



# Drive Electric PA Coalition Meeting

February 28th, 2024  
Harrisburg, PA



**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

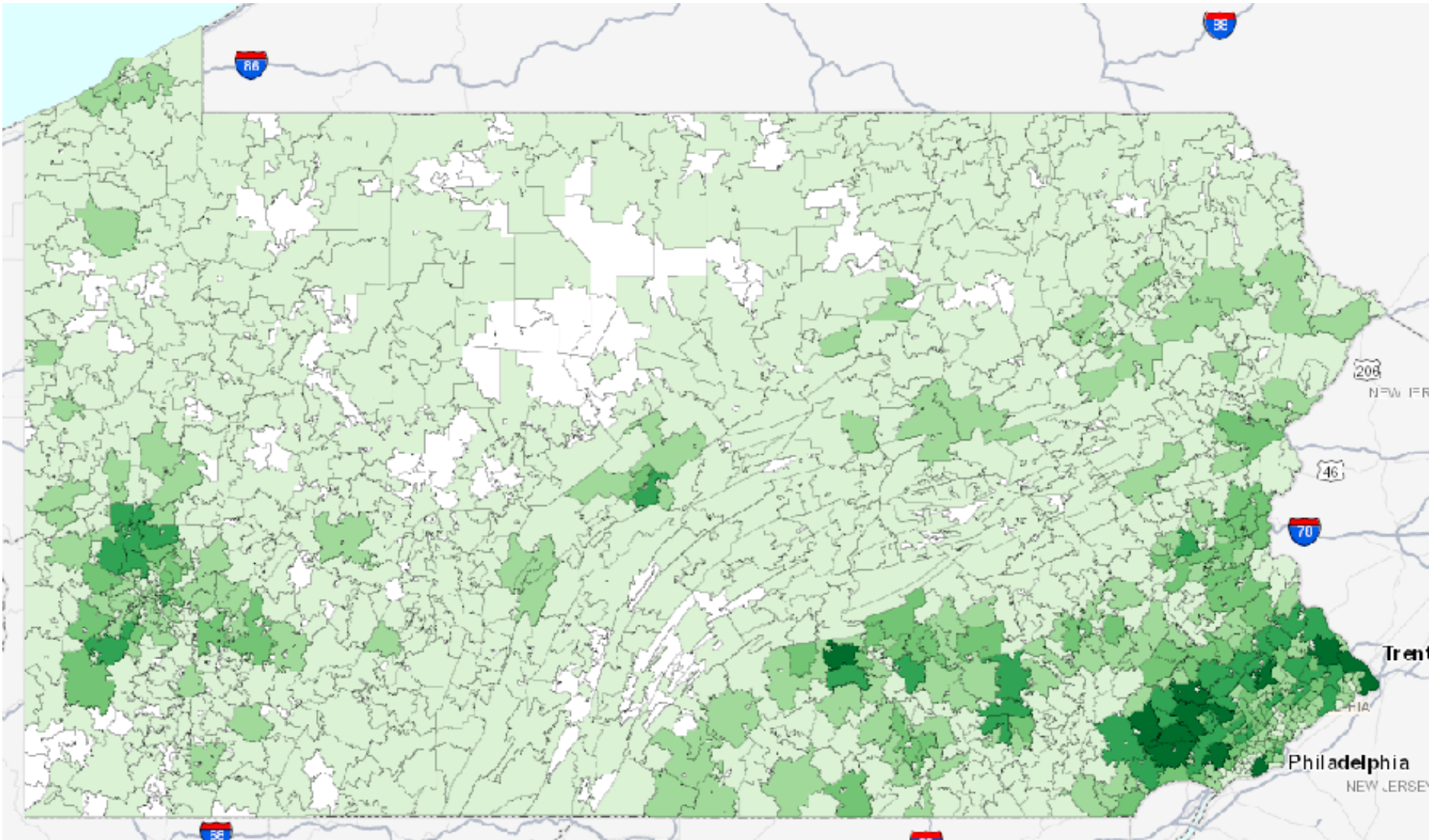
# EV REGISTRATIONS IN PA

Fuel type	1/31/2023	Percent Increase since March 7, 2023
BEV	63,247	44.7%
PHEV	36,814	54.4%
HEV	274,752	24.0%
Fuel Cell	1	0.0%
Total	374,814	29.6%

