Electric Vehicles and Charging Infrastructure

Primer

Colleen Turner – Assistant Director, Office of Planning & Capital Programming
Maryland Department of Transportation
April 16, 2019

State Agency Roles on EVs

Maryland Department of the Environment

- ZEV MOU
- Maryland Clean Cars Program
- VW Settlement

Maryland Energy Administration

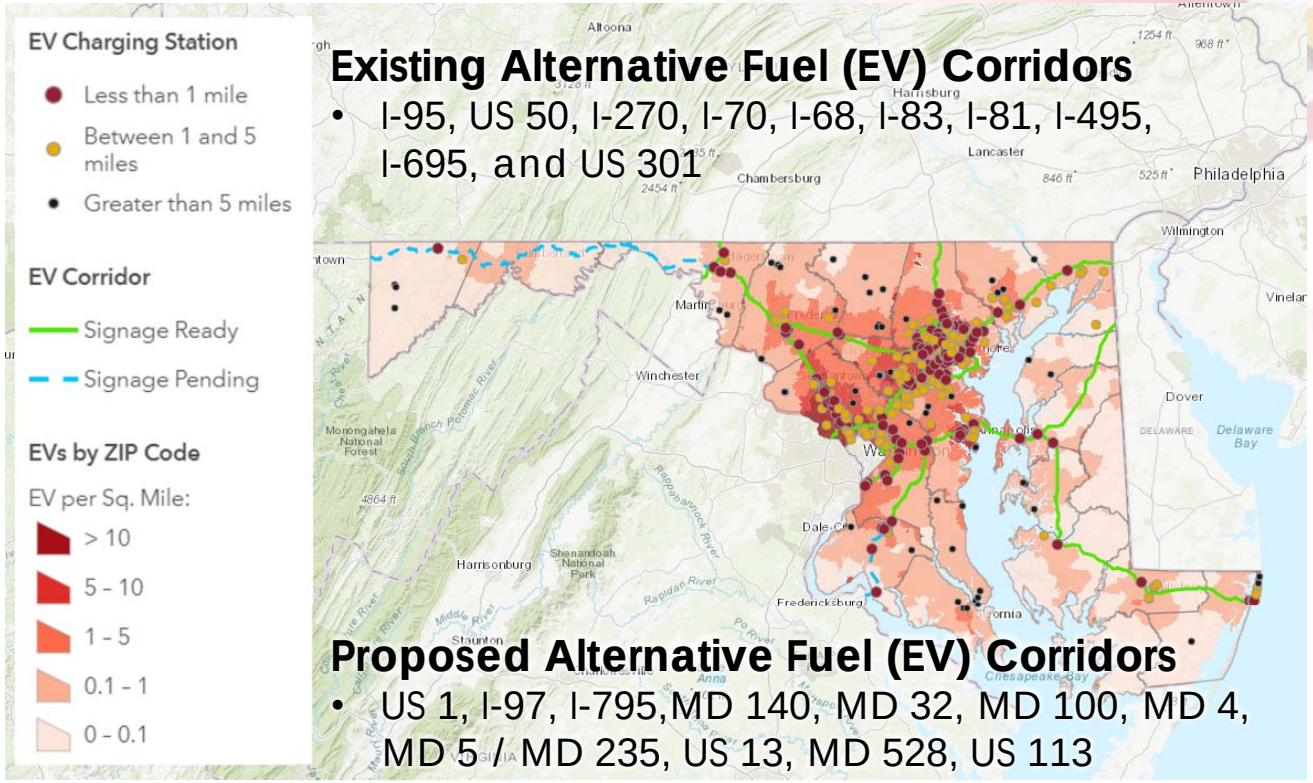
- AFIP
- EV / EVSE (Incentives / Rebates)
- Accelerating Maryland's Clean Cities Transportation Future

Maryland Department of Transportation

- Alt. Fuel Corridors
- Chair / Staff EVIC
- Track EV Registrations and EVSE Installations

