



Alternative Fuels Incentive Act Fund

2021-22 Annual Report to the
Pennsylvania Legislature



COVER PHOTOS

DEP grant-funded alternative fuel transportation projects at:

Top: College Township, Centre County

Middle: Lancaster County Solid Waste Management Authority, Lancaster

Bottom: Wawa, Philadelphia

Executive Summary

This Alternative Fuels Incentive Act Program Annual Report was prepared by The Department of Environmental Protection (DEP) for submission to the Environmental Resources and Energy Committees of the Senate and House of Representatives of the Pennsylvania General Assembly, respectively, in accordance with state law. Pennsylvania is continuing its progress toward growing a market for alternative fuels, such as natural gas, propane, electricity, and biofuels, through the development of alternative fuel fleet vehicles and alternative fuel storage and refueling systems. This report summarizes the activities involved in the administration of the Alternative Fuels Incentive Grant (AFIG) and Alternative Fuel Vehicle (AFV) programs, including the number of grants awarded, rebates given, and other expenditures and activities undertaken pursuant to the Alternative Fuels Incentive Act. This report also details the awards granted in the 2021-2022 solicitation cycle. A listing of rebate awards, notable completed grant projects, and program and grant project expenditures during the 2021 fiscal year (FY) (July 1, 2021, to June 30, 2022) are included in this report.

Alternative Fuels Incentive Grant Program Annual Report

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Introduction

DEP administers a grant and rebate program to promote the use of alternative fuels in Pennsylvania under the Alternative Fuels Incentive Act (Act of Nov. 29, 2004, P.L. 1376, No. 178). This program was originally created in 1992 and administered by the Pennsylvania Energy Office through Chapter 72 of the Vehicle Code. The AFIG Program was expanded in 2004 and 2008. In addition, an AFV Rebate Program was created.

In the 2021-2022 program year (PY), the AFIG program successfully oversaw the completion of 21 projects, which included the deployment of 225 AFVs and two completed alternative fuel refueling stations, which are estimated to displace 1,152,851 gasoline gallon equivalents per year. During PY 2021-2022, over \$3 million was expended on grant projects. DEP continues to administer grant awards and is currently managing 42 projects, totaling \$6 million in active grant contracts, as well as executing grant agreements for 18 projects, totaling an additional \$2.8 million in grant awards. DEP also continues to operate the AFV Rebate Program, which issued 1,312 rebates to Pennsylvania residents, totaling \$885,500, to support the purchase or lease of AFVs. The AFV Rebate Program, redesigned for PY 2022-2023, will have \$2 million in funds allocated for incentivizing Pennsylvania residents to purchase AFVs. These funds will provide at least 1,000 rebates at the \$2,000 level for working class Pennsylvanian residents.

Program Overview

The AFIG and AFV Rebate Programs have helped to decrease Pennsylvania's dependence on imported oil and improve air quality by reducing vehicle emissions of carbon monoxide, particulate matter, Volatile Organic Compounds (VOCs), and oxides of nitrogen (the pollutants that contribute to the formation of ground-level ozone), as well as carbon dioxide (CO₂), a principal greenhouse gas (GHG).

The AFIG Program has fostered economic development in Pennsylvania by encouraging the transfer and commercialization of innovative energy technologies and the use of the commonwealth's indigenous fuels. The fuels promoted by the program include ethanol, biodiesel, compressed and liquefied natural gas (CNG and LNG), hydrogen, hythane (a combination of compressed natural gas and hydrogen), liquefied petroleum or propane gas (LPG), electricity, and fuels derived from coal and biomass.

The AFIG Program supports DEP's objectives of reducing emissions from mobile sources to improve air quality and stimulating the use of domestically produced fuels. DEP has encouraged the development of partnerships among Pennsylvania businesses, alternative fuel providers, and key local, state, and federal government agencies to accomplish the objectives of the Alternative Fuels Incentive Act. For example, since 2013, the AFIG competitive grant program has reimbursed over 170 grantees for the purchase or conversion of over 1,700 AFVs, including electric, propane, and CNG, totaling over \$18.5 million in program funds disbursed. These vehicles are estimated to be displacing over 7.5 million gasoline gallon equivalents (GGE) per year. In addition, since 2011, the program has provided a total of \$15 million in rebate funds to over 10,000 Pennsylvania residents to purchase AFVs.

The program has also contributed to the landscape of alternative fuel refueling build-out in Pennsylvania. The [Alternative Fuels Map](#) shows the locations of electric vehicle charging infrastructure and compressed natural gas, liquified natural gas, and E85 (gasoline containing 85% ethanol) refueling stations in Pennsylvania that were supported by DEP (including AFIG Program funding), Commonwealth Finance Authority, U.S. Department of Agriculture, and private funds.