Source: PennDOT registration database

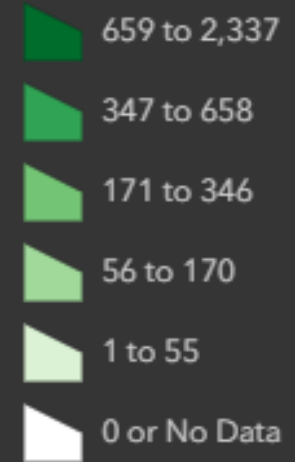


# EV REGISTRATIONS IN PA



## Vehicle Registrations by ZIP Code

Total Electric Fuel Vehicles



[PennDOT EV Registrations Interactive Map](#)



# PENNDOT AND DEP EV UPDATES



# 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**

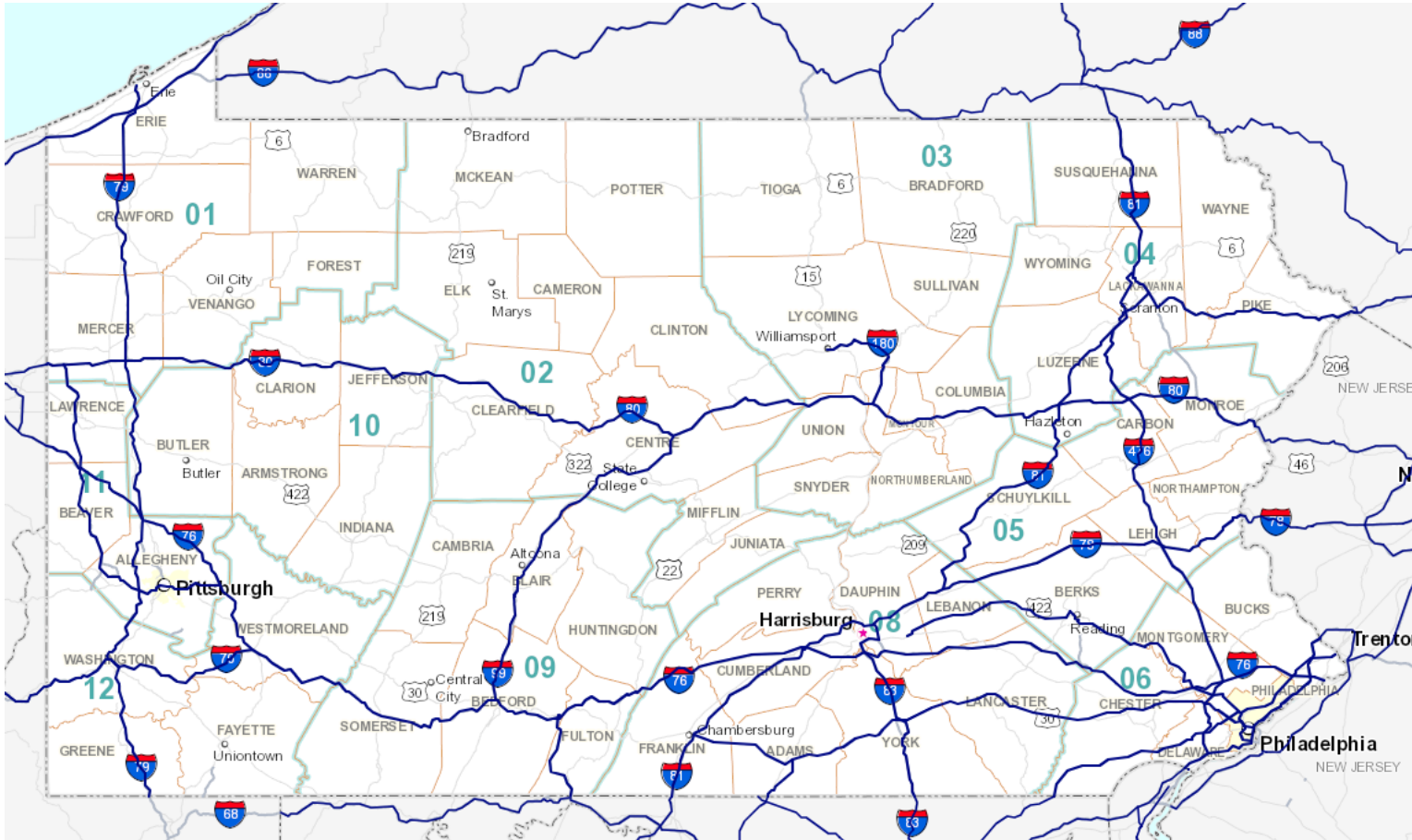
**200+ miles**  
Per Hour

Highways,  
Communities,  
Destinations





# EV ALTERNATIVE FUEL CORRIDORS



- PennDOT has nominated corridors over 7 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

