NEVI & ZEEVIC

Transportation Planning Board

R. Earl Lewis, Jr. – Deputy Secretary

Maryland Department of Transportation

December 21, 2022



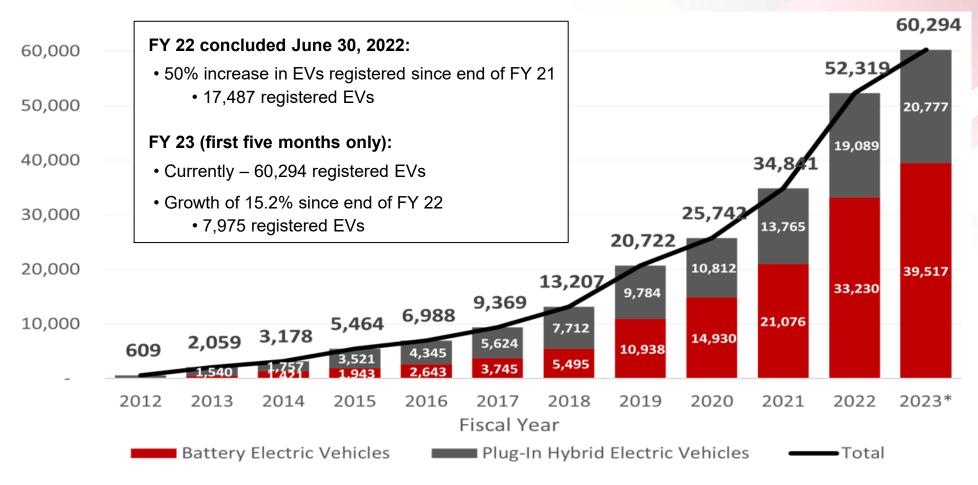
NEVI & ZEEVIC Update

- EV Registrations in Maryland
- IIJA & NEVI
- MDOT's NEVI Plan
- Other EV Charging Programs
- ZEVs
- Equity
- ZEEVIC
- Other Partnerships





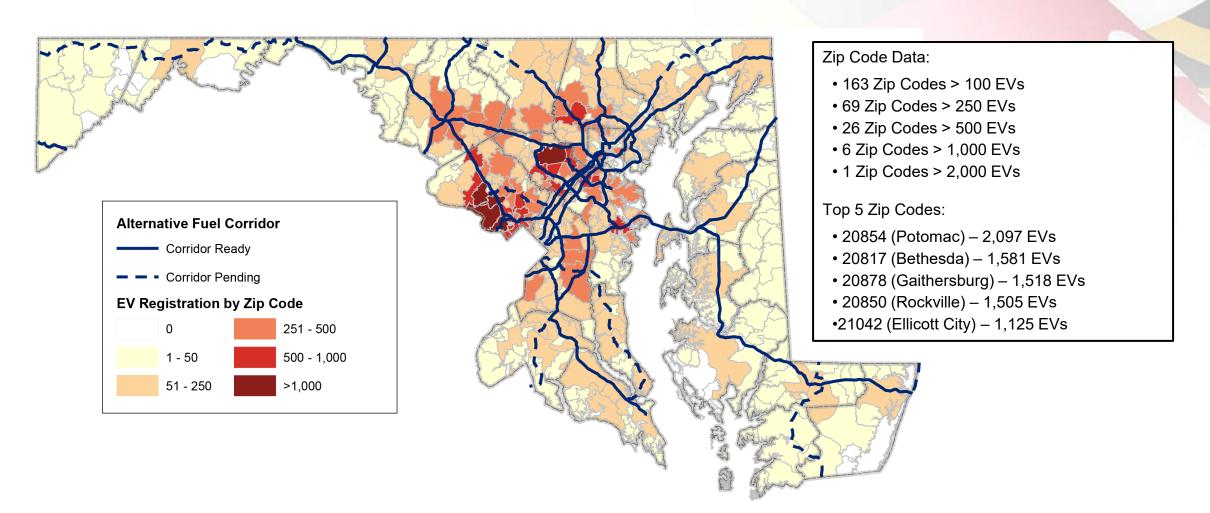
Registered EVs at the Close of Fiscal Year



^{*}The end of FY is June 30th. FY 2023 total reflects EV registration as of November 30, 2022.

