



MARYLAND ZERO EMISSION

Electric Vehicle Infrastructure Council

May 19, 2021

Agenda

- Welcome and Announcements
- Public Comments
- MEA Parking Lot Solar PV Canopy with EV Charger Grant Program
- 2021 Legislative Session Recap
- State Agency Updates
- Utility Updates
- Communications Working Group Update
- Closing Remarks



Welcome and Announcements

Deputy Secretary Lewis, MDOT

Public Comments



A stylized graphic in the top right corner shows a hand holding a leaf or solar panel. The hand is rendered in shades of pink and red, with white outlines. The leaf or panel is yellow and grey, with a white outline. The background is white.

MEA Parking Lot Solar PV Canopy with EV Charger Grant Program

AKA Solar Canopy Grant Program

Maryland Energy Administration

Solar Programs

David Comis
May 19, 2021



Maryland
Energy
Administration

PROGRAM OVERVIEW

- Solar Canopy Program
- Public Facility Solar Grant Program

SOLAR CANOPY

- FY 21 program funded to \$1,600,000
- Dual use of parking lots and parking garages
- \$600/kW, with a \$300,000 cap
- Competitive Program
- Open to both business and government entities

SOLAR CANOPY

Year	# awarded	# completed	Award Amount (\$)	Capacity (kW)	Annual Energy (kWh)
2014	9	9	\$3,103,460	6,749	8,098,260
2015	4	4	\$1,000,000	4,723	5,667,120
2016	4	4	\$340,642	1,233	1,479,456
2017	2	2	\$300,000	3,292	3,950,640
2018	3	2	\$549,040	1,938	2,325,576
2019	6	3	\$1,173,600	6,627	8,804,758
2020	2	0	\$400,000	2,539	3,046,320
2021	8	0	\$1,602,936	3,575	4,519,712

PUBLIC FACILITY SOLAR GRANT

- Governor directed \$4M program
- Split between fiscal years 2021 and 2022
- Install solar on existing buildings, parking lots, parking garages
- Open to government entities only

<https://energy.Maryland.gov/govt/Pages/PublicFacilitySolarGrantProgram.aspx>

AREAS OF INTEREST

AOI 1: Purchased Systems

AOI 2: Third Party Owned Systems

AOI 3: Technical Assistance (Cash)



PUBLIC FACILITY SOLAR

Year	# awarded	# completed	Award Amount (\$)	Capacity (kW)	Annual Energy (kWh)
2021 (1)	7	0	\$779,767	1,946	2,002,734
2021 (2)	4	0	\$1,000,000	3,390	4,328,887
2022 (1)					
2022 (1)					

QUESTIONS

- General information about the program
- Is this a program a member of ZEEVIC could take advantage of? If so, what is the process?
- Is this an emerging new program?
- Are there other examples of where this is currently happening?
- Suitability of using solar to power EV charging stations. Is this a good investment?
- Should solar be part of the conversation when discussing future charging station installation?

MORE INFORMATION

Information on Maryland Energy Administration programs can be found at:
www.energy.Maryland.gov

Look at “Business” or “State & Local” and
“Incentives”, then search for the program



Maryland Energy Administration

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Energy.Maryland.gov



Maryland
Energy
Administration



2021 Legislative Session Recap

2021 Legislative Session Recap

Bill	Title	Notes
HB0110 (SB0144)	Electric Vehicle Recharging Equipment for Multifamily Units Act	To Governor, not signed
HB0044	Clean Cars Act of 2021	To Governor, not signed
HB30	Public Utilities – Office of Climate Counsel – Establishment (Climate Counsel Act)	To Governor, not signed
HB0784	Residential Construction - Electric Vehicle Charging	To Governor, not signed
HB480	Plug-In Electric Drive Vehicles – Reserved Parking Spaces	Failed
HB0832	Public Utilities – Electric School Bus Pilot Program	Failed
SB0315	Vehicle Laws - Plug-In Electric Drive Vehicles - Reserved Parking Spaces	Failed
SB0137 (HB0334)	Maryland Transit Administration – Conversion to Zero-Emission Buses (Zero-Emission Bus Transition Act)	To Governor, not signed
SB0152	Maryland Strategic Energy Investment Fund – Use of Funds and Electric Vehicle Excise Tax Credits	Failed
HB592	State Vehicle Fleet - Conversion to Zero-Emission Electric Vehicles	Failed
HB1098	Elected Officials – State-Owned Electric Vehicle Charging Stations – Reimbursement	Failed