The incentives and programs currently offered by the AFIG Program include:

- The AFIG Program offers approximately \$3 million in competitive grants per year for school districts, local governments, nonprofit entities, and registered Pennsylvania companies to purchase and/or retrofit AFVs, construct AFV infrastructure, and complete innovative technology research and demonstration projects related to alternative transportation fuel, fueling systems, and vehicles;
- The AFV Rebate Program provides cash rebates to Pennsylvania residents to purchase or lease new and pre-owned plug-in hybrid, plug-in electric, natural gas, propane, and hydrogen fuel cell vehicles.

The Alternative Fuels Incentive Act requires DEP to establish a formula and method to award AFIG Program grants. DEP is also required to establish a method to prioritize the grant applications that achieve identified goals and criteria, including the following:

1. The improvement of Pennsylvania's air quality;
2. The fulfillment of Pennsylvania's responsibilities under the Clean Air Act (69 Stat. 322, 42 U.S.C. § 7401 et seq.);
3. The protection of Pennsylvania's natural environment, including land, water and wildlife;
4. The advancement of economic development in Pennsylvania and the utilization of the state's indigenous resources;
5. The reduction of Pennsylvania's dependence on imported crude oil and other petroleum products;
6. The most cost-effective use of private and public funding; and
7. The transfer and commercialization of innovative alternative energy technologies.

The AFIG Program is funded with an annual allocation from the General Fund equal to 0.25 mills of the utilities' gross receipts tax, which has ranged between \$5 and \$6 million dollars annually. Up to 1.5 percent of the funds may be used to administer the provisions of the Act, and up to 0.5 percent may be used for program education and public outreach. The unspent portion of the annual allocation does not lapse and can be used for projects on a continuing basis.

The Alternative Fuels Incentive Act provides incentive grants that pay a percentage of each applicant's eligible project costs. The remaining project costs are paid by the grantee from other sources.

The following limitations may apply to the AFIG Program competitive solicitation:

1. A single funding recipient can receive no more than 10 percent of the funds available in any individual funding year.
2. The total dollar amount of awards to recipients operating within and including any county shall not exceed 15 percent of the funds available in any individual funding year.
3. If the total funding to be awarded in a funding year is less than the amount available for that year, then DEP may increase the established 10 percent and the 15 percent funding levels in (1) and (2) above, not to exceed 40 percent of the fund.
4. DEP reserves the right to not award any additional funds to applicants that have failed to complete previous projects funded by the AFIG Program.
5. Applicants who have received grants and completed projects through the AFIG Program but have failed to submit the proper reporting forms, may not be considered for additional funding.

2021-2022 Program Year Review

The following is a report on programs which were available during the period of this report, July 1, 2021, through June 30, 2022. For additional details on the projects funded during PY 2021-2022, please refer to the Appendix.

Alternative Fuels Incentive Grant Solicitation 2021

The 2021 AFIG Program began accepting applications through the Department of Community and Economic Development's (DCED) Electronic Single Application (ESA) system on July 2, 2021. The program accepted applications in two submission periods ending August 27, 2021, and December 17, 2021. Award Summaries for the program are detailed below. The AFIG Program was open to applications for projects involving the purchase and/or conversion of AFVs, projects resulting in the installation of alternative fuel refueling infrastructure, and projects that promote innovative alternative fuel technology. After the submission period, AFIG Program staff evaluated all applications received to determine grant awards.

Significant changes to the program guidelines for the 2021 solicitation included:

- No leased vehicles were eligible.
- Non-profits, including schools and local government entities, could apply jointly.

The program guidelines emphasized submission of project applications which included these key priorities:

- Businesses whose headquarters or principal place of business are located in Pennsylvania.
- Zero emission vehicles.
- Renewable natural gas vehicle and infrastructure projects.

- Projects located in or predominantly serving Environmental Justice (EJ) areas (<https://www.dep.pa.gov/PublicParticipation/OfficeofEnvironmentalJustice/Pages/PA-Environmental-Justice-Areas.aspx>).
- Applicants that are minority, veteran, or woman-owned businesses.
- Publicly accessible alternative fuel refueling infrastructure and fleet charging equipment projects.

Alternative Fuels Incentive Grant 2021 First Submission Period Awards Summary

The first program submission period ended on August 27, 2021, with a total of 31 applications submitted, resulting in a total grant fund request of \$4,829,100. 18 applications were submitted in the Vehicle Retrofit and/or Purchase category, eight applications were submitted in Refueling Infrastructure, and five applications were submitted in the Innovative Technology category. After evaluation by DEP staff, 18 projects were selected, totaling \$2,911,791 in grant funds awarded. The recommended projects included thirteen Vehicle Retrofit and/or Purchase projects, four Refueling Infrastructure projects, and one Innovative Technology project. Two of the Vehicle Purchase projects later returned the awarded grant funding, as they were unable to complete their projects.

