Agenda

• Welcome and Announcements
• Public Comments
• Montgomery County EV Purchasing Cooperative
• National Capital Hydrogen Center – Hydrogen Green Print
• PSC PC 44 EV Workgroup – Recommendations Filed with PSC
• Maryland State Plan for NEVI Formula Funding Deployment
• ZEEVIC Member Organization Updates
• MarylandEV and Outreach Updates
• Utility Updates
• Closing Remarks
Welcome and Announcements

Deputy Secretary Lewis, MDOT
Announcements

• Federal Electric Vehicle Working Group (EVWG) – Paul Verchinsky Nomination
  o The EVWG was established on June 8, 2022, pursuant to the Bipartisan Infrastructure Law. It operates in accordance with the provisions of the Federal Advisory Committee Act https://driveelectric.gov/work-with-us/

• FHWA Round 6 Designations – Hydrogen and Electric

• HOV Sunset – September 30, 2022

• Training for the EV Future – Ben Kessler, ChargePoint
  o ChargePoint, an electric vehicle charging company, and the National Electrical Contractors Association are launching a partnership to train electrical contractors on installing EV charging infrastructure.
Public Comments
Montgomery County EV Purchasing Cooperative Update

Brian Booher, Montgomery County
Montgomery County Climate Action Plan

2021 Climate Action Plan Emissions reduction goals:
• 80% by 2027 and 100% by 2035

On-road transportation accounts for 36% of emissions. Strategies include:
1. Encouraging greater use of transit, cycling and shared mobility options
2. Electrifying public transportation and the County vehicle fleet
3. Supporting a transition to zero-emissions vehicles (ZEV) for residents and businesses
What is the EVPC?

The EV Purchasing Co-op offers residents and businesses:

1. Negotiated discounts on new and pre-owned vehicles
2. Education and information to help you buy an EV, find public charging, install charging, and get incentives
3. Events where you can experience EVs and learn from experts
4. Electrified Dealership Network of knowledgeable, enthusiastic local dealers
Take the Pledge!

EVPC Pilot Phase launched in January 2022 by challenging residents and businesses to pledge to make their next vehicle electric.

Pilot Phase goal met: Over 1,000 residents took the pledge by May 31

Take the Pledge on our website: www.montgomerycountymd.gov/zev
Electrified Dealers Network

The *Electrified Dealer Network* helps local dealers become “EV Experts” and provide the best possible information to EV buyers.

**Benefits for Dealers:**
- Training and educational resources on EV technology, available incentives, local programs
- Free promotion on the County’s website
- Coordination with the County on events and promotion opportunities
- Qualified EV sales leads from the EV Purchasing Co-op pledges

*In the Network today:*
25 dealership locations representing 15 auto brands
EVPC: What’s Next?

The EVPC will leverage pledges to negotiate discounted prices for new and pre-owned vehicles and other special offers from local businesses.

Pilot Phase (Early 2022)
- Launch pledge
- Initial dealership engagement
- Education and promotional events
- Connect buyers to dealers

Phase Two (Late 2022)
- Continue to grow pledges
- Expand education and events
- Build relationships and evaluate purchasing options w/ dealerships and manufacturers

Purchasing Phase (2023)
- Secure and promote regular deals from dealer partners
- Continue to organize events and education
- Explore ways to expand Co-op to neighboring regions
National Capital Hydrogen Center – Hydrogen Green Print

Richard Moore, Connected DMV
TO CREATE A GREATER WASHINGTON WHERE EVERYONE CAN THRIVE, WE MUST ACCELERATE THE CLEAN ENERGY ECONOMY NOW.
A REGIONAL CAPABILITY, ALIGNED WITH THE NATIONAL IMPERATIVE 3
EVERY GOOD PROJECT STARTS WITH A BLUEPRINT. OR, IN OUR CASE, A GREENPRINT.
LET'S TURN POSSIBILITY INTO REALITY.

