn.org/uploads/cms/documents/ev_ready_cost_comparison.pdf.

reserved capacity, wiring, dedicated circuit, and receptacle to support charging at the time of construction adds only an estimated 0.1-0.2% to overall building development cost.⁵

An EV-ready building code should seek to limit marginal cost of compliance, balanced with the savings of potential avoided retrofits. Including renovated buildings in this bill is important to address inequality of housing opportunities. However, the definition of renovation that triggers EV-ready requirements should be based on the costliest endeavors of retrofitting to limit the incremental cost borne solely by EV-ready compliance in an otherwise unrelated alteration of a building. In other words, where renovation projects are already planned, EV-ready compliance should not add an additional significant cost. The current definition of “significant renovation” – “electrical panel upgrades that increase the capacity of the panel” – is not directly related to the most burdensome costs of retrofitting. Although trenching of parking spaces is appropriate, it can accompany, for example, renovations “where the work area exceeds 50 percent of the original building area” to acknowledge triggers that may more closely relate to demolition and trenching.⁶

Requirements for new construction should be as high as possible to meet the future charging needs of all residents and capitalize on the savings of futureproofing. Maryland is already in the top ten states nationally for EV adoption with registrations doubling every year since 2020; ACCII will only expand and accelerate the transition.⁷ The best time to invest in strong EV-ready building codes is now rather than attempting to predict market growth in five or ten years. Instead of a low percentage EV-ready requirement, other jurisdictions utilize a mixture of EV-capable and EV-ready totaling 100%. In EV-capable, only conduit and reserved capacity on the panel is required but no wiring, which reduces up-front costs while still avoiding the cost of demolitions and trenching of future retrofits.

⁵ California Air Resources Board, *EV Charging Infrastructure Nonresidential Building Standards: 2019/2020 Intervening Code Cycle: CARB Staff Technical and Cost Analysis* (Nov. 15, 2019), https://ww2.arb.ca.gov/sites/default/files/2020-08/CARB_Technical_Analysis_EV_Charging_Nonresidential_CALGreen_2019_2020_Intervening_Code.pdf.

⁶ 2022 Denver Energy Code, available at <https://denvergov.org/files/assets/public/v/6/community-planning-and-development/documents/ds/building-codes/2022-denver-building-and-fire-code.pdf> at 305.

⁷ Maryland Department of Transportation/Motor Vehicle Administration Electric and Plug-in Hybrid Vehicle Registrations by County as of each month end from July 2020 to December 2023, available at https://opendata.maryland.gov/Transportation/MDOT-MVA-Electric-and-Plug-in-Hybrid-Vehicle-Regis/qtcv-n3tc/about_data

To limit costs while expanding equitable access to charging, full power to every EV-ready space can be restricted. The minimum 40-ampere circuit required per EV-ready parking space is an excessive amount of power for one vehicle's daily, most often overnight use. Instead, EV-ready could be alternatively defined as providing Low Power Level 2 charging,⁸ a minimum 20-ampere, 208/240-volt circuit that would still provide 3.8 kilo-watts of power, or approximately 10-20 miles of range per hour, more than enough overnight for daily driving needs. A further option is energy management systems with load sharing to allow for safe and efficient simultaneous charging on the same circuit. Energy management optimizes energy consumption, leveraging utility rates to minimize charging costs and reduce demand on building capacity and the grid.

Those living in EV-ready multi-family homes should have access to the same cost savings and conveniences of home charging as those in single-family homes. EV spaces should be directly wired to individual meters where possible to ensure access to low-cost residential utility rates and incentives (such as off-peak pricing, where available), and the resilience benefits of future vehicle-to-home battery bidirectionality. Cost savings can be achieved by prioritizing installation of receptacles rather than commercial EV supply equipment (EVSE-installed), which tend to charge higher electricity rates, surcharges, and subscription and idling fees. EV-capable spaces should also have prominent signage for those looking to upgrade to EV-ready.

In addition to residential buildings, this Assembly can also consider the second most popular location for EV charging, workplace charging, and other non-residential locations in general – particularly those with “long dwell times” – to take advantage of lower-cost, low-powered charging options. Commercial EV readiness can provide the infrastructure for more robust public charging, for those without off-street parking; it can also assist businesses in electrifying their fleets – including warehouses that rely on diesel vehicles that disproportionately pollute the air, especially in communities of color and low-income communities – that can use the same charging infrastructure as passenger vehicles. Abundant, accessible, and affordable charging infrastructure is consumers' top priority in considering an EV and it is incumbent on policymakers to explore every opportunity to expand access.

Signed,

Neda Deylami
Manager, Vehicle Electrification
Environmental Defense Fund

⁸ Cal. Code Regs. Tit. 24 Part 11 §202

2024 SB695EV Parking Spaces Phase In.pdf

Uploaded by: Paul Verchinski

Position: FAV

**FAVORABLE –Senate Bill 695
HB889- Building Code – Construction and Significant Renovation of
Housing Units – Electric Vehicle Parking Space
Education, Energy and the Environment Committee
March 4, 2024**

The Honorable Brian J. Feldman
Chair, Education, Energy and the Environment Committee
Senate Office Building
Annapolis, MD 21401

Dear Chairman Feldman and Members of the Committee:

My name is Paul Verchinski. I am a member of the Maryland Zero Emissions Electric Vehicle Infrastructure Council (ZEEVIC) and I represent the Public.

Favorable

I request a Favorable Report for the following reasons:

The Maryland Energy Administration (MEA) released its report “Multifamily Residential EV Study “ (Study) in January, 2024. In it, the MEA stated that Maryland is on track to meet its target for DC Fast Chargers by 2025 and beyond. “However significant development of Level 2 charging network is needed.” (page 25). This legislation would help to increase build out of Level 2 charging in multifamily housing renovations when electric service panels are upgraded or when parking lots are repaved. It is well known that doing level 2 upgrades as part of renovation can be up to 6 times cheaper than doing it as the only upgrade.