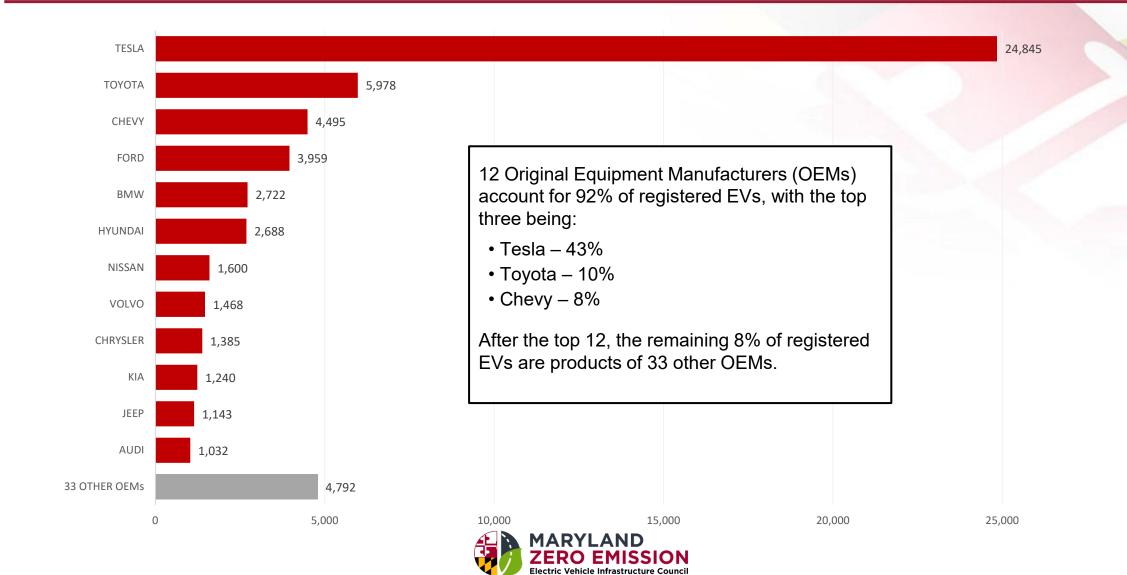


Registration by Zip Code





Makes Registered



NEVI Program

- Goal of 500,000 charging stations nationwide
 - 4 fast chargers every 50 miles and within 1 mile of corridors
- \$60 million for Maryland over five years
- Also available is \$2.5 billion in discretionary grants through other programs:
 - Corridor Charging grants = \$1.25 billion
 - Community Charging grants = \$1.25 billion





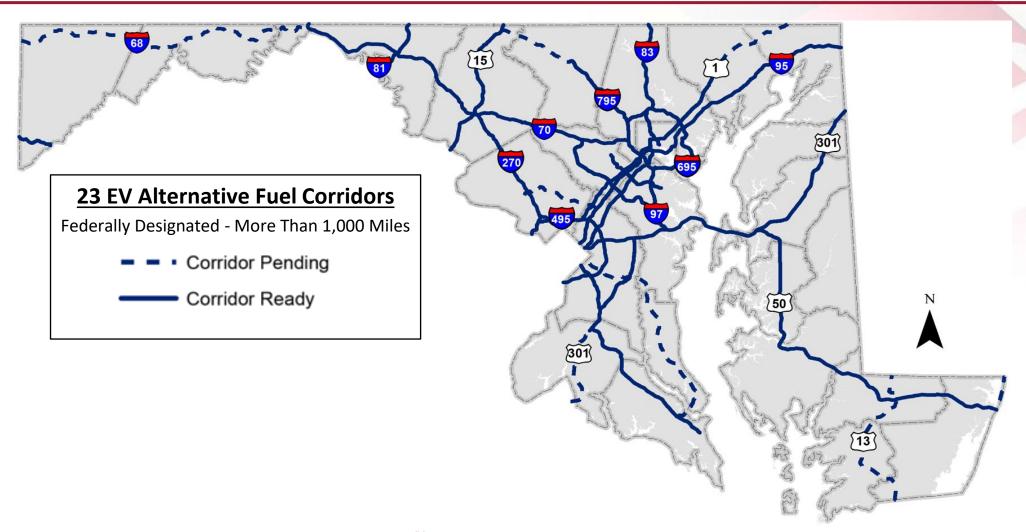
MDOT's NEVI Program

- MDOT one of the first to submit plan on July 15
- Among first group of states approved September 14
- 23 Alternative Fuel Corridors
 - Including 3 designated as pending hydrogen fuel corridors