Existing Infrastructure and EV Data

- EVIC website updated monthly
- EV registration data is now available on Maryland's Open Data Portal

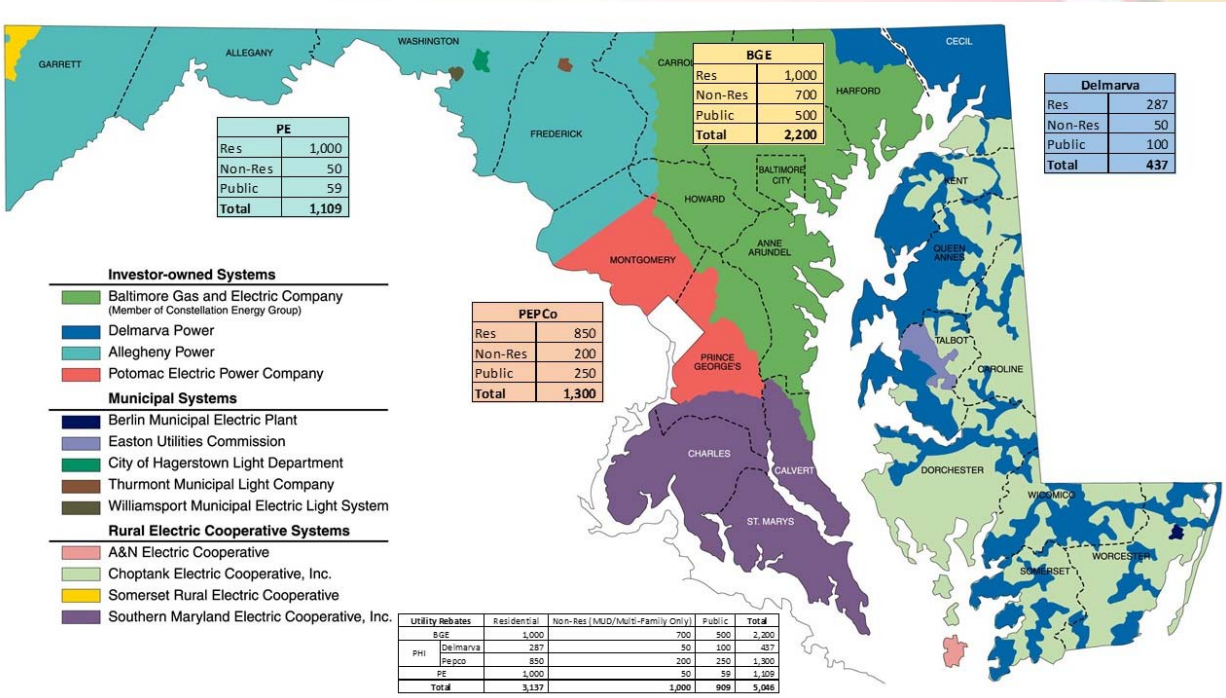


Funding Opportunities for EVSE

- Maryland's Alternative Fuel Infrastructure Program (AFIP)
  - Grant amounts are capped at 50% of project cost, up to $55,000 for DC Fast Charger projects.
- Electric Vehicle Supply Equipment (EVSE) Rebate Program 2.0
  - 40% of purchase and installation price, up to $700 for residential installations, $4,000 for commercial installations and $5,000 for retail service stations.
- Maryland Volkswagen Mitigation Plan
  - 15% of the total Maryland allocated funds for EVSE ($11.3 million)
- Electrify America
  - $2 billion *nationwide* in electric vehicle charging infrastructure
    - Cycle 1 ($300 million), Jan. 2017 – June 2019 [Washington]
    - Cycle 2 ($300 million), July 2019 – Dec. 2021 [Washington & Baltimore]
    - Cycle 3 and 4 ($300 million each), 30 month cycles
  - https://www.electrifyamerica.com/submissions