The Climate Solutions Now Act passed in 2022 puts Maryland on a path to 60% reduction in Green House Gas by 2031. An integral part is the turn to transportation electrification from Internal Combustion Engine cars which currently represents 35% of Green House Gases in Maryland. “Advance Clean Cars II adopted by Maryland in 2023 “will significantly increase EV adoption to nearly 1,807,000 representing 82% of vehicles on the road, in 2035” (Study, page 6). This legislation proposes a nuanced phase in of Level 2 chargers from 10% in 2024 to 30% of parking spaces in new Multifamily Buildings to provide needed charging points.

I ask that the committee report out the bill Favorably

Paul Verchinski
5475 Sleeping Dog Lane
Columbia, MD 21045

MarylandLCV_FAV_SB695_RichardDeutschmann.pdf

Uploaded by: Richard Deutschmann

Position: FAV



March 4, 2024

Kim Coble
Executive Director

2024 Board of
Directors

Lynn Heller, Chair
The Hon. Nancy Kopp,
Treasurer
Kimberly Armstrong
Candace Dodson-Reed
Verna Harrison
Melanie Hartwig-Davis
Charles Hernick
The Hon. Steve Lafferty
Patrick Miller
Bonnie L. Norman
Katherine (Kitty)
Thomas

SUPPORT: SB695 - Building Code - Construction and Significant Renovation of Housing Units - Electric Vehicle Parking Spaces

Mr. Chairman and Members of the Committee:

Maryland LCV supports SB695 - Building Code - Construction and Significant Renovation of Housing Units - Electric Vehicle Parking Spaces.

In March 2023, Governor Moore announced that the State of Maryland would fully implement and enforce the multi-state Advanced Clean Cars II Rule. This puts Maryland on a path of achieving 100% statewide sales of electric cars and light duty vehicles by model year 2035. In order to reach these goals, we need to rapidly increase our electric vehicle charging infrastructure throughout the state.

Additionally, in December 2023, the Maryland Department of the Environment issued “Maryland’s Climate Pollution Reduction Plan”, which lays out a roadmap for 60% net reduction in statewide Greenhouse Gas Emissions by 2031, and net-zero by 2045. The plan specifically recommends for the Maryland General Assembly to introduce legislation requiring that the state’s EV-ready standards for new residential construction be extended to include multi-family buildings. This would augment legislation passed by the Assembly in 2023 which codified similar requirements for new, single-family homes and duplexes in the state. The bill also has a phased approach, where the number of EV charging equipped parking spaces starts out modestly, and increases over the next 10 years.

SB695 directly supports the Clean Cars II Rule, as well as the state’s climate goals, by increasing electric vehicle charging infrastructure in an area of great need - multi-family housing. This will, in turn, help address the charging concerns of residents across the state, and encourage Marylanders to purchase electric vehicles in the near term. Having reliable EV charging at home has been identified in many studies as a key factor in consumers choosing to purchase electric vehicles for their personal use.

Maryland LCV urges a favorable report on SB695.

Prewiring SB 695 FAV.pdf

Uploaded by: Scott Wilson

Position: FAV

Testimony to the Senate Education, Energy and Environment Committee
SB 695 Building Code - Construction and Significant Renovation of Housing Units -
Electric Vehicle Parking Spaces
Position: Favorable

29 February 2024

The Honorable Brian Feldman, Chair
2 West, Miller Senate Office Building, Annapolis, MD 21401

Honorable Chair Feldman and Members of the Senate Education, Energy and Environment Committee:

My name is Scott Wilson, and I currently serve on the Maryland Zero Emission Electric Vehicle Infrastructure Council (ZEEVIC). I am also vice president of the Electric Vehicle Association of Greater Washington DC (EVADC). I support the passage of SB 695 for the following reasons.

As Marylanders are discovering, one of the many advantages of owning an electric vehicle is being able to charge it at home. Next to free public charging, it is almost always the lowest-cost electricity available. Given what I pay for electricity at home, I drive at about 3.5 cents/mile. At current prices, a gas car would cost me about 12+ cents/mile, so my daily driving cost in my EV is about one-third of what it would otherwise be.

It is thus vitally important that during significant renovation of single-family and multi-family housing, as defined by the bill, we do not lose the opportunity to install at least the electric capacity to enable the type of home charging enjoyed by single-family homeowners, when that installation will be the least expensive. To minimize cost, EV charging capacity and/or chargers should be installed when electric capacity is being upgraded or when parking upgrades involve repaving or trenching in or around parking spaces since it is far cheaper to install hardware *before* a parking lot is paved rather than *after*, or when trenching occurs anyway.

Pre-wiring with a minimum 208V line and installing an EVSE during renovation are the best way to ensure that, as EV adoption increases, current and future single-family and multi-family residents can fully benefit from the EV opportunity in the least expensive way possible.

Thank you for your time,

Scott Wilson

SB 695 EV Parking Spaces 2024.pdf

Uploaded by: Tom Clark

Position: FAV



International Brotherhood of Electrical Workers

JOSEPH F. DABBS: Business Manager • THOMAS C. MYERS: President • RICHARD D. WILKINSON: Vice President
CHRISTOPHER M. CASH: Financial Secretary • RICHARD G. MURPHY: Recording Secretary • PAULO C. HENRIQUES: Treasurer



TESTIMONY IN SUPPORT OF SB 695 BUILDING CODE- CONSTRUCTION, RENOVATION OF HOUSING- EV PARKING SPACES March 4, 2024

TO: Chair Feldman, Vice Chair Kagan, and members of the Education, Energy and Environment Committee

From: Tom Clark, Political Director, International Brotherhood of Electrical Workers Local 26

Mr. Chair, Madam Vice Chair, and members of the Committee. **SB 695** is a forward-thinking Bill that helps Maryland changeover to clean energy automobiles. Most importantly, it does so for those that live in apartments and townhomes (most of our citizens). So please join me in **support of SB 695**.