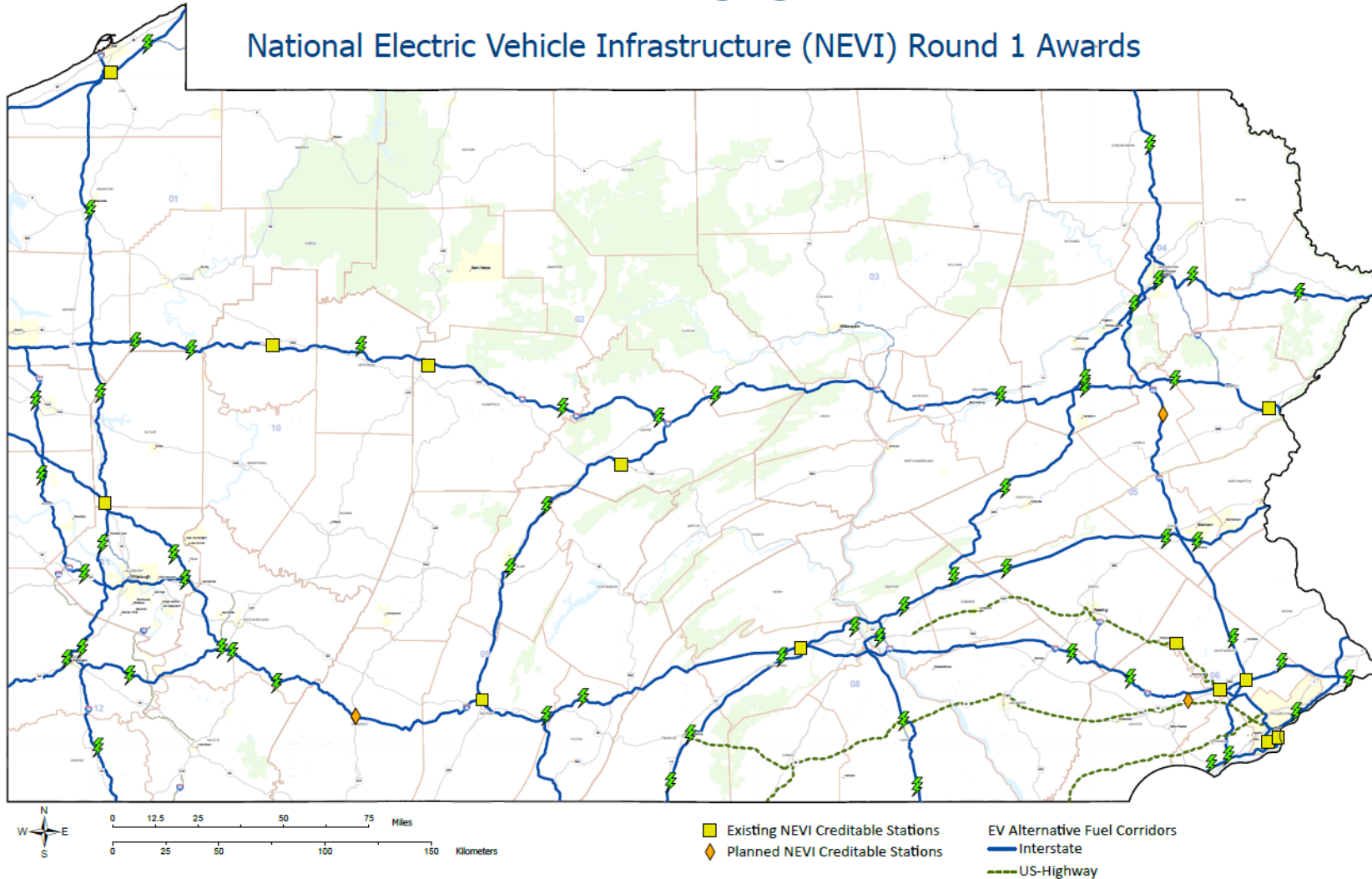


# ROUND 1 CONDITIONAL AWARDS



## Electric Vehicle Charging Stations 2023

### National Electric Vehicle Infrastructure (NEVI) Round 1 Awards



- 55 projects within 36 counties
- \$34.1 million
- 24 projects in or within ½ mile of a Disadvantaged Community
- Typical Project Timeline 18-24 months