H₂ DMV PROJECT FOCUS AREAS 5

REGIONAL COMMERCIAL AND PUBLIC SURFACE TRANSPORTATION

REGIONAL AIRPORTS & MARITIME PORTS

RESILIENT POWER

connecteddmv.org/hydrogen

CONFIDENTIAL AND PROPRIETARY TO CONNECTED DMV.
A VIABLE, EXISTING AND POTENTIAL VALUE CHAIN

PRODUCTION

STORAGE

END USE

TRANSPORTATION

DISTRIBUTION
PRINCIPLES

SOCIAL EQUITY & ENVIRONMENTAL JUSTICE

PROCESS

OUTCOMES

connecteddmv.org/hydrogen

MARYLAND ZERO EMISSION
Electric Vehicle Infrastructure Council

IMPACT & OUTCOMES
THANK YOU FOR YOUR INTEREST - PLEASE GET IN TOUCH!

THE TIME FOR COLLABORATION & INVESTMENT IS NOW.

Learn more at: www.connecteddmv.org/hydrogen

Richard Moore
VP, Climate and Energy
richardmoore@connecteddmv.org
PSC PC 44 EV Workgroup

Amanda Best, PSC
PSC: Fleet Subgroup

- Subgroup met 5 times between 3/1/22 and 6/28/22
- Discussed support for fleet electrification, fleet studies, EV transition planning, challenges and opportunities for fleets, hydrogen and electric fueling stations, state programs, programs in other states, and private financing for fleets.
- Filed final fleet proposal from BGE, Pepco, and Delmarva on 6/30
- Will be reviewed at Commission Administrative Meeting (7/27)
# PSC: Fleet Subgroup

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<th>Pepco</th>
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<td>Total</td>
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<td>75</td>
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PSC: Reliability

• Work group has met 4 times between 2/10/22 and 7/6/22 to discuss reliability standards and utility reporting
• Discussed the limited number of existing standards in other states, the available data from the utilities in the pilot, and potential ways to calculate uptime and reliability
• Finalizing interim work group report for filing before August 1 recommending reliability reporting begin in February 2023
PSC: EV Metering

- Subgroup has met 3 times between 2/9/22 and 6/9/22
- Discussed the COMAR waivers approved for the Pilot, EVSE requirements in Handbook 44, a draft straw proposal, and questions around metering standards for the utilities and EV meters
- An updated straw proposal was circulated to the Subgroup on 7/5 with the next meeting 8/9.
- A final report is due 12/31/23
PSC: Rate Design

• Work group has met 3 times between 3/10/22 and 4/28/22 to continue discussions on commercial EV rate design
• Picked Arizona Public Service Company Rate Rider for DCFC to use as template for potential MD rate for Commission consideration
• The utilities and EV charging companies are working together to finalize a rate proposal for the work group’s review at a future meeting
• Goal of filing a final proposal with Commission in 2022
PSC: Make-Ready, Carshare, Charging + Other Technologies

• Work group has met 3 times between 3/17/22 and 7/11/22 to the combined topics of make-ready, carshare programs, pairing EV charging with other technologies, and Pilot education and outreach

• Interest expressed potentially pursuing proposals for the topics above, but not enough consensus to do so prior to pilot ending

• Will wrap these issues into discussions to begin later this year on what’s next after the Pilot and file status report with Commission by August 1
Dan Janousek, MDOT
Rebecca Bankard, Michael Baker International
NEVI Overview
What are ZEVIP and NEVI?