This piece of legislation addresses the need for electric vehicle chargers, to the everyday Marylander. Not the Tesla owners with a 3-car garage, but the electric car owners that live in apartment buildings and multi-family dwellings. Working people, low- and middle-income families that care about the environment and saving on fuel costs. The need is there, **SB 695** addresses the need. Without bills like **SB 695**, our communities will be littered with miles of extension cords connecting electric cars to household outlets, a danger to all, especially young children. It is this danger that will happen and eventually force the General Assembly to act, after a fatal event. Now is the time to legislate for safety as well as for the environment. This Bill only asks for a minimum of parking spaces and associated wiring and equipment. I respectfully ask that you consider the safety aspect, when voting for or against **SB 695**. Not to mention the cost savings when installing this equipment during new construction or renovation, as opposed to waiting to install this equipment when the yards are finished, the concrete is poured or the parking lot paved.

I commend the sponsors of **SB 695**, legislators that focus on clean air as well as the people I represent, working families. It brings clean energy equipment to Mr. and Mrs. Everyday Marylander. They will thank you for helping them and helping the environment. Please vote **favorably on SB 695**.



SB 695 - MoCo DEP - Fitzgerald_FWA (GA 24).pdf

Uploaded by: Garrett Fitzgerald

Position: FWA



Montgomery County

Office of Intergovernmental Relations

ROCKVILLE: 240-777-6550

ANNAPOLIS: 240-777-8270

SB 695

DATE: March 1, 2024

SPONSOR: Senator Feldman

ASSIGNED TO: Education, Energy, and the Environment Committee

CONTACT PERSON: Garrett Fitzgerald (garrett.fitzgerald@montgomerycountymd.gov)

POSITION: Favorable with Amendment (Department of Environmental Protection)

Building Code – Construction and Significant Renovation of Housing Units – Electric Vehicle Parking Spaces

Electric vehicles (EVs) powered by a clean, renewable energy grid will play a critical role in achieving our state and local climate goals. EVs can also reduce local air pollution and improve public health. Owning an EV necessitates having parking spaces available where the vehicle can be charged.

This bill would establish requirements for the installation of EV charging equipment or EV-ready parking spaces in new construction and significant renovation of multifamily properties.

We support the requirements of the bill particularly as they relate to new construction. These requirements will ensure that new properties are built ready to support the EV transition, with necessary infrastructure included in a manner that is most cost-effective and least disruptive to building owners and occupants.

However, we suggest an amendment to the way the bill would address existing buildings. As written, the bill states that any renovations that include electric panel upgrades that increase capacity of the panel should be considered a significant renovation triggering the bill requirements. Electric panel upgrades may occasionally be necessary to enable the installation of new equipment such as electric heat pumps. We are concerned that the added cost of out-of-scope parking area changes may dissuade property owners from making separate electrification investments in their properties. We suggest that in the event of a renovation involving an upgrade to the electric panel, the property owner should be required to at least ensure that conduit is in place and there is space available in the electric panel to accommodate a new circuit for EV charging. However, requirements to make associated parking spaces EV-ready with the addition of a circuit and wiring should only be triggered if the renovation project also involves the parking area.

We respectfully request that the Education, Energy, and the Environment Committee give this bill a favorable report with the inclusion of the suggested amendment.

2024.03.01 SWTCH Testimony on SB0695 - HB0889.pdf

Uploaded by: Josh Cohen

Position: FWA



SWTCH Energy Inc.
Greentown Labs
444 Somerville Ave
Somerville, MA 02143
swtchenergy.com

March 1, 2024

The Honorable Brian Feldman
Chair, Senate Education, Energy, and the
Environment Committee

The Honorable Marc Korman
Chair, House Environment and
Transportation Committee

Submitted electronically

Re: SWTCH testimony in SUPPORT with AMENDMENTS:
[SB 0695](#) / [HB 0889](#): **Building Code – Construction and Significant Renovation of
Housing Units – Electric Vehicle Parking Spaces**

Dear Chairs Feldman and Korman and Committee Members:

SWTCH is pleased to offer this testimony in SUPPORT with AMENDMENTS of the
companion bills SB 0695 and HB 0889.

About SWTCH

SWTCH is a leading provider of electric vehicle (EV) charging and energy management solutions for multifamily, commercial, and workplace properties across North America. SWTCH's end-to-end solution optimizes EV charging usage and manages load to benefit drivers, property owners, and the grid. SWTCH has deployed more than 10,000 charging stations, with a particular focus on ensuring equitable access to EV charging. SWTCH's charging management platform is built upon a foundation of open communication standards and interoperability to ensure future flexibility, scalability, and innovation even after purchase and installation.

Comments

Maryland's clean transportation policy leadership

For many years now, Maryland has been a leader in clean transportation policy. Last year, the State continued to set the bar high when it adopted the Advanced Clean Cars II (ACCII) Rule. This Rule requires automakers to deliver an increasing percentage of light-duty zero-emission or hybrid vehicles with each model year beginning with Model Year (MY) 2027, culminating in 100% ZEV or hybrid deliveries by MY2035. These and other policy actions matter because policy shapes the market for EVs and charging.

Zero-emission vehicle ("ZEV") mandates and other policy goals such as the ACCII Rule – while eminently worthy – are insufficient in and of themselves to bring about the changes they envision. Indeed, without a host of complementary actions, the achievement of high-level policy mandates and goals are likely to fall short. EV-ready construction requirements are among such complementary actions. For residents of apartments and condominium buildings in particular, EV-ready requirements are imperative – not only for the state to keep pace with its overall EV adoption targets, but to keep pace in an equitable way that helps shrink the disparity between those who live in single-family homes and those who don't.

The value of EV-ready construction requirements

Establishing minimum EV-ready construction requirements matter because they enable more widespread and equitable EV adoption by driving down the cost of charging infrastructure. It is far less expensive – generally 4 to 8 times less expensive – to plan, engineer, design, and install EV charging infrastructure during new construction than to retrofit an already-built building.

