

Maryland Electric Vehicles and Infrastructure By the Numbers – 2024

Developed by the Maryland Zero Emission Electric Vehicle Infrastructure Council (ZEEVIC) as part of the [2024 ZEEVIC Annual Report](#), **By the Numbers** highlights key metrics about electric vehicle (EV) adoption, charging infrastructure, and a variety of ongoing efforts that support the transition to zero emission vehicles (ZEVs).

Electric Vehicles

Maryland continues to see considerable growth in the number of EVs registered. In 2024, Maryland surpassed the 100,000 registrations milestone. EVs are defined as the sum of battery electric vehicles (BEVs) and plug-in hybrid electric vehicles (PHEVs). For more detail about EV registrations, including a map of registrations by ZIP code, visit MDOT’s interactive [EV Dashboard](#).

Electric Vehicles*

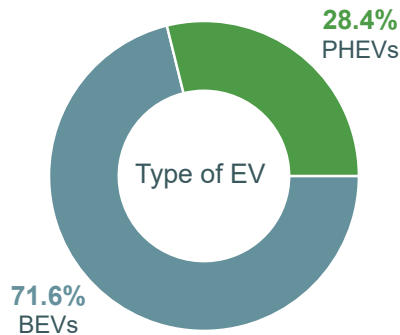
120,839
EVs Registered

253
out of 445
ZIP Codes
have at least 50 EVs registered

26
ZIP Codes with
more than 1,000 EVs Registered

Top 5 Zip Codes

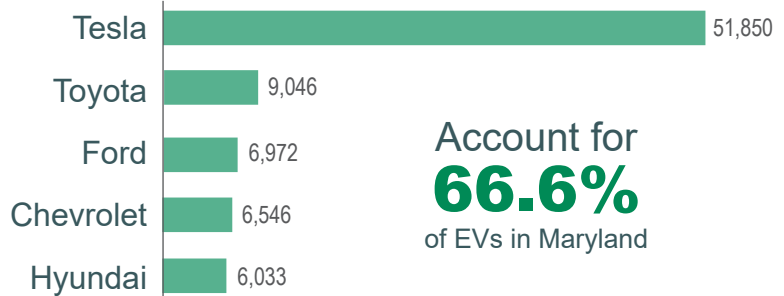
20850	Rockville - 3,798 EVs
20854	Potomac - 3,638 EVs
20878	Gaithersburg - 2,931 EVs
20817	Bethesda - 2,778 EVs
21076	Hanover - 2,540 EVs



31,859
EVs Registered
within last 12 months

19.60
EVs per 1,000 people

Top 5 OEMs



Account for
66.6%
of EVs in Maryland

12% of New Car Sales
in Maryland are EVs

2.3% of all vehicles
are EVs

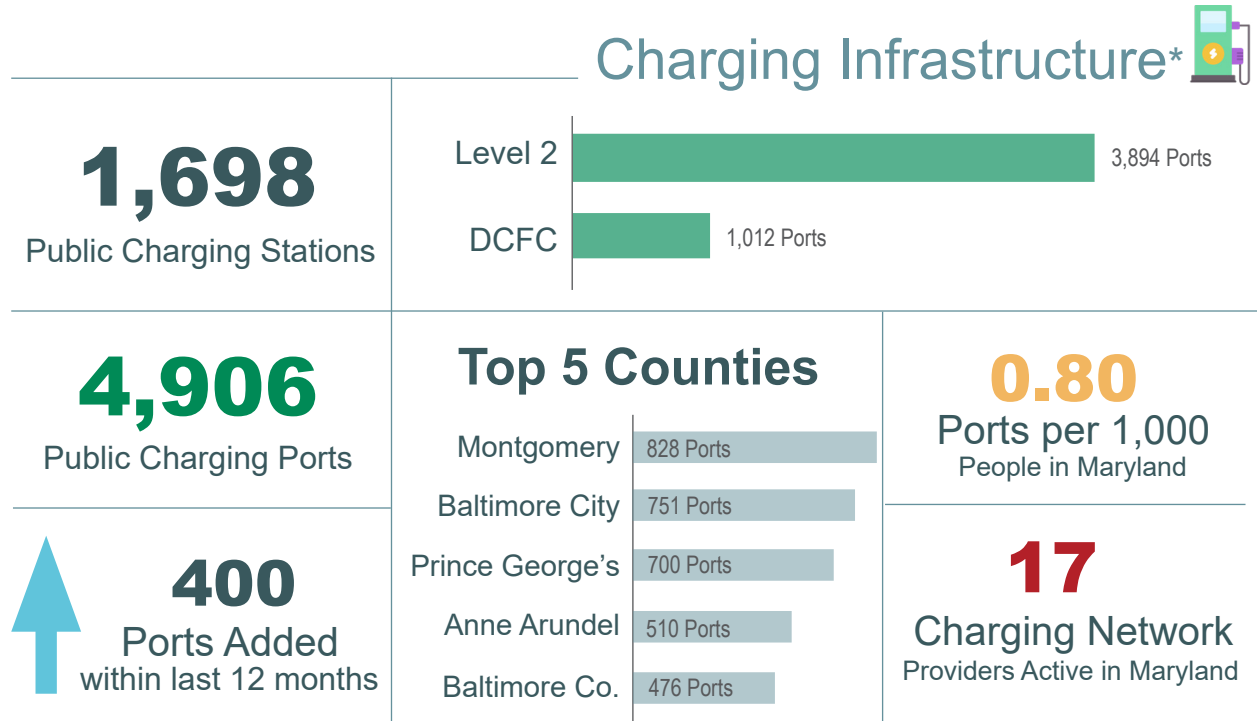
Goal: **1.1 Million**
EVs Registered by 2030
to support Maryland’s 60% GHG reduction goal