Vehicle Retrofit/Purchase Projects

- Total Number of Applications: **18**
- Number of Awarded Projects: **13**
- Total Grant Request: **\$2,576,123**
- Amount of Awarded Funding: **\$1,757,749**
- Total Number of Vehicles Applied For: **109**
- Total Number of Awarded Vehicles: **87**
- Total Estimated Gasoline Gallon Equivalents saved per year: **262,798 (Awards)**
- New Fueling Stations Supported: **13**
- Existing Fueling Stations Supported: **9**

Refueling Infrastructure Projects

- Total Number of Applications: **8**
 - Fleet Refueling Applications: **2**
 - Workplace or Home-based Refueling Applications: **4**
 - Public Refueling Applications: **2**
- Number of Awarded Projects: **4**
- Total Grant Request: **\$1,098,797**
- Amount of Awarded Funding: **\$554,042**

Innovative Technology Projects

- Total Number of Applications: **5**
- Number of Recommended Projects: **1**
- Total Grant Request: **\$1,154,180**
- Amount of Awarded Funding: **\$600,000**

Alternative Fuels Incentive Grant 2021 Second Submission Period Awards Summary

The second program submission period ended on December 17, 2021, with a total of 45 applications submitted, resulting in a total grant fund request of \$8.3 million. Thirty applications were submitted in the Vehicle Retrofit and/or Purchase category, 13 applications were submitted in Refueling Infrastructure and two applications were submitted in the Innovative Technology category. After evaluation by DEP staff, 15 projects were selected, totaling \$2,191,777 in grant funds awarded. The recommended projects included 12 Vehicle Retrofit and/or Purchase projects and three Refueling Infrastructure projects.

Vehicle Retrofit/Purchase Projects

- Total Number of Applications: **30**
- Number of Awarded Projects: **12**
- Total Grant Request: **\$5,063,435**
- Amount of Awarded Funding: **\$1,546,135**
- Total Number of Vehicles Applied For: **218**
- Total Number of Awarded Vehicles: **129**
- Total Estimated Gasoline Gallon Equivalents saved per year: **425,037 (Awards)**
- New Fueling Stations Supported: **6**
- Existing Fueling Stations Supported: **8**

Refueling Infrastructure Projects

- Total Number of Applications: **13**
- Fleet Refueling Applications: **6**
- Workplace or Home-based Refueling Applications: **3**
- Public Refueling Applications: **4**
- Number of Awarded Projects: **3**
- Total Grant Request: **\$2,694,232**
- Amount of Awarded Funding: **\$645,642**

Innovative Technology Projects

- Total Number of Applications: **2**
- Number of Awarded Projects: **0**
- Total Grant Request: **\$596,510**
- Amount of Awarded Funding: **\$0**

Alternative Fuels Incentive Grant Solicitation 2022

The 2022 AFIG Grant Solicitation began accepting applications through the DCED's ESA system on June 24, 2022. Priorities for the 2022 grant solicitation included:

- Businesses whose headquarters or principal place of business are located in Pennsylvania.
- Zero emission vehicle (ZEV) projects.
- Medium-duty and light-duty fleet refueling infrastructure projects.
- Renewable natural gas (RNG) vehicle and infrastructure projects.
- Projects located in or predominantly serving EJ areas
(<https://www.dep.pa.gov/PublicParticipation/OfficeofEnvironmentalJustice/Pages/PA-Environmental-Justice-Areas.aspx>).

- Applicants that are minority, veteran, or woman-owned businesses.
- DEP will award a minimum 20 percent of available AFIG funding for the PY to the following entities, dependent upon applications received:
 - Counties, townships, municipalities, or municipal authorities.
 - Public school districts, including brick and mortar charter schools.
 - Organizations registered as a 501(c)(3) nonprofits that provide services to seniors, low-income individuals and families, individuals with disabilities, veterans, or medical services of any type.
 - Businesses either registered with the commonwealth as a Small Diverse Business or who are registered with one of the Pennsylvania Department of General Services accepted approved third-party certifications as identified on the website: (<https://www.dgs.pa.gov/Small%20Diverse%20Business%20Program/Small-Diverse-Business-Verification/Pages/default.aspx>).
 - Organizations that 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.