More than 30% of all U.S. households live in multifamily apartment and condominium buildings. Multifamily properties are an underserved segment when it comes to EV charging for a host of reasons, cost being a major one. By driving down the cost of charging infrastructure, EV-ready construction codes will help expand equitable access to charging among multifamily households, as well as enable the corresponding savings that accrue to those who are able to charge at home. This is especially important because multifamily households are disproportionately low- and moderate-income, and face an above average transportation energy burden.

Charging infrastructure costs

In SWTCH’s experience, the typical cost to install a commercial-grade Level 2 EV charger at an existing multifamily property ranges from \$5,000 to \$10,000. This range is consistent with industry experience. The National Renewable Energy Laboratory (NREL)’s “2030 National Charging Network” included a meta-review of literature and reported a range from \$4,400 to \$10,600 (Note “commercial” in the table below is the category that includes multifamily properties”):

Table 5. EVSE Capital Cost Assumptions

Charger Hardware		Unit Cost per Port	Install Cost per Port ^a	References
L1 residential	Low: High:	\$0 \$0 ^b	\$100 \$1,000	(Fixr.com 2022; Courtney 2021; HomeAdvisor 2022)
L2 residential	Low: High:	\$400 \$1,200	\$500 \$1,700	(Borlaug et al. 2020; Fixr.com 2022; Courtney 2021; HomeAdvisor 2022)
L2 commercial	Low: High:	\$2,200 \$4,600	\$2,200 \$6,000	(Nicholas 2019; Nelder and Rogers 2019; Borlaug et al. 2020; Bloomberg New Energy Finance 2020; Pournazeri 2022)

Source: National Renewable Energy Laboratory. (2023). The 2030 National Charging Network.

NREL’s meta-review is consistent with Maryland’s own experience as reflected in BGE’s August 2023 Semi-Annual Report to the Public Service Commission. BGE’s experience installing chargers at multifamily properties indicates an average cost of \$9,662 per charger, installed.

4. **Actual costs of implementation at each site. Discuss the overall costs, broken down by cost categories and charger type (including capital costs and annual operations and maintenance costs). Also include incentive costs and any “make ready” costs such as distribution system upgrades.**

Average Multifamily Program Costs per EV Charger Port Jan 1, 2023 – Jun 30, 2023	
Equipment Cost	\$ 3,953
Install Cost	\$ 5,673
Other Cost*	\$ 1,242
Total Average	\$ 9,662

* Other Cost average based only on properties who reported applicable project costs that were not qualified under equipment or installation costs. 91% of properties did not report other costs associated with residential EV charger installation.

Source: BGE. (August 2023). Semi-Annual Report to the PSC, Case No. 9478. Page. 18.

Note that in all three of these examples – SWTCH, NREL, and BGE – the installation and supporting infrastructure comprise the bulk of the cost; the chargers themselves are generally between \$1,000 to \$2,000. These cost estimates are all for installing chargers in existing buildings. Importantly, if Maryland adopts EV-ready construction requirements, the costs to install chargers will be far less.

Recommended Amendments

1. The proposed EV-ready requirements in this bill, while forward-looking, are relatively modest. SWTCH encourages stronger provisions that align with the current working draft of the International Energy Conservation Code (IECC), which requires a minimum of 20% EVSE Installed, 5% EV Ready, and 75% EV Capable spaces for R-2 occupancies.
2. SWTCH encourages consideration of language that any EV-ready requirements in this bill would be superseded by the IECC if the IECC's requirements are more stringent.

In Closing

SWTCH supports the goals of these companion bills and respectfully encourages favorable consideration with amendments.

Thank you for your consideration of these comments. If you have questions or if I can provide more information, please contact me at josh.cohen@swtchenergy.com or 202.998.7758.

Respectfully,



Josh Cohen
Head of Policy

SB 695_BOMA_UNF.pdf

Uploaded by: Bryson Popham

Position: UNF



2331 Rock Spring Road
Forest Hill, MD 21050
443.966.3855
info@bomabaltimore.org

March 1, 2024

The Honorable Brian J. Feldman
Chair, Senate Education, Energy, and the Environment Committee
2 West, Miller Senate Office Building
Annapolis, Maryland 21401

RE: Senate Bill 695 - Building Code - Construction and Significant Renovation of Housing
Units - Electric Vehicle Parking Spaces
UNFAVORABLE

Dear Chair Feldman and Members of the Committee,

I am writing in my capacity as both the Legislative Chairman of the Building Owners and Managers Association of Greater Baltimore (BOMA), and as a member of its Board of Directors, to respectfully request an unfavorable report on Senate Bill 695.

BOMA, through its nearly 300 members, represents owners and managers of all types of commercial property, comprising 143 million square feet of office space in Baltimore and Central Maryland. Our members' facilities support over 19,000 jobs and contribute \$2.5 billion to the Maryland economy each year.

First, it is important to place the significant and expensive requirements of this legislation in a broader context. Maryland has, for a number of years, promoted the "electrification" of motor vehicles as part of a larger philosophy to move away from fossil fuels as an energy source and toward renewable resources. The salient example of that philosophy was the enacted of Senate Bill 528 in 2022 – the Climate Solutions Now Act. BOMA members and all commercial property owners are struggling to comply with the evolving requirements of that Act.

Senate Bill 695 was based, in large part, on the Maryland Energy Administration study issued in January of 2024. Among the conclusions of that study is a cost projection for the installation of EVSE infrastructure in 50% of parking spaces for existing multifamily dwellings. The projected cost for such deployment is over \$7 Billion.

Second, this legislation directly addresses the subject of urban development for residential property. And it can be fairly considered as running counter to our renewable energy policy in its requirements to convert existing parking spaces to incorporate electric charging stations. The future of urban development is, and should be, transit oriented. Mandating a certain number of spaces to accommodate electric vehicles will require developers to build more regular parking spaces (in order to drive transient revenue), and because in our jurisdiction parking garages are not subject for FAR (floor area ratio) calculations, the result will be public encouragement of building more structured parking rather than less.