* Data as of October 31, 2024

Charging Infrastructure

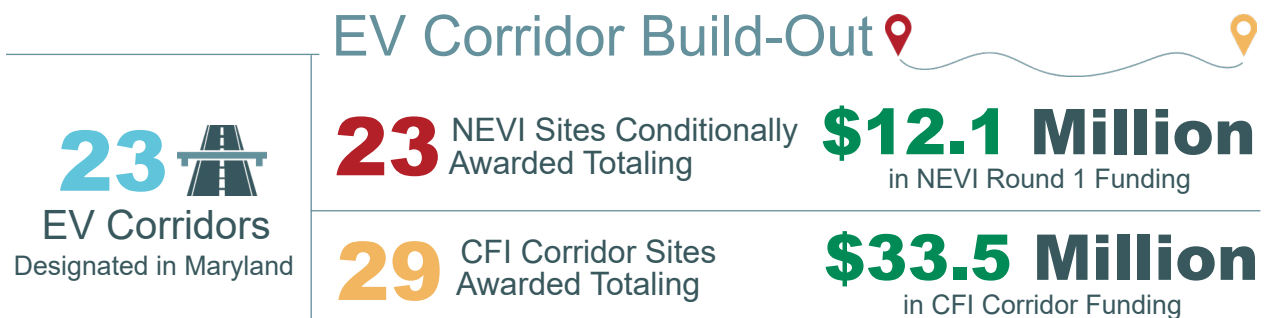
EV charging infrastructure across the State continues to expand. The availability of convenient and reliable charging is essential to support the continued growth in EVs.



* Data as of October 31, 2024

EV Corridor Build-Out with NEVI and CFI

Maryland has designated EV Alternative Fuel Corridors (EV Corridors) that are part of a national network of highway corridors established by the Federal Highway Administration (FHWA). With federal funding from the National Electric Vehicle Infrastructure (NEVI) Program and the Charging and Fueling Infrastructure (CFI) Corridor Grant Program, convenient, reliable, fast charging is expanding along Maryland's EV Corridors. In 2024, MDOT launched its first round of NEVI funding and made conditional awards for sites along EV Corridors. By the end of 2024, the Request for Proposals for the second round of NEVI will be released.




State Investment & Incentives

Maryland invests in EVs and EV infrastructure through a variety of incentives and programs administered by the Maryland Energy Administration (MEA), the Maryland Department of the Environment (MDE), and the Motor Vehicle Administration (MVA).

State Investment & Incentives

2,751
Vehicles Received
\$8.25 Million
in Excise Tax Credit in FY 24

2,662
Residential EVSE
Rebates Awarded in FY 24  Total Awarded:
\$1.6 Million

14 
Awards in FY 24
for the MHD ZEV Grant Program
Totaling More Than
\$8.6 Million
in FY 24 Funding for
54 EVs

225
Commercial EVSE
Rebates Awarded in FY 24  Total Awarded:
\$860,476

2 Projects
Awarded in FY 24
for OPEN Energy Grant Program
Totaling
\$403,000
in FY 24 Funding

10 Communities
Awarded in FY 24
for the Maryland Smart
Energy Communities Program
Receiving
\$649,750
in FY 24 Funding

State Investments Budgeted

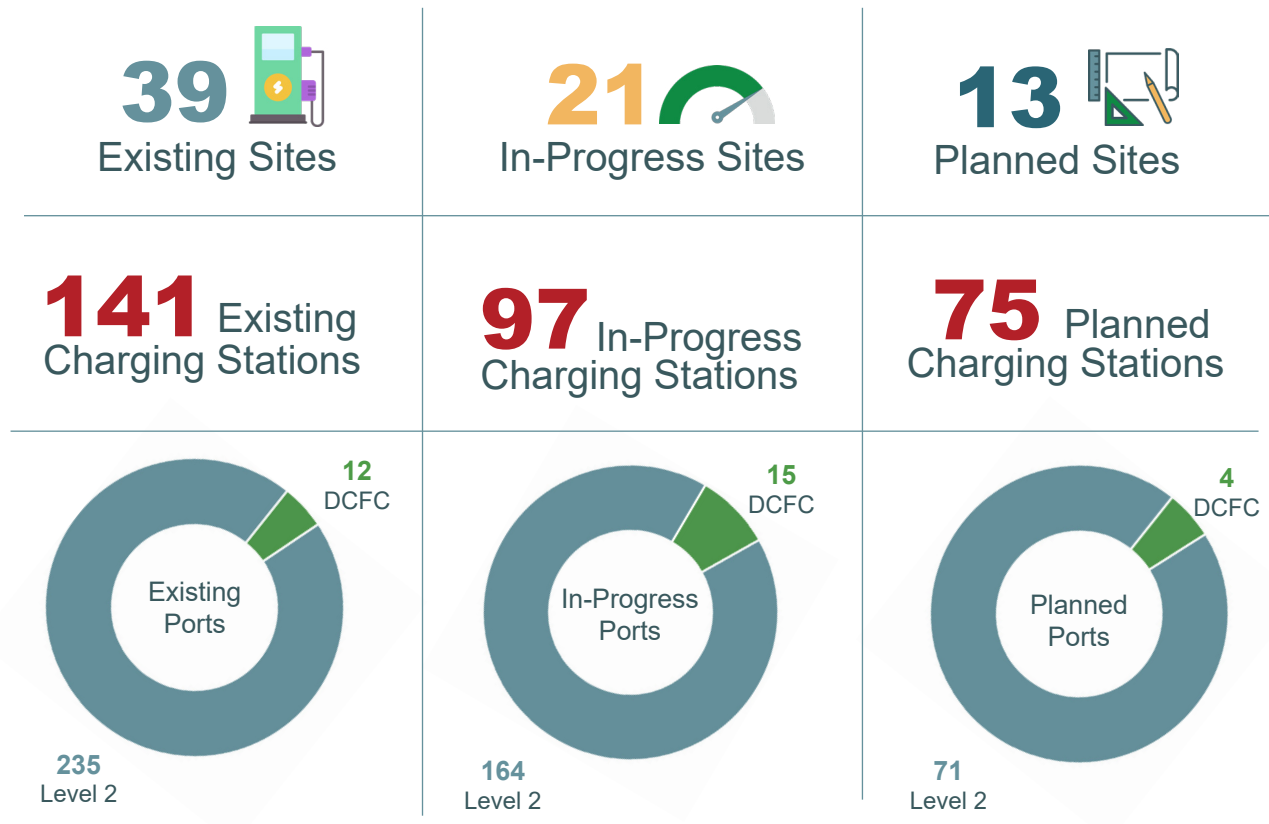
Excise Tax Credit (FY 25)	\$8.25 Million
EVSE Rebate Program (FY 25)	\$2.5 Million
EVSE Equity Program	\$23 Million
MHD ZEV Grant Program (FY 25)	\$10 Million
Electric Corridor and Charge Ahead Grant Programs (Round 3)	\$3.7 Million
Electric School Bus Grant Program (MDE)	\$3 Million
Electric School Bus Funding (VW Settlement Funds)	\$4-5 Million
Electric School Bus Grant Program (MEA)	\$17 Million
Maryland Smart Energy Communities (FY 25)	\$9.5 Million

OVER \$81 Million 
In State Investments Budgeted

State Fleet Charging Infrastructure

Electrification of State fleet vehicles is an important aspect of Maryland’s climate change mitigation strategy. The Department of General Services (DGS) coordinates installation of EV charging infrastructure at State-owned facilities to ensure charging is available as State agencies transition their fleets to ZEVs


State Fleet Charging Infrastructure



Public Service Commission & Utilities

Under the Public Service Commission (PSC) EV Pilot Program established in 2018, Utilities offer a variety of EV programs in their respective territories. These include Public Charging, whereby Utilities operate EV chargers accessible to the public on government property; enrollment of Utility customers in Time of Use (TOU) EV charging, to incentivize EV charging during off-peak hours; and programs that facilitate installation of chargers in multi-unit dwelling (MUD) communities.

