



# MARYLAND ZERO EMISSION Electric Vehicle Infrastructure Council

Presentation for the Commission on Climate Change Coordination  
Education, Communication, and Outreach (ECO) Working Group  
February 17, 2021

# ZEEVIC Overview

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## Goals

Increase awareness and ownership of zero emission vehicles (ZEVs) and private sector investment in ZEVs

Develop recommendations for statewide electric vehicle (EV) charging and hydrogen refueling infrastructure

Promote and facilitate the integration of ZEVs into Maryland's transportation network

## 2021 Priorities

Maximize the use of grant and alternative funding opportunities for EV and charging stations in Maryland

Develop an approach to address the Right to Charge and EV parking

Ensure EV readiness through strategic infrastructure planning that focuses on corridors, workplaces, and communities

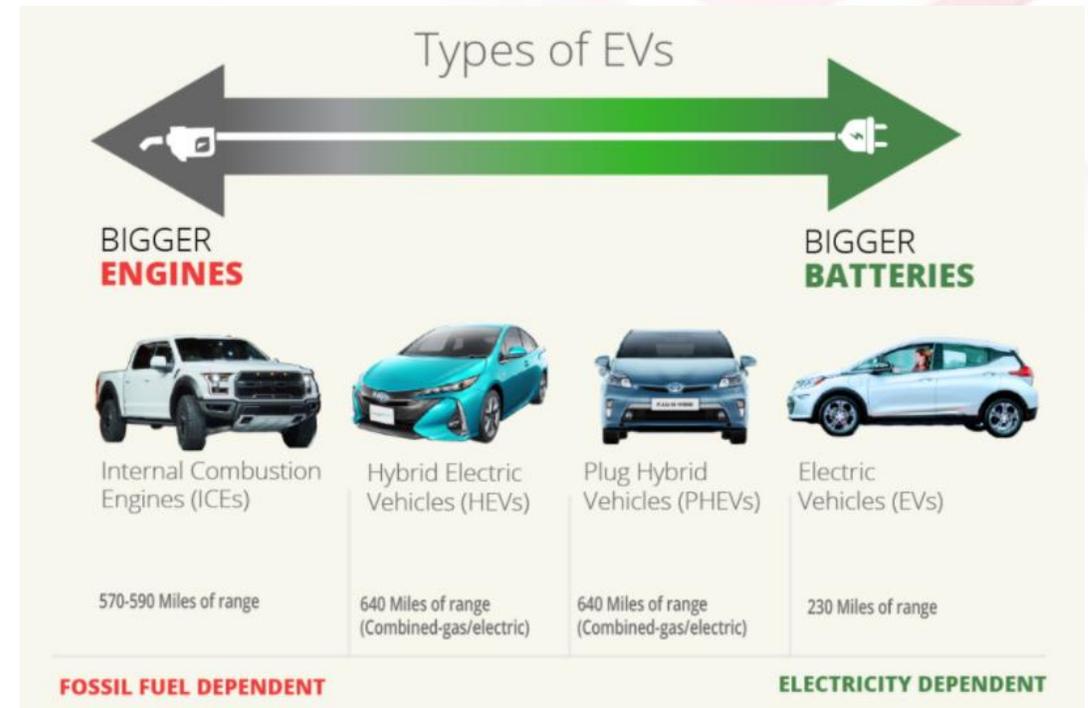
Continue education and outreach coordination with a focus on diversity and equity

# Zero Emission Vehicles (ZEVs)

*ZEVs do not produce emissions of any criteria pollutant under all possible operational modes and conditions*

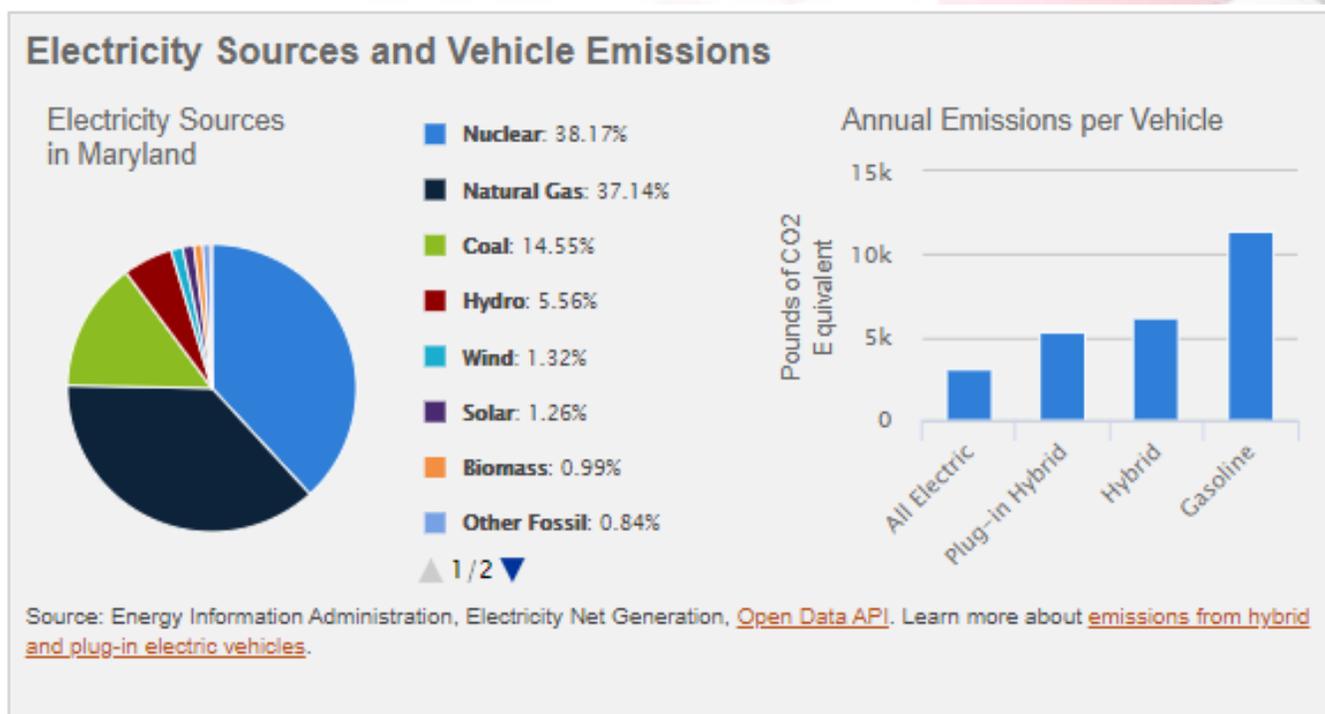
ZEVs include:

- Electric Vehicles
- Hydrogen Fuel Cell Electric Vehicles
  - Currently, there are no available hydrogen fuel cell vehicles or fueling stations in Maryland



# Benefits of EVs

- Fuel economy
- Lower fuel cost and price volatility
- Lower maintenance costs
- Emissions reduction
- Hazardous air pollutant reduction
- Lower noise pollution
- Improved resilience to fuel disruption



# EV Charging Equipment

AC Level 1

1-5 miles

Per hour

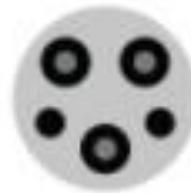


J1772 charge port

AC Level 2

10-20 miles

Per hour

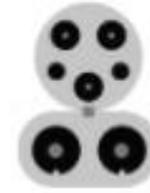


J1772 charge port

DC Fast

60-80 miles

Per 20 minutes



CCS charge port



CHAdeMO



Tesla

# Maryland's Current EV Status

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## EV Registrations

2021: 29,939 EVs

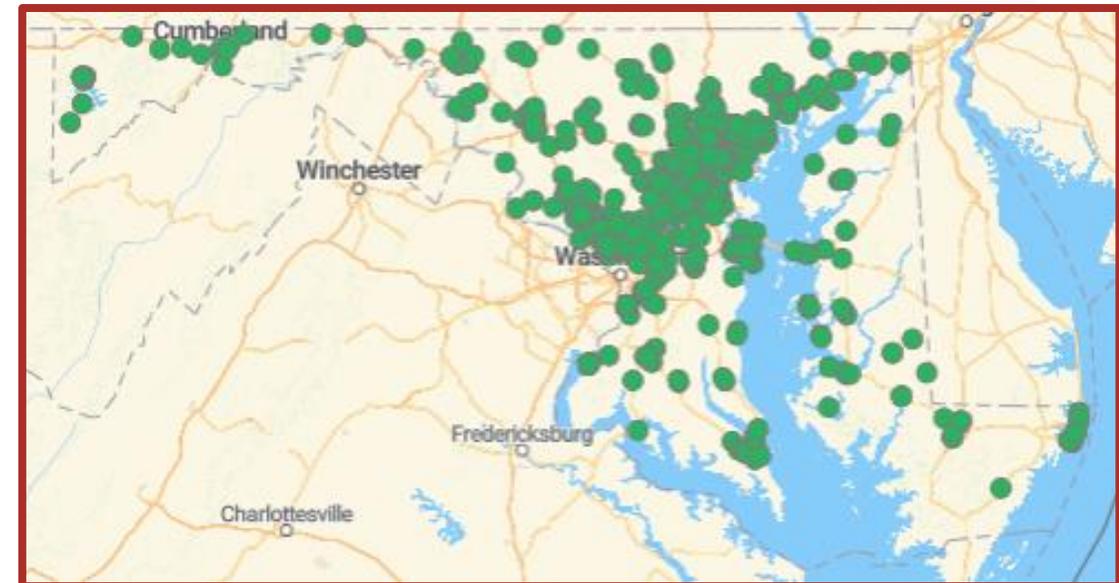
2025 Goal: 300,000 EVs



## Infrastructure

Charging Stations: 957

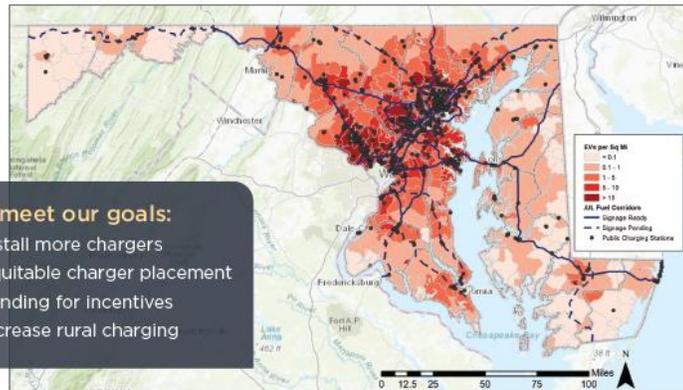
Charging Outlets: 2,511



# 2021 Legislative Flyer



## Zero Emission Vehicle (ZEV) Barriers in Maryland



[tinyurl.com/ZEEVIC2021](http://tinyurl.com/ZEEVIC2021)



[marylandev.org](http://marylandev.org)



## Zero Emission Vehicle (ZEV) Policy Solutions

### Equitable ZEV Funding

Equitable incentive funding for electric vehicle and charging station purchases.

### EV-Ready Building Codes

New construction to include electric vehicle (EV) charger-ready wiring in parking spaces.

### Right to Charge Initiatives

Allow owners in multi-unit dwellings and HOA neighborhoods to install charging at their own cost, without prohibitions.

### ZEV Parking Enforcement

Prevent non-EV parking in EV charging spaces as well as prevent EVs from parking in an EV charging space without actively charging.



[tinyurl.com/ZEEVIC2021](http://tinyurl.com/ZEEVIC2021)



[marylandev.org](http://marylandev.org)

# Available Incentives ([AFDC link](#))

## State

- Corridor Charging Grants
- Workplace Charging Grants
- Alternative Fuel Infrastructure Program
- Charging Station Rebate Program
- Zero Emission School Bus Grant Program

## Utility

- BGE
  - EV Charging Rate
  - Charging Station Rebates
- Delmarva
  - Charging Station Rebates
- Pepco
  - EV Charging Rate
  - Charging Station Rebates
- Potomac Edison
  - EV Charging Rate
  - Charging Station Rebates

# Outreach and Communication Coordination

- [MDOT ZEEVIC](#) website
- [MarylandEV](#) website
  - Facebook and Instagram
  - In-person platform branding
  - #MarylandEV
- Legislative Flyer
- In-Person Events



MDEV MARYLAND EV

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## I'm not pumped, I'M CHARGED!

Make the switch to electric and get charged about driving! Choose an electric vehicle that's right for you and your lifestyle. Save on fuel, maintenance and taxes, all while contributing to a cleaner environment.

- EV 101**  
(Almost) everything you wanted to know about electric vehicles in Maryland
- EV CHARGING**  
Find out about the charging options available.
- INCENTIVES**  
Learn more about Federal and State Incentives

# Social Media Mission Overlaps

**Maryland Electric Vehicle**  
Published by Sharp & Company · August 31, 2020 ·

Intelligent Transport Systems (ITS) Centre notes a new study from Northwestern University which finds that widespread US adoption of electric vehicles could save approximately \$17 billion annually by avoiding damages from climate change and air pollution. Start driving an EV and become a part of the change. #MarylandEV #EV #ClimateChangeMaryland

<https://www.intelligenttransport.com/.../widespread-ev.../>



INTELLIGENTTRANSPORT.COM  
Widespread EV adoption could save U.S. \$70 billion annually, study finds  
A study has suggested that replacing 75 per cent of cars in the U.S. with EVs could save as mu...

**Maryland Electric Vehicle**  
December 7, 2020 ·

The state of Maryland continues to limit exposure of Greenhouse gases through the Clean Cars Program, requiring a percentage of vehicles sold each year to meet ZEV (Zero Emissions Vehicle) standards.

Learn more at  
<https://mde.maryland.gov/.../MobileS.../Pages/CleanCars.aspx>  
#EV #MarylandEV #ClimateChangeMaryland



**Maryland Electric Vehicle**  
October 26, 2020 ·

#EV101  
Utilities can provide customers with incentives such as lower rates for charging EVs off-peak hours and rebates toward obtaining qualified chargers! Learn more about incentive programs available to you at <https://marylandev.org/incentives/>  
#EV #MarylandEV



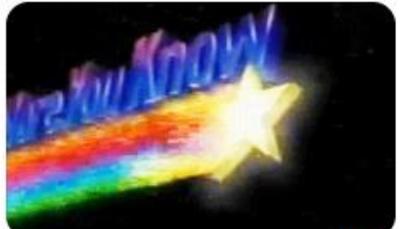
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Climate Change Maryland



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Questions?