The changes made to the AFIG Program for 2022 include:

For vehicle projects, applicants who previously converted a portion of their existing Pennsylvania fleet to alternative fuels may request the following maximum grant award per vehicle:

- If 1-25 percent of the applicant's current existing fleet is converted to alternative fuels, then they may request up to 75 percent of the maximum award per vehicle.
- If 26-50 percent of the applicant's current existing fleet is converted to alternative fuels, then they may request up to 50 percent of the maximum award per vehicle.
- If 51-75 percent of the applicant's current existing fleet is converted to alternative fuels, then they may request up to 25 percent of the maximum award per vehicle.
- If 75 percent or greater of the applicant's current or existing fleet is converted to alternative fuels, then they may request up to 10 percent of the maximum award per vehicle.

For the purposes of this solicitation, an existing Pennsylvania fleet is defined as the total number of Class 1-2 or Class 3 and above vehicles at all of the applicant's primary and subsidiary locations within the commonwealth.

For refueling infrastructure, the AFIG Program focuses on projects that service medium-duty fleets of class 3-6 vehicles, as well as light-duty fleets of class 1-2 vehicles.

If a project is located within one roadway mile of a Federal Highway Administration Designated Alternative Fuel Corridor, it will not be considered for AFIG Program funding.

These changes to the refueling infrastructure portion of the AFIG Program are in response to the upcoming National Electric Vehicle Infrastructure funding program created by the Infrastructure Investment and Jobs Act and administered by the Pennsylvania Department of Transportation (PennDOT). This program will initially focus on public recharging infrastructure located within one roadway mile of a designated Alternative Fuel Corridor and does not address infrastructure for vehicle fleets.

Awards granted during this application period will be summarized in the 2022-2023 annual report.

Pennsylvania FAST Act Alternative Fuel Corridor Infrastructure Program

The Pennsylvania Fixing America's Surface Transportation (FAST) Act Alternative Fuel Corridor Infrastructure Program was a special solicitation under the AFIG Program from 2017 to 2019 that provided up to a 50 percent reimbursement grant to install public refueling infrastructure along select highway corridors in Pennsylvania. Eligible corridors were designated by the Federal Highway Administration in the FAST Act (Pub. L. No. 114-94) as alternative fuel corridors which were "Signage Ready" or "Signage Pending." These corridors included the following specific sections of interstates located in Pennsylvania: I-76, I-276, I-376, I-476, I-70, I-79, I-90, I-95, I-80, I-78, I-81, I-83, I-84, and US-30.

Grants of up to \$500,000 were made available to municipal authorities, political subdivisions, non-profit entities, corporations, and limited liability companies or partnerships incorporated or registered in the commonwealth to install public-use electric, hydrogen, propane, and CNG refueling infrastructure. The program required that infrastructure be publicly accessible at all times, incorporate roadway signage compliant with the FAST Act, offer an open and common payment platform, feature standardized nozzles and connectors, and be co-located with consumer amenities. Project infrastructure was required to be designed to meet five-year future projections of anticipated usage for the public at the proposed public stations. All projects were required to be sited within approximately five roadway miles of the eligible corridor segment.

In the three program rounds, a total of nine projects were awarded for a total award amount of \$1,454,001. There are currently eight open projects from these awards to three grantees, Giant Eagle, American Natural, and U-Go Stations, Inc. All three grantees are using the grant funding for the installation of DC Fast charging equipment at existing convenience plazas. The projects have continued to see delays due to COVID-19, as both Giant Eagle and American Natural had seen a decrease in revenue that was earmarked toward the projects and are now dealing with vendor supply chain issues. The three grantees are now working on site preparation and purchase of the charging equipment with installation to come later in 2022 or early 2023.

Alternative Fuels Incentive Grant 2021-2022 Project Summary

Between July 1, 2021, and June 30, 2022, grantees successfully completed 21 AFIG projects. These grants totaled \$4,263,257 in awards from prior years. The completed projects resulted in the purchase or conversion of 225 AFVs and two completed new alternative fuel refueling stations, which are estimated to displace 1,152,851 GGE per year. The projects completed in 2021-2022 are as follows:

Project Name	Grantee	Project Type	Total Amount Reimbursed
3M Transport - AFIG 2019	3M Transport, LLC	Vehicle Purchase	\$14,550
Albright College Electric Vehicle Program	Albright College	Vehicle Purchase	\$27,305
Allegheny Electric Vehicle Fleet	Allegheny County	Vehicle Purchase	\$30,000
Alternative Fuel Vehicles for Public Transportation	Crawford Area Transportation Authority	Vehicle Purchase	\$290,000
Derry School District Propane School Bus Conversion Program	Derry Township School District	Vehicle Purchase	\$34,000
Ride the Green Bus at Greater Latrobe School District	DMJ Transportation	Vehicle Purchase	\$300,000
DLC Fleet AFIG Grant	Duquesne Light Company	Vehicle Purchase	\$20,000
Expanding CNG in Southcentral PA	Lancaster County Solid Waste Management Authority	Vehicle Purchase	\$240,000
Non-Pipeline RNG Virtual Transport System	Lego V, LP	Innovative Technology	\$352,800
Lower Merion CNG School Bus Project 2021	Lower Merion School District	Vehicle Purchase	\$289,590
Noble Environmental CNG Garbage Trucks – Westmoreland County	Noble Environmental	Vehicle Purchase	\$300,000
Second Avenue EV Charging Stations	City of Pittsburgh	Refueling Infrastructure	\$135,160
Radnor Township School District Propane Bus Replacement Project	Radnor Township School District	Vehicle Purchase	\$42,500
New CNG Fueled Waste Collection Vehicle Purchase	Tri-County Industries, Inc.	Vehicle Purchase	\$300,000

