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

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

2021 Priorities

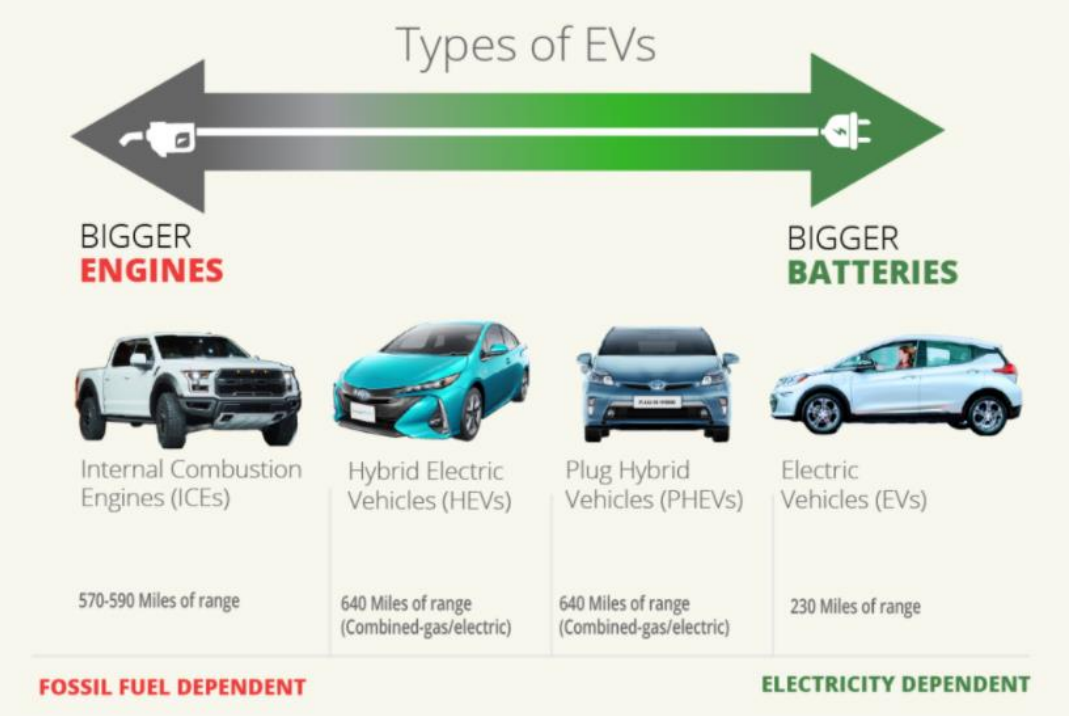
- Maximize the use of grant and alternative funding opportunities for EV and charging stations in Maryland
- Develop an approach to address the Right to Charge and EV parking
- Ensure EV readiness through strategic infrastructure planning that focuses on corridors, workplaces, and communities
- Continue 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

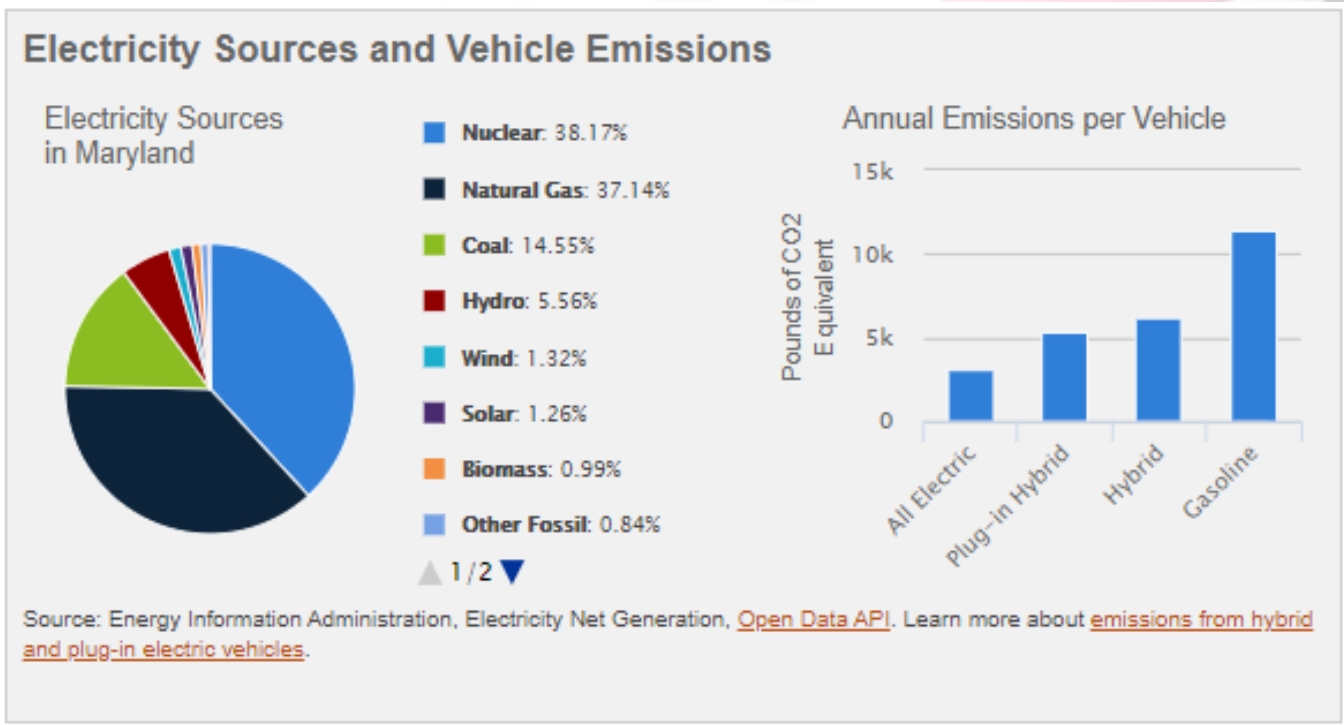
ZEVs include:

- 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

EV Registrations

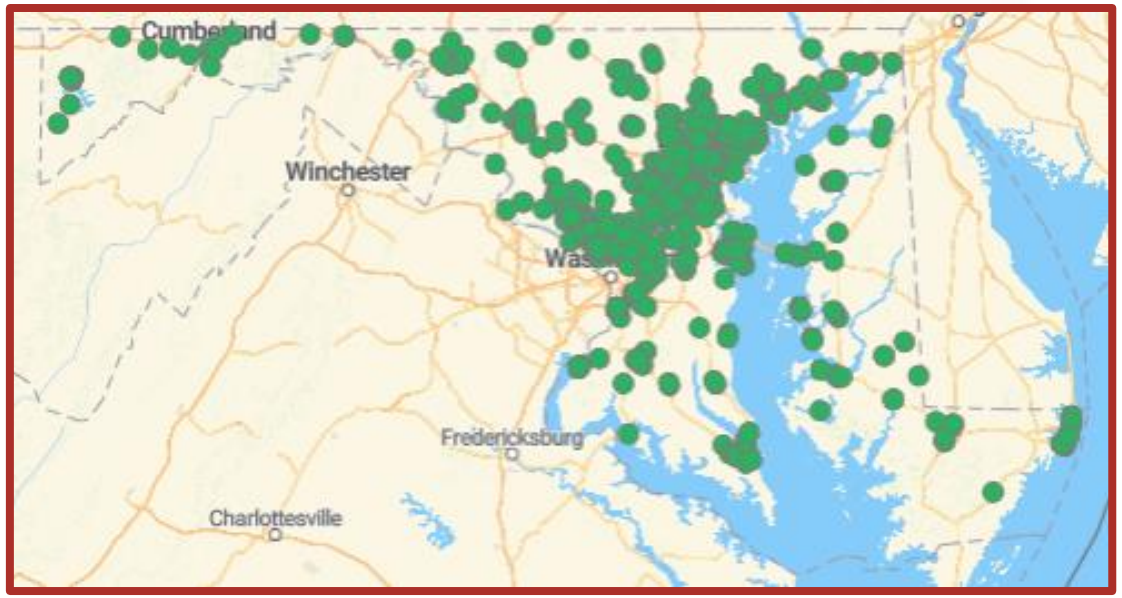
2021: 29,939 EVs

2025 Goal: 300,000 EVs

Infrastructure

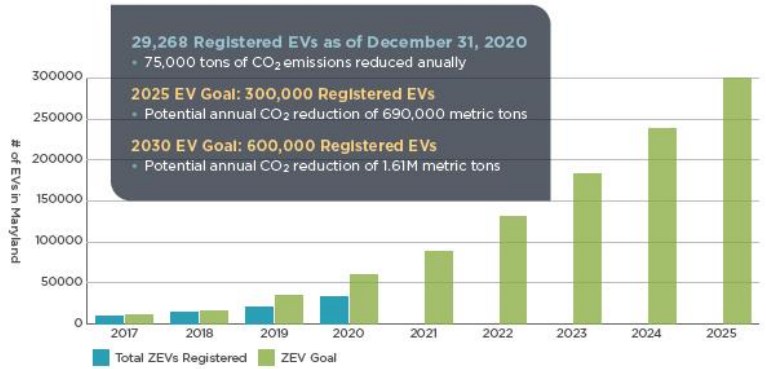
Charging Stations: 957

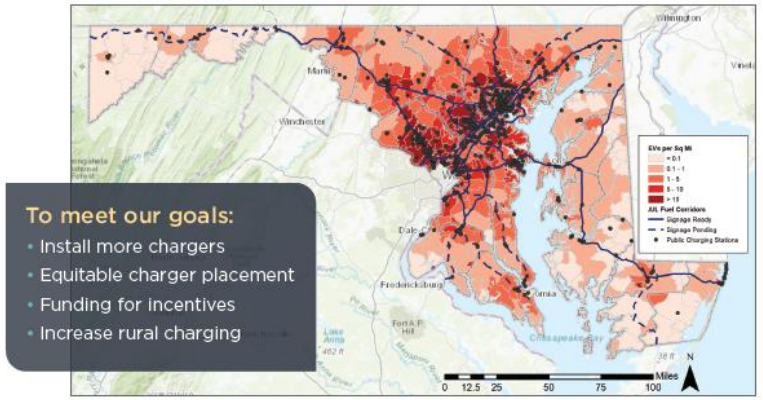
Charging Outlets: 2,511



2021 Legislative Flyer

Zero Emission Vehicle (ZEV) Barriers in Maryland





MARYLAND ZERO EMISSION Electric Vehicle Infrastructure Council
tinyurl.com/ZEEVIC2021

MDEV MARYLAND EV
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.

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Available Incentives (AFDC link)

State

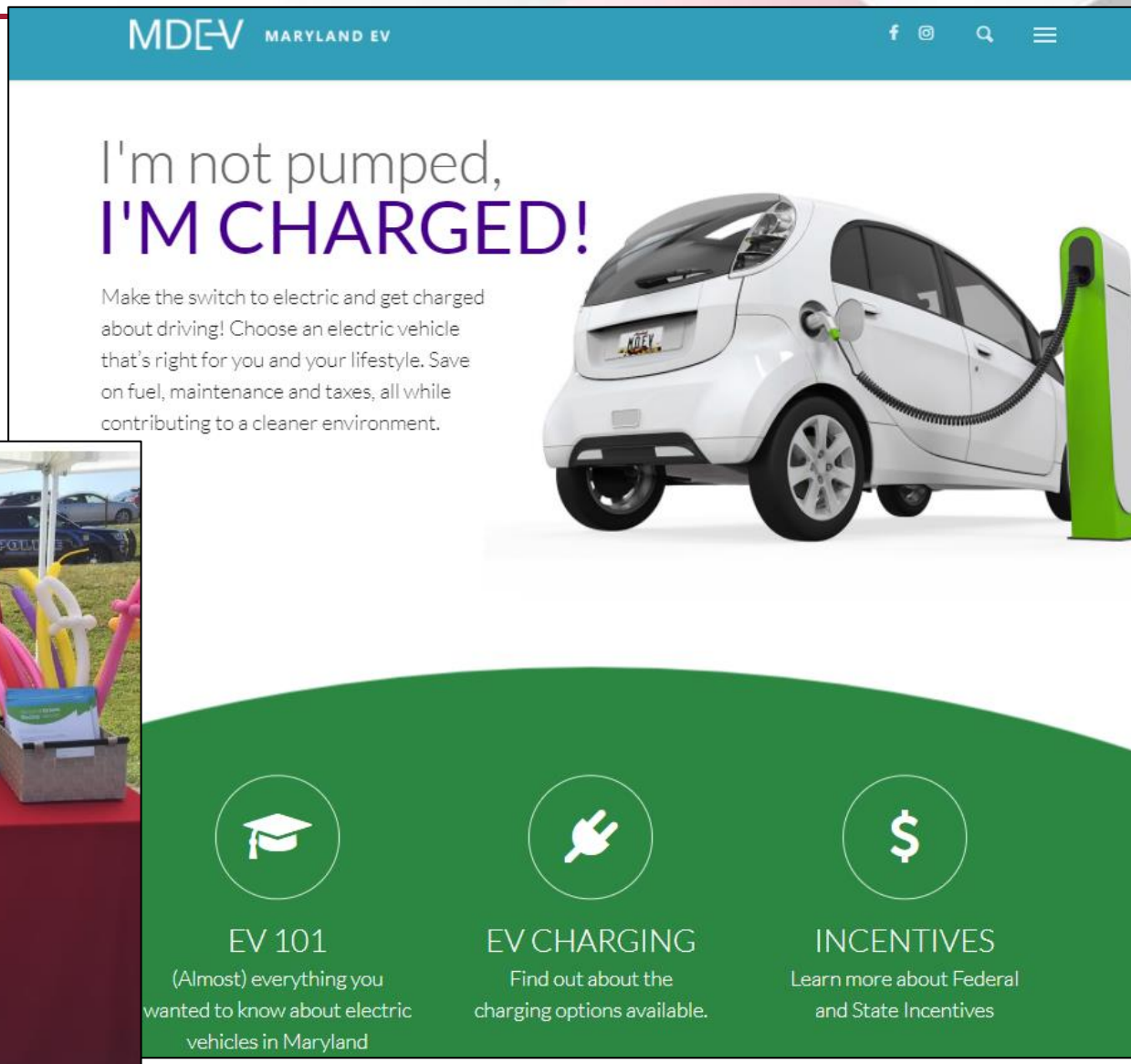
- Corridor Charging Grants
- Workplace Charging Grants
- Alternative Fuel Infrastructure Program
- Charging Station Rebate Program
- Zero Emission School Bus Grant Program

Utility

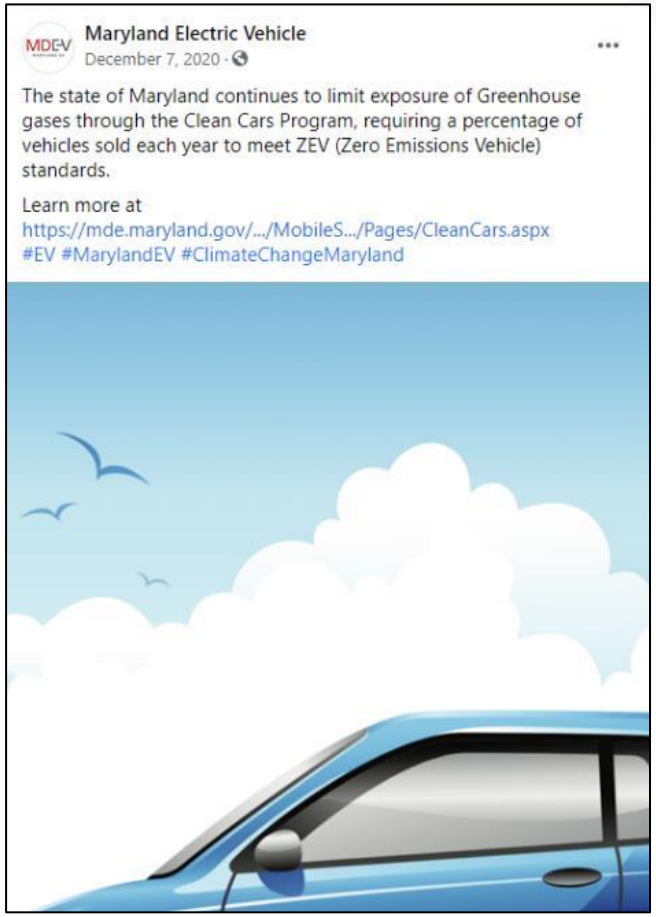
- BGE
  - EV Charging Rate
  - Charging Station Rebates
- Delmarva
  - Charging Station Rebates
- Pepco
  - EV Charging Rate
  - Charging Station Rebates
- Potomac Edison
  - EV Charging Rate
  - Charging Station Rebates

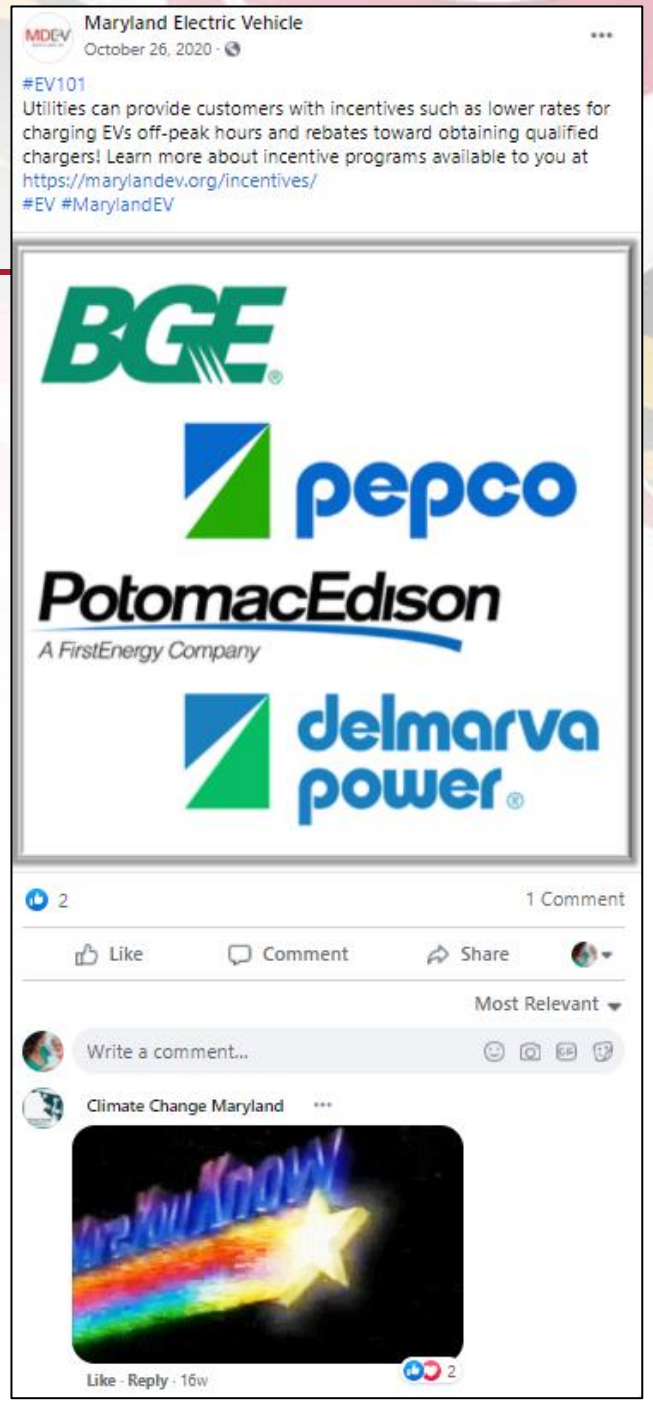
Outreach and Communication Coordination

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



Social Media Mission Overlaps





MARYLAND DEPARTMENT OF TRANSPORTATION

Questions?