Maryland Zero Emission Vehicle Infrastructure Plan (ZEVIP)

NEXI PROGRAM
- High-Level in Plan
- Details are Developing on Administration and Application

NEVI FORMULA FUNDING
- Required by 8/1
- Unlocks ~$60M in MD
- Must use on AFCs 1st then Communities
- Submitted Annually
- 10% set-aside for national grant program

DISCRETIONARY $ for ZEV
- $2.5B of the $7.5B under BIL
- $1.25B for Corridor ZEV infrastructure along AFCs (EV, hydrogen, propane, natural gas)
- $1.25B for Community ZEV infrastructure
- Guidance Est. Late 2022

OTHER STATE PROGRAMS
- VW Settlement
- Clean Fuels Technical Assistance Program
- MD Smart Energy Communities
- Solar Canopy Grant Program
- MEA EVSE Program

OTHER FUNDING
- Other Federal
  - DOT
  - DOE
  - EPA

Private / Other Investment
- Site Hosts
- Network Companies
- PSC Pilot Program / Utility Investment

NEXT STEP
WE ARE HERE
NEVI Submittal

• Submitted to Joint Office – July 15th
• Available on ZEVIP Website
  • https://evplan.mdot.maryland.gov/
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<th>Description</th>
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<td>Public Engagement</td>
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<td>Plan Vision &amp; Goals</td>
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<td>Contracting</td>
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<td>Existing &amp; Future Conditions</td>
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<td>EVSE Deployment</td>
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<td>Implementation</td>
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<td>Program Evaluation</td>
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<tr>
<td>Discretionary Exceptions</td>
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Plan Vision and Goals

To continue leading the nation and strengthening our communities by providing equitable, reliable, and safe transportation electrification solutions.

Alternative Fuel Corridors
Certify existing (23) corridors within 5 years and identify future roadways.

Equitable Charging Infrastructure
Prioritize disadvantaged and rural communities.

Workforce / Job Impacts
Provide training. Enhance experience-level, and diversity.

Build & Strengthen Public-Private Partnerships
Facilitate contracting and implementation.

Collaboration
Work with state, local, regional, NGOs, and public organizations and plans.

Resiliency and Reliability
Understand and address grid impacts, renewables, emergency preparedness, weather, operations/maintenance.

Geographic and Location Diversity
Meet demands in various locations - Urban, suburban, rural, employment centers, multi-unit dwellings, etc.
Risks & Challenges

- Supply Chain
- Equity Barriers
- Emergency Management
- Compatibility
- ADA Accessibility

- Grid Capacity
- Public Education
- Reliability
- Workforce Development
- Climate Change
Equity Considerations

ACCESSIBILITY
Ensuring all Marylanders and Visitors Have Access to Reliable EV Charging
- Geographic Diversity
- Rural/Urban
- Corridors/Communities
- Multi-Lingual Graphic User Interfaces
- ADA Compliance
- Multi-Unit Dwellings
- Employment Centers
- Safety While Charging
- Grid Reliability

AFFORDABILITY
Creating Incentives, Innovations, and Systems that Increase Affordability of EV Ownership and Charging
- Leveraging state, local, federal, and private funding
  - Cost of Vehicles
  - Cost of Charging
  - Mobility Hubs
  - Carshare
  - Rideshare
  - ZEV Transit

COMMUNICATION
Meeting People where they are, Listening, and Educating
- Multi-Lingual Materials
- Events
- Webinars
- Surveys and Polls
- Geofencing
- Website
- Social Media
- Calculators
Public Engagement and Stakeholder Outreach
Engagement & Outreach

Utilities

Network Companies
[EV Charging Manufacturers]

Disadvantaged / Rural Communities

OEM’s / Automakers

Local Governments and Planning Partners

Potential EV Charging Site Hosts
Outreach To Date

• Website
  • 2,070 Page Views | 987 Unique Visitors
  • Maryland EV | ZEEVIC StoryMap | Maryland EV Journey

• MetroQuest Survey
  • 293 Participants

• Webinars
  • 3 Webinars
  • > 300 Participants
  • All Webinar Polling Summarized on ZEVIP Website

• Presentations
  • ZEEVIC | Commuter Choice Maryland | MPOs | Council of Governments | Non-Profits
Continuing Outreach