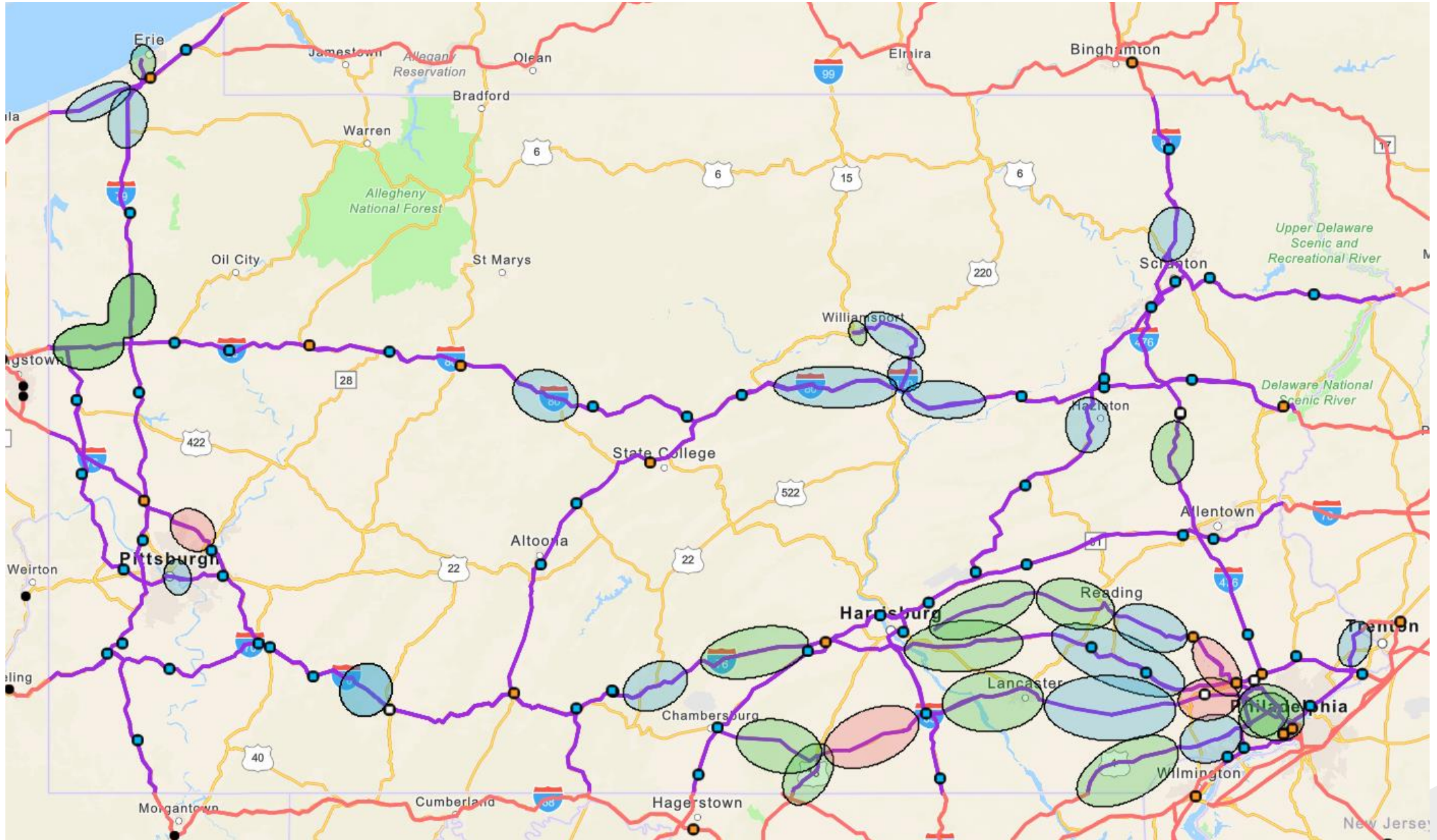


# ROUND 1A TIMELINE

Activity	Date
Draft Priority Locations map released	October 3, 2023
Community outreach events (6)	October-November 2023
Networking event	November 13, 2023
Funding Opportunity released	November 13, 2023
Priority Locations map finalized	November 13, 2023
Deadline to submit technical questions	December 4, 2023
eGrants system opens for online proposals	December 11, 2023
Submit utility form to electric utility	Mid-November 2023 to Mid-January 2024
Deadline to submit online proposals	January 26, 2024, at 5:00 PM EST
PennDOT proposal review	February-April 2024
Conditional award notifications	May 2024
PennDOT NEPA process	May-July 2024
Agreement execution; notice to proceed	August-September 2024



# ROUND 1A PRIORITY LOCATIONS



# WHAT'S NEXT

- Round 1B – final round of AFC buildout, projected to be only a handful of projects
- Round 2 – Community Buildout
  - Approximately \$100 million available
  - Planning starting now
  - Anticipated to commence 2026 or 2027
  - Community and stakeholder engagement continues to develop the program.
- EV Charging Reliability and Accessibility Accelerator Program (RAA)
  - Anticipate running program similar to NEVI
  - There are 293 eligible charging ports at 174 locations in Pennsylvania
  - Anticipate that between 20 and 50 sites will receive an award.
- DOE E-Construction Equipment Grant



# GENERAL UPDATES

- The IRS released a map identifying the locations eligible for the Alternative Fuel Infrastructure tax credit (30C)
  - <https://experience.arcgis.com/experience/3f67d5e82dc64d1589714d5499196d4f/>
- GM has publicly released their EV first responder training as a free video series available online
  - <https://gmevfirstrespondertraining.com/onlinetraining/>
- SAE International has created the first brand-neutral national certification program for EV charging station technicians
  - <https://www.sae.org/learn/professional-development/electric-vehicle-supply-equipment-technician-certification>