State Agency Updates

MEA Program Updates

- MEA has awarded \$1,638,226 worth of rebates, totaling 1,659 chargers (91% of \$1.8M FY21 budget).
 - \$769,771.08 for 1,373 residential EVSE
 - \$868,454.92 for 286 commercial EVSE
 - FY22 budget TBD as a result of Clean Cars Act- will be up to \$1.8M
 - Working with Volta Charging on a press release, heavy rebate applicant in FY21- 64 chargers at 22 locations, total of \$256K in rebates leveraging nearly \$2M in Volta investment.
 - Giant Food stores, Macy's stores, Mall at Columbia, Gallery at Harborplace, etc.
- Clean Fuels Incentive Program (CFIP)
 - FY21: 2 EVgo sites (Bethesda Row, Pike & Rose) have already opened.
 - FY22 budget up to \$1M, program design in development. May focus solely on fleet vehicles.

MEA Program Updates

- Clean Fuels Technical Assistance Program Update
 - 4 original projects have been completed.
 - 3 EV oriented projects were: Rockville, Laurel, Cumberland.
 - Reports will be posted to the MEA CFTA website by the end of the month.
 - Have awarded and begun work on 5th project, an EV-centric analysis for Anne Arundel County.
 - Result of original work coming in under budget.
 - Still in the process of evaluating first program round.
 - Second round (FY22) still TBD, expect to open RFP by Fall 2021.
 - Lessons learned, next steps, timeline, general announcements, etc.

MDE Program Updates

Volkswagen Settlement Updates

- Electric Corridor Grant Program
 - MDE and MEA have completed our review of the 35 applications received under this Program.
- Charge Ahead Grant Program
 - MDE and MEA are in the process of reviewing the 21 applications that were submitted under this Program.
 - MDE and MEA hope to complete this review by the end of May.
- MDE and MEA's goal is to complete the review process and contact the applicants in early June for both Programs.



Additional State Agency Updates

MDOT, DGS, MDP, PSC

EV Growth

Maryland By the Numbers*:



32,180
Registered EVs

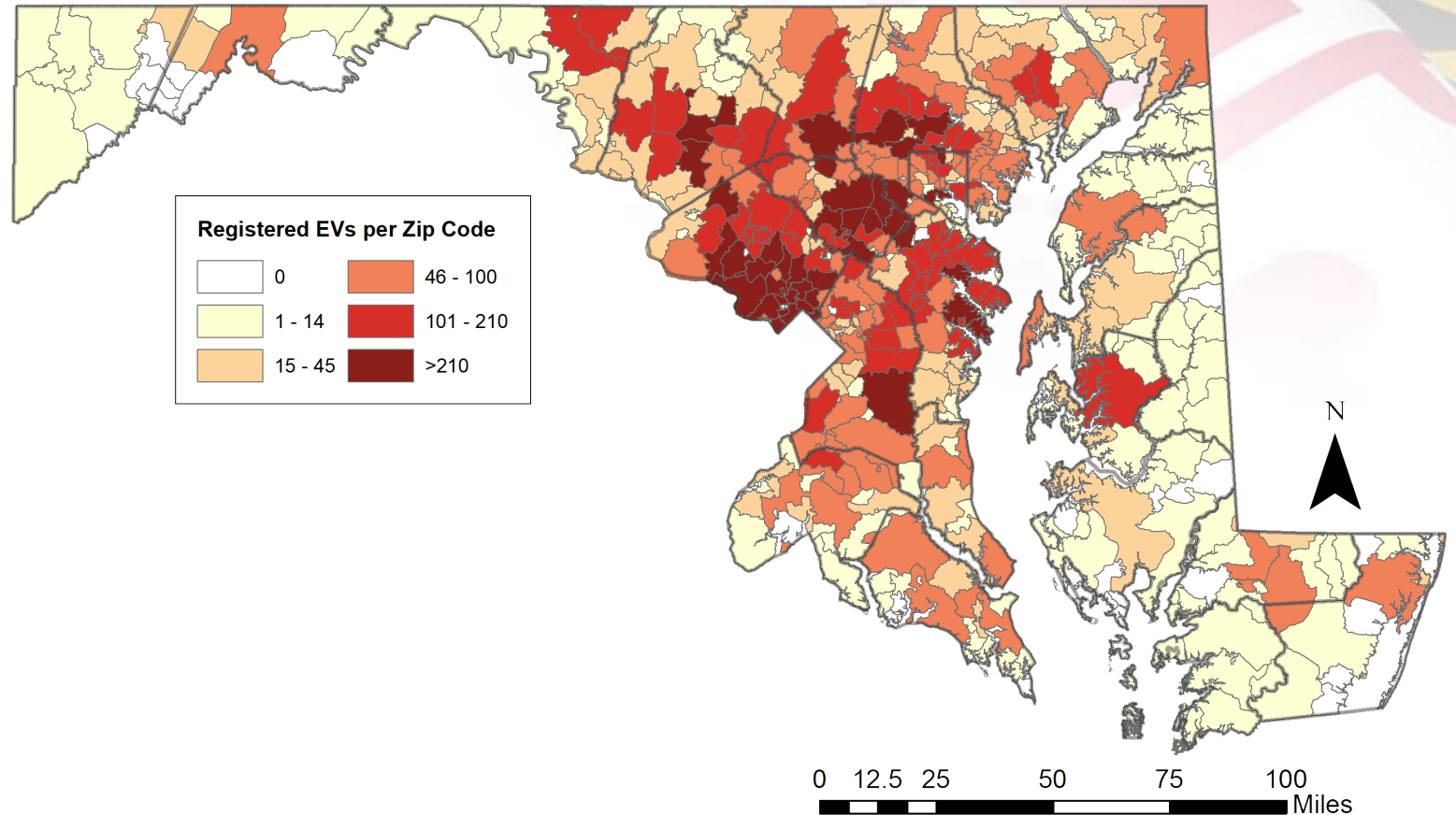


995 **2,615**
Stations Outlets



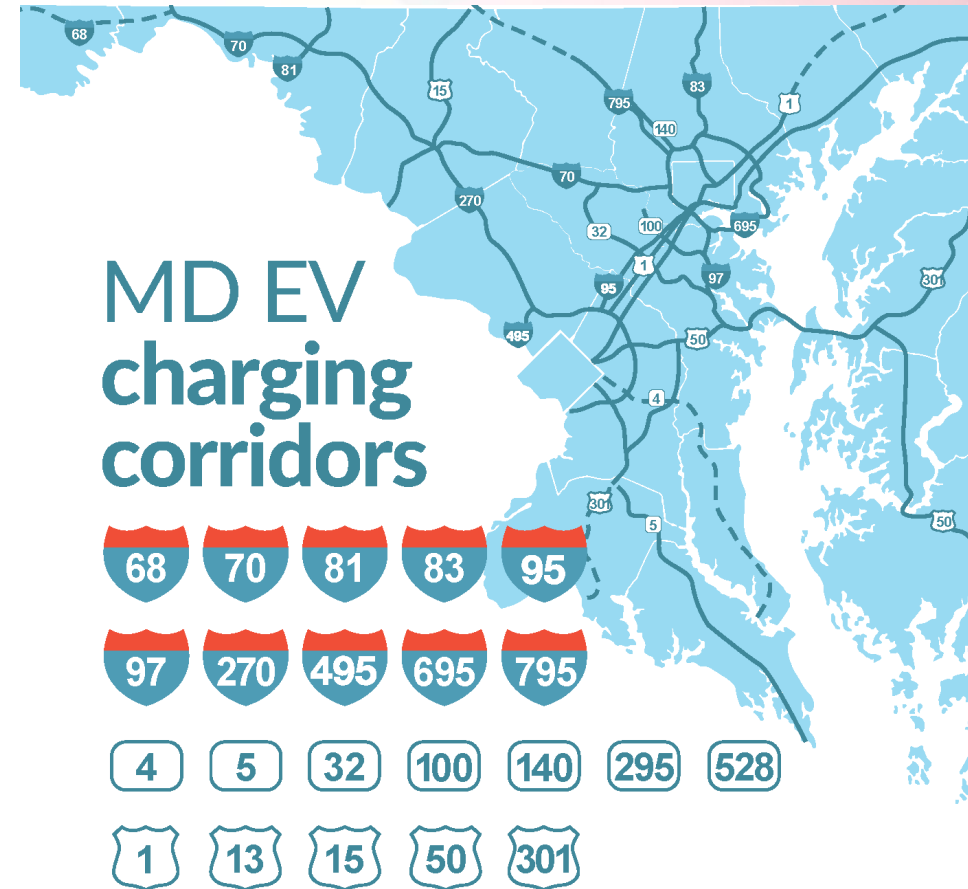
22
Alt. Fuel Corridors

**As of April 30, 2021:*

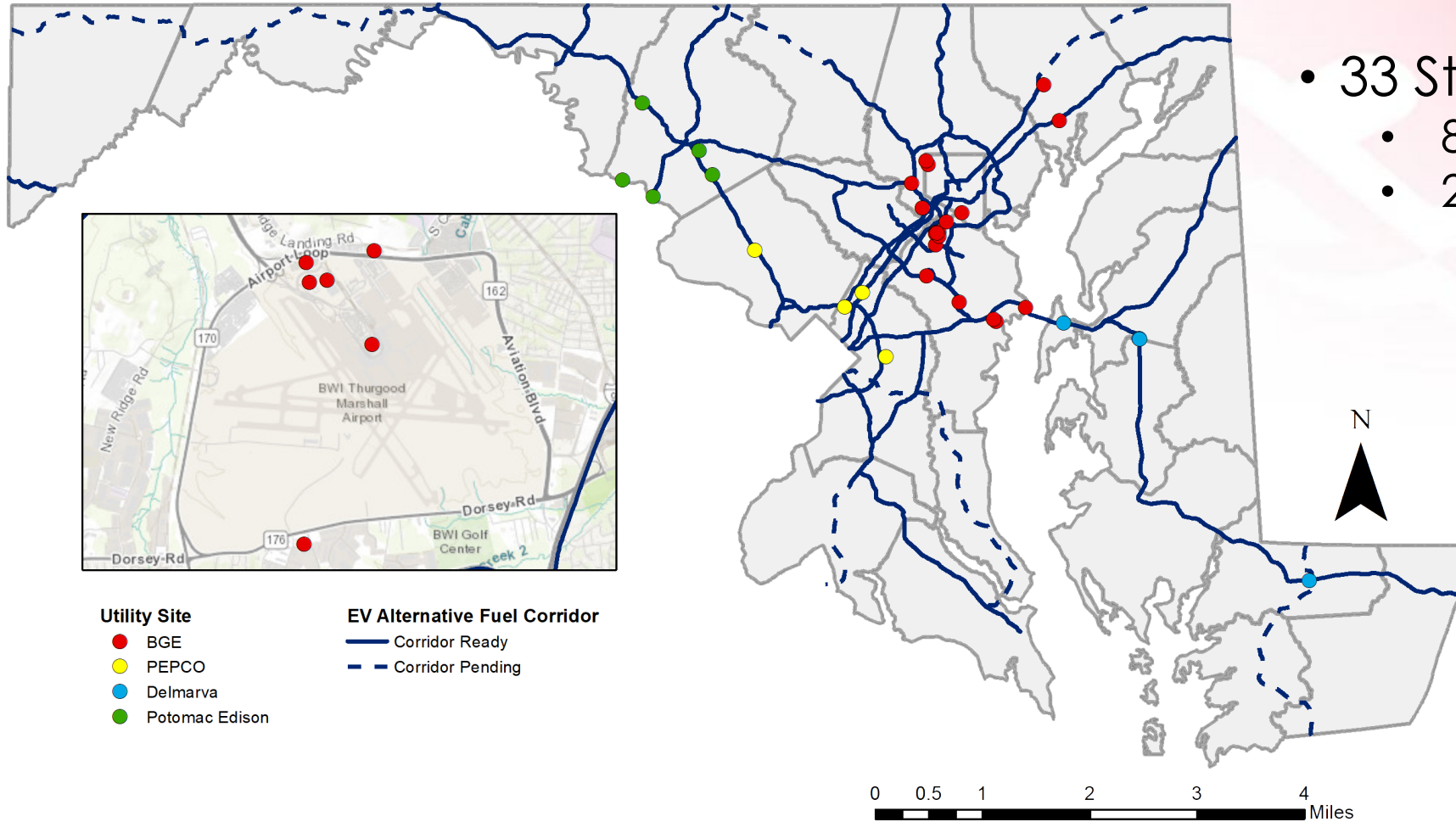


EV Alternative Fuel Corridors

- 22 EV Alternative Fuel Corridors
 - Latest Designation – US 15
 - 1,079 Total Miles
 - 820 Miles Corridor-Ready
 - 259 Miles Corridor-Pending



PSC Pilot Program – State Sites



- 33 State Sites
 - 8 DGS Sites
 - 25 MDOT Sites

Utility Updates



Maryland EV Program Mid-Course Review

During the Q3/Q4 2020 EV Program hearing, Commissioners made several references that the mid-course review is the correct forum for proposing enhancements to the EV programs

Mid-course review:

- What is the mid-course review intended to do?
 - *“In October/November [2021], the Commission will convene a legislative-style hearing to review the progress to-date of the statewide EV Portfolio. Utility progress reports and accompanying interim evaluations will be based on data collected through June 30, [2021] and will be filed in the docket by September 15, [2021].” - (Page. 33) Petition for Implementation of Statewide Electric Vehicle Portfolio*
- Style of mid-course: *Legislative hearing to be scheduled in October/November 2021*
- Mid-course will contain EM&V (Guidehouse) analysis and results

EV Program Design Sessions (May – July) Goal:

Gather necessary stakeholders and discuss EV program enhancements aligning and ideally developing a consensus on program enhancements to be implemented for the remaining 30 months of the programs

EV Program Design Sessions

- First session went well. Over 60 attendees with great dialogue and engagement
- Proposals will be gathered at each session
- Final review of the proposals will occur on August 12th
- Develop consensus or near-consensus of proposals

Date/Time	Session Name	Objective
May 13th 10-11:30AM	Overview	Level set expectations
June 10th 9-10:30AM	Residential	Design Residential offerings
June 24th 9-10:30AM	Multifamily / Public	Design Multifamily and Public offerings
July 8th 9-10:30AM	Fleet (including MD/HD) / Submetering	Discuss potential Fleet program and COMAR waivers
July 22nd 9-10:30AM	DOE Projects / Workplace	Review DOE projects
August 12th 9-10:30AM	Final Review of Proposals	Obtain support for proposals



Communications Working Group Update

Virginia Burke, MDOT

Carrie Giles, ICF

Maryland EV Website Analytics

April 1 – April 30, 2021

Page Views: 2,874

Audience Overview:

Search Traffic: 62%

Referral Traffic: 11%

Direct Traffic: 28%

Top Referral Traffic:

1. bge.com: 22%
2. pepco.com: 21%
3. delmarva.com: 10%
4. firstenergycorp.com: 10%
5. facebook.com: 9%
6. mdot.maryland.gov: 8%
7. evadc.org: 3%
8. pinterest: 2%
9. tesla: 2%

Top Pages Visited:

1. Incentives: 1,257 (44%)
2. Homepage: 754 (26%)
3. Charging: 262 (9%)
4. ev-101: 137 (5%)
5. hydrogen-101: 74 (3%)
6. local_ev_resources: 68 (2%)
7. resources: 45 (2%)
8. charging/afdc-map: 36 (1%)
9. resources/ev-calculators: 35 (1%)

Maryland EV Social Media Post Examples

 **Maryland Electric Vehicle**
April 5 · 🌐

The EV network is growing along the Route 1 corridor! The city of Hyattsville, MD (Hyattsville, Maryland - Municipal Government) plans to install 10 charging stations at three public lots.

<https://www.hyattsvillewire.com/.../hyattsville-electric-car.../>
#MarylandEV #EV #EVCharging



 **Maryland Electric Vehicle**
April 15 at 5:00 PM · 🌐

Annapolis Green invites you to the free "Kick Gas! Annapolis EV Earth Day" this Saturday, April 17.

The event will feature a showcase of electric vehicles, EV charging demonstrations, and conversations with current EV drivers. Masks required.

Learn more and register to attend at
<https://annapolisgreen.com/drive-electric/>



Maryland EV Social Media Post Examples

 **Maryland Electric Vehicle**
April 29 at 5:00 PM · 🌐

As part of the Maryland Clean Fuels Incentive Program, two new EVgo Network fast chargers have opened at Bethesda Row.

<https://www.evgo.com/.../evgo-celebrates-earth-day-opening-4.../>



 **Maryland Electric Vehicle**
April 22 at 5:00 PM · 🌐

Happy Earth Day!

Annapolis Green and the Electric Vehicle Association of Washington, DC is excited to share stories of EV drivers in the DMV! Watch the video and we hope you'll consider an EV for your next vehicle!

<https://www.youtube.com/watch?v=ZO1BTCYvn9U>



YOUTUBE.COM
My EV Story | Drive Electric Earth Day
Drive Electric Earth Day is a national campaign to share informatio...

Closing Remarks – Deputy Secretary Lewis

- Next Meeting July 2021