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
MEA Parking Lot Solar PV Canopy with EV Charger Grant Program

AKA Solar Canopy Grant Program
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

<table>
<thead>
<tr>
<th>Year</th>
<th># awarded</th>
<th># completed</th>
<th>Award Amount ($)</th>
<th>Capacity (kW)</th>
<th>Annual Energy (kWh)</th>
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<tbody>
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<td>2014</td>
<td>9</td>
<td>9</td>
<td>$3,103,460</td>
<td>6,749</td>
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<td>2015</td>
<td>4</td>
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<td>4,723</td>
<td>5,667,120</td>
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<td>4</td>
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<td>$340,642</td>
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<td>2017</td>
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<td>2018</td>
<td>3</td>
<td>2</td>
<td>$549,040</td>
<td>1,938</td>
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<td>2019</td>
<td>6</td>
<td>3</td>
<td>$1,173,600</td>
<td>6,627</td>
<td>8,804,758</td>
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<td>2020</td>
<td>2</td>
<td>0</td>
<td>$400,000</td>
<td>2,539</td>
<td>3,046,320</td>
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<td>2021</td>
<td>8</td>
<td>0</td>
<td>$1,602,936</td>
<td>3,575</td>
<td>4,519,712</td>
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PUBLİC FACİLİTY SOĽAR 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

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<tr>
<th>Year</th>
<th># awarded</th>
<th># completed</th>
<th>Award Amount ($)</th>
<th>Capacity (kW)</th>
<th>Annual Energy (kWh)</th>
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<td>2021 (1)</td>
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<td>$779,767</td>
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<td>2021 (2)</td>
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<tr>
<td>2022 (1)</td>
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</table>
• 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?
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.
2021 Legislative Session Recap
## 2021 Legislative Session Recap

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<th>Bill</th>
<th>Title</th>
<th>Notes</th>
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<tr>
<td>HB0110</td>
<td>Electric Vehicle Recharging Equipment for Multifamily Units Act</td>
<td>To Governor, not signed</td>
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<td>SB0144</td>
<td>Electric Vehicle Recharging Equipment for Multifamily Units Act</td>
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<td>HB0044</td>
<td>Clean Cars Act of 2021</td>
<td>To Governor, not signed</td>
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<td>HB30</td>
<td>Public Utilities – Office of Climate Counsel – Establishment (Climate Counsel Act)</td>
<td>To Governor, not signed</td>
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<td>HB0784</td>
<td>Residential Construction - Electric Vehicle Charging</td>
<td>To Governor, not signed</td>
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<td>HB480</td>
<td>Plug-In Electric Drive Vehicles – Reserved Parking Spaces</td>
<td>Failed</td>
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<td>HB0832</td>
<td>Public Utilities – Electric School Bus Pilot Program</td>
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<tr>
<td>SB0315</td>
<td>Vehicle Laws - Plug-In Electric Drive Vehicles - Reserved Parking Spaces</td>
<td>Failed</td>
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<td>SB0137</td>
<td>Maryland Transit Administration – Conversion to Zero–Emission Buses (Zero–Emission Bus Transition Act)</td>
<td>To Governor, not signed</td>
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<td>HB0334</td>
<td>Maryland Transit Administration – Conversion to Zero–Emission Buses (Zero–Emission Bus Transition Act)</td>
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<td>SB0152</td>
<td>Maryland Strategic Energy Investment Fund – Use of Funds and Electric Vehicle Excise Tax Credits</td>
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<td>HB592</td>
<td>State Vehicle Fleet - Conversion to Zero-Emission Electric Vehicles</td>
<td>Failed</td>
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<tr>
<td>HB1098</td>
<td>Elected Officials – State–Owned Electric Vehicle Charging Stations – Reimbursement</td>
<td>Failed</td>
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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 Stations
- 2,615 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
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.
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

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

Virginia Burke, MDOT
Carrie Giles, ICF
## Maryland EV Website Analytics

**Page Views:** 2,874

**Audience Overview:**

- Search Traffic: 62%
- Referral Traffic: 11%
- Direct Traffic: 28%

**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%)

**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%
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

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.../

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=Z01BTCYvn9U

Drive Electric Earth Day Tribute: EVs Making a Difference
April 25, 2020
PRESENTED BY
YOUTUBE.COM
My EV Story | Drive Electric Earth Day
Drive Electric Earth Day is a national campaign to share information...
Closing Remarks – Deputy Secretary Lewis

- Next Meeting July 2021