

Agenda

- NEVI Overview
- Public Engagement and Stakeholder Outreach
- Maryland ZEVIP Planning Toolkit
- Next Steps





What are ZEVIP and NEVI?

Maryland Zero Emission Vehicle Infrastructure Plan (ZEVIP)

WE ARE HERE

N<u>EV</u>I FORMULA FUNDING

Plan Required by 8/1
 Unlocks ~\$60M in MD
 Must use on AFCs 1st then Communities
 Submitted Annually

NEVI PROGRAM

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

DISCRETIONARY \$ for <u>ZEV</u>

\$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

•Site Hosts

Network Companies
PSC Pilot Program / Utility Investment





NEVI BACKGROUND

MARYLAND STATE PLAN FOR NATIONAL ELECTRIC VEHICLE INFRASTRUCTURE (NEVI) FORMULA FUNDING DEPLOYMENT

MARYLAND DEPARTMENT OF TRANSPORTATION

JULY 15, 2022

 All states submitted plans to the Joint Office by August 1, 2022 (MD was the second (July 15))

- \$57,500,000 for investment in Maryland (after setasides)
- MEA Coordination
- Maryland Goals:
 - 1. Certify Corridors
 - 2. Invest in Communities per **ZEEVIC**

NEVI Schedule (Subject to Change)







NEVI Plan Components







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



2/_

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

Build & Strengthen Public-Private

Facilitate contracting and implementation

Partnerships

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



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	Grid Capacity		
Equity Barriers	Public Education		
Emergency Management	Reliability		
Compatibility	Workforce Development		
ADA Accessibility	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

Engagement & Outreach







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



Submit

14 + 5 =





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







EXISTING MAP OF ALL DC FAST STATIONS



Investments in Maryland

- Current EVSEs:
 - 220 DC Fast Locations
 - 676 Charging Ports
- PSC Pilot Program
 - Install over 960 EVSEs
 - 53 Active DC Fast Locations
- Electrify America
 - DC/Baltimore Charging Identified as priority
 - 15-20 Existing DC Fast Sites
 - 2 more DC Fast Planned Eastern Shore & Western MD
- NEVI is like an 80% Discount for Investors

Objective Driven Scoring Criteria

Environmental Justice	ustice		Transportation		Land Use/Overlays			Electric Vehicles/Existing Infrastru	ucture
Layer Name	Score		Layer Name	Score	Layer Name	Score		Layer Name	Score
Overall Score (UMD/MDE -EJS	CREEN)		Distance to Highway		Transit Oriented Developmen	nents		Optimal Stations (Gov. Survey)	
Top 90th Percentile	8		Within 1 Mile Buffer	10	Yes	1		Yes	1
75th-89th Percentile	6		>1 Mile Buffer	0	No	0		No	0
50th-74th Percentile	4		EV Alternative Fuel C	Corridor	Priority Funding Area			ZEVIP MetroQuest Survey (within Cen	sus Tract)
<49th Percentile	0		Interstate	4	Yes	1		5-16 Selected Locations	3
Designated Rural Area			US Route	2	No	0		2-4 Selected Locations	2
Yes	6		State Route	1	Maryland Sustainable Communi	ties		1 Selected Location	1
No	0		VMT/AADT		Yes	1		0 Selected Locations	0
Justice 40			Rank 1	3	No	0		EV Stations within Census Trac	ct
Yes	2		Rank 2-4	2	Land Uses - 2010			7-39 EV Stations	2
No	0		Rank 5	1	High Density Residential	7		1-6 EV Stations	1
Historical Distadvantage Comm	nunitites				Medium Density Residential	3		0 EV Stations	0
Yes	2				Low/Very Low Density Residential	1		Density of EV Owners	
No	0				Commercial	7		>300	4
Overall Score (CDC SVI)					Institutional	6		150<->300	3
> 0.75	2				Industrial	5		76<->150	2
< 0.75	0				Other	0		1<->75	1
								0	0





Draft Maryland Site Information Tool

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ZEVIP Site Information Tool	nce		State Forest	SUDAN	Paterson
✓ Find address or place	A LAN	2656 ft		Allentown	
50 ft 5,00 ft 5,00	0 Weirton Pittsburgh	Altoona Laurel Bidge State Park	22 State Gamelands No 211	1256 ft 968 ft	Edison 255 /r Long Branch
NEVI Information by Census Tract ×	Wheeling Tser ft	3128 ft	Harrisburg 2335 jt	Lancaster	Trenton
Use the Search Bar to obtain a Maryland NEVI Score.	1	24	54 ft Chambersburg	. 846 ft . 525 ft Philadelph	ia Toms River
If you place your cursor in the search bar, a drop-down will appear to use your current location. You can also click anywhere on the map to choose a specific location.	S	· · · Alder he		Wimington	
Additionally, there is a location radius between zero to one mile. You can change the radius by sliding the blue circle to your desired radius.	Morgantown		X C X E	Nes Nes	w Jersey
Once you select a location, your results will be summarized directly below the radius line. You can export your results by clicking the PDF icon: If this button does not work in a specific browser, it should work by opening the content in a new tab. You can do so by clicking the square with the arrow in the top right-hand corner of the map.	Fairmont Health	All Sales	X	Vinstan	a Atlantic City
There are five buttons on the right-hand side of the map. A detailed list is shown below.	A Land I	1 Halles 1 3ª	A MA	A A IN	
The Home Button will clear any current searches and the map will appear empty as it did before any searches occurred.	I Dial	alue Rue	The second secon	Delaware	
The Plus and Minus allow you to zoom in and out of the map.	The BELLING	18 MASS	AL AL	Markey and	
The Legend summarizes map colors and pins as they relate to the scoring and charging location details.	West Virginia	1 and 1	Dale Cir	MALEN IN	
Find My Location will automatically select and highlight your current location on the map.	Monoghia	Hantsorburg H	Fredericksburg	orria	
JISCLAIMER: This Location Based tool serves guide to help pinpoint potential charging local Your score does not guarantee funding for a cl location. In addition, lower scores do not mean	tions. harging	Virginia Lynchburg High Bridge Trail State Perk	Richmond S	38 fr T3 Hampton	
funding is not possible.	11	6	M12	Norfolk Virginia Beach	A 0
5		in Bren John H	13	A A A A A A A A A A A A A A A A A A A	5 V





pon River John H Kerr

VGIN Fan HERE Garmin FAO NOAA USGS FPA NES

Powered by Esti

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.





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

DRAFT NEVI Formula Funding Program Allocations by Maryland Fiscal Year [July 1 – June 30]									
Funding Category	egory 2023 ² 2024		2025 2026		2027	Total	% of Total		
Planning and Staffing	\$500,000	\$500,000	\$500,000	\$500,000	\$500,000	\$2,500,000	4%		
Installation ¹	\$4,250,000	\$16,250,000	\$11,500,000	\$11,500,000	\$11,500,000	\$55,000,000	96%		
Total	\$4,750,000	\$16,750,000	\$12,000,000	\$12,000,000	\$12,000,000	\$57,500,000 ³			







- End of Year 2022/Early 2023
- Limited Scope
 - Focus on build-out of specific corridors
 - Emphasis on DACs
- Time-limited
 - Not rolling submission
- Risks
 - Supply chain
 - Local approvals





Contact Information



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