Floor area ratio (FAR) is the measurement of a building's floor area in relation to the size of the lot/parcel that the building is located on. FAR is expressed as a decimal number, and is derived by dividing the total area of the building by the total area of the parcel (building area ÷ lot area). In zoning in addition to height restrictions, jurisdictions have limits on the FAR allowed.

We should also point out that the definition of "multifamily residential building" would appear to include mixed use buildings which represent a primary and publicly acceptable practice in commercial construction today. Therefore, the bill would automatically increase the cost of mixed use development, as described above.

Finally, the bill's provisions are triggered by a "significant renovation," as defined in the bill. That definition includes "parking upgrades that involve repaving or trenching in or around parking spaces." This definition is so vague that

it could include any repair near a parking space no matter how small. Similarly, trenching is not adequately defined – there is no minimum area for this activity, for example.

One of our BOMA members has reported cost estimates for such work at an actual Baltimore City building. It is as follows:

- Bringing additional power to the building for 30 electric vehicle units - \$160,000
- Bringing power to individual parking spaces - \$10,000 per space

The total cost is thus estimated at approximately \$300,000, a very significant expense by any measure against a need that is highly speculative. BOMA respectfully believes that the best way to accomplish the goals of the bill is to allow the market to do so.

For the foregoing reasons, BOMA respectfully requests an unfavorable report on Senate Bill 695.

Sincerely,

A handwritten signature in blue ink that reads "KBauer". The signature is fluid and cursive, with the first letters of the first and last names being capitalized and prominent.

Kevin J. Bauer
BOMA Legislative Chair

cc: Bryson Popham

SB 695 - EV Charging - UNF - REALTORS.pdf

Uploaded by: Lisa May

Position: UNF



Senate Bill 695 – Building Code - Construction and Significant Renovation of Housing Units - Electric Vehicle Parking Spaces

Position: Oppose

While we appreciate efforts to expand access to electric vehicle infrastructure, Maryland REALTORS® opposes SB 695 for the mandates placed upon homeowners in the state.

SB 695 requires that existing housing units include an EV-installed or EV-ready parking space when undergoing “significant renovations.”

However, under this bill a “significant renovation” is triggered just through expanding the capacity of a home’s electrical panel. Electrical panel upgrades alone are too narrow a standard under which to impose these requirements. Something as simple as replacing old appliances with modern ones or adding an air conditioning unit could impose EV-charging installation requirements under this bill.

Particularly in older homes, the electrical panel may not be directly adjacent to the home’s parking areas. Installing an EV-ready or EV-capable parking space in those situations would cause homeowners to disturb parts of the property not under renovation. This adds significant costs for property owners who may not now, nor may they ever, own an electric vehicle and where they may not see a return on their investment at resale.

REALTORS® believe that the requirements of SB 695 are too high a barrier for existing homeowners to meet, and we recommend an unfavorable report.

**For more information contact lisa.may@mdrealtor.org or
christa.mcgee@mdrealtor.org**

MBIA Letter of Opposition SB 695.pdf

Uploaded by: Lori Graf

Position: UNF

March 1, 2024

The Honorable Brian Feldman
Chairman, Senate Education, Energy, and the Environment Committee
2 West Miller Senate Office Building
Annapolis, Maryland 21401

RE: SB 695 Building Code - Construction and Significant Renovation of Housing Units - Electric Vehicle Parking Spaces

Dear Chairman Feldman:

The Maryland Building Industry Association, representing 100,000 employees statewide, appreciates the opportunity to participate in the discussion surrounding Building Code - Construction and Significant Renovation of Housing Units - Electric Vehicle Parking Spaces. MBIA **Opposes** the Act in its current version.

SB695 would require the construction of new multifamily residential buildings with separate garages, carports, or driveways for each residential unit to include certain parking spaces for electric vehicle charging. While MBIA Supports the concept of creating the infrastructure for Elective Vehicles, we have some concerns about the current language in the bill. This bill imposes significant costs on buildings undergoing major renovations and may discourage renovations all together. The renovations section of the legislation would require any building that is doing any renovation, as simple as paving their driveway to install Electric Vehicle Charging station

This bill would also require EVSE-installed and EVSE-ready installed parking in certain new construction multi-family projects. The Maryland Energy Administration has recently completed a report that was required under 2023 HB830. The report outlines the costs and other challenges to installing these charging stations in multi-family buildings (see below for a summary of these costs).

MBIA supports the need for charging stations, however we have concerns about the timing of this measure. Maryland currently faces a housing shortage of approximately 96,000 housing units. If nothing changes, that number will increase by 5600 units per year. The National Association of Homebuilders reports that the estimated rent of a Maryland Housing Units is more than 30% of household incomes state wide with 25% of people spending more than 50% of their income on housing. In order to address this problem, we need a concerted effort to make housing available, and affordable to the residents of this state. This bill is an important first step in addressing this problem as it relieves some of the process burden for construction these desperately needed housing units. More than 50% of residents of the state of Maryland report that lack of housing availability is a major problem. According to the Maryland Department of Housing and Community Development, Maryland is the 8th least affordable state in the United States. In addition, regulations imposed by all levels of government account for 23.8% of the price of a house. This is not the time to provide disincentives to build housing in Maryland.

For these reasons, MBIA respectfully requests the Committee give this measure an unfavorable report. Thank you for your consideration. For more information about this position, please contact Lori Graf at 410-800-7327 or lgraf@marylandbuilders.org.

cc: Members of the Senate Education, Energy, and the Environment Committee

MMHA - 2024 - SB695 - UNF.pdf

Uploaded by: Matthew Pipkin

Position: UNF



Senate Bill 695

Committee: Education, Energy, and the Environment

Bill: Senate Bill 695 Building Code – Construction and Significant Renovation of Housing Units – Electric Vehicle Parking Spots

Date: March 1, 2024

Position: Unfavorable

The Maryland Multi-Housing Association (MMHA) is a professional trade association established in 1996, whose members house more than 538,000 residents of the State of Maryland. MMHA’s membership consists of owners and managers of more than 210,000 rental housing homes in over 958 apartment communities and more than 250 associate member companies who supply goods and services to the multi-housing industry.