Public Service Commission & Utilities*

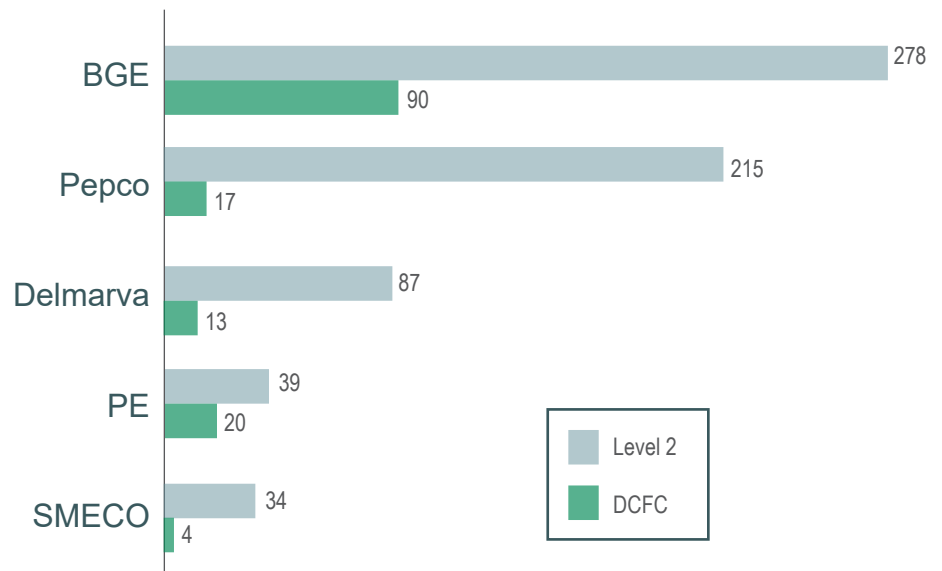
797 
Public Charging
Stations

120 
MUD Sites with
Utility-owned Chargers

138 Charging
Stations
Installed on MUD Properties

4,666 
Customers Enrolled
In EV TOU Rate Program

Public Charging Stations by Utility



* Utility Semi-Annual Progress Reports August 2024

Outreach & Education

ZEEVIC member organizations conduct outreach and educational efforts that promote the adoption of ZEVs in Maryland. These efforts include in-person events, the MarylandEV website, surveys, and webinars. These efforts are in accordance with the directive to ZEEVIC in its enabling legislation, to increase consumer awareness and demand for ZEVs through public outreach.

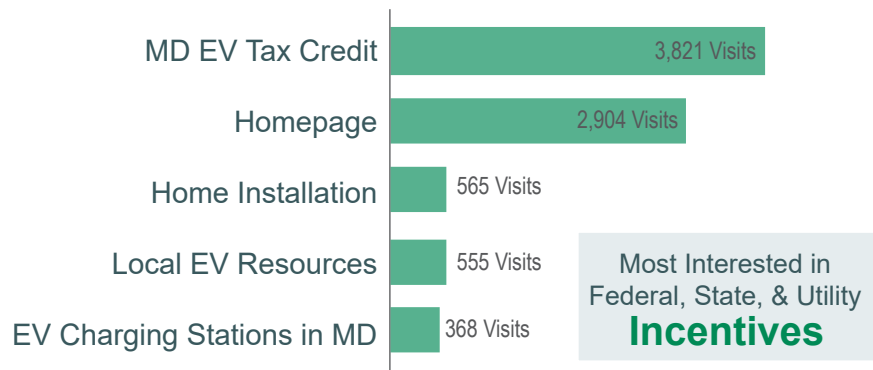
Outreach & Education*

50 Events
Attended or hosted by
ZEEVIC Member Organizations

10,126 
MarylandEV Website
Views per month

1,418 
NEVI Survey Responses
April 17 - May 15, 2024

Top 5 Visited MarylandEV Pages



290+ Participants in NEVI Outreach
Webinars (June 2024)

* Data for August 2024

Resources

Table 1 below includes links to learn more about the data, programs, and organizations identified in the above sections.

Table 1: Resources

Organization and Programs with Links
Electric Vehicles
Electric Vehicle Registration Dashboard
Maryland Open Data Portal - EV Registration
Charging Infrastructure
Charging Infrastructure Dashboard
Maryland EV Storymap
EV Corridor Build-Out with NEVI and CFI
Maryland NEVI Program
CFI Grant Program
State Investment & Incentives
EV Charger Siting Tool
Maryland Excise Tax Credit for Plug-in EVs
EVSE Rebate Program
MHD ZEV Grant Program
OPEN Energy Innovation Grant Program (MEA)
Maryland Smart Energy Communities (MEA)
Governor Moore's Climate Programs Announced February 2024
Electric Corridor and Charge Ahead Grant Programs (MDE)
Maryland Electric School Bus Grant Program (MDE)
EVSE Equity Program (MEA)
Maryland Electric School Bus Grant Program (MEA)
State Fleet Charging Infrastructure
DGS EV Infrastructure Program
Public Service Commission & Utilities
PSC EV Pilot Program, Utility Semi Annual Reports, CN 9478
Outreach & Education
ZEEVIC Website
NEVI Outreach Webinars
NEVI Survey Response
MarylandEV Website
Electric Vehicle Association of Greater Washington DC