

PENNSYLVANIA NATIONAL ELECTRIC VEHICLE INFRASTRUCTURE (NEVI) PROGRAM

GRANT INFORMATION WEBINAR

NOVEMBER 01, 2022

AGENDA

□ Introduction

- PennDOT NEVI Grant Pre-announcement
- □ How to Get Ready
- Next Steps
- Q&A





DISCLAIMER

All the information provided in this webinar is subject to change based on FHWA final NEVI Guideline and Rulemaking updates.

Final Notice of Funding Opportunity (NOFO) and Contractual Language will provide final guidelines.

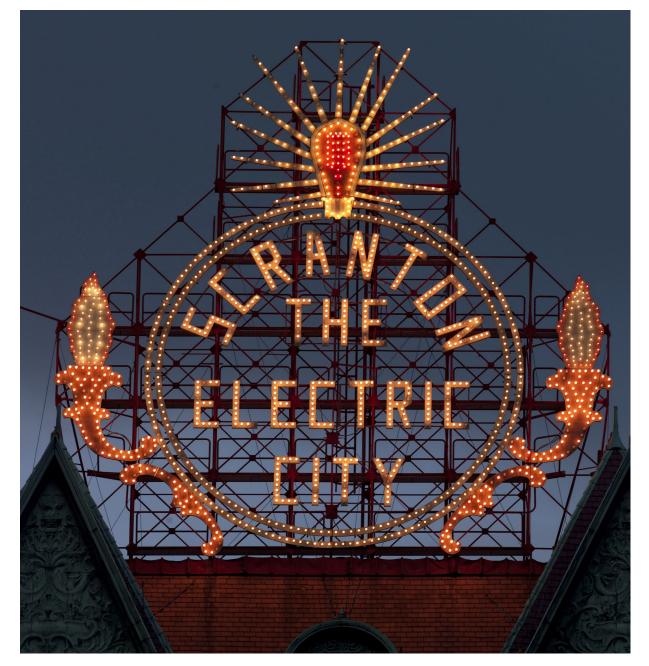
* NOFO may be advertised prior to final rulemaking. If so, Contractual Language will provide final guidelines.



PENNDOT NEVI GRANT PROGRAM - INTRODUCTION

Natasha Fackler









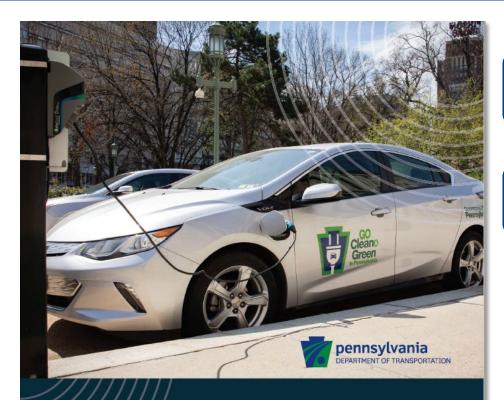
OVERVIEW OF NEVI FORMULA PROGRAM



- Funded though the 2021 Bipartisan Infrastructure Law (BIL)
- 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
- All states must submit a NEVI State Plan before funds can be used. Must be updated 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
- Proposal Announcement late December/early January



PENNDOT NEVI STATE PLAN



PENNSYLVANIA STATE PLAN FOR ELECTRIC VEHICLE INFRASTRUCTURE DEPLOYMENT

National Electric Vehicle Infrastructure (NEVI) Formula Program

VERSION FOR FFY 2022-2023

Approved by USDOT / On PennDOT's Website Search for "PennDOT NEVI State Plan"

What's in the Plan?

- Vision and goals for the NEVI program
- Focus areas for NEVI program spending
- Needs, gaps and opportunities
- Key challenges and risks
- Contracting framework (more to come)
- Labor and workforce needs and actions
- Engagement and equity priorities



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 <u>must</u> be applied to AFCs until a "Build-Out" certification by FHWA



PENNDOT FUNDING ROUNDS

Round 1 Primary/Auxiliary AFC Interstates	Round 2 Round 1 Unfilled Interstates/ Other AFC Routes	Round 3	Future Rounds
Dec 2022 (Anticipated)	Mid 2023 (Anticipated)	2024 (Anticipated)	TBD (Anticipated)
FY 22 - \$25.4 million FY 23 - \$36.5 million (PennDOT NEVI funding)		FY 24 - \$36.5 million FY 25 - \$36.5 million FY 26 - \$36.5 million (PennDOT NEVI funding)	
FY '22 & '23 - Approx. \$56 million (Anticipated available amount for applicants)			approx. \$100 million amount for applicants)

* Note: This is the total NEVI funding available by federal fiscal year. Some of this amount may be used for labor & workforce training, planning, outreach, and program management as allowed by NEVI guidelines. Remaining amount will be available for applicants.

FEDERAL ELIGIBLE COSTS

- Program administration costs.
- Costs for pre-construction
- **Construction** costs (as defined under 23 U.S.C. 101(a)(4)) directly related to EV charging station
- Costs for planning, permitting, acquisition, and installation of on-site distributed energy resource equipment (e.g., solar arrays, stationary batteries).
- Costs to acquire and install on-site electric service equipment (e.g., power meter, transformer, switch gear)
- Cost of **minor grid updates** (i.e. work necessary to connect a charging station to the electric grid distribution network).
- Costs to repair, upgrade, and/or replace existing EV charging equipment to meet NEVI minimum standards/requirements.
- Costs to upgrade existing EV charging stations to meet ADA requirements.
- Costs to purchase proprietary adapters.
- Cost to install, operate, and maintain electric vehicle charging infrastructure (up to 5 years after the charging station is commissioned)
 - Charging equipment lease fees (lease charging equipment rather than purchase).
 - Cellular network fees, internet service fees, or other similar fees.
 - Hardware and software maintenance and repair costs, including service agreements with third-party contractors and charging equipment manufacturers or warrantors.
 - Other operation costs that are necessary and directly related to the charging of vehicles.
- Cost to install signage at site
- Costs for data sharing about EV charging infrastructure to ensure the long-term success of investments.
 - This includes, to the extent practicable, costs related to the specific data sharing requirements of this program as well as costs of data sharing on all chargers and charging activities on the EV network.



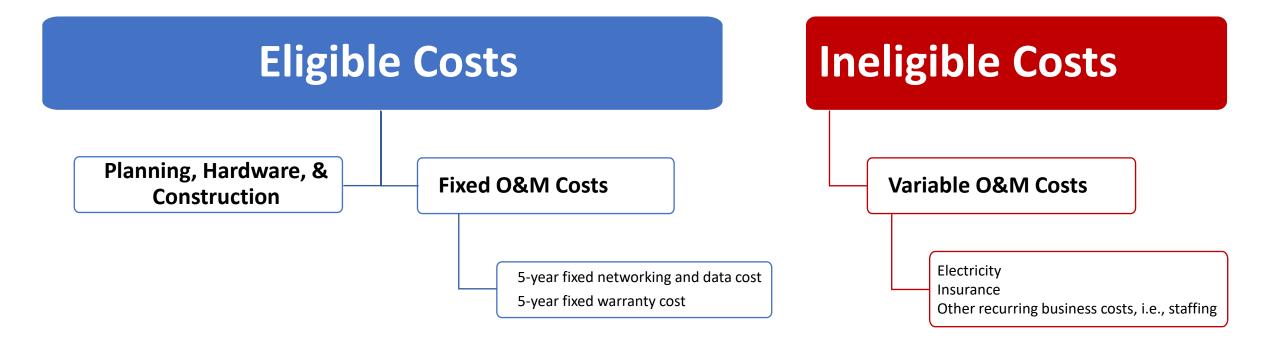
FEDERAL INELIGIBLE COSTS

- 1. Any costs incurred prior to grant award.
- 2. Any costs not directly related to an EV Charging Station.
- 3. Purchase or rental of real estate.
- 4. Construction or general maintenance of building and parking facilities (if not directly related to EV Charging Station).
- 5. Cost of major grid upgrades (longer line extension or upgrades, improvements to offsite power generation, bulk power transmission, or substations).

* These are preliminarily identified eligible and ineligible costs. PennDOT is currently working with the Joint Office, FHWA, and its internal agency team to finalize the eligible and ineligible cost details. Final eligible and ineligible costs will be identified in the formal NOFO.



PA ROUND 1 MATCH REQUIREMENTS



PennDOT	Applicant	
Grant award - UP TO 80%	Grantee match - AT LEAST 20%	
of the eligible project costs.	of the eligible project costs.	

Grant award WILL NOT cover or consider ineligible costs in grant formula.

*Amount of match is part of evaluation criteria. Match requirements are subject to change.

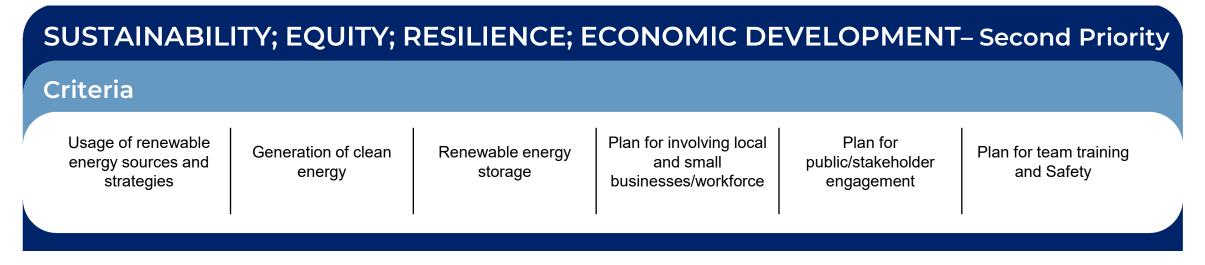
SELECTION CRITERIA

SITE RELATED – Highest Priority

Interchange Score (Location)

Ability to fill gaps	Number & type of nearby facilities	Proximity of fac interchanges w access		cess of Rou ities	te Significance	Equity: Environmental Justice areas, rural areas, air quality non- attainment areas
Site Reading	ess					
Power availability	Amount of utility coordination completed	Amount of site development needed	Communication availability	Existing or need for site agreement /ownership	Existing or need partnership agreement in pla	environmental
Future Proo	fing					
Power per port/site proposed	Number of additional ports/site proposed	Ability to provide more power per port in the future	Ability to add future ports	Availability of pull through sites	Ability to mee medium heav duty chargin requirements	/y heavy duty vehicle g charging

SELECTION CRITERIA



COST- Third Priority

Criteria

Amount of funding requested (out of total project cost)

*Please note these selection criteria are subject to change. The final selection criteria will be identified in the NOFO.



USDOT NEVI PROGRAM - NPRM

Public comment on Proposed rules was open for 60 days. Closed on Aug '22.

383 Public comments received.

Released June 9, 2022 (aka "180 day Minimum Standards") Released by US DOT FHWA to govern the following aspects of NEVI:

- § 680.106 INSTALLATION, OPERATION, & MAINTENANCE
- § 680.108 INTEROPERABILITY OF EVSE)
- § 680.110 TRAFFIC CONTROL DEVICES & SIGNS
- § 680.112 DATA SUBMITTAL
- § 680.114 CHARGING NETWORK CONNECTIVITY OF EVSE
- § 680.116 PUBLIC INFO ON LOCATIONS, PRICING, ACCESSIBILITY

US DOT is reviewing comments and determining if revisions are needed to the Final NEVI Program Rules, which are still pending.



USDOT NEVI PROGRAM - NPRM

Key Proposed Rules

- *Procurement Process Transparency*: Public disclosure on procurement process, # of bids, awardees, contract terms, project financial cost/award amounts, disclosure of fees for charging by EVSE.
- State DOT Quarterly/Annual Data Submittal: EVSE location; Session Start/End time; y/n completion/port; kWh/port/session; peak kW/port; uptime; 0&M costs; any associated DER and specifications.
- *State DOT Annual Community Engagement Report:* Based on most recent FHWA approved state NEVI plan including community engagement type, date, number of attendees, communities represented by attendees, and how state DOT "reflected" information gathered by the engagement to inform the state DOT NEVI Plan.
- *Technician Certification*: All electricians installing, operating, maintaining NEVI funded EVSE must have EVITP or similar.
- Use of Program Income: "A reasonable return on investment of any private person financing the EV charging station project, as determined by the State DOT."

Key rules that apply to PennDOT Administration of the NEVI Program Funds

USDOT NEVI PROGRAM - NPRM

Key Proposed Rules

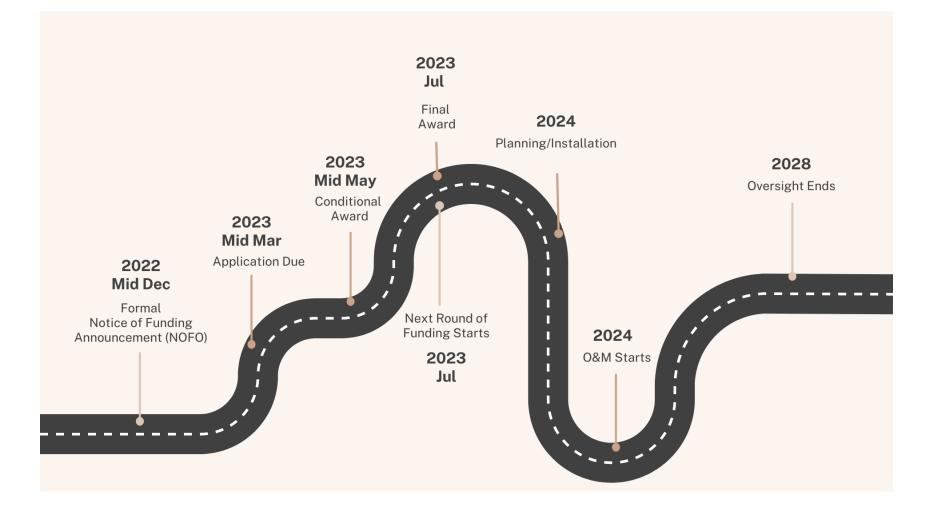
- Available Access: 24 hours, 7 Days a week.
- *Payment Methods:* Contactless payment method accepting all major debit/credit cards, and the ISO 15118 standard

Key rules that apply to the EVSE owner operators receiving NEVI program funds.

- *Interoperability of EVSE*: EVSE must conform to ISO 15118 to communicate with CCS-compliant vehicles that have implemented ISO 15118.
- *EVSE Network Communication*: EVSE Secure communication with charging network via OCPP (see § 680.120 c.1)
- *Communication of Price*: "Chargers must display and base the price for electricity to charge in \$/kWh."
- Minimum Uptime: 97% minimum uptime calculated w/equation: μ= ((8760 (T_outage T_excluded))/8760) X 100
- *Third-Party Data Sharing*: Data fields must be available, free of charge, to 3rd-party software developers, via API



ANTICIPATED TIMELINE



* 5 Year O&M starts once Installation is completed and approved for O&M.

* These dates are representative and are subject to change based on applicants' feedback. NOFO will identify specific dates.



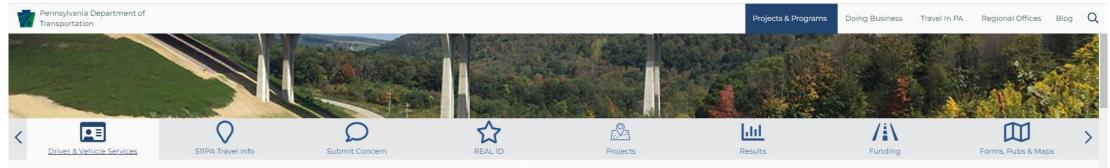
PENNDOT NEVI GRANT PROGRAM PRE-ANNOUNCEMENT

Jamie Kopko



ACCESSING PRE-ANNOUNCEMENT

https://www.penndot.pa.gov/ProjectAndPrograms/Planning/EVs/Pages/default.aspx



DOT > Projects & Programs > Planning > Electric Vehicles and Alternative Fuels

Electric Vehicles and Alternative Fuels

Electric vehicles (EV) and other alternative fuels — including compressed natural gas (CNG), liquified natural gas (LNG), propane, and hydrogen — are playing an increasingly important role in Pennsylvania's transportation network. To meet public and industry expectations and ensure Pennsylvanians can get to their destinations safely and reliably using EVs and alternative fuels, PennDOT is planning for the new infrastructure needed to support this transition today — paving the way for the cleaner, more energy-efficient travel of the future.

PennDOT is actively collaborating with federal, state, and local partners to expand the Commonwealth's EV charging and alternative fuels network. Through the Federal Highway Administration's (FHWA) Alternative Fuels Corridor (AFC) program, the department is proactively planning for the build-out of fastcharging EV and alternative fuel stations, particularly along highways, to support the needs of drivers for reliable long-range and employment-related travel. PennDOT also works closely with the <u>Pennsylvania Department of Environmental</u> <u>Protection</u> (PA DEP), which leads a number of EV and alternative fuels initiatives and funding programs.

More information on EVs, the status of Pennsylvania's EV charging network, the AFC program, and other departmental efforts regarding alternative fuels may be found below.





PENNDOT NEVI GRANT PROGRAM LOCATION MAP

Jonathan Riehl



ROUND 1 PRIORITY PROJECT LOCATIONS

Mercer

MERCER

JEFFERSON

TWP

62

SPRING

62

ACKSON

CENTER

19A-E

173

BROAD

ACRES

29 🖪

BARKEVILLE

Pennsylvania NEVI - Anticipated F × +

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Pennsylvania NEVI - Anticipated Funding Round 1 - Interchange Information

CLARK

HERMITAGE

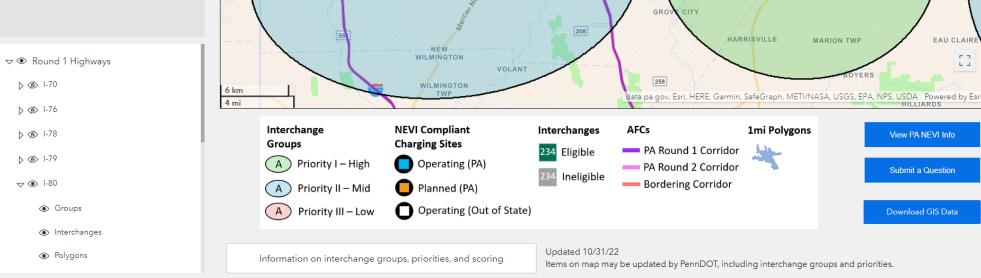
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Instructions

- Click on the expander arrow to show all Funding Round 1 Highways, By default, I-80 is shown on the map.
- Use the eye icon to show or hide the highway you are interested in on the map.
- You can turn on/off subcomponents by using the expanding arrow and eye icon for each highway if desired.
- As you zoom in, different layers and labels will appear, so if you do not see something you're looking for, try zooming in or out on the map.
- · AFC lines are shown by default and compliant NEVI chargers are hidden. Use the eye icon to toggle these layers as desired.



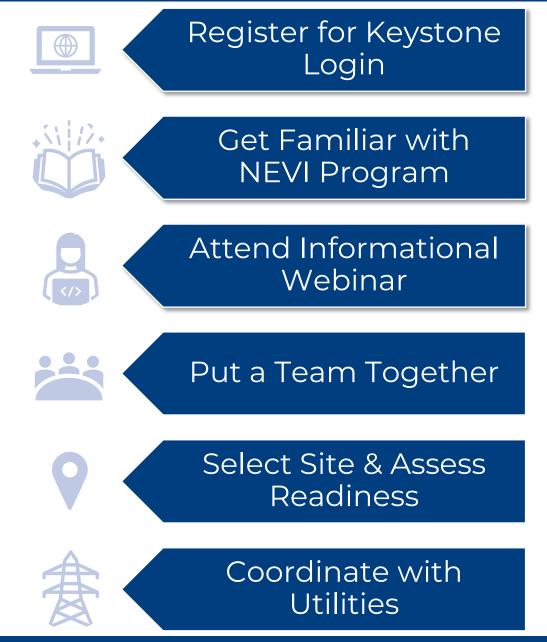


PENNDOT NEVI GRANT PROGRAM - HOW TO GET READY TO APPLY

Andrew Conley



HOW TO GET READY





REGISTER FOR KEYSTONE LOGIN

□ Register for Keystone Login using the link below:

https://www.esa.dced.state.pa.us/login.aspx

□ You will need the following information:

Personal information: First name, last name, date of birth

Contact information: Email, Mobile phone number

Login information: Your preferred username/password

□ 3 Security Questions/Answers

* Note: You will need the keystone Login to submit grant application

Login

What's New?

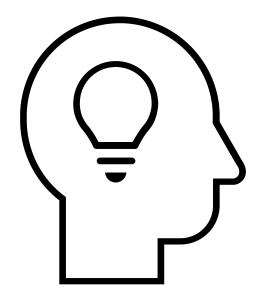
For an overview of the changes in the new Single Application, please read $\underline{\mathsf{Help}}.$

Username	
Password	
	LOGIN
	Powered by
PA	KEYSTONE LOGIN
	Register
	Forgot Password
	Forgot Username
	Learn more about Keystone Login
	Having Trouble Registering



GET FAMILIAR WITH NEVI PROGRAM

- □ Learn about the NEVI Program.
 - □ Resources for
 - PA NEVI Plan
 - □ Federal NEVI guidance
 - □ Federal NEVI FAQ
 - NEVI proposed rulemaking <u>https://www.penndot.pa.gov/ProjectAndProgr</u> <u>ams/Planning/EVs/Pages/Learn-NEVI.aspx</u>





ATTEND THE INFORMATION WEBINAR

□ This webinar is recorded for your convenience.

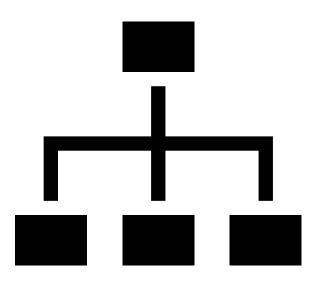
Register and attend one of the upcoming stakeholder sessions (Nov 3, Nov 10, Nov 15, Nov 22)

- Register using the link below <u>https://www.penndot.pa.gov/ProjectAndPrograms/Planni</u> <u>ng/EVs/Pages/Learn-NEVI.aspx</u>
- Refer to the FAQ section for commonly asked questions/responses
- Email the team at (ra-pdevcorridors@pa.gov) if you have any additional questions.



PUT A TEAM TOGETHER

- Successful planning, deployment, and O&M of EV site would likely require at least:
 - □ Site Planner
 - □ Construction contractor (Civil, Electrical, etc.)
 - Refer to NEVI guidelines for certification/training requirements
 - **D** Equipment Supplier
 - Operators; Maintainers
 - Others
- * Note: Some team members may play different roles
- **** Note:** Applicant will need to identify the team members as part of the application.



CLEAN CITIES COALITIONS

Mission: To reduce petroleum consumption within the transportation sector using alternatives to gasoline and diesel.



TONY BANDIERO, EP-ACT

Email: <u>tfbandiero@ep-act.org</u> Website: <u>https://ep-act.org/</u>



RICHARD PRICE, PRCC

Email: rprice5705@aol.com Website: <u>http://pgh-cleancities.org/</u>

Part of the Department of Energy's Clean Cities Program since 1995

Comprised of Public and Private companies, State and Local Governments, Municipalities and Utilities

Assist with Grants/incentives/vouchers/rebates

Technical Assistance

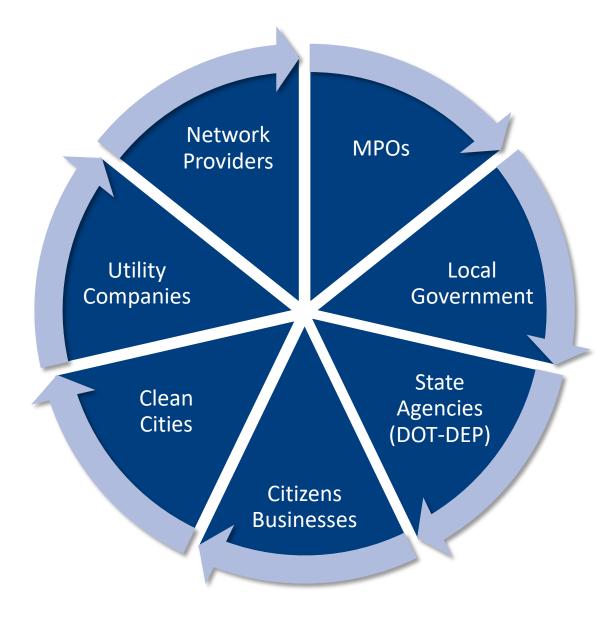
Project Management

Education and Outreach





IMPORTANCE OF COORDINATION





SELECT SITE AND ASSESS SITE

- Select an appropriate site for the charge stations. Ensure site meets NEVI requirements (ADA access, safety etc.,)
- Conduct site assessment. Use site/time readiness scoring criteria as a reference.
- Environmental Clearance. Conduct preliminary assessment for environmental clearance needs.
- * **Note:** Applicant will need to provide site location information and site readiness information as part of the application
- **** Note:** After the final selection process, PennDOT will work with the applicant and appropriate agencies to get environmental clearance.

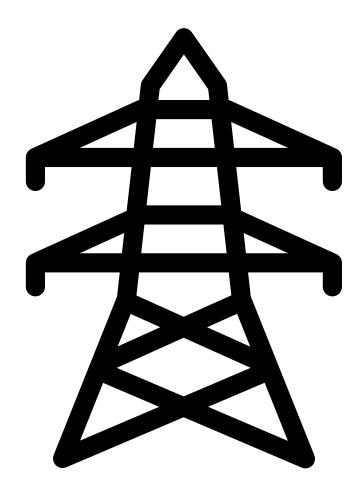
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COORDINATE WITH UTILITIES

□ Identify the utility servicing the site

- Reach out to <u>ra-pdevcorridors@pa.gov</u> if you have questions on the utilities servicing the site.
- Coordinate with the utilities
 - Identify the feasibility of providing (NEVI) required power at the site
 - Discuss cost and schedule implications
- * Note: Applicant will need to provide the utility contact information and cost/timeline for utility related items as part of the application





COORDINATE WITH UTILITIES

DEPARTMENT OF TRANSPORTATION DRAFT V.1	DEPARTMENT O DRAFT V.1
SITE APPLICANT INFORMATION (Site applicant to complete.)	Type: Primary Sen
Name of Company/Customer:	Proposed In-Service
Facility Owner's Name:	Number and size of
Address:	Requested voltages
City: State: Zip:	Service Capacity (ar
Contact Name:	
Contact Phone: Contact Email:	COST ESTIMATE
SITE INFORMATION - ELECTRICAL DISTRIBUTION SERVICE NEEDS (Site applicant to complete.)	DESCRIPTION
Address of Site:	High-level Enginee
Latitude/Longitude:	(This high-level co
Number of chargers anticipated: Power level of each charger (kW):	terminator pole, if a
Type of Service: New Service (No existing lines) Existing Service Lines Upgrade of Existing Service	
Provide aerial view of site with transformer location and termination point. Show nearest 3-phase source (if known):	
	Additional Enginee
	(These estimates i extension to custom new load.)
	Site Applicant const
	EDC construction re
[Insert aerial view here with proposed location of chargers]	Total Estimated Til
	Total Estimated Co
	Additional notes:

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DEPARTMENT OF TRANSPORTATION NEVI U	Itility Site Assessment Request Form			
Type: Primary Service Secondary Service				
Proposed In-Service Date:				
Number and size of conductors anticipated:				
Requested voltages (i.e., 3-phase 277/480V 4 wire):				
Service Capacity (amps): Los	ad Requested (kVA):			
COST ESTIMATE (Utility Company to complete.) DESCRIPTION TOTAL COST &				
DESCRIPTION	TIMELINE			
High-level Engineering & Construction Cost & Time Est (This high-level cost and time estimate includes Power terminator pole, if applicable, Service Lateral or conductor a	Transformer,			
Additional Engineering & Construction Costs/Time Esti	nates \$			
(These estimates include additional time and costs for extension to customers' location and upgrades required to a new load.)				
Site Applicant construction responsibilities for electric distrib	ution service \$			
EDC construction responsibilities for electric distribution ser	vice -\$			
Total Estimated Timeline for Customer:				
Total Estimated Cost to Customer: \$				

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* Final version of this form will be part of NOFO.

UTILITY INFORMATION

- Information will be available from the below utility partners on initial site assessment collaboration:
 - Duquesne Light
 - FirstEnergy
 - PPL Electric Utilities
 - PECO
 - PA Municipal Electric Association
 - Central Electric Cooperative
 - Citizens' Electric Company

Check our website <u>www.penndot.pa.gov/ev</u>, NEVI > How to Get Ready.

More information will be added in the future.

NOTE: NEXT SLIDES ON UTILITIES ADDED POST WEBINAR AS RESOURCE



DUQUESNE LIGHT & EV CHARGING

What we do

Aligned with DLC's mission to create a clean energy future for all, we empower all our customers to experience the benefits of electric mobility.

How we do it

We serve as a trusted partner, offering innovative products and services that optimize the use of our grid to advance the EV market.

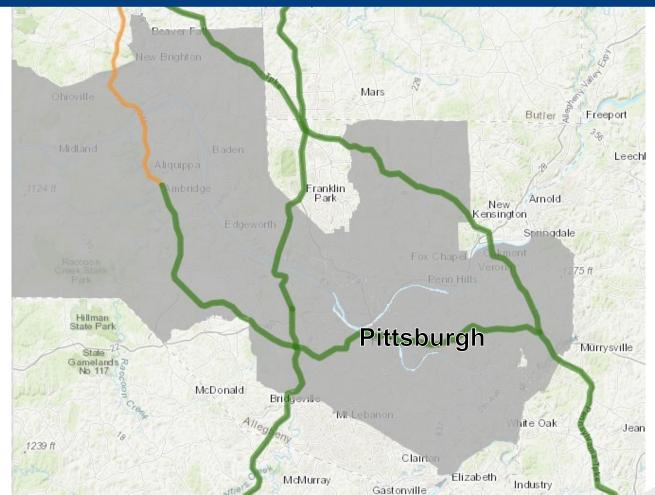
Let's work together

Contact ElectricVehicles@duqlight.com to:

- Submit an electric service request so we can assess the time and cost it will take to power your charging station project.
- Learn about DLC's Community Charging Program which offers incentives and assistance for commercial charging station installation.



DLC service territory NEVI Corridors



Learn more at duquesnelight.com/communitycharging



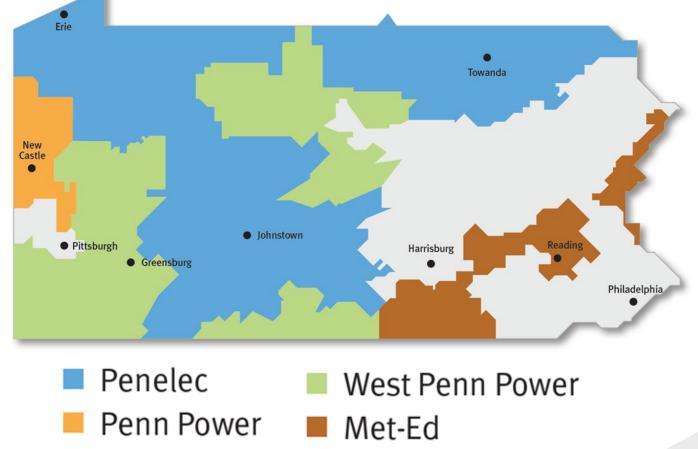
FIRSTENERGY - HIGHLIGHTS

Focused on Our Future

FirstEnergy

PENNSYLVANIA HIGHLIGHTS

- Our four operating companies serve more than 2.1 million customers within 32,400 square miles of Pennsylvania
- Approximately **3,700** employees in Pennsylvania
- Nearly **95,000** miles of transmission and distribution lines





FIRSTENERGY - UTILITY PRE-SCREEN REQUEST PROCESS



What the Customer Provides:

- Completed FirstEnergy PA NEVI Applicant Information form.
- Completed FirstEnergy PA NEVI Load Sheet

What FirstEnergy PA Utilities provide:

- High-level impact study of the Distribution Circuit for the requested Charging Station.
- Estimated cost of the project.
- A direct FE PA NEVI Application email address to communicate between the customers and the utility throughout the process.



FirstEnergy Pennsylvania NEVI – PA.NEVI@firstenergycorp.com



PECO – AN EXELON COMPANY

Fleet Electrification Roadmap

Initiation

- Research your charging and electrification needs
- Verify or establish your PECO account or meter number
- Work with your manufacturer or electrical contractor to prepare and submit a utility service application, site plan and equipment specifications

Planning

- PECO reviews service application and advises if utility infrastructure upgrades are needed
- Design Construction Consultant performs site visit and initial design of the utility equipment or upgrades needed
- Project timeline developed

Design

- PECO completes detailed design for electrical installation
- Simultaneous applications for permit approvals (PECO utility permits and underground markings; customer contractor works with local municipality)
- Customer completes installation of charging equipment and "behind the meter" infrastructure
- Scheduling and Construction for Utility Upgrades

Start Your Electrification Journey at www.peco.com/evroadmap

PECO - TYPICAL POWER REQUIREMENT TIMELINES

Power (MWs)	Equipment	Description	Timeline
125 kW	Switching/cap bank	Minimal on/off property work is needed to accommodate the capacity requirement	2-4 months
500 kW	Install new transformer or extend feeder	Minor on/off property work is needed to accommodate the capacity request	3-6 months
2 MW	New medium voltage feeder	New feeder extension is required to accommodate additional capacity	9-12 months
6 MW	Two new feeders (medium or high voltage)	Construct or extend multiple feeders to customer site	12-15 months
12.5 MW	Multiple new feeders (medium or high voltage)	Depending on load, may build or extend feeders to customer site	12-18 months
25 MW	Multiple new high voltage feeders	Load will likely warrant multiple high voltage feeders and potential substation work	24+ months

Please contact your PECO Large Customer Service representative that is noted on your invoice, or email our Green Power Connect Team <u>GPCTeam@peco.com</u> for more information if your organization doesn't have an LCS manager



Early engagement with PECO is critical to fleet electrification success!

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PECO – AN EXELON COMPANY

Navigating the Roadmap



Start Your Electrification Journey at www.peco.com/evroadmap

PECO – SERVICE & METER APPLICATION FOR EVS

- Electrical Contractor submits a Service and Meter application to PECO. Attach a site plan and Equipment Specification Sheet.
- PECO has a dedicated group of Design Construction Consultants that will work with your contractor to complete the service upgrade.
- Large Customer accounts are assigned an Account Manager who will be your point of contact throughout the process.

Start Your Electrification Journey at www.peco.com/evroadmap



PECO - APPLICATION

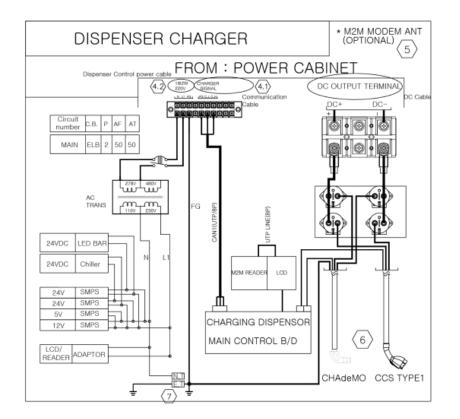
⇒PECO. PECO					M-24175 (M-24175 (front) Rev. 07/16			
An Exelon Company	4	Application for El	ectric Service & M	Neter					
ISTRUCTIONS:									
lease complete this request sult in a delay in processing		e PECO Regional Office	e (listed below) in the are	ea service is required	d. Incomplete in	formation ma			
Il work must comply with PE	CO Electric Ser	vice Requirements man	ual and be inspected by a	an approved inspect	on agency. (City	y of			
hiladelphia requests may be	e shared with Lic	enses & Inspections). N	Not all service voltages an	re available in all are	as. Before pur	chasing			
lectrical equipment or pro om the company.	ceeding with ar	y wiring, information	regarding service availa	ability and meter lo	cation should t	be obtained			
credit application and agree	ement must be c	ompleted if the custom	er has not had PECO s	ervice within the la	st 60 davs. The	company			
serves the right to cancel t									
IOTE: To initiate a 'make-sa ECO to remove electric or o				e request. If demolis	hing a building a	and need			
			SERVICES (1-80	0-454-4100)					
PHILADELPHIA COUNTY	DELAW	ARE, CHESTER &	BUCKS & MONTGOMER	Y NEW RESI	DENTIAL				
830 S. Schuylkill Ave.	YORK	COUNTIES	COUNTIES 400 Park Ave.	400 Park Av	CTION (All Countie	es)			
Philadelphia, PA 19146 Fax # (215) 731-2327		. Swedesford Rd. , PA 19312	Warminster, PA 18974	Warminster	PA 18974				
Email: PHL County	Fax # (6	310) 725-1416 DelChester	Fax # (215) 956-3240 Email: BucksMont	Fax # (215) Email: NRC					
	Email: L	DelGnester	"Lover Meton's served by DetChester Region	Lings. PPC	-				
CUSTOMER NAME		Tax ID # or SSN	TYPE OF REQUEST						
			New Service Temporary Service	Load Increase / Decr Upgrade / Changes ing Service Relocation	Reintroduct				
** ADDRESS TO BE SERVED		APARTMENT / LOT #				1 Call Notified)			
CITY, STATE		ZIP CODE	RES	Please include site p	COMMERC				
			Single House . Apartment	Modular Home		fice arehouse			
UTILITY POLE # *SUBDIVISI	ON / DEVELOPMEN	T TELE. #	Duplex Duplex	Town House	Restaurant Other Electric Vehicle Chargery	-			
			Area of Buildin			ALC:			
* If Applicable			Area of Buildin	ng Sq.	Ft.	WIDEE			
** Please use this address			Area of Buildin	ng Sq. TERISTICS:		WIRES 3			
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PECO

Installation Manual

Dispenser - 2/2



Installation Manual

Specifications

Specifications

The following table lists the specifications for the EV Charging Station.

Power Cabinet

I	tem	HPC 175K (1 set) (150 kW power config)	HPC 175K (2 sets) (350W power config)					
	Voltage	3-phase, 480)y/277 (4-wire)					
	Voltage Range	10 %						
AC Input	Frequency	50/60 Hz						
	Current (peak)	227 A						
	Power	173 kW	346 kW					
	Max. Voltage	DC 200 – 920	V					
DC Output	Max. Power	161 kW	322 kW					
Power	Factor	More than 0.	More than 0.99					
Efficiency (full load)		94.5 %						
Mfr recommended overcurrent protection		300 A						
Total Harmonic Distortion		3.9						
Operating Temperature		-30 °C - +50 °C (-22 °F - +122 °F)						
Humidity		95 %						
IP Rating		Nema, Type 3R, Rain Proof						
IK Rating		IK08						
Short Circuit Rating		65 kA (part number starting with QB)						
Altitude		3,000 m						
Power Cabinet Weight		882 lb (400kg)	1,764 lb (800kg)					
Power Cabinet Dimensions (W x D x H)		41.97 x 29.45 x 83.39 in (1,066 x 748 x 2,118 mm)	83.94 x 22.05 x 83.39 in (2,132x 748 x 2,118 mm)					



PPL ELECTRIC UTILITIES

Adding Electrical Load



Engage with us as soon as you're considering becoming an electric vehicle host site.



We'll determine the best supply method to provide safe and reliable power.



Process takes approximately 12 months.



PPL ELECTRIC UTILITIES - PROCESS

Feasibility Study Request Process

What the Customer Provides

- PPL Electric Grid or Lat/Long
- Desired in-service date
- Number of chargers
- Charger level
- Charger output (kW)

What PPL Electric Utilities Provides

- 10 business day turnaround with high-level details about the project
- Timeframe for completion of all upgrades
- Cost for completion of all upgrades

Submit requests to <u>PPLElectricEV@pplweb.com</u>



PA MUNICIPAL ELECTRIC ASSOCIATION

PMEA represents the 35 boroughs across the Commonwealth that deliver electric power to their residents and businesses.

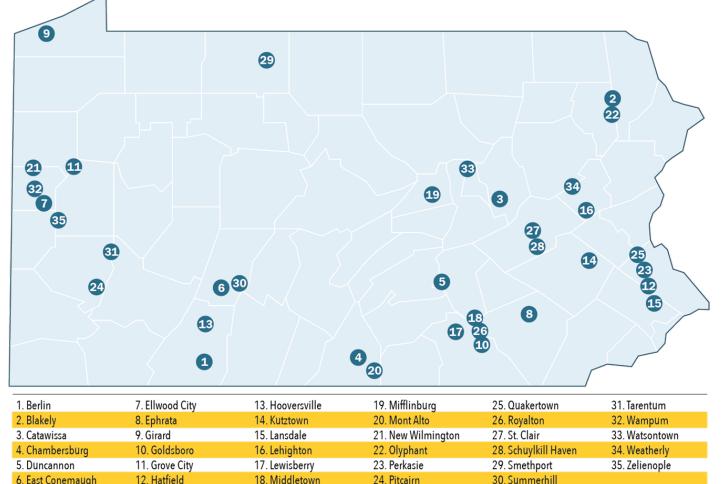
Contact: Diane Bosak,

Executive Director

717-489-2088

Email:

bosak@papublicpower.org www.papublicpower.org



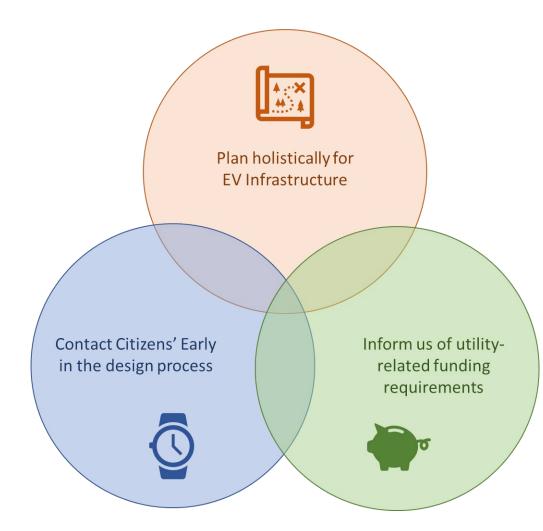


CENTRAL ELECTRIC COOPERATIVE

- Contact Central Electric's Commercial Accounts manager to request service:
 - Chris Panian, 800-521-0570 x2134, email: cpanian@central.coop
- Provide Detailed information about proposed EV charger:
 - Service Entrance Size
 - Size of load in kW
 - Requested Voltage
 - Estimated transformer size
 - Requested location
 - Account Number
 - Nearest Poll Number
- Central Electric will provide a quote for line extension charges and any system upgrades required. An Electric Service Agreement may be required.



CITIZENS' ELECTRIC COMPANY



Website: citizenselectric.com/safety-service/#ev Email: <u>operations@citizenselectric.com</u>

- Municipal/Regional Organizations: Share the big picture
 - Let us know the whole plan instead of one service at a time
 - Funding Requirements What utility information is required?
- All Installations:
 - Inform Citizens' of Level 2 or 3 Installations
 - Provide timely and complete information
- Service Applications:
 - Same path as Commercial/Industrial Service, for now...
 - Time is critical
 - Long lead-time materials
 - Substantial construction for remote locations

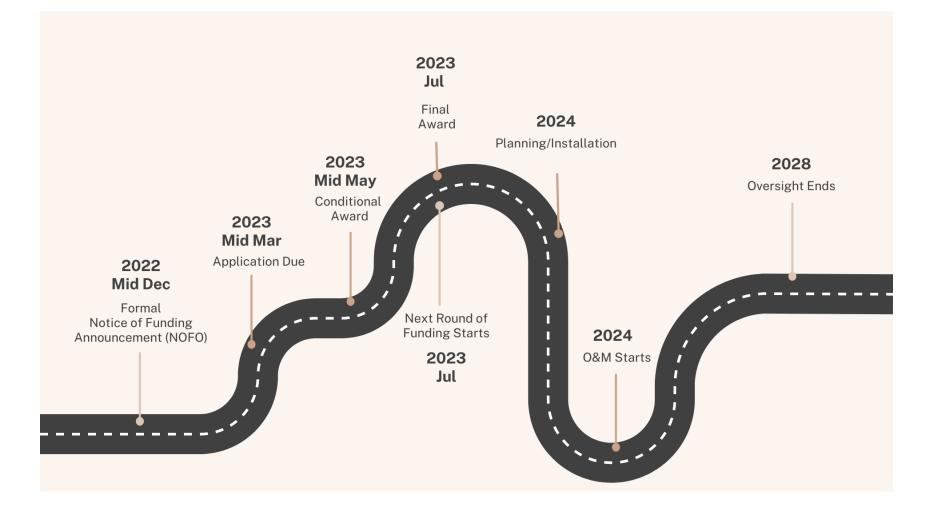


PENNDOT NEVI GRANT PROGRAM - NEXT STEPS

Natasha Fackler



ANTICIPATED TIMELINE



* 5 Year O&M starts once Installation is completed and approved for O&M.

* These dates are representative and are subject to change based on applicants' feedback. NOFO will identify specific dates.



FUTURE NEVI DISCRETIONARY PROGRAM



Discretionary Grant Program - **\$2.5 billion for all alternative fuels** (EV, compressed natural gas, hydrogen, etc.).

These funds focus on AFC development and community alternative fueling projects.

- **\$1.25 billion** is for designated AFCs while the other half is for community funding. Eligible entities include States, Local governments, Planning Agencies (MPOs/RPOs), Transit and Port Authorities, and Tribal governments.
- **\$1.25 billion** is designated for **Community fueling projects** must be on any public road or in other publicly accessible locations.

Priority will be given to projects in rural areas, low-to-moderate income neighborhoods, and communities with a low ratio of private parking spaces to households or a high ratio of multiunit dwellings to single family homes.



RANGE OF GRANTS & INCENTIVES AVAILABLE

						FY 2022 ¹ AMOUNT	Ľ <u></u> ≁		æ.	<i>B</i> B	<u>ک</u> الج		
	Lederal Tax Cr			FORMULA PROGRAMS									
Federal Tax Grants			National Highway Performance Program (NHPP)		\$28.4 B ²	<u>Ľ</u> ,							
				Surface Transportation E Program (STBG)	Block Grant	\$12.5 B ^{2,3}	<u> </u>			E Sta	, ₩		
				Congestion Mitigation & Improvement Program (Air Quality CMAQ)	\$2.5 B ²	<u> </u>				÷۲		
	DEP Grant	S		National Highway Freigh (NHFP)	nt Program	\$1.4 B ²				B A	₽		
			State Planning and Research (SPR)		\$983.3 M ⁴				E S				
				Metropolitan Planning (PL)		\$438.1 M ²				B			
			Carbon Reduction Program		am	\$1.2 B ^{2,5}	<u> </u>			E S	کالڈ The		
	DOT Grants	[National Electric Vehicle Formula Program	(NEVI)	\$685 M ^{2,5,6}	<u>Ľ</u> #			E S]	
				DISCRETIONARY PROGRAMS									-
			Rebuilding American Infrastructure with Sustainability and Equity (RAISE) (formerly known as BUILD)		inability erly	\$1.5 B	но +						
	Utility Programs			Infrastructure for Rebuild (INFRA) Grant Program	ding America	\$1.64 B ^{2,7}	<u> </u>			E C			
				Advanced Transportatio Technologies and Innov Mobility Deployment	n and ative	\$60 M²	<u> </u>						
				Discretionary Grant Prog Charging and Fueling In	ram for frastructure	\$300 M ^{2,5}	<u>1</u> 7			E Sta			
				Rural Surface Transporta	tion Grant	\$300 M ^{2,5}		44		afec.			
₩ 						2							
Construction and installation of EV charging infrastructure including parking facilities and utilities.	Workforce development and training related to EV infrastructure.	EV acquisitions and engine conversions - cars or trucks.	Planning for EV charging infrastructure and related projects.		Construction and installation of EV charging infrastructure to support operational, resiliency, national energy security, environmental, and community goals for freight transportation.			jy ∣i ¢y c	Installation of EV charging infrastructure as part of transit capital projects eligible under chapter 53 of title 49, United States Code.				

DOT Funding and Financing Programs with EV Eligibilities*

REFERENCES & RESOURCES

Added Post-webinar for clarity/assistance



NEVI AFC QUALIFYING CHARGERS

DC Fast Charging

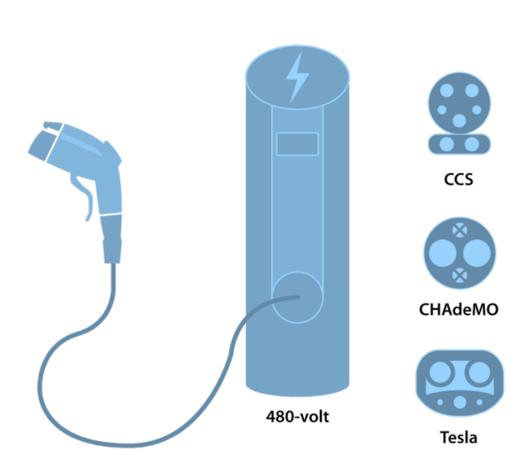
Public, non-proprietary

4 ports

CCS Connectors

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

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



PRIORITY LOCATIONS

PRIORITY I:

Selected via gap analysis to most likely meet AFC buildout

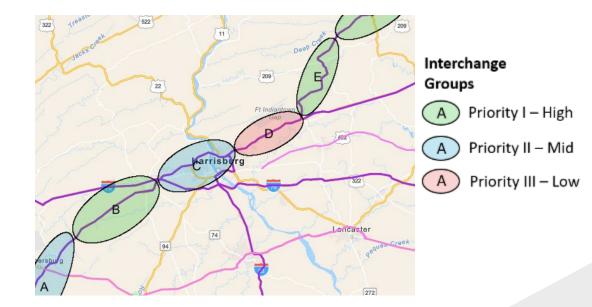
PRIORITY II:

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

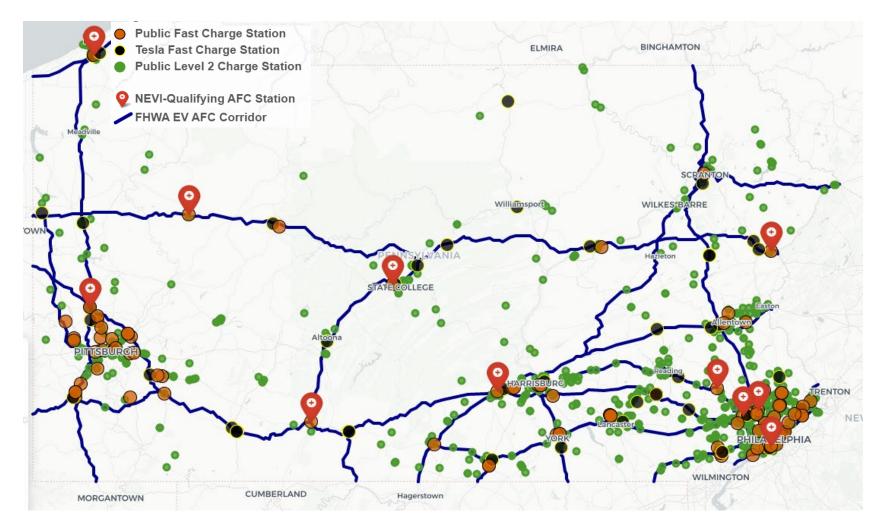
PRIORITY III:

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.



PUBLIC CHARGING STATIONS



- Websites
- Apps
- Trip Planners
- Resources:
 - 511PA
 - Penndot.pa.gov/EV
 - Alternative Fuel Data Center (AFDC)
 - PlugShare
 - ChargeHub
 - In-car support

Over 2,800 public plugs at over 1,100 locations

Map available at: National Electric Vehicle Infrastructure (NEVI) Formula Program (pa.gov)

RESOURCES

- <u>Electric Vehicles and Alternative Fuels (pa.gov)</u>
- National Electric Vehicle Infrastructure (NEVI) Formula Program (pa.gov)
- EV Mobility Plan (pa.gov)
- EV Equity Principles_02072022.pdf (pa.gov)
- Interactive EV Charging Location Map PennDOT
- <u>90-Day NEVI Federal Guidance</u>
- FHWA NEVI Guidance FAQ
- Federal Register NEVI Proposed Rulemaking
- Driveelectric.gov

PENNDOT NEVI GRANT PROGRAM - Q&A

Natasha Fackler



CONTACT INFORMATION

PENNDOT EV TEAM: RA-PDEVCORRIDORS@PA.GOV

Provide your feedback about this session!

Scan the QR code here before you go!