# DEP UPDATES

## Level 2 Charging Rebate (Driving PA Forward)

- 2,474 new charging plugs installed at 684 locations
  - Public spaces: 52%
  - Workplaces: 32%
  - Multi-unit Res.: 16%
- Approx. \$10M committed
- Program closed – funds exhausted

# DEP UPDATES

## DC Fast Charging Projects (Driving PA Forward)

- 32 DC fast charging projects awarded since 2019
- ~\$7.2M committed, \$0 remaining
- 16 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 July 1<sup>st</sup> 2023
  - 395 Rebates awarded (\$ 869,500)
  - Low-income bonus added to 101 rebates
  - Top models: Bolt, Model 3, Model Y, Leaf, Niro EV



# DEP UPDATES

## Alternative Fuel Incentive Grant (AFIG)

2023 AFIG awarded \$1.28M Round 1

13 projects awarded for Round 1

89% of funding to Electrification (\$1.14M out of the \$1.28M)

\$743,500 to EVs

\$395,621 to EV charging infrastructure

Recommendations for funding are being developed for Round 2 applications

2024 AFIG program to open the end of March 2024

\$5M funding available for 2024

# DEP UPDATES

## Electric School Bus

- DEP just concluded an electric school bus educational workshop series
- DEP is offering technical assistance to select attendees
- Over \$47M awarded to PA schools in EPA's 2023 grant round of Clean School Bus funding
- EPA's 2023 rebate closed mid-Feb 2024 – award announcements expected April/May



# DEP UPDATES

## Medium and Heavy-Duty Zero Emission Vehicle Pilot Grant program (Driving PA Forward)

- DEP awarding \$39.6M to replace aging diesel fleets with ZEV
- Funded by Environmental Mitigation Trust (VW Settlement)
- Targeted fleets operating in EJ communities
- Goal to develop fleet case studies with 2 years of data
- Funding up to 75-100% of ZEV trucks + infrastructure
- 16 awardees; a variety of MHD vehicles

# ATTENDEE EV UPDATES



# THANK YOU!

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# NEXT MEETING

- May/June 2024
  - Virtual only
- Let us know your thoughts and feedback from today's meeting
- Feel free to share content/speaker ideas