- **Public Feedback**
  - ZEEVIP Website | ZEVIP Toolkit | NEVI Plan | Program
- **Maryland ZEVIP Planning Toolkit**
  - Maryland Location-Based Overview
  - Maryland Site Information Tool
  - Corridor & Community Charging
- **Targeted Stakeholder Outreach**
- **ZEEVIC Outreach Activities**
  - 6 Events in 2022
  - 25 Past Events
  - 7,370 Touchpoints | 2 Languages
## Objective Driven Scoring Criteria

### Environmental Justice

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<th>Layer Name</th>
<th>Score</th>
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<td>Overall Score (UMD/MDE - EJSCREEN)</td>
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<td>&gt;1 Mile Buffer</td>
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<td>EV Alternative Fuel Corridor</td>
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<td>Interstate</td>
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<td>State Route</td>
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<td>Rank 5</td>
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<td>Maryland Sustainable Communities</td>
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<td>Land Uses - 2010</td>
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### Electric Vehicles/Existing Infrastructure

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<td>ZEVIP MetroQuest Survey (within Census Tract)</td>
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<tr>
<td>2-4 Selected Locations</td>
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<tr>
<td>0 Selected Locations</td>
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<td>EV Stations within Census Tract</td>
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<td>Density of EV Owners</td>
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<td>76&lt;&gt;150</td>
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"DISCLAIMER: This Location Based tool serves as a guide to help pinpoint potential charging locations. Your score does not guarantee funding for a charging location. In addition, lower scores do not mean that funding is not possible."
Critical Considerations – Outside Current GIS

- Resiliency
  - Floodplain
- Amenities
  - Restrooms | Food/Dining/Retail | Lighting | Other Services
- Utility Providers / Grid Capacity
- Innovations
  - Solar | Storage | Mobile Charging
- Cost
  - Competitive Pricing
  - Matching Considerations
- Supports greater deployment efforts
  - Corridor AND Community Charging

Fully solar-powered EV charging station deployed for CALtrans.
Next Steps
Program Development

- Competitive Grant Program
  - Administered by MDOT
- Short-Term Focus: AFCs
- Long-Term Focus: Communities

40-45 Sites to Build-Out AFCs
$350K - $1 Million per site

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<th>2025</th>
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<td>$12,000,000</td>
<td>$57,500,000³</td>
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First Round

• End of Year 2022/Early 2023
• Limited Scope
  • Focus on build-out of specific corridors
  • Emphasis on Rural/DACs
• Time-limited
  • Not rolling submission
• Risks
  • Supply chain
  • Local approvals
Questions?
ZEEVIC Member Organization Updates

State Agencies
MDE Program Updates

Volkswagen Settlement Updates
EVSE Infrastructure Programs
  Phase II
    Currently in final stages of review process
    Hope to make announcements in August
    MDE received 77 proposals (47 ECGP, 30 CAGP)
    Approx. $12.6 million in total requested funds
    Observations:
      Much better geographic distribution than Round 1 (particularly east and west)
      Power levels are higher than Round 1
Regional Medium Heavy-Duty Action Plan
  Plan has been finalized
  Approved by Governor’s Office
  Plan is due to be released July 27th
MEA Program Updates

- **EVSE Rebate Program**
  - FY23 funding open, will take time to clear out FY22 backlog.
  - Already have $400K of applications in the queue.

- **Clean Fuels Incentive Program (CFIP)**
  - FY22 Round 2 - 4 awards totaling $3.9M
    - Chaney Enterprises- $900K to purchase and deploy 6 electric concrete-mixer trucks at 3 locations in Anne Arundel and Prince George’s County.
    - Sysco- $1.5M to purchase and deploy 10 Class 8 electric tractors in Jessup, company’s first such deployment on East Coast.

