

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)

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

WE ARE HERE

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 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

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



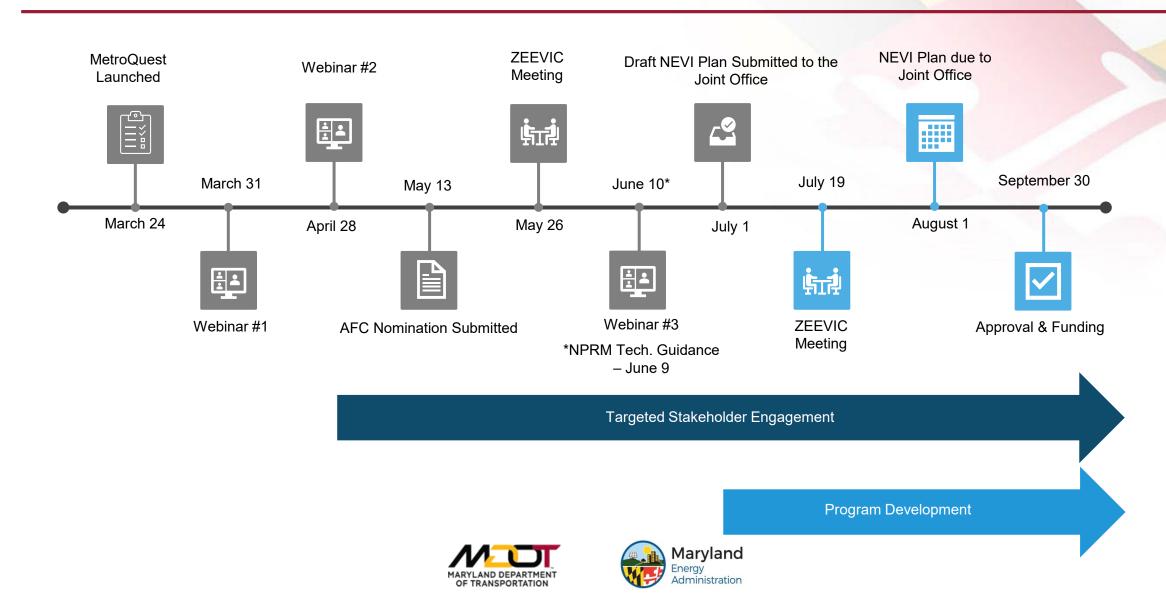


NEVI BACKGROUND



- 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



Introduction



State Agency Coordination



Public Engagement



Plan Vision & Goals



Contracting



Existing & Future Conditions



EVSE Deployment



Implementation



Civil Rights



Equity Considerations



Labor &
Workplace
Considerations



Cybersecurity



Program Evaluation



Discretionary Exceptions





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

Workforce / Job Impacts

Enhance experience-level, and diversity

Provide training

Equitable Charging Infrastructure

Prioritize disadvantaged and rural communities







operations/maintenance

Build & Strengthen Public-Private

Facilitate contracting and implementation

Partnerships



Meet demands in various locations - Urban, suburban. rural, employment centers, multi-unit dwellings, etc.





Risks & Challenges

Supply Chain

Equity Barriers

Public Education

Emergency Management

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











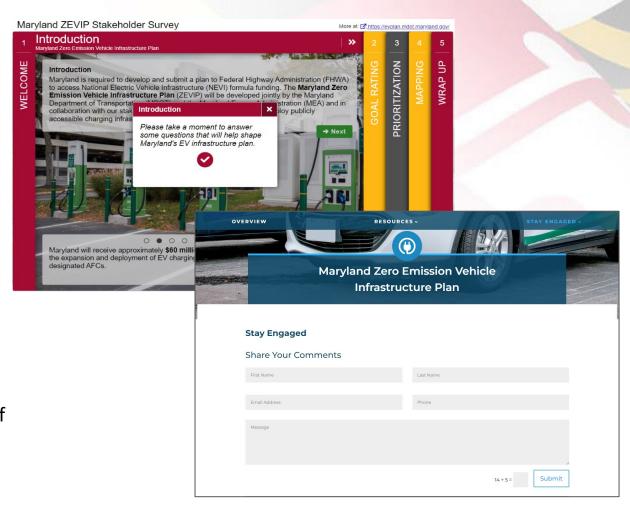






Outreach To Date

- 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







Continuing Outreach

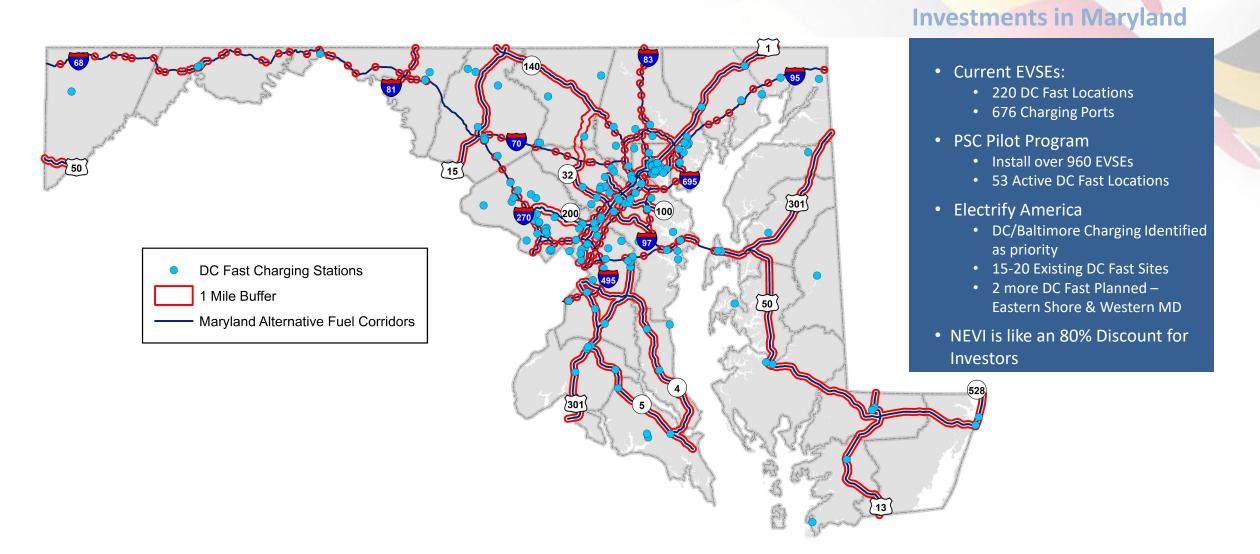
- Public Feedback
 - ZEEVIP Website | ZEVIP Toolkit | NEVI Plan | Program
- Maryland ZEVIP Planning Toolkit
 - Maryland Location-Based Overview
 - Maryland Site Information Tool
 - Corridor & Community Charging
- Targeted Stakeholder Outreach
- ZEEVIC Outreach Activities
 - 6 Events in 2022
 - 25 Past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







EXISTING MAP OF ALL DC FAST STATIONS



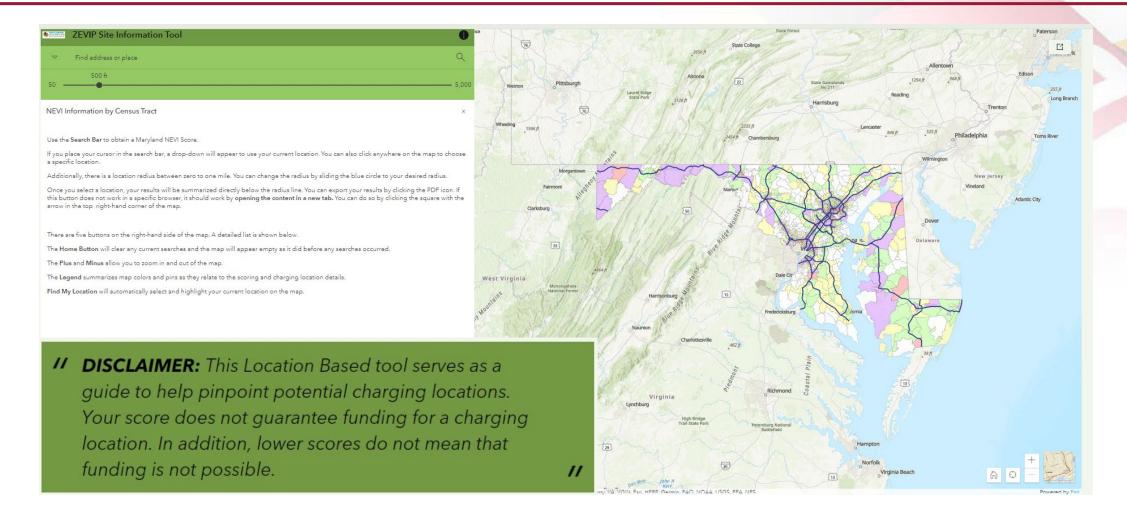
Objective Driven Scoring Criteria

Environmental Justice		Transportation			Land Use/Overlays			Electric Vehicles/Existing Infrastructure		
Layer Name	Score	Layer Name	Score		Layer Name	Score		Layer Name	Score	
Overall Score (UMD/MDE -EJSCREEN)		Distance to Highway		Transit Oriented Developments			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 Corridor			Priority Funding Area		ZEVIP MetroQuest Survey (within Census 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	ities		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	:t	
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	unitites				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







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	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						





First Round

- 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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