



pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION



Energy Programs Office

Electric Vehicle Bootcamp

Harrisburg University
June 20, 2023

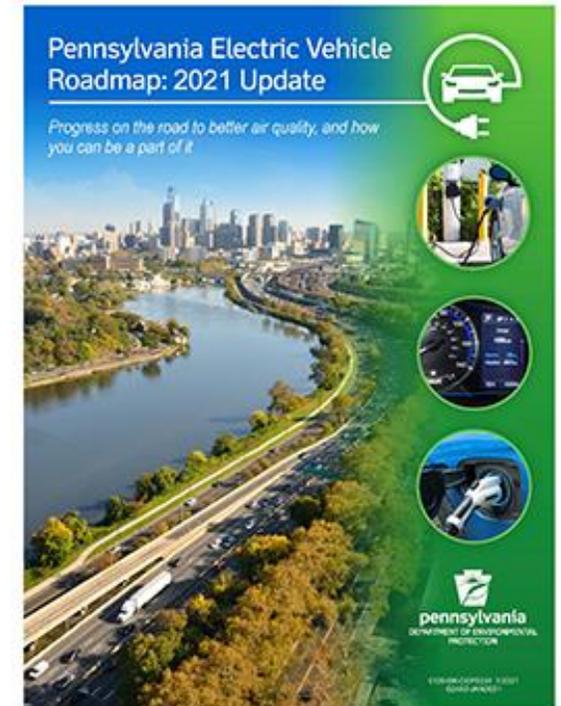
Josh Shapiro, Governor

Richard Negrin, Acting Secretary

DEP Planning Support for EVs

Drive Electric PA Coalition

- Formed in 2016
- DEP Publishes 1st EV Roadmap in 2019
 - Updated in 2021
- EV Roadmap 2.0 (2023/24)
 - “ZEV” Roadmap
 - Updated with current data
 - Evaluate expansion of medium and heavy duty EVs
 - Opportunities and strategies for the use of hydrogen



Alternative Fuels Incentive Grant Program (AFIG)

- Vehicle Purchase
- Fleet Refueling Infrastructure
- Innovative Technology

Driving PA Forward

- VW Settlement Funds - \$118M (+ ~ \$6.8M interest, refundable court fees etc.)
 - Utilized the full 15% carve out
 - \$17.7 Million for Light Duty EVSE
 - Class 8 Truck and Bus (Elec. w/ refueling)
 - Class 4-7 Trucks and Busses (rebate)
 - \$12.7 Medium and Heavy-Duty Fleet Pilot Grant.

Alternative Fuels Incentive Grant

The Alternative Fuels Incentive Grant program is a competitive grant program offering approximately \$3 million per year in funding to help transition to cleaner fuel transportation.

Vehicle Purchase Projects:

- Covers the incremental cost of purchase of new alternative fuel vehicles. (Elec., NG, RNG, Propane, Hydrogen etc.)

Alternative Fuel Refueling Infrastructure Projects:

- Covers the cost to purchase and install refueling equipment servicing light and medium duty alternative fuel vehicle fleets.

AFIG Priorities

Priorities for funding for AFIG 2023 include/not limited to:

- Zero emission vehicle (ZEV) projects
- Medium-Duty fleet refueling infrastructure projects (DPAF L2 for light duty)
- Projects located in or predominantly serving environmental justice (EJ) areas
 - Counties, townships, municipalities, or municipal authorities
 - Public school districts including brick and mortar charter schools
 - Organizations registered as a 501(c)3 that provide services to seniors, low-income individuals and families, individuals with disabilities, veterans, or medical services of any type
 - Organizations who are county/local government supported or contracted to provide services to seniors, low-income individuals and families, individuals with disabilities, veterans, or medical services of any type

AFIG Vehicle Purchase Projects (competitive)

- AFIG funds the incremental cost to purchase new alternative fuel vehicles
- Guidelines contain a chart with vehicle classes and fuel types which identify percent of incremental cost eligible and maximum award per vehicle
 - Additional limitations based on percentage of your current existing fleet converted to alternative fuels
- No GVWR limits on eligible vehicles
- No scrappage requirement (DPAF has scrappage)
- Applications can be retroactive back to Jan. 1 of program year

▶ AFIG Refueling Infrastructure Projects (competitive)

- Must service an existing fleet of alternative fuel vehicles by the end of the period of performance.
 - 24-month period of performance.
 - A fleet of vehicles must be a group of 10 or more vehicles comprised of buses and trucks with a gross vehicle weight of between 10,000 and 26,000 lbs. (Class 3 through Class 6 vehicles) owned by a single entity.
- Must be for either new facilities or new equipment expanding existing facilities; replacement of existing alternative fuel infrastructure is not eligible
- A single application under this category may not exceed \$300K

Driving PA Forward Funding

Interim Report Nov. 2022 [DPAF InterimReport.pdf \(state.pa.us\)](#)

- Driving PA Forward program has issued 79 grants and 995 rebates, awarding over \$70.9 million, as of the end of the 2021 fiscal year on June 30, 2022
- On-Road Fleet Projects (types):
 - Class 8 Local Freight Trucks and Port Drayage Trucks;
 - Class 4-8 School Buses, Shuttle Buses, or Transit Buses; and
 - Class 4-7 Local Freight Trucks
- Grants: Truck and Bus Fleet – \$12.4 invested, \$3.7 remaining
- Rebates: Trucks and Buses - \$25.1 invested, \$4.8 remaining
 - Emissions (estimated) 140 tons NOx, 12 tons PM, 8,000 Tons CO2

Driving PA Forward Funding (15%)

DC Fast Charging

- Install DC fast charging or hydrogen fueling stations along corridors, at destinations, or in communities
- Competitive Awards
 - 32 projects were awarded funds
 - 12 project installations have been completed (so far)
 - Expected results at completion
 - 90 DC fast charging plugs installed across the Commonwealth.

Driving PA Forward Funding (15%)

Level 2 Rebate:

- First come, first served - voucher system
- Over 1,975 plugs installed (so far)
 - 500+ in process
- Locations
 - Public spaces
 - Workplaces (employee or fleet)
 - Multi-unit dwellings
 - Balance between places w/o charging and existing
 - Need now vs. future
- Approximately \$500K uncommitted
- Waitlist process to be implemented Summer/Fall

Driving PA Forward Funding

Medium and Heavy Duty Zero Emission Fleet Demonstrations

Projects must include the replacement of either 20 percent of the applicant's fleet or at least five diesel-powered, on-road MHD trucks with ZEVs (includes Hydrogen) (Program in accordance with section 5.2 of the Mitigation Trust)

- Replace aging fleets of diesel-powered medium and heavy-duty (MHD) local freight trucks with new zero-emission MHD local freight trucks
- Commit to provide truck performance, cost, and maintenance data quarterly for two full years for each truck.
- Develop real-world case studies on all aspects of EV truck performance
 - DEP has partnered with the Larson Transportation Institute at Penn State University who will receive and analyze the data and publish the case studies.

Driving PA Forward Funding

Medium and Heavy Duty Zero Emission Fleet Demonstrations

- Top priority given to projects that serve and operate predominately within Environmental Justice communities.
- DEP conducted 30+ pre application meetings (Feb.)
 - Learn about projects, give feedback, confirm rules and requirements were/are understood
- DEP received 18 applications (Mar. 31st) from companies and municipalities requesting a total of \$44.9M.
- We anticipate awarding 4-6 projects later this summer.



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Energy Programs Office

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