Project Name	Grantee	Project Type	Total Amount Reimbursed
Alternative Fuels – Propane Project	Tri County Transportation, Inc.	Vehicle Purchase	\$300,000
UPS CNG Delivery Truck Project – New Stanton	United Parcel Service	Vehicle Purchase	\$300,000
UPS CNG Delivery Truck Project – Willow Grove	United Parcel Service	Vehicle Purchase	\$300,000
UPS CNG Vehicles Horsham	United Parcel Service	Vehicle Purchase	\$300,000
UPS CNG Vehicles New Stanton	United Parcel Service	Vehicle Purchase	\$300,000
WM Pennsylvania RNG Vehicle Deployment Project	Waste Management of Pennsylvania, Inc.	Vehicle Purchase	\$200,000
Wilson School District Propane Infrastructure Initiative	Wilson School District	Refueling Infrastructure	\$187,352

Alternative Fuels Incentive Grant Program Recent Success Stories

City of Pittsburgh – Allegheny County: In PY 2021-2022, the City of Pittsburgh (City) completed the Second Avenue EV Charging Facility, which consists of 15 dual-hose Level 2 chargers, with the capability to charge up to 30 city fleet vehicles simultaneously. In October 2019, the City was awarded \$135,160 in AFIG Program funding to support the procurement and installation of eight dual-hose chargers (16 total plugs). During the design phase of project development, the impacts of COVID-19 severely reduced revenues for the Pittsburgh Parking Authority, which was planned to be used to contribute to the match requirement of the grant award. With the ability to complete the project in jeopardy due to the unexpected lack of availability in capital funding, the City leveraged funding from the Pennsylvania Energy Development Authority (PEDA) through the COVID Restart Grant Program and was awarded an additional \$189,403 to complete the project. With funding secured, the City was able to partner with Duquesne Light Company, which provided seven additional dual-hose chargers (14 additional plugs) to be installed simultaneously. The City estimates that this project will help displace 5,500 gallons of gasoline per year, which equates to an estimated GHG reduction of 48.9 metric tons CO₂, as well as provide better cost certainty in volatile energy markets. This project also provides the foundation for the City to expand its electric vehicle (EV) fleet. At the time of project completion, the City's fleet consisted of 26 EVs, primarily used by the Permits, Licenses, and Inspections (PLI) Division. A separate \$160,000 award to the City during the 2020 AFIG Program provided the \$7,500 in incremental costs for eight of the PLI EVs. The remaining funding from that award will be used to procure an electric bucket truck for the Forestry Division. The City is also leveraging additional funding sources, such as the U.S. Environmental Protection Agency's (EPA) Targeted Airshed Grants Program to continue the conversion and expansion of their fleet to EVs.



Lego V LLP – Butler County: In PY 2021-2022, Lego V, LLP (a Vogel Holding Company) completed a Non-Pipeline Renewable Compressed Natural Gas (RCNG) Virtual Transportation System Project. This \$745,357 project was partially funded by a 2018 AFIG Program Innovative Technology award of \$352,800. Through this project, Lego V established an enhanced modular virtual pipeline transportation that uses innovative and enhanced technologies of metering, system controls of temperature and pressure, and data management to fill over the road modular transport trailer units with RCNG and offload the gas more efficiently and cost effectively than previous methods. These modifications to temperature and pressure control, as well as enhanced metering, allow for more RCNG to be filled at one site and discharged at another location per trip compared to traditional virtual pipeline solutions. Early operational data has indicated that Lego V has been able to increase the amount of RCNG delivered per trip from 650 GGE to 950 GGE, allowing for a reduction in the number of trips required to serve non-pipeline connected natural gas filling facilities, saving fuel and labor costs. Lego V is currently using this technology to deliver RCNG generated at Seneca Landfill to other Vogel facilities to fuel their fleet of CNG waste disposal vehicles, many of which have been funded through prior AFIG Program Vehicle Retrofit or Purchase awards. Lego V is also marketing this technology to other entities seeking to provide or use RCNG as a transportation fuel in Pennsylvania and other states.