Senate Bill 695 (“SB 695”) requires the construction of new multifamily residential buildings with separate garages, carports, or driveways for each residential unit to include certain parking for electric vehicle charging. In addition, this bill requires housing units that are undergoing significant renovations with separate garages, carports, or driveways for each residential unit to include certain parking spaces for electric vehicle recharging. It should be noted that as part of the passage of Chapter 582 Residential Construction – Electric Vehicle Charging legislation from the 2023 Session¹, a study was mandated to be conducted by MEA with the goal of “*studying the costs, barriers, and impacts related to requiring both new and existing multifamily residential buildings to include EVSE-installed or EV-ready parking spaces.*”. This MEA report², published last month, is a key component of this legislation.

MMHA would like to respectfully request an unfavorable report on Senate Bill 695. While MMHA appreciates the intent of this legislation, there are significant areas of concern that need to be addressed. To begin, MMHA has strong concerns under what is defined in the legislation as “SIGNIFICANT RENOVATION” that would trigger compliance measures for existing multi-family housing units. The definition in the legislation is as follows:

“SIGNIFICANT RENOVATION MEANS: (I) A RENOVATION TO A HOUSING UNIT THAT INCLUDES ELECTRICAL PANEL UPGRADES THAT INCREASE THE CAPACITY OF THE PANEL; OR (II) PARKING UPGRADES THAT INVOLVE REPAVING OR TRENCHING IN OR AROUND PARKING SPACES”

MMHA takes issue with both (I) and (II) portions of the cited definition. Regarding (I), as this committee is aware, many of our property owners will need a new electric panel upgrade as part of the new compliance standards required under the enacted Climate Solution Now Act of 2022 (CSN)³. This provision will result in beleaguered property owners, who are renovating to comply with CSN, to now be bombarded with additional costs that come as a result from this bill. As the

¹MD General Assembly. Chapter 582 Residential Construction – Electric Vehicle Charging. Reg. Session. 2023. [2023 Regular Session - House Bill 830 Chapter \(maryland.gov\)](#)

²Maryland Energy Administration Multifamily Residential EV Study – Jan. 2024. [Multifamily Residential EV Study.pdf \(maryland.gov\)](#)

³MD General Assembly. Chapter 38 Climate Solutions Now Act of 2022. Reg. Session. 2022. [2022 Regular Session - Senate Bill 528 Chapter \(maryland.gov\)](#)



report cited on page 26¹, MEA detailed a graph with actual estimated installation costs for retrofitting various existing multi-family housing units with electric vehicle supply equipment (EVSE) showing the following:

Table 7: Summary of EVSE Cost Estimates, by Multifamily Unit Type

Type	Quantity	Labor Direct Cost	Material Cost	Soft Cost	Total Installed Cost
Townhomes - L2 Charging Stations	1	\$9,669	\$7,795	\$8,544	\$26,008
Low Rise - L2 Charging Stations	1	\$10,680	\$18,995	\$14,302	\$43,977
High Rise - L2 Charging Stations	1	\$12,282	\$19,523	\$15,271	\$47,076
Structured Parking - L2 Charging Stations	1	\$12,282	\$19,523	\$15,271	\$47,076

2

This legislation offers no financial remedy to offset these cited costs associated with retrofitting existing multi-housing units. Without any new financial remedy offered to offset the costs, this is simply too much to ask of our members to bear.

Regarding (II), it is unreasonable to expect that a landlord, who has decided to simply repave a parking lot for the benefit of their tenants residing in a building, should now be expected to comply and install the charging stations as the bill as outlined. While trenching involves more significant groundwork, it would be inappropriate to deem “REPAVING” of a parking lot to be “SIGNIFICANT RENOVATION.” As this definition stands, this will only dissuade landlords from maintaining the parking lots for their tenants and trip up other landlords into complying with the installation of the charging stations.

In addition, this bill factors in no consideration for economic/market factors when requiring multi-family residential buildings to fall into compliance. The cost of purchasing and owning an electric vehicle in Maryland remains prohibitively expensive for many of our low income residents who reside in affordable multi-family housing units. For property owners of these multi-family housing units, it seems unreasonable to expect that they should burden this new expense with little reason to expect tenants will utilize these charging stations. By the admission of the key findings cited on page six of MEA’s report, *“there is a proportionate distribution of EVSE infrastructure to the population levels in [environmental justice] and low-income*

¹Maryland Energy Administration Multifamily Residential EV Study – Jan. 2024. [Multifamily Residential EV Study.pdf \(maryland.gov\)](#)

²Readers note: these estimated costs only cited installation costs and do not account for maintenance of the L2 charging stations.



communities.” If there is already a proportional distribution of EVSE in low-income communities, why would a mandate be necessary here at the expense of property owners?

Without significant rework of the “SIGNIFICANT RENOVATION” definition, a realistic consideration for economic factors in the legislation, and a new financial remedy to offset the increasing and compounding cost of compliance to our property owners, **MMHA must respectfully request an unfavorable report to SB 695.**

Please contact Matthew Pipkin, Jr. at (443) 995-4342 or mpipkin@mmhaonline.org with any questions.

2024-SB0695-UNFavUNCONSTITUTIONAL.pdf

Uploaded by: Nelda Fink

Position: UNF

SB0695 – UNFAVORABLE UNCONSTITUTIONAL!

Nelda Fink

MD District 32

I strongly oppose this bill because it requires additional building expenses that may not apply to the owners of the units, making purchase more cost prohibitive. A certain requirement is necessary to allow a waterbed be placed on a second floor of a house and many people don't realize this, but the mattress stores do. Or a piano. But does the state require that all 2 story houses meet these requirements that are specific to one situation? No!

This takes away peoples property rights by requiring the owners to have and pay expenses for something they may not even use. Even in a multi-housing complex, it takes away some of the rights of the people living there that have to pay for something that only a few individuals are using. Let's face it – will low income families afford a \$75,000 electric car?

100% OPPOSE this bill and ask an unfavorable report as it is unconstitutional.

Thank you.

Nelda Fink

SB 695-AOBA--UNF.pdf

Uploaded by: Ryan Washington

Position: UNF



Bill No: SB 695—Building Code - Construction and Significant Renovation of Housing Units - Electric Vehicle Parking Spaces

Committee: Environment and Transportation

Date: 3/4/2024

Position: Unfavorable

The Apartment and Office Building Association of Metropolitan Washington (AOBA) represents members that own or manage more than 23 million square feet of commercial office space and 133,000 apartment rental units in Montgomery and Prince George’s Counties.

Senate Bill 695 requires the construction of new multifamily residential buildings with separate garages, carports, or driveways for each residential unit to include certain parking spaces for electric vehicle charging. The bill applies to significant renovations with separate garages, carports, or driveways, defined as housing units that include electric panel upgrades that increase the panel's capacity or parking upgrades that involve repaving or trenching in or around the parking space. Communities making these renovations to the community must include one EVSE-installed parking space capable of providing at least level 2 charging and one EV-ready parking space. If the significant renovation of housing units includes or will include on-site, off-street, and common-use parking, then it must also include, for every 25 residential units, at least one common EVSE-installed parking space.

AOBA supports efforts to expand electric vehicle charging capacity throughout the State. However, AOBA members are concerned about the cost of adding EV charging stations to existing housing units that undergo significant renovations. The bill defines significant renovations as any renovation that includes electric panel upgrades that increase the capacity of the panel or parking upgrades that involve trenching in or around parking spaces.

While electric panel upgrades may increase capacity to meet new appliance or building system requirements, the new capacity may not be sufficient for a level 2 EV

charging station. Thus, this bill could require significantly higher capital investments than housing providers had intended when deciding to make such upgrades. These costs come at a time when the rental housing industry is already under significant strain due to increased operating expenses, such as utilities, labor, and insurance; increased delinquencies due to the pandemic; and new legal mandates, such as the Building Energy Performance Standards and restrictive rent regulations in Montgomery and Prince George's Counties.

The [Maryland Energy Administration \(MEA\) report](#) analyzes the potential cost estimates for a Level 2 (LV2) charging station for different multifamily building types. The report concludes that it cost \$1.4 billion to install LV2 chargers for 10% of parking spaces. That figure increases substantially as more parking spaces are being retrofitted with chargers. Adding L2 Chargers to 50% of parking spaces will cost housing providers \$7.4 billion for multifamily developments. These figures are significant even with financial assistance from the public sector, and other cost saving measures are still exorbitant for AOBA members. Moreover, MEA would have to allocate \$660 million to meet the demand for multifamily communities to make installations.

AOBA members will be burdened with this cost to meet targets set by the State and forced to pass these costs on to residents to ensure compliance with the bill requirements, thus decreasing the State's viable naturally occurring housing stock. The total cost of making such renovations to the parking lot outweighs the payback period on this bill, as it could take about 10 years with assistance or more without. This will result in housing providers not pursuing projects because it is an unappealing investment.

For these reasons, AOBA requests an unfavorable report on SB 695. For further information, contact Ryan Washington, AOBA's Government Affairs Manager, at 202-770-7713 or email rwashington@aoba-metro.org.

SB0695 - Construction and Renovation of Housing -

Uploaded by: Tom Ballentine

Position: UNF



February 28, 2024

The Honorable Brian J. Feldman, Chair
Education, Energy, and the Environment Committee
Miller Senate Office Building, 2 West
Annapolis, MD 21401

Oppose: SB 695 – Construction and Renovation of Housing – Electric Vehicle Charging

Dear, Chair Feldman and Committee Members:

NAIOP represents 22,000+ commercial real estate professionals in the United States and Canada. Our Maryland membership is comprised of a mix of local firms and publicly traded real estate investment trusts that have long-standing investments in Maryland but also have experience in national and international markets. NAIOP members deliver office, mixed use, multi-family, and warehouse developments that meet the changing ways that people work, live, shop and play.

On behalf of our member companies, I am writing to oppose SB 695 which requires installation of electric vehicle charging equipment in existing multifamily buildings and new construction. NAIOP supported HB 830 that passed the House in 2023. We saw that bill as addressing our concerns about the costs of reserving power for parking spaces that may not be used for EV charging for some time, and our ability to synchronize installation of infrastructure with consumer adoption of EVs. This bill is considerably different. Our opposition is based on the following considerations:

- Our members recognize the transition to electric vehicles is underway and will meet the needs of their tenants and customers as the market develops. Synchronizing the installation of equipment and reservation of electric capacity with the rise in demand will reduce the opportunity for equipment and electric capacity to go unused while waiting for the market to mature.
- The most recent data posted to The Alliance for Automotive Innovation dashboard shows EV registrations in Maryland as a share of all registered light-duty vehicles is 1.62%. MDE's estimates assume that many manufacturers will use offsets allowed by Advanced Clean Cars II to reduce EV sales during the early years of the program which begins in 2027. The bill requires installations at much higher percentages than near term market penetration.
- The bill's definitions of EV parking spaces are inconsistent with the energy code. The bill omits ***EV Capable spaces*** from the definitions. This means there is no defined level of service that can be preinstalled without securing and reserving electric capacity. An investment-grade apartment building will provide 400 spaces of on-site parking. Bringing additional power to the site and reserving capacity can be costly to building owners and residents. Unused capacity can be withdrawn by utilities.
- There is no phase-in period. The bill applies to building permit applications submitted on or after October 1, 2024. This effective date will apply the bill to buildings that completed electric load calculations and received utility commitments before its introduction.
- The bill applies state-wide, but EV registrations are concentrated in a few central Maryland jurisdictions, most of which have local installation requirements. Ocean City has a year-round population of 3,600 but 30,000 housing units.
- The definition of multifamily does not follow the building code use group categories that differentiate between residential building use types. As a result, the bill applies to mixed-use buildings, hotels, dormitories, and nursing homes in addition to residential apartments and condominium units.

