



Drive Electric PA Coalition Meeting

January 24th, 2023

via Teams



pennsylvania

DEPARTMENT OF ENVIRONMENTAL
PROTECTION



pennsylvania

DEPARTMENT OF TRANSPORTATION

TEAMS TIPS

- Basics on Audio and Visual
 - Use the “Chat” to share questions and comments anytime
 - Attendee mics and cameras are disabled
 - Request mic access during member updates if desired
 - “Reactions” are encouraged
- The meeting will not be recorded
 - All presentation slides will be posted online within a couple weeks

BY THE NUMBERS

	March 2019	March 2020	March 2021*	March 2022*	January 2023*
BEV	9,784	11,343	16,924	23,689	41,567
PHEV					22,364
Hybrid	29,680	36,252	46,401	56,334	
Other	5,432	6,510	4,159	2,573	
Total	44,896	54,105	67,484	82,596	

- BEV – Battery Electric Vehicle
- PHEV – Plug-in Hybrid
- PennDOT historical data did not differentiate plug-in hybrids and hybrids

Source: PennDOT registration database
*Reporting class 1 vehicles numbers only

KANSAS CITY STREETLIGHT CHARGING PILOT

MIRIAM BOUALLEGUE – KANSAS CITY CLEAN CITIES



INDUCTIVE EV CHARGING

KEVIN FISHER – INDUCTEV



EV NEWS & MEMBER UPDATES



DEP UPDATES

- Level 2 Charging Equipment Rebate (Driving PA Forward)
 - Nearly 1800 plugs installed at over 500 locations since program start in 2018
 - Public spaces: 52%
 - Workplaces: 32%
 - Multi-unit Res.: 16%
 - Approx. \$8.4M committed
 - Approx. \$1.4M remaining
 - Projected to last thru June 2023

DEP UPDATES

- DC Fast Charging Projects (Driving PA Forward)
 - 33 DC fast charging projects awarded since 2019
 - ~\$7.2M committed, \$0 remaining
 - 8 Projects are completed and operational (all EVGo)
- The Alternative Fuel Vehicle Rebate
 - Electric vehicle purchase rebates are now larger (up to \$2k) and income cap applies
 - Low-income \$1k bonus (total maximum rebate \$3k)
 - Since reopening 9/1/22
 - 124 Rebates awarded (\$259k)
 - Low-income bonus added to 24 rebates
 - Bolt, Model 3, Leaf, Prius Prime, ID4

DEP UPDATES

- Alternative Fuel Incentive Grant (AFIG)
- 2022 AFIG closed in Dec.
- 13 projects selected at \$1.5M from 1st application window
 - Will be announced shortly
- 45 applications received in 2nd application window
 - 5.7M request (~\$1.5M available)
- Targeting Spring 2023 reopening

DEP UPDATES

- EV Rate Design Study
 - Final to be published by end of January 2023
 - Policy-level recommendations
 - TOU, demand charges, sub-metering, consumer education
- Medium and Heavy-Duty Zero Emission Vehicle Pilot Grant program (Driving PA Forward)
 - Currently open, accepting applications thru 3/1/23
 - Min. 3 local freight trucks, targeting trucks in EJ communities
 - Funding up to 75-100% of ZEV trucks + infrastructure
 - Pre-application meetings with DEP required, data collection

OVERVIEW OF PA'S NEVI FORMULA PROGRAM



- Provides PA \$171.5 million over next 5 years for electric vehicle (EV) infrastructure
 - Federal Fiscal Year 2022 - \$25.4 million
 - Federal Fiscal Years 2023-2026 - \$36.5 million annually
- PennDOT submitted state plan on July 21, 2022.
- PennDOT NEVI plan approved on Sept 14, 2022.
- Pre-announcement of Funding Opportunity – Oct. 12, 2022
 - Informational Webinar for interested proposers – Nov. 1, 2022
- Notice of Funding Opportunity Released – January 6, 2023



EV ALTERNATIVE FUEL CORRIDORS (AFC)



- PennDOT has nominated corridors over 6 rounds - includes interstates and portions of US 30, US 15, Route 1, and Route 422 - over 1,800 miles of roadway
- NEVI funding must be applied to AFCs until a “**Build-Out**” certification by FHWA



OUTREACH BY THE NUMBERS

- **Public & Stakeholder Engagement:**
 - **59** Meetings to discuss NEVI plan needs
 - **14** Presentations on NEVI plan requirements and needs
 - **12** Stakeholder Engagement Sessions on NEVI plan needs
 - **1** Pilot Community Engagement Session
 - **10** Utility Partner & Business Stakeholder Engagement & Networking Sessions
 - **1** NEVI Grant Pre-Announcement Virtual Webinar
 - **32** Meetings across PA to discuss finalized NEVI Plan



COMPONENTS OF PA'S NOFO

Eligibility

Program Requirements

Application Procedures

Application Evaluation

Post-Selection Activities

Sample Agreement



**Pennsylvania State
National Electrical Vehicle Infrastructure (NEVI)
Formula Program**

NOTICE OF FUNDING OPPORTUNITY (NOFO)

**Commonwealth of Pennsylvania
Department of Transportation**

*Tom Wolf, Governor
Yassmin Gramian, P.E., Secretary of Transportation*

**Round 1 FFY 2022 – FFY 2023
January 6, 2023**



PRIORITY LOCATIONS

PRIORITY I:

Selected via gap analysis to most likely meet AFC build-out

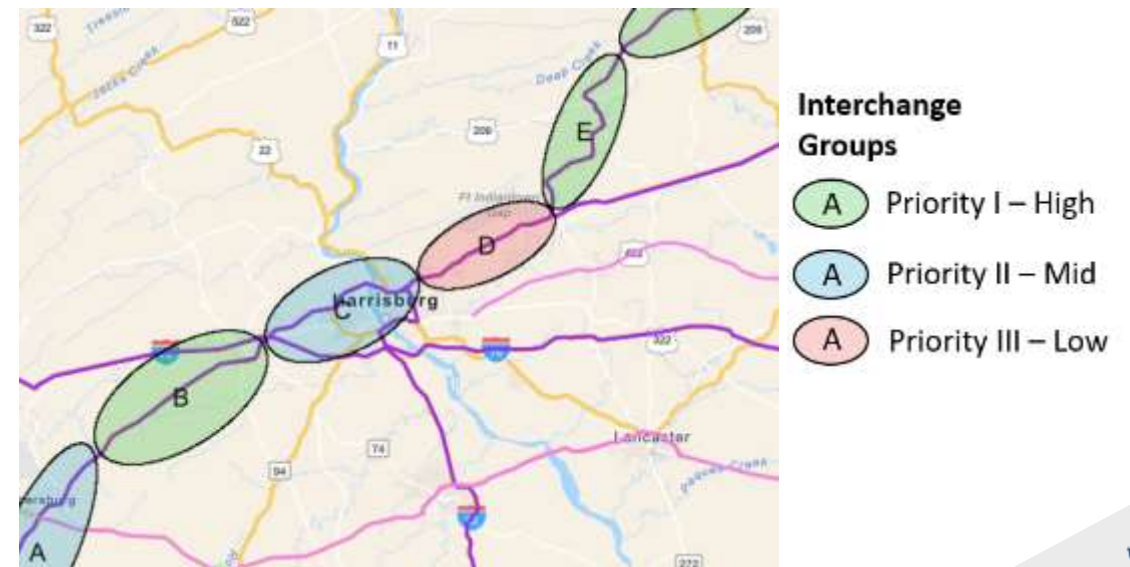
PRIORITY II:

Interchanges in locations closer to existing sites/or likely to be redundant.

PRIORITY III:

Interchanges that already has NEVI-qualifying EV charging site.

- Round 1 will focus on Pennsylvania's primary and auxiliary interstate AFC network and includes 11 primary interstates and four (4) auxiliary interstates
- [PennDOT's interchange group map](#) shows the ~80 gaps labeled as Priority I, II, or III
- At least one site at an interchange within each Priority I group will be selected first, followed by one site within each of the Priority II groups of interchanges.



NOFO SELECTION PROCESS

Date	Item
January 6, 2023	Notice of Funding Opportunity released
January 2023	Submit utility form to utility provider so the utility can complete and return the form to the applicant in time for the application period end date
February 24, 2023 (or prior as per PennDOT discretion)	Application submission period begins (ability to enter in eGrants system)
April 6, 2023	PA NEVI grant program application submission period ends at 5 PM EDT
April – May 2023	PennDOT application review
June 2023	Preliminary award approval and denial notifications
June – August 2023	PennDOT NEPA Process
August 2023	Final award approval and denial notifications
September – October 2023	Grant agreement execution; Notice to Proceed



PROJECT SCORING ELEMENTS

Scoring Category	Points
1. Qualifications and Project Approach	12
2. Candidate Site Information	40
3. Site Readiness	8
4. Future Proofing	4
5. Sustainability, Equity, Resilience, and Economic Development	12
6. Safety and Training	4
7. Project Costs	20
Total	100



SCORING RUBRIC TRANSPARENCY

5. Sustainability, Equity, Resilience, and Economic Development [12pts]

ID	Element	Description	Score Breakdown Points	Max Points
5.1	Renewable Energy Usage	Renewable energy sources used for charging energy	0pts: No renewable energy used 0.5pts: 50% renewable energy used 1pts: 100% renewable energy used	1
5.2	Innovative Technologies and Battery Storage	Innovative technologies and/or approaches to site design, charging, and power storage	0pts: No / minimal innovation used in project 0.5-2pts: Based on amount and level of innovations used across project areas	2
5.3	Use of Diverse Businesses	Involvement of small, women-owned, minority-owned, veteran-owned, and/or other diverse businesses and/or workforce	0pts: No or minimal diverse businesses involved in project delivery 1pt: Moderate number of diverse businesses / equivalent workforce used in project delivery 2pts: Substantial number of diverse businesses / equivalent workforce involved in project delivery	2

5.4	Use of Local Businesses	Involvement of local businesses and/or workforce in project	0pts: No or minimal involvement of local businesses / equivalent workforce in project 1pt: Moderate involvement of local businesses / equivalent workforce in project 2pts: Substantial involvement of local businesses / equivalent workforce in project	2
5.5	Charging Accessibility, Equity Principles, and Justice40 Initiatives	<ul style="list-style-type: none"> • Users with Disabilities • Payment Options • Multilingual Access • Additional Equity Principles 	0pts: No / minimal accessible design for charging and/or no equity principles followed 1-5pts: Based on ability to provide for accessible charging and follow PennDOT's EV equity principles and the Justice40 Initiative	5



UPDATES

- IRS FAQ for EV purchase tax credits:
 - [Frequently asked questions related to new, previously-owned and qualified commercial clean vehicle credits \(irs.gov\)](https://www.irs.gov/efile/faq-ev-credits)
- Member Updates
- PA Legislative Updates from Attendees
 - HB 948 – Annual fee for electric vehicles
 - HB 1907 – Would enable EV direct sales
 - SB 435 – Would allow electric utilities to install charging equipment infrastructure
 - SB 153, HB 722 – Increases the maximum allowable weight of class 8 electric trucks by 2,000 pounds
 - Other

EV CHARGING WITH BATTERY STORAGE

PETER OLMSTED – FREEWIRE



VEHICLE TO GRID TECHNOLOGY

SIDDHARTH SRIDHAR – PACIFIC NORTHWEST NATIONAL
LABORATORY

CHRISTINE HOLLAND – PACIFIC NORTHWEST NATIONAL
LABORATORY



NEXT MEETING

- April 26th, 2023
- Meetings continue to be virtual from 10am – noon
- We will explore having one meeting per year in Harrisburg with a virtual attendance option
- Feel free to share content/speaker ideas

THANK YOU!

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