United Parcel Service CNG Delivery Vehicles: In PY 2021-2022, United Parcel Service, Inc. (UPS) completed two Compressed Natural Gas (CNG) package car vehicle purchase projects. These projects were supported by the AFIG Program through the award of two grants of \$300,000 each in July of 2021. The projects, located at the UPS distribution centers at New Stanton and Horsham, Pennsylvania, resulted in the purchase and deployment of 35 medium duty natural gas delivery trucks at each location. These vehicles replace existing gasoline-powered vehicles delivering packages in neighborhoods and to businesses. The vehicles utilize fueling infrastructure already in place at the two UPS distribution centers and contribute to UPS's efforts to expand their CNG fleet in Pennsylvania. Vehicles located at the Horsham facility will also be able to refuel using RNG. These 70 vehicles will displace an estimated 199,400 GGE of gasoline per year at both locations combined. This equates to approximately 1,772 metric tons of CO₂ displaced per year.



2021-2022 Active Projects

Note: COVID-19 had an impact on AFIG Program projects during PY 2021-2022. Many grantees found they were unable to complete projects in their initial period of performance due to personnel situations and the inability to acquire vehicles or materials during the pandemic. Projects also experienced challenges due to lack of revenue that would have been directed toward the grantees' match portions of their projects. These grantees worked with AFIG Program staff to determine when they would be able to complete their projects and submitted time extensions.

The following are current/active AFIG Program projects as of June 30, 2022:

Alternative Fuels Incentive Grant Program 2017 Round 1

Project Name	Funding Recipient	County	Project Status	Total Grant Funding	Total Amount Invoiced	Percent Complete
Valley Waste Service - Public and Fleet CNG Fueling Station	Valley Waste Service Inc.	Beaver	Final Permitting	\$400,000	\$360,000	90%

Alternative Fuels Incentive Grant Program 2017 Round 2

Project Name	Funding Recipient	County	Project Status	Total Grant Funding	Total Amount Invoiced	Percent Complete
Honey Brook Biodiesel Fleet Refueling Station	A.J. Blosenski, Inc.	Chester	In Progress	\$446,749	\$0	20%
Philadelphia Propane Fueling Infrastructure Project	Sharp Energy	Philadelphia	In Project Closeout	\$24,800	\$0	100%

Alternative Fuels Incentive Grant Program 2018 Round 1

Project Name	Funding Recipient	County	Project Status	Total Grant Funding	Total Amount Invoiced	Percent Complete
AFIG	Borough of Lansdale	Montgomery	In Project Closeout	\$22,500	\$0	100%

Alternative Fuels Incentive Grant Program 2018 Round 2

Project Name	Funding Recipient	County	Project Status	Total Grant Funding	Total Amount Invoiced	Percent Complete
CNG Fleet	VEC Energy LLC	Indiana	In Progress	\$165,000	\$67,500	59%

Alternative Fuels Incentive Grant Program 2019 Round 1

Project Name	Funding Recipient	County	Project Status	Total Grant Funding	Total Amount Invoiced	Percent Complete
Comcast Hybrid Conversion	Comcast Corporation	Philadelphia	In Progress	\$100,000	\$0	10%
Progas Alternative Fuel	ProGas Inc	Butler	In Progress	\$5,800	\$0	10%
Snyder Brothers, Inc. Expansion and Upgrade of CNG Fueling Stations	Snyder Brothers, Inc.	Armstrong	In Progress	\$463,064	\$0	20%

Alternative Fuels Incentive Grant Program 2019 Round 2

Project Name	Funding Recipient	County	Project Status	Total Grant Funding	Total Amount Invoiced	Percent Complete
Eurofins Lancaster Laboratories Inc.	Eurofins Lancaster Laboratories	Lancaster	In Project Closeout	\$80,000	\$0	100%
Noble Environmental CNG Recycling Trucks - Allegheny Co	Noble Environmental Inc.	Allegheny	In Progress	\$300,000	\$260,000	90%
Progas 2019 F150 AAR	Progas Inc.	Butler	Grant Execution	\$7,500	\$0	0%
Seven Springs Go Green Passenger Transit Upgrade	Seven Springs Mountain Resort Inc.	Somerset	In Progress	\$87,500	\$0	0%

Alternative Fuels Incentive Grant Program 2019 Round 2 (continued)

Project Name	Funding Recipient	County	Project Status	Total Grant Funding	Total Amount Invoiced	Percent Complete
Multifamily Electric Vehicle Charging for Philadelphia	V2G Energy, LLC	Philadelphia	In Progress	\$300,000	\$119,535	70%

