



Drive Electric PA Coalition Meeting

July 20th, 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 2020	March 2021	March 2022	March 2023*	June 2023*
BEV	11,343	16,924	23,689	43,725	50,009
PHEV				23,839	27,116
Hybrid	36,252	46,401	56,334	221,661	238,690

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

Source: PennDOT registration database

*VIN de-coding completed

DEP AND PENNDOT EV UPDATES



DEP UPDATES

- Level 2 Charging Rebate (Driving PA Forward)
 - 2,021 new charging plugs installed at 569 locations
 - Public spaces: 52%
 - Workplaces: 32%
 - Multi-unit Res.: 16%
 - Approx. \$9.4M committed
 - Approx. \$400k remaining
 - Application closed, reopening soon
 - New guidelines (final version)
 - 45-day extension option, waitlist, max. 6 plugs per site

DEP UPDATES

- DC Fast Charging Projects (Driving PA Forward)
 - 32 DC fast charging projects awarded since 2019
 - ~\$7.2M committed, \$0 remaining
 - 11 Projects are completed and operational
- The Alternative Fuel Vehicle Rebate
 - Electric vehicle purchase rebates (income caps apply)
 - \$2000 for new or used BEV
 - \$1500 for new or used PHEV
 - Low-income \$1k bonus (total maximum rebate \$3k)
 - Since reopening 9/1/22
 - 374 Rebates awarded (\$809k)
 - Low-income bonus added to 96 rebates
 - Top models: Bolt, Model 3, Leaf, Prius Prime, ID4

DEP UPDATES

- Alternative Fuel Incentive Grant (AFIG)
- 2022 AFIG awarded \$4.4M
 - 13 projects awarded \$1.5M from 1st application window
 - 28 projects awarded \$2.9M from 2nd application window
 - 86% of funding to Electrification (\$3.8M out of the \$4.4M)
 - \$2.5M to EVs
 - \$1.3M to EV charging infrastructure
- 2023 AFIG opened July 1 (at least \$3M available)
 - 1st Application window: Aug. 25, 2023
 - 2nd Application window: Dec. 15, 2023

DEP UPDATES

- Medium and Heavy-Duty Zero Emission Vehicle Pilot Grant program (Driving PA Forward)
 - Goal to develop fleet case studies
 - Min. 3 local freight trucks per fleet
 - Targeting trucks operating in EJ communities
 - Funding up to 75-100% of ZEV trucks + infrastructure
 - Successful applicants commit to 2 years of data reporting
 - DEP contractor will develop & publish case studies
 - 18 applications received & under review

DEP: REVISING THE EV ROADMAP

- Original EV Roadmap developed in 2017/18
- Limited in scope to light-duty plug-in vehicles
- Updated in 2021 with current data, continued strategy
- Planning for development of a new *ZEV Roadmap* in 2023
 - Make use of better, current data for new modeling
 - Re-evaluate and present new recommendations for PA
 - Expand scope to include medium- and heavy-duty trucks
 - Expand scope to include analysis and preliminary strategy for hydrogen fuel cell vehicles and infrastructure
 - Contractor selection – RFQ late July
 - Contractor will engage DEPA Coalition members

PENNSYLVANIA ELECTRIC VEHICLE ROADMAP

Prepared for the Pennsylvania Department of
Environmental Protection
February 2019



MEISTER
CONSULTANTS GROUP | A CADMUS COMPANY



NEVI YEARS 1-2 FOCUS

DC Fast Charging

Public

4 ports

CCS Connectors

At least 150kw power per port (600kw total)

Within 1-mile of highway, 50 miles of the next station

How to Charge Your EV



Charge Time



Charging Locations

Level 1

3.5 - 6.5 miles
Per Hour

Residential,
Workplace

Level 2

14 - 35 Miles
Per Hour

Residential,
Workplace,
Destinations

DC Fast Charge

200+ miles
Per Hour

Highways,
Communities,
Destinations



EV ALTERNATIVE FUEL CORRIDORS



- 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



PRIORITY LOCATIONS

PRIORITY I:

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

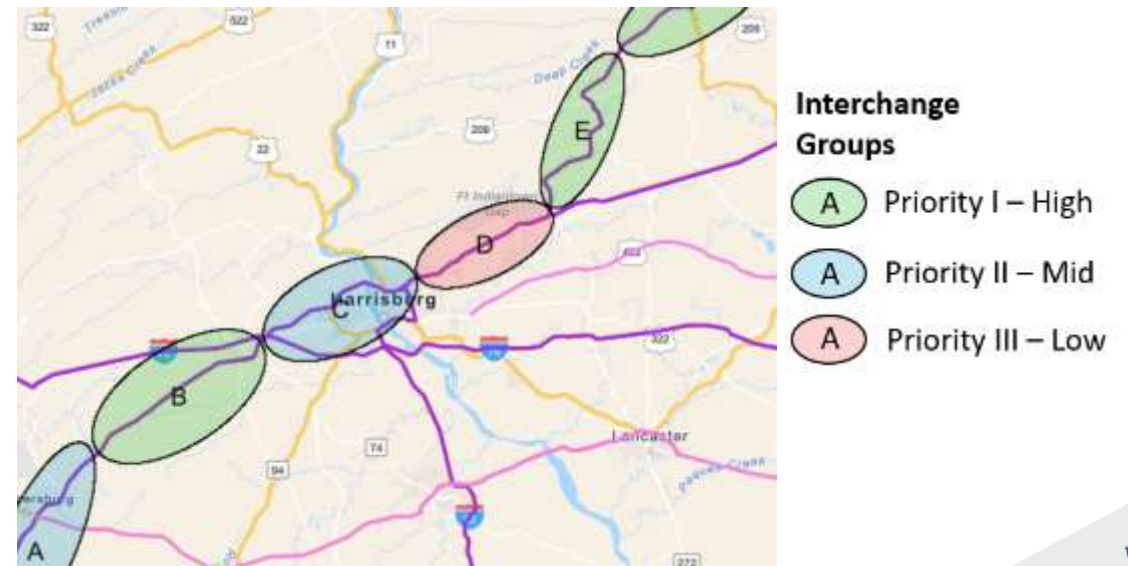
PRIORITY II:

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.



PENNDOT'S ROUND 1 NEVI PROGRAM



- PennDOT Round 1 Program Document Released – January 6, 2023
 - Updated – March 13, 2023
 - Submissions Due – May 5, 2023
- Received 271 submissions
- Hope to announce project selections in mid-August
- Round 1a will prioritize remaining interstate highway gaps from Round 1 and non-interstate AFC's
 - Priority locations map to be released in September
 - Funding opportunity anticipated to be released in 4th quarter of 2023



GENERAL UPDATES

- IRS FAQ for EV purchase tax credits:
 - [Frequently asked questions related to new, previously-owned and qualified commercial clean vehicle credits \(irs.gov\)](#)
- EPA 2023 Clean School Bus program is now open!
 - [Clean School Bus Program Grants | US EPA](#)
- Urban E-Mobility Toolkit:
 - [Charging Forward: A Toolkit for Planning and Funding Urban Electric Mobility Infrastructure | US Department of Transportation](#)

PENNSYLVANIA EV LEGISLATIVE UPDATES

NOLAN RITCHIE – SENATE TRANSPORTATION COMMITTEE



NORTH AMERICAN CHARGING STANDARD OPEN DISCUSSION



ATTENDEE EV UPDATES



NEXT MEETING

- Plan to have an in-person option in Harrisburg, PA for the next meeting
 - A focus of the meeting will be providing feedback to DEP's contractor developing the PA EV Roadmap 2.0
 - The meeting date and details will be announced when available
- Feel free to share content/speaker ideas

THANK YOU!

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