- **Clean Fuels Technical Assistance (CFTA) Program**
  - Announced on 6/6, application period opened on 6/20.
  - Indicated interest but no received applications yet.
Additional State Agencies

• MDP
• Commerce
• DGS
ZEEVIC Member Organization Updates

EVADC and Annapolis Green
evadc.org  Local non-profit chapter of the Electric Vehicle Association. Partner organizations Annapolis Green, Poolesville Green

**EVADC's Electric Vehicle Year 2022**

Jan: **DC Auto Show.** We used to be the only EV’s in the building. No more! EVADC offered volunteer support for PHI EV Smart

Mar: **MoCo Go Electric!** Worked with Annapolis Green

April: **Drive Electric Earth Day.** We had member cars at
  - Einstein HS, Kensington, Sherwood HS, Sandy Spring
  - Kick Gas in Annapolis, helping Annapolis Green
  - MoCo GreenFest, helping Poolesville Green
  - Rockville Science Day, Olney Days Parade

Sept: **National Drive Electric Week.**
  - Poolesville Day, helping Poolesville Green
  - Kick Gas in Annapolis, helping Annapolis Green
  - Smaller, local farm markets, others
Ongoing EVADC Efforts

Worked with Cher Taylor and Sincerrai Gentry of Electrification Coalition to help promote Montgomery County EV Purchasing Co-op. Currently working with Brian Booher, MoCo Dept of Environmental Protection.

Brought member EV's to FeBREWary breweries to supplement MoCo DEP table.

Made a series of “EV Charger of the Week” videos, focused on Montgomery County.
https://youtube.com/playlist?list=PLffuhWGR229BXk8Y2nGsT3fD5FPs6wz-F

Public Ask An EV Owner monthly zoom meeting. Would an EV work for me? What should I buy? How will I charge it?
https://evadc.wildapricot.org/Ask

Our famous EV Info Sheet! Now there's room only for EV's. We're no longer updating plug-in hybrids. https://evadc.wildapricot.org/EVInfo
EV Advocacy Update

Elvia Thompson, Annapolis Green
Annapolis Green’s first EV event, in partnership with EVADC, was held ten years ago at City Dock as part of “National Plug In Day” when there was almost no charging infrastructure and EVs were a curiosity.

In subsequent years, we continued presenting EV showcases during National Drive Electric Week and Drive Electric Earth Day in various locations in Annapolis partnering not only with EVADC but also with BGE.
A few years ago we made driving electric a vital part of our climate change messaging in talks and written communications and rebranded our events with the Kick Gas logo and the tagline “There’s an electric car in your future.”

We have continued presenting EV showcases during National Drive Electric Week and Drive Electric Earth Day each year in various locations in Annapolis partnering not only with EVADC but also with BGE.

Our events have included mini seminars and demonstrations in addition highlighting other electric mobility such as electric bicycles and motorcycles and boats.
We regularly give talks about driving electric at libraries and for other organizations and always connect the topic to climate change. Our website contains information about driving electric and links to marylandev.org among other resources.

On Earth Day 2022 we closed a block of West Street for our show and worked together with the local business association so that plein air painters were part of the event and restaurants served al fresco during the show driving the public to the EVs.

In September we plan to present our largest and most comprehensive show yet at Annapolis Town Center with seminars, ride and drives, and various partners including EVADC. There is no question that our continued advocacy has convinced many people to ditch the ICE cars and drive electric.
MarylandEV.org and Outreach Updates

David Proctor, Sharp & Company
New In Person Outreach Materials

New Outreach Booth & Banners

New Postcard Handout

Front

There's never been a better time to drive an EV. Don't miss your fair or your family. Take the MDEV test drive and see how the benefits of an all-electric vehicle in Maryland by learning more at the info below.

Back

EVs offer great incentives for Marylanders

- CHEAP: EVs are cheaper to own, operate, and maintain than gas-powered Vehicles. "Batteries" are cheaper than gas stations. EVs are more fuel efficient than gas-powered Vehicles.

- COMFORT: Drive an EV makes you feel like you're helping the world. It's silent, pollution-free, and very quiet. EVs are also much cleaner than gas-powered Vehicles.

- CLEANER: If you own a gas-powered Vehicle, you can buy an EV for a fraction of the cost. EVs are often much cleaner than gas-powered Vehicles. Alternatively, you can purchase an EV for less than the cost of a gas-powered Vehicle.