Alternative Fuels Incentive Grant Program 2020

Project Name	Funding Recipient	County	Project Status	Total Grant Funding	Total Amount Invoiced	Percent Complete
Albright College Alternative Fueling Program	Albright College	Berks	In Progress	\$85,00	\$0	0%
Pittsburgh: Electric Vehicles Fleet Purchase	City of Pittsburgh	Allegheny	In Progress	\$160,000	\$100,000	90%
Delaware County Electric Vehicle Supply Equipment Initiative	Delaware County	Delaware	In Progress	\$35,740	\$0	0%
Delaware County Electric Vehicle Conversion Initiative	Delaware County	Delaware	In Progress	\$112,500	\$0	0%
Ingevity RNG Light Truck Demonstration with Adsorbed Natural Gas Technology	Ingevity Corporation	Philadelphia, Washington, Lancaster, Allegheny, Erie	In Progress	\$256,745	\$16,318	20%
Transitioning the Lehigh University Police Department to Electric Vehicles	Lehigh University	Lehigh	In Progress	\$24,412	\$0	20%

Alternative Fuels Incentive Grant Program 2020

Project Name	Funding Recipient	County	Project Status	Total Grant Funding	Total Amount Invoiced	Percent Complete
Lower Merion CNG School Bus Project 2021	Lower Merion School District-Department of Transportation	Montgomery	Final Payment	\$289,590	\$0	100%
New CNG Waste Collection Vehicle Purchase Project at Shank Waste	Shank Waste Service, Inc.	Westmoreland	In Progress	\$300,000	\$0	0%
TARS Trucking Alternative Fuels Incentive Grant (ZEV)	TARS Trucking, Inc.	Allegheny	In Progress	\$52,500	\$0	0%

Alternative Fuels Incentive Grant Program 2021 Round 1

Project Name	Funding Recipient	County	Project Status	Total Grant Funding	Total Amount Invoiced	Percent Complete
Electric Vehicles	Bethlehem Parking Authority	Northampton	Grant Execution	\$24,500	\$0	0%
Driven2Drive EV Fleet Transition Project	Driven2Drive LLC	Montgomery, Chester, Delaware, Philadelphia	Grant Execution	\$30,000	\$0	0%
Tesla Police Car Purchase	East Washington Borough	Washington	Grant Execution	\$7,500	\$0	0%

Alternative Fuels Incentive Grant Program 2021 Round 1 (continued)

Project Name	Funding Recipient	County	Project Status	Total Grant Funding	Total Amount Invoiced	Percent Complete
TM-LFP Battery Development for Low Cost Domestic Production of Zero Emission Vehicles	EC Power Group, Inc.	Centre	In Progress	\$600,000	\$0	0%
EVgo Electric Vehicle DC Fast Charging in Homestead, PA	EVgo Services LLC	Allegheny	In Progress	\$197,042	\$0	0%
EVgo Electric Vehicle DC Fast Charging in Pleasant Hills, PA	EVgo Services LLC	Allegheny	In Progress	\$156,000	\$0	0%
Fresh Hills Market EV Purchase	Fresh Hills Market	Northampton	In Progress	\$22,500	\$0	0%
Iron Mountain Electric Vehicle PA Project	Iron Mountain Information Management Services, Inc	Erie, Allegheny, Beaver, Chester, Delaware	In Progress	\$90,000	\$0	0%
Iron Mountain EV Charging Infrastructure Project	Iron Mountain Information Management Services, Inc	Erie, Allegheny, Beaver, Chester, Delaware	In Progress	\$42,000	\$0	0%
AFIG 2021 - Vehicle	LT Verrastro, Inc.	Lackawanna	Grant Execution	\$300,000	\$0	0%
The Pennsylvania Environmental Justice Electric School Bus Demonstration Project	Nuvve of Pennsylvania	Allegheny, Westmoreland	Grant Execution	\$300,000	\$0	0%

Alternative Fuels Incentive Grant Program 2021 Round 1 (continued)

Project Name	Funding Recipient	County	Project Status	Total Grant Funding	Total Amount Invoiced	Percent Complete
Electrifying the Future of School Transportation One Charge at a Time - Broad St.	School District of Philadelphia	Philadelphia	Grant Execution	\$300,000	\$0	0%
Electrifying the Future of School Transportation One Charge at a Time - Passyunk	School District of Philadelphia	Philadelphia	Grant Execution	\$300,000	\$0	0%
LKQ Alternative Fueling Fleet Project	Thompson Gas LLC	York, Northampton	In Progress	\$280,125	\$0	0%
LKQ Alternative Fueling Fleet Refueling Project	Thompson Gas LLC	York, Northampton	In Progress	\$159,000	\$0	0%
Wilson School District Propane School Bus Conversion Project	Wilson School District	Berks	In Progress	\$76,000	\$0	0%