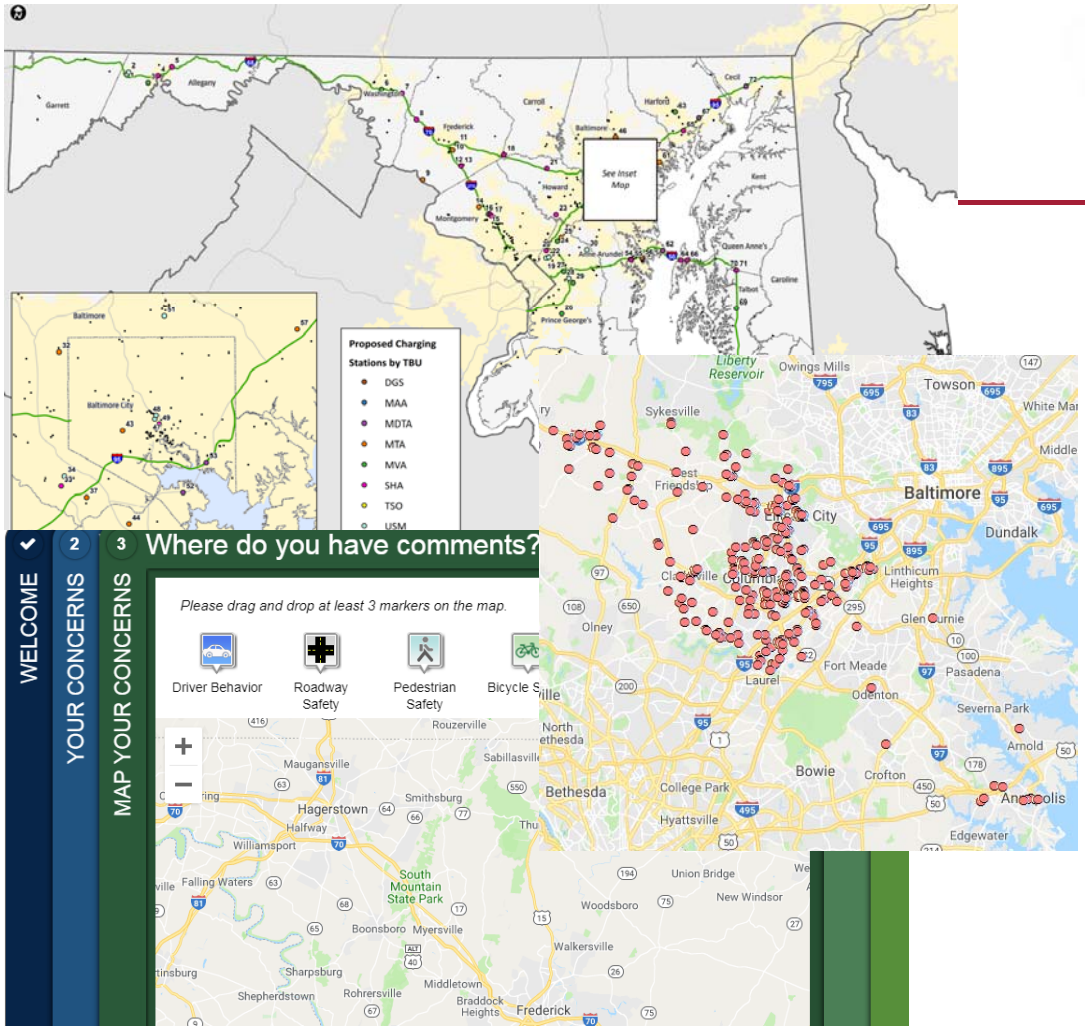
Funding Opportunities for EVSE (cont.)

- Utility Electric Vehicle Portfolio (PC 44)
- Clean Corridors Act of 2019
  - Grant funding for the installation of electric vehicle charging stations and hydrogen fueling infrastructure along designated corridors
  - **Funding:** $300 million for each fiscal year 2019 through 2028



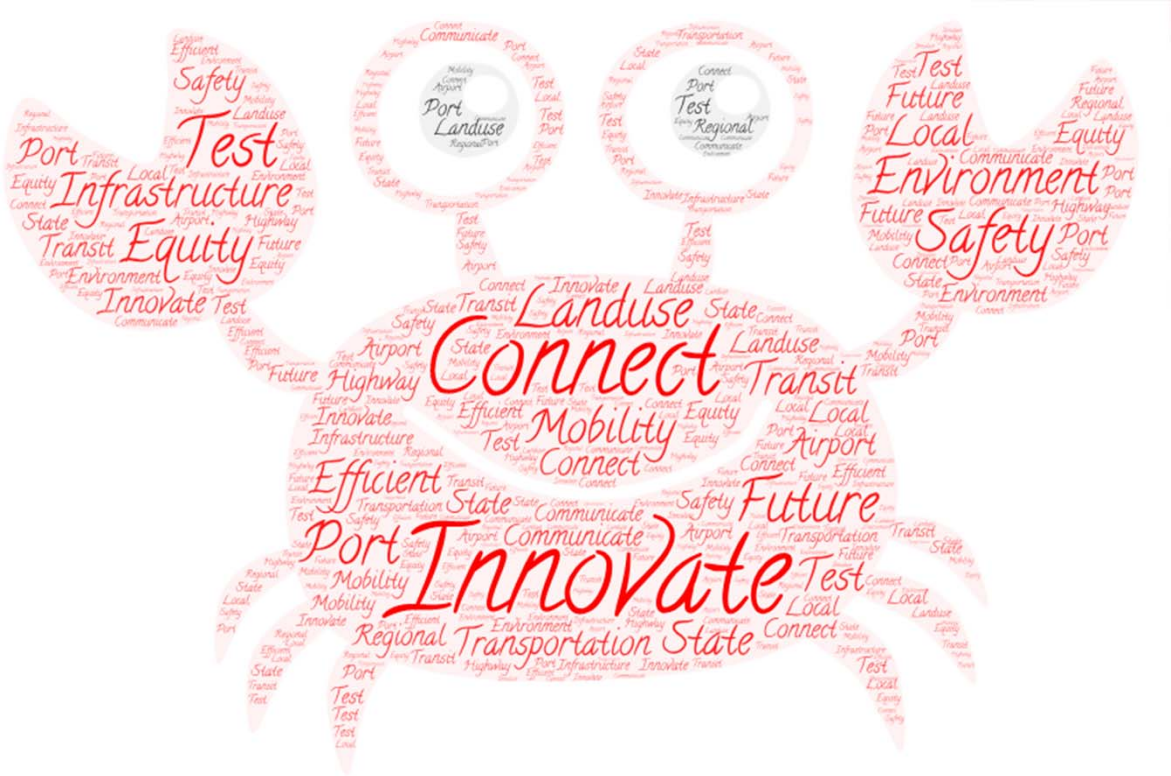
Utility Rebates		Residential	Non-Res (MUD/Multi-Family Only)	Public	Total
BGE		1,000	700	500	2,200
PHI	Delmarva	287	50	100	437
	Pepco	850	200	250	1,300
PE		1,000	50	59	1,109
Total		3,137	1,000	909	5,046

MPO Input on Future Charging Locations



- MDOT is working to compile a list of publicly-owned locations suggested for future EVSE
  - MDOT developed a preliminary list of state-owned locations for Electrify America Cycle 1
  - Currently have a list of locations from some of BMC's jurisdictions
- Online interactive outreach survey (MetroQuest) to be launched for input

Automated, **C**onnected, **E**lectric & **S**hared



MARYLAND DEPARTMENT OF TRANSPORTATION

QUESTIONS?

Colleen Turner, Assistant Director, OPCP
Maryland Department of Transportation
cturner@mdot.Maryland.gov
410-865-2773