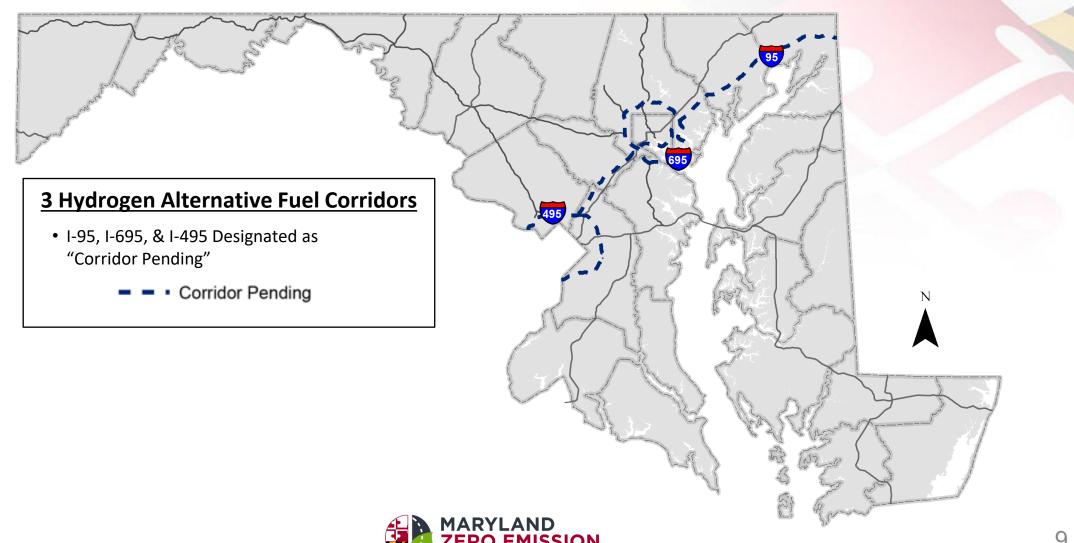


23 EV Alternative Fuel Corridors

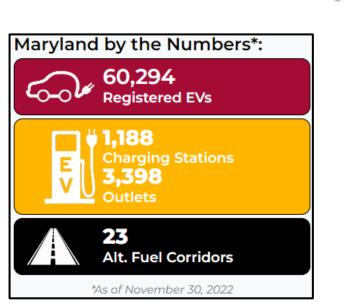


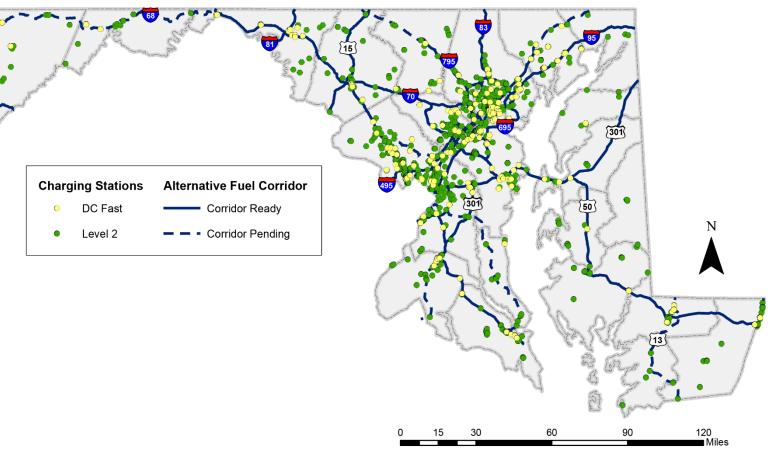


Hydrogen Alternative Fuel Corridor



Charging Station Locations in Maryland







Other EV Charging Programs

Maryland Public Service Commission

- 900 public charging stations
- Subsidies for at-home charging equipment
- Public chargers at state park and ride locations

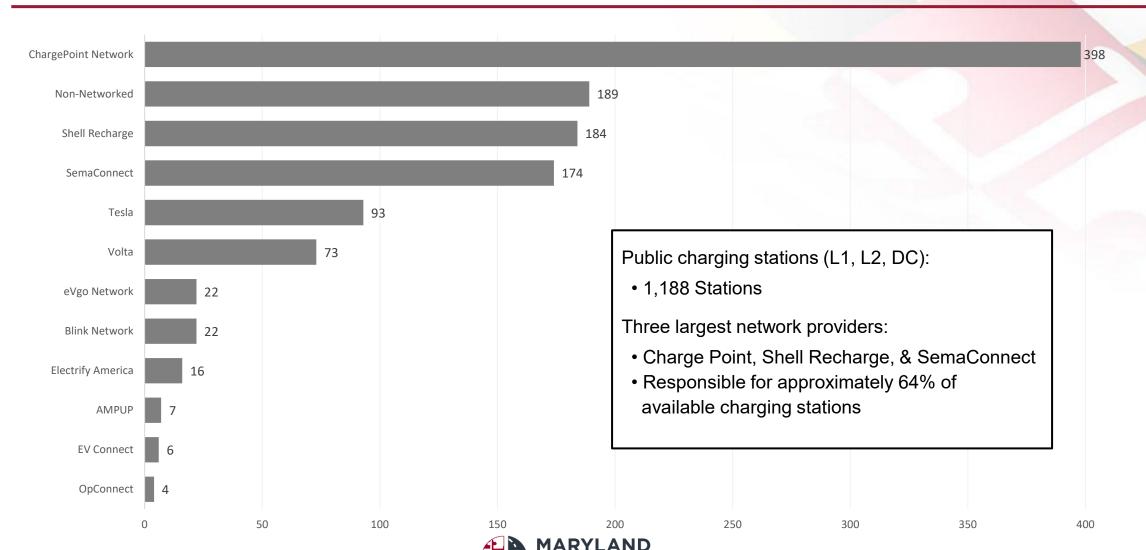
BGE & Lyft Partnership

Public chargers at BWI
 Thurgood Marshall Airport

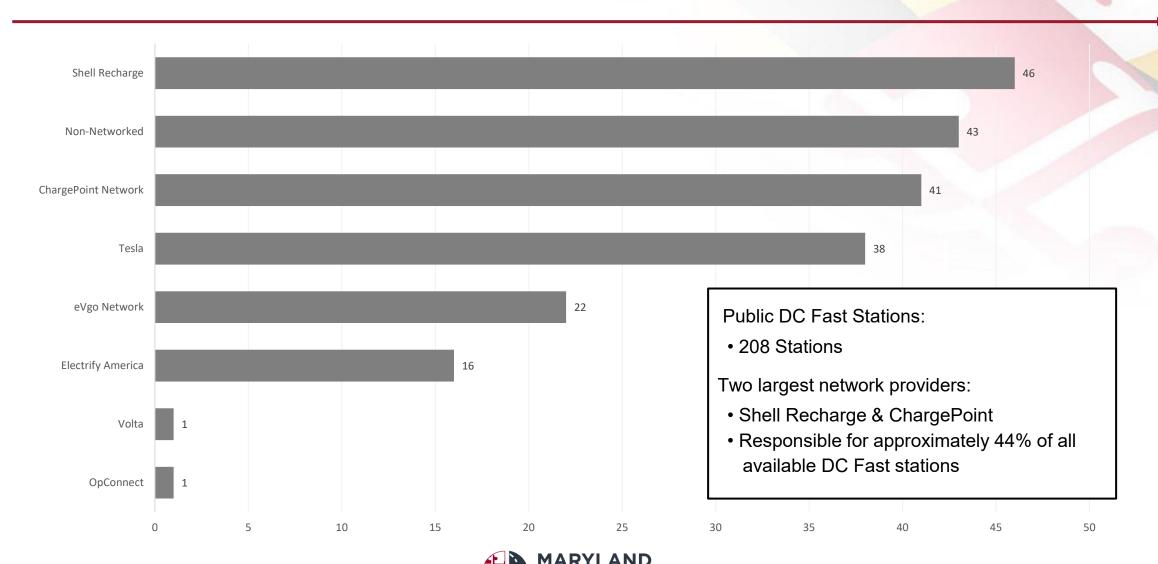




Charging Networks – All Stations



Charging Networks – DC Fast



Addressing Equity



ACCESSIBILITY

Ensuring all Marylanders and Visitors Have Access to Reliable EV Charging

Geographic Diversity

Rural/Urban

Corridors/Communities

Multi-Lingual Graphic User Interfaces

ADA Compliance

Multi-Unit Dwellings

Employment Centers

Safety While Charging

Grid Reliability



AFFORDABILITY

Creating Incentives, Innovations, and Systems that Increase Affordability of EV Ownership and Charging

Leveraging state, local, federal, and private funding

Cost of Vehicles

Cost of Charging

Mobility Hubs

Carshare

Rideshare

ZEV Transit



COMMUNICATION

Meeting People where they are, Listening, and Educating

Multi-Lingual Materials

Events

Webinars

Surveys and Polls

Geofencing

Website

Social Media

Calculators



ZEEVIC

Electric Vehicle Infrastructure Council (EVIC) established by MD State Legislature

2019

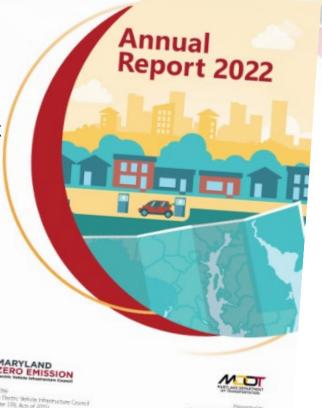
Membership, responsibilities and reporting requirement expanded:

- Zero emission vehicles (ZEVs)
- Fuel cell electric vehicles (FCEVs)

Renamed Zero Emission Electric Vehicle Infrastructure Council

2020

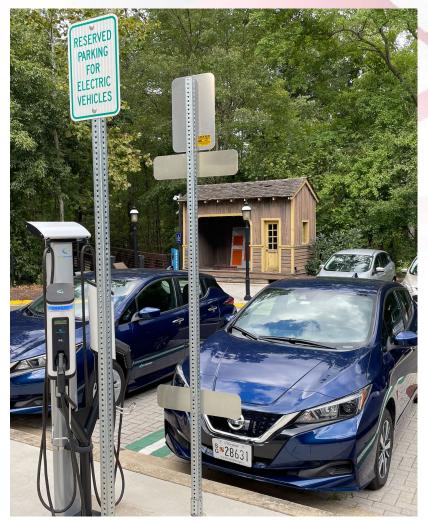
Membership expanded further Sunset date extended to 2026





EVs & ZEVs

- 25% of passenger vehicle purchases for state fleet must now be ZEVs
- MTA aggressively transitioning towards zeroemission bus fleet
 - Investing more than \$436 million
 - First buses expected to arrive mid-2023
- MTA will convert 50% of its transit bus fleet to ZEVs by 2030
 - That's 350 buses out of a 700-bus fleet
- MAA planning to replace parking lot shuttle buses at BWI Airport with electric models





IRA Tax Incentives

EV & Solar Infrastructure

EXTENDED & EXPANDED TAX CREDITS FOR EV CHARGERS & CLEAN ENERGY

IRA restores expired tax credits for installing EV chargers in homes and businesses

ALTERNATIVE REFUELING PROPERTY

Targets accelerated installation of EV charging infrastructure

INVESTMENT TAX CREDIT

 Provides a tax credit based on capital investment in a variety of renewable and conventional energy technologies

ENERGY INVESTMENT CREDIT

 Tax credit for capital investment to deploy a variety of qualified clean energy technologies

CLEAN ELECTRICITY INVESTMENT CREDIT

 A technology neutral tax credit for capital investment to deploy clean energy facilities and storage technologies

ENERGY EFFICIENT COMMERCIAL BUILDINGS DEDUCTION

 A deduction for building energy efficient commercial buildings or to retrofit commercial buildings to become energy efficient



Multi-State Agreements

Mid-Atlantic Electrification Partnership

D.C., West Virginia, and Virginia

Multi-State ZEV Action Plan

 California, Connecticut, Maryland, Massachusetts, New York, Oregon, Rhode Island and Vermont

Multi-State ZEV Task Force

 California, Colorado, Connecticut, Hawaii, Maine, Maryland, Massachusetts, Nevada, New Jersey, New York, North Carolina, Oregon, Pennsylvania, Rhode Island, Vermont, Virginia, Washington and Washington, D.C.

Mid-Atlantic Electric School Bus Experience (MEEP)

 Maryland, New Jersey, Pennsylvania, Virginia and Washington, D.C.





Thank You!





