 MarylandEV.org
1,200 Interactions!
Diverse Visitors
Next Outreach Event

- Baltimore Washington One Carnival
  - July 9, 2022

- Washington County Fair
  - July 23, 2022

- Wicomico County Fair
  - August 20, 2022
Potential Outreach Events Sept – Oct

- **Heritage Days**
  - September 10, 2022

- **Maryland Wine Festival**
  - September 17, 2022

- **St. Mary’s County Fair**
  - September 24, 2022
Maryland EV Paid Social/Geofence Ad 1
EV’s are for Everyone!
Maryland EV Social Media Post Examples

June-July 2022
MarylandEV.org Updates

- Header Updates for EV 101, EV Charging, and Incentives
Utility Updates

BGE, PHI, SMECO, Potomac Edison
• EVSE Pilot Program Update
  • Residential: 1,931
  • Multifamily: 170 ports
  • Public: 217 live, 216 in progress
  • TOU Rate: 1,038 participants

• Events & Outreach
  • 25 EVs for Lyft delivered and available to rent
  • Planning a Lyft event in Johnston Square – tentatively Oct 7th
  • Maryland Zoo – ZooBOOO October 29-30th
  • Drive Electric Week events – Sept/Oct
### MD EVsmart Incentive and Rebate Programs

<table>
<thead>
<tr>
<th>Program</th>
<th>Jurisdiction</th>
<th>Program Target</th>
<th>Current Enrollment/Installations</th>
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<tr>
<td>Residential Rebate</td>
<td>Pepco MD</td>
<td>750</td>
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<td>DPL MD</td>
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<tr>
<td>R-PIV TOU Rate</td>
<td>Pepco MD</td>
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<td>346</td>
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<tr>
<td></td>
<td>DPL MD</td>
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<tr>
<td>Residential Plug-in Vehicle TOU (PIV)</td>
<td>Pepco MD</td>
<td>100</td>
<td>15 (42 applicants in review pipeline)</td>
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<tr>
<td></td>
<td>DPL MD</td>
<td>37</td>
<td>2 (5 applicants in the review pipeline)</td>
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<tr>
<td>Multi-Dwelling (MDU) Incentive</td>
<td>Pepco MD</td>
<td>100</td>
<td>14 (26 ports installed; 13 applicants in review pipeline)</td>
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<tr>
<td></td>
<td>DPL MD</td>
<td>25</td>
<td>0 (5 applicants in review pipeline)</td>
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<tr>
<td>Off Peak/Off Bill Rebate</td>
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### MD EVsmart Public Chargers – In Service

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<th>DC Fast Charger</th>
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<td>3</td>
<td>104</td>
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<tr>
<td>DPL</td>
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### MD EVsmart Pipeline Status – Public Chargers

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<td>Pre-Construction / In Construction</td>
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<td>20</td>
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<tr>
<td>Engineering</td>
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<td>106</td>
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<tr>
<td>Total</td>
<td>42</td>
<td>135</td>
</tr>
</tbody>
</table>

### Events & Outreach
- Wicomico County Fair – Aug 19th-21st
- National Drive Electric Week - Poolesville Day Event – Sept 17th
SMECO

• EVSE Pilot Program Update
  • 27 EVSE Installed (24 Level 2, 3 DC Fast)
  • Launched whole-house TOU rates in February

• Events & Outreach
  • EV Meet & Greet on May 14th at LaPlata’s Farmer’s Market
  • Working on October event
Potomac Edison

- **EVSE Pilot Program Update**
  - Residential Rebates: 291
  - Multifamily: 6
  - Public: 21 Level 2, 8 DC Fast
  - TOU Rate: 463 participants

- **Events & Outreach**
  - MUD Ribbon Cutting on July 23, 2022
  - EV Charging Webinars with EVA and MMHA on August 10, September 28, and November 9, 2022
  - Sponsoring Poolesville Day National Drive Electric Event on September 17, 2022
Closing Remarks