Alternative Fuels Incentive Grant Program 2021 Round 2

Project Name	Funding Recipient	County	Project Status	Total Grant Funding	Total Amount Invoiced	Percent Complete
AAA Bolts into Action	AAA Club Alliance, Inc	Philadelphia	In Progress	\$45,000	\$0	0%
Allegheny County Electric Vehicle Fleet	Allegheny County	Allegheny	In Progress	\$45,000	\$0	0%

Alternative Fuels Incentive Grant Program 2021 Round 2 (continued)

Project Name	Funding Recipient	County	Project Status	Total Grant Funding	Total Amount Invoiced	Percent Complete
Amazon Hazleton Fulfillment Center RNG Project	Amazon Logistics, Inc.	Luzerne	Grant Execution	\$300,000	\$0	0%
Aqua All Electric Experience Project	Aqua Pennsylvania Incorporated	Delaware	Grant Execution	\$36,135	\$0	0%
Chestnut Valley CNG Upgrade	Chestnut Valley Landfill, LLC	Fayette	Grant Execution	\$300,000	\$0	0%
Delaware County Fleet Electrification Project-Vehicles	Delaware County	Delaware	Grant Execution	\$300,000	\$0	0%
Delaware County Fleet Electrification Project-Infrastructure	Delaware County	Delaware	Grant Execution	\$300,000	\$0	0%
2021 CNG Grant	Francis J. Palo, Inc.	Clarion	In Progress	\$30,000	\$0	0%
Electric School Bus Demonstration Project	HE Rohrer, Inc.	Perry	Grant Execution	\$100,000	\$0	0%
Loyalsock Township Electric Vehicle - Codes	Loyalsock Township	Lycoming	In Progress	\$7,500	\$0	0%

Alternative Fuels Incentive Grant Program 2021 Round 2 (continued)

Project Name	Funding Recipient	County	Project Status	Total Grant Funding	Total Amount Invoiced	Percent Complete
Middletown Township Municipal Center DC Fast Charging (DCFC) Project	Township of Middletown	Bucks	In Progress	\$215,000	\$0	0%
MJ Transport Logistics, LLC CNG Tractors	MJ Transport Logistics, LLC	Jefferson	In Progress	\$300,000	\$0	0%
2022 Chevy Bolt purchase	The Pittsburgh Water and Sewer Authority	Allegheny	Grant Execution	\$7,500	\$0	0%
Electric City Electric Vehicles (ECEV)	City of Scranton	Lackawanna	In Progress	\$75,000	\$0	0%
Electric City Electric Chargers (ECEC)	City of Scranton	Lackawanna	In Progress	\$45,642	\$0	0%

Alternative Fuels Incentive Grant Program 2018 FAST Act Infrastructure Grants

Project Name	Funding Recipient	County	Project Status	Total Grant Funding	Total Amount Invoiced	Percent Complete
Giant Eagle EV Fast Charging Project – I-79 Pittsburgh South	Giant Eagle, Inc.	Allegheny	In Progress	\$330,00	\$0	10%
Giant Eagle EV Fast Charging Project – I-79 Pittsburgh North	Giant Eagle, Inc.	Allegheny	In Progress	\$330,00	\$0	10%

Alternative Fuels Incentive Grant Program 2020 FAST Act Infrastructure Grants

Project Name	Funding Recipient	County	Project Status	Total Grant Funding	Total Amount Invoiced	Percent Complete
American Natural Cranberry EV	American Natural	Butler	In Progress	\$104,048	\$0	10%
American Natural Gibsonia EV	American Natural	Allegheny	In Progress	\$110,610	\$0	10%
American Natural Harmar EV	American Natural	Allegheny	In Progress	\$108,881	\$0	10%
American Natural Mars EV Charging Station	American Natural	Butler	In Progress	\$99,336	\$0	10%
American Natural Wexford EV	American Natural	Allegheny	In Progress	\$107,341	\$0	10%
DC Fast Charging Project on Rt.80 White Haven PA	U-Go Stations Inc.	Luzerne	In Progress	\$85,000	\$0	50%

Alternative Fuel Vehicle Rebate Program

The AFV Rebate Program supports Pennsylvania residents who purchase a new, qualified AFV registered in Pennsylvania and powered by CNG, electricity, hydrogen fuel cells (FC), or LPG. Since 2011, the program has provided \$15 million in rebate funds to over 10,000 Pennsylvania residents.

From July 1, 2021, through June 30, 2022, DEP approved 1,312 rebates for AFVs purchased and registered in Pennsylvania and provided \$885,500 in rebate reimbursements, including 1,156 rebates for new vehicles, 19 rebates to demonstration model vehicles with between 500 and 10,000 miles, and 137 rebates to one-time, pