

# MARYLAND ZERO EMISSION

**Electric Vehicle Infrastructure Council** 

April 24, 2024

# Agenda

- Welcome and Announcements
- Public Comments
- 2024 MGA Legislative Session Recap
- Zero Emission Commercial and Freight Transportation Corridors
- Closing Remarks



# Welcome and Announcements

Deron Lovaas, ZEEVIC Chair & MDOT Chief of Environment and Sustainable Transportation

## ZEEVIC Member Welcome

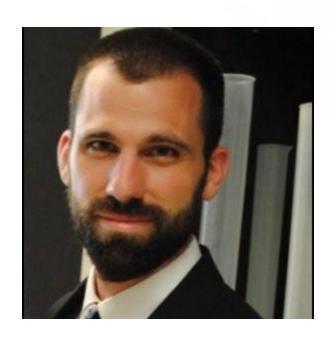


Diego Lopez

ZEEVIC Seat: MEA Director's Designee Affiliation: Maryland Energy Administration (MEA)



## ZEEVIC Member Welcome



**Ryan Powell** 

ZEEVIC Seat: Department of Commerce Secretary's Designee Affiliation: Maryland Department of Commerce



# Maryland By The Numbers



Maryland By the Numbers\*:











\*As of March 31, 2024



### Announcement - DGS

- EVAL Gold Certification
- DGS was awarded Forth's <u>Electric Vehicle</u> <u>Adoption Leadership (EVAL)</u> Gold certification
- EVAL is a national workplace charging certification program that provides recognition and technical assistance to organizations supporting the adoption of clean transportation.
- Notable efforts leading to the award included:
  - 8 EV chargers installed at the State Center Office Complex in Baltimore, MD (with BGE EV Smart)
  - An EV Ambassadors affinity group, info sessions and Ride and Drive events
  - Participation in Electrification Coalition state fleet cohort, hosting state agency EV Strategy meeting





# Announcement - DGS

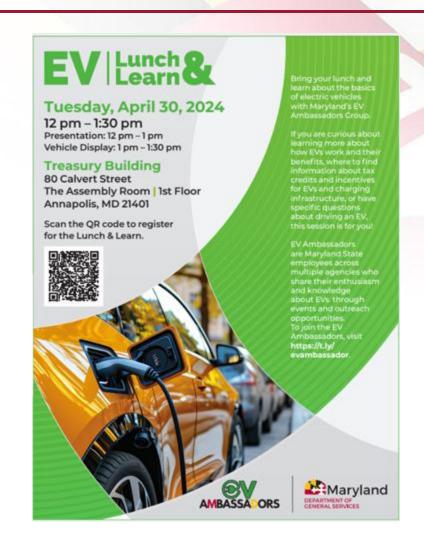
Upcoming Event: Lunch & Learn

Tuesday, April 30, 2024

12-1:30 pm

Treasury Building

State employees are welcome to join us for this free event!





#### Announcement - MDOT

#### **NEVI Program Update**

#### Round 1 RFP Closed on April 10th

- Reviews now underway
- Conditional awards expected in early July
- Round 2 expected late 2024/early 2025

#### **EV and Infrastructure Planning Survey**

- Soliciting community input to identify challenges and opportunities associated with EV ownership and EV charging infrastructure installations
- Available until May 15th: https://tinyurl.com/MDEVCommunitySurvey

#### Maryland Electric Vehicle (EV) and Infrastructure Planning Survey The Maryland Department of Transportation (MDOT) needs your help to identify the challenges and opportunities associated with electric vehicle (EV) ownership and the installation of EV charging infrastructure. The information we gain from this survey will help us better understand how to make the best use of federal and state funding to electrify the transportation sector and meet our state's greenhouse gas (GHG) reduction goals. The survey will take about 10 minutes to complete. Maryland Energy MARYLAND DEPARTMEN Administration OF TRANSPORTATION Never give out your password. Report abuse



# **Public Comments**

# 2024 MGA Legislative Session - Recap

Josh Cohen, ZEEVIC Legislative WG - Chair

# 2024 Legislative Session Recap

- Maryland's "right to charge" protection, which currently applies to condominiums and homeowner associations (HOAs), expanded to include common ownership communities (COCs) (HB 0159 / SB 0465)
- ZEEVIC's membership expanded to include two new members 1) DGS, 2) MHDV EV manufacturer. (HB 0437)
- Established an Electric Vehicle Supply Equipment Workgroup that will develop a reliability and reporting framework for EV charging stations (HB 1028 / SB 0951)
- Requiring electric companies to file time-of-use tariffs with the PSC to incentivize
  off-peak electricity consumption including EV charging, and requiring electric
  companies to establish expedited processes for customers to interconnect
  bidirectional EV charging systems (HB 1256 / SB 0959)
- Establishment of an annual registration fee for ZEV owners in Maryland, \$125 per ZEV and \$100 per PHEV (SB 0362)



# 2024 MGA Passed ZEV Legislation

| Bill #           | Bill Title and Synopsis   | ZEEVIC Position |
|------------------|---|-----------------|
|                  | Common Ownership Communities - Electric Vehicle Recharging Equipment (Electric Vehicle Recharging Equipment Act of 2024)  |                 |
| HB0159<br>SB0465 | Altering certain requirements for procedures relating to electric vehicle recharging equipment; establishing requirements and procedures relating to an application to the governing body of a cooperative housing corporation to install or use electric vehicle recharging equipment; and requiring the Department of Housing and Community Development to publish information on its common ownership community website regarding requirements, contractor information, certain points of contact, and resources on dispute resolutions. | Support         |
|                  | Maryland Zero Emission Electric Vehicle Infrastructure Council – Membership   |                 |
| HB0437<br>SB0553 | Codifying provisions relating to the Maryland Zero Emission Electric Vehicle Infrastructure Council; altering and clarifying the composition of the Council to include certain public and private sector members; requiring the Council to submit interim reports of its work to the Governor and the General Assembly on or before December 1, 2024, and December 1, 2025; and requiring the Council to submit a final report of its work and recommendations by June 30, 2026.  | Support         |
|                  | Electric Vehicle Supply Equipment Workgroup   |                 |
| HB1028<br>SB0951 | Establishing the Electric Vehicle Supply Equipment Workgroup; and requiring the Workgroup to report its framework and recommendations to the Senate Education, Energy, and the Environment Committee and the House Economic Matters Committee on or before November 1, 2024.  | Did not comment |
|                  | Electricity – Tariffs, Distributed Energy Resources, and Electric Distribution System Support Services (Distributed Renewable   |                 |
| HB1256<br>SB0959 | Integration and Vehicle Electrification (DRIVE) Act)  Requiring a certain electric company to file certain time-of-use tariffs with the Public Service Commission by July 1, 2025; requiring a certain electric company to attempt to achieve a certain enrollment target for certain tariffs by January 1, 2028; authorizing the Commission to require the automatic enrollment of certain customers in a time-of-use tariff on an opt-out basis; requiring the Commission to certain adopt regulations on or before May 1, 2025; etc.     | Did not comment |
| <b>SB0362</b>    | Budget Reconciliation and Financing Act of 2024  MARYLAND   | Did not comment |

# 2024 Failed ZEV Legislative Proposals

| Bill #           | Bill Title   | ZEEVIC Position |
|------------------|--|-----------------|
| <u>HB0064</u>    | Motor Vehicle Excise Tax - Tax Credit for Electric Vehicles - Eligibility  | Support         |
| <u>HB0156</u>    | Transportation - Electric Bicycle Rebate and Voucher Program - Establishment   | Support         |
| HB0652<br>SB0870 | Vehicle Laws - Electric Vehicles - Weight Limits   | Support         |
| <u>HB0689</u>    | Electric Vehicles – Repeal of Excise Tax Credit and Establishment of Rebate Program  | Support         |
| HB0889<br>SB0695 | Building Code - Construction and Significant Renovation of Housing Units - Electric Vehicle Parking Spaces   | Support         |
| HB1279<br>SB1023 | Maryland Building Performance Standards - Fossil Fuel Use, Energy Conservation, and Electric- and Solar-Ready Standards (Better Buildings Act of 2024) | Support         |
| HB1247<br>SB1063 | Environment – Advanced Clean Cars II Program – Application and Enforcement   | Oppose          |



# 2024 Failed ZEV Legislative Proposals

| Bill #           | Bill Title   | ZEEVIC Position |
|------------------|--|-----------------|
| <u>HB0774</u>    | Motor Vehicles - Certificate of Title Fees - Zero-Emission Plug-In Electric Drive Vehicles             | No Position     |
| <u>HB0913</u>    | Motor Vehicles – Registration – Annual Surcharge   | No Position     |
| <u>SB1065</u>    | Motor Vehicles - Registration - Annual Surcharge   | No Position     |
| HB1280<br>SB1076 | Sales and Use Tax – Electricity to Charge Electric Vehicles – Transportation Trust Fund                | No Position     |
| <u>HB1428</u>    | Public Safety - Electric Vehicle Charging Station Safety Commission                                    | Did not comment |
| <u>HB0150</u>    | Vehicle Emissions Inspection Program and Diesel Vehicle Emissions Control Program - Fees and Fines     | Did not comment |
| <u>HB1010</u>    | Condominiums and Homeowners Associations - Governing Documents - Electric Vehicle Recharging Equipment | Did not comment |



# Zero Emission Commercial and Freight Transportation Corridors

Scott Halerz, Jacobs

# National Zero Emission Freight Corridor Strategy

- Strategy Goals
  - Achieve Administration goals
  - Scale growth in zero emission freight technologies
  - Respond to congressional requirements under BIL
- Prioritize investments areas along the National Highway Freight Network
- Stakeholder engagement
- Infrastructure Build-out (Timeline)
  - Phase 1 Establish Hubs (2024-2027)
  - Phase 2 Connect Corridors (2027-2030)
  - Phase 3 Expand Network (2030-2035)
  - Phase 4 Complete Network (2035-2040)



#### **National Zero-Emission Freight Corridor Strategy**

Released: March 2024

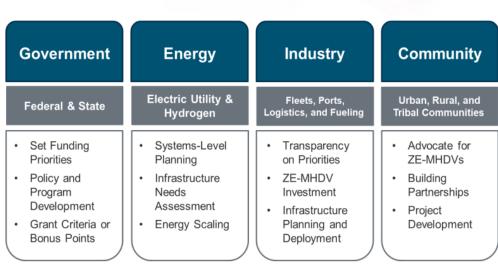
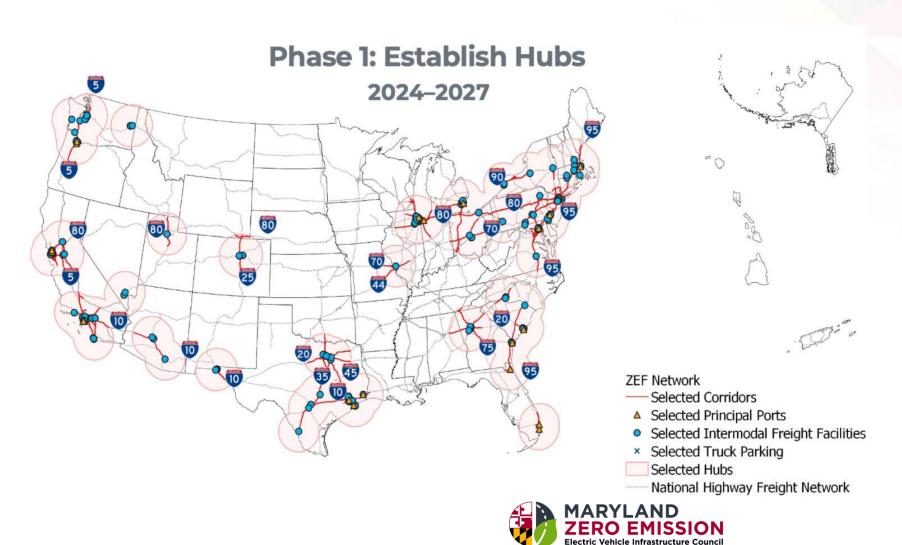
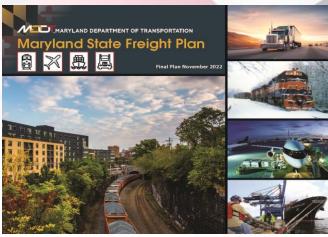




Figure 1. National Zero-Emission Freight Corridor Strategy stakeholder groups and implementation

# National Zero Emission Freight Corridor Strategy





| MD Zero-Emission Freight Hubs |                  |  |  |  |
|-------------------------------|------------------|--|--|--|
| for Phase 1 and 2             |                  |  |  |  |
| Location                      | Facility Type    |  |  |  |
| BWI Airport                   | Air to Truck     |  |  |  |
|                               | Intermodal       |  |  |  |
| Baltimore                     | Freight Rail     |  |  |  |
|                               | Intermodal       |  |  |  |
| Baltimore – Seagirt           | Freight Rail     |  |  |  |
| Marine Terminal               |                  |  |  |  |
| Port of Baltimore             | Principal Port   |  |  |  |
|                               | Marine Freight   |  |  |  |
| Port of Baltimore             | Roll-on Roll-off |  |  |  |

## East Coast Commercial ZEV Corridor

- U.S. DOE funded Planning Partnership 2023-2025
- Focus on locating prime areas along the I-95 corridor for alternative fuel refueling stations promoting equity, innovation, and clean air.
  - Identity Key Freight Nodes
  - Identify infrastructure technical challenges and strategies
  - Planning through best practices
- Working Groups
  - Community Needs and Benefits
  - Industry and Fleet Needs
  - Infrastructure Planning































# Powering America's Commercial Transportation (PACT)

Aravind Kailas and Kelly Bobek, Volvo Group North America

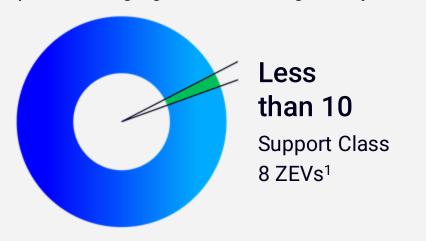


#### What is PACT?

PACT is an advocacy coalition focused on accelerating the adoption of medium- and heavy-duty (MHD) zero-emission vehicles (ZEVs) by overcoming barriers to the deployment of ZEV infrastructure

MHD ZEV deployments currently outpace infrastructure readiness

**60,000** public charging stations for light-duty ZEVs





<sup>1</sup> https://afdc.energy.gov/stations/#/analyze?country=US&fuel=ELEC&ev\_levels=all

### Our Challenge

The country's infrastructure readiness, ZEV-focused goals, and enabling regulations are not in sync

Building ZEV infrastructure takes time<sup>2</sup>





<sup>&</sup>lt;sup>2</sup> https://efiling.energy.ca.gov/GetDocument.aspx?tn=250051&DocumentContentId=84769

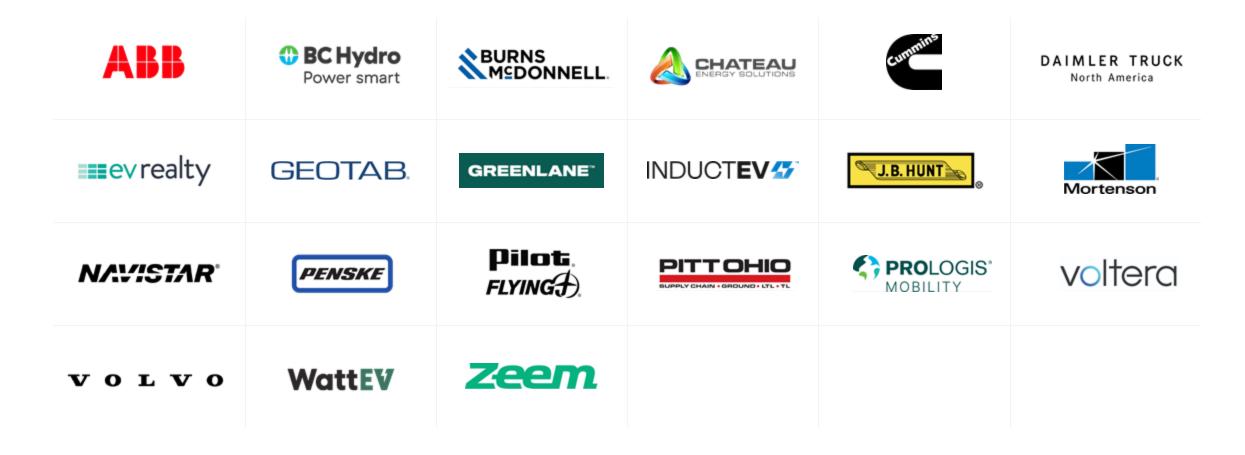
#### **Our Goal**

To expedite the delivery of nationwide infrastructure for MHD zero-emissions vehicles by establishing a unified voice for stakeholders, equipped with resources, knowledge, and experience.





#### **Founding Members**





#### **Our Approach**



#### Collaborate

Convening cross-sector stakeholders whose operations would benefit from a streamlined approach to deploying ZEV infrastructure



#### **Educate**

A multi-channel approach to inform stakeholders about the state of ZEV infrastructure and installation challenges fleets face



#### **Advocate**

Specific policies, regulations, and funding are needed to support the deployment of reliable ZEV infrastructure for commercial fleets



#### Lead

Share best practices to launch and execute commercial ZEV infrastructure projects



#### **Continual Strategy Development**

PACT Reassesses and Revises Strategy Based on State Inputs and Feedback





#### **PACT Strategy Outline**

Each Priority State Combines Key Factors Favorable to M/HD ZEV Infrastructure Deployment

#### **Business Case**

ZEV Trucks Current or Planned Deployment



ACT or ACF states

#### **Existing Incentives**

Incentives are available for vehicle purchase and infrastructure build



#### Port Emissions Reductions

Large ports with focus on drayage emissions reduction

#### Progressive Utility Partner

Utility is forward leaning on transportation electrification



#### **2024 ZEV Infrastructure Strategy Overview**

#### **PACT Policy Objectives**

#### **Permitting**

 Streamline permitting processes to accelerate project timelines

#### **Power**

- Encourage "no regrets" planning
- Advance legislation to authorize planning assessments and grid studies ahead of established demand

#### Power

 Educate utilities and regulators to inform best practices and identify opportunities for managed charging

#### **Funding**

 Increase available funding for medium- and heavy-duty ZEV infrastructure through incentive programs, grants, and set-asides



# **2024** ZEV Infrastructure Objectives: States

- Advance legislation that accelerates access to power, authorizes pre-builds, and directs funding toward MHD ZEV infrastructure projects
- Partner with utilities to establish best practices for accommodating ZEV infrastructure
- Community engagement





#### 2024 Near- and Mid-Term Activities

#### Regulation

- State Public Utility Proceedings
  - Transportation Electrification and Energy Forecasting Planning
  - Medium-and Heavy- Duty Vehicle Make-Ready Program Cases
  - Energization and Grid Pre-Build Rulemakings
  - General Rate Cases
- Federal Charging and Infrastructure Programs
  - Formula Funding and Grants

#### **Policy making**

- Make-Ready, Pre-Build, Energization/Interconnection
- Grid Planning, Studies and Assessments
- Permitting
- Charging Infrastructure Site Design
- Tax Incentives, Grant Funding, Pilot Programs

#### **Education**

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- Fact sheets
- White papers
- Industry Conferences
- Webinars
- Roundtables



#### **2024** Engagement

#### Regulation

- CT PURA Comments
- NY PSC Comments
- CPUC Energization
   Timelines Comments
- CPUC TEP&I Scoping Memo
- CARB LCFS

#### **Policy making**

- Powering Up Illinois
- NY Pre-Build

#### **Education**

- Fact sheets
- White House Roundtable on Zero-Emission Freight Infrastructure

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 ACT Expo, GTSE, MOVE America





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# Needs Assessment Study Clean Trucks Act of 2023

Tim Shepherd, Maryland Department of the Environment

# Clean Corridor Coalition (C3) CPRG Proposal

Amanda Hinh, MDOT

# Clean Corridor Coalition (C3) CPRG Proposal

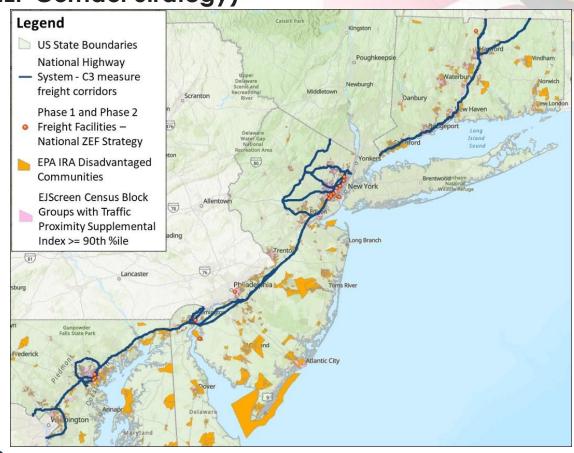
Multi-State Proposal for Zero Emission Medium- and Heavy-Duty Vehicle Charging Hubs Along the I-95 Corridor (Phase 1 Priority in National ZEF Corridor Strategy)

New Jersey (lead), Connecticut, Delaware, Maryland (MDE & MDOT)

#### Total \$227 Million Request for:

- ZE-MHDV Charging Hubs
- Technical assistance to host sites
- Local workforce development and job creation
- Community engagement for site selection and workforce development program input
- Beginnings of a wider Northeast and Mid-Atlantic public freight truck charging network

Maryland's Apportionment: 34% of Total Request





# Closing Remarks

ZEEVIC Meeting Schedule through 2024

- July 24
- October 24

To receive ZEEVIC Meeting Notices, email: <a href="mailto:ZEEVIC@mdot.maryland.gov">ZEEVIC@mdot.maryland.gov</a>