- The MEA study of multifamily electric vehicle charging estimated the cost of installing equipment at 50% of multifamily parking spaces would be \$7.4 billion. The estimated costs did not include the offsite utility costs to bring electricity supply to the location.
- MEA's cost estimates appear to confirm that, for multifamily other than townhouses, the cost to retrofit individual parking spaces with EV charging equipment is roughly \$47,000 vs. \$43,000 to install in new construction. This would suggest it is cost effective to install equipment as market demand develops vs preinstalling.
- The bill would impose significant costs on multifamily building owners and occupants before providing incentives, and grants at a scale. The MEA study estimated the state Electric Vehicle Supply and Equipment Rebate Program would need to offer \$660 million under its current structure to retrofit 50% of existing multifamily parking spaces. The FY24 funding for the program was \$2.5 million.
- The electric vehicle charging requirements will coincide with and add compliance costs to building energy performance requirements in the Climate Solutions Now Act. The definition of "major renovation" is inconsistent with the International Building Code and presents an inappropriately low trigger. The building codes require modifications to meet current code provisions when alterations affect 50% or more of the building area. The bill requires installation of EV charging capabilities any time the electric panel capacity is expanded or when repaving or trenching near parking areas.
- This would activate the requirements when multifamily buildings replace fossil fuel heat and hot water equipment to meet the requirements of the Climate Solutions Now Act. Repaving and trenching would trigger installation at repair of a water line or simple resurfacing. These activities do not usually require permits and would be of little use to identify regulated activities. For condominium buildings the cost of installation would necessarily need to be included in reserve studies and funded.
- The national codes adopted by Maryland at the next adoption cycle will contain requirements for EV installation. While we respect the authority of the General Assembly to override building and energy codes, we believe that power should be reserved and used in a limited fashion.

For these reasons NAIOP respectfully requests your unfavorable report on SB 695.

Sincerely,



Tom Ballentine, Vice President for Policy

NAIOP – Maryland Chapters, *The Association for Commercial Real Estate*

cc: Education, Energy, and the Environment Committee Members
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SB 695 Building Code - Construction and Significan

Uploaded by: Crystal Hypolite


Position: INFO

Robin Carter
Chairperson, Board of Commissioners

Janet Abrahams
President | Chief Executive Officer



March 1, 2024

TO: Members of the Education, Energy, and the Environment Committee
FROM: Janet Abrahams, HABC President & CEO 
RE: Senate Bill 695 - Building Code - Construction and Significant Renovation of Housing Units - Electric Vehicle Parking Spaces

POSITION: Letter of Information

Members of the Education, Energy, and the Environment Committee, please be advised that the Housing Authority of Baltimore City (HABC) wishes to submit a Letter of Information to request an exemption on properties owned and operated by public housing authorities.

HB 889 - Building Code - Construction and Significant Renovation of Housing Units - Electric Vehicle Parking Spaces requires the construction of new multifamily residential buildings with separate garages, carports, or driveways for each residential unit to include parking spaces for electric vehicle charging. The bill also states that if the construction or renovation of housing units includes significant renovation that includes electrical panel upgrades that increase the panel's capacity or parking upgrades that involve repaving or trenching in or around parking spaces, the following apply:

- For every 25 residential units, at least one common use EVSE installed parking space.
- For a development application or building permit application made on or after October 1, 2024, at least 10% of the parking spaces;
- For a development application or building permit application made on or after January 1, 2030, at least 20% of the parking spaces; and
- For a development application or building permit application made on or after January 1, 2035, at least 30% of the parking spaces.

HABC is the country's 5th largest public housing authority and Baltimore City's largest provider of affordable housing opportunities. HABC is federally funded and regulated by the U.S. Department of Housing and Urban Development (HUD). HABC serves nearly 44,000 of Baltimore City's low to extremely low-income individuals through its Public Housing and Housing Choice Voucher programs. The public housing inventory currently consists of almost 6,000 units located at various developments and scattered sites throughout the city.

Housing Authority of Baltimore City | 417 East Fayette Street, Baltimore, MD 21202

 410.396.3232  www.HABC.org    @BmoreHabc 

HABC is working to transform its public housing developments into thriving mixed-income communities where residents have opportunities for economic mobility. Three of our current major redevelopment initiatives include the Perkins Somerset Old town (PSO) Transformation Plan, Transform Poe and the O'Donnell Heights revitalization plan.

The PSO Transformation Plan includes the demolition and replacement of 629 public housing units as well as the construction of 424 low-income units serving households with an average of 60% AMI, and 307 unrestricted market-rate units spread across the Somerset and Perkins sites.

The O'Donnell Heights revitalization plan includes the construction of approximately 925 mixed income units, including mostly row homes, two-story walk-up flats, and a low-rise apartment building. Under the Transform Poe plan, 288 distressed public housing units at Poe Homes will be demolished and replaced as part of a new mixed-income community that will support existing and future residents.

All three of HABC's current major redevelopment initiatives are in progress and have already been designed by architects. If passed, this legislation would add to both re-design and construction costs, which would result in a delay of upcoming financial closings and the creation of new affordable units for the families we serve. As written, HB 889 will be troublesome for our projects with funding gaps, causing additional costs to projects struggling to find funds.

As HABC performs renovations and continues to redevelop our remaining public housing sites, installation of EV stations would require multiple spaces due to the size of the units, which would impact existing parking spaces on our lots, and further reduce the already limited parking. In addition, as property owners, public housing authorities would be responsible for the cost of providing the electricity for the new spaces, as electric charging stations are considered an amenity that housing authorities are prohibited from charging residents for under federal regulation.

HABC respectfully requests the consideration of the information stated above for purposes of this legislation.

Respectfully submitted:

Janet Abrahams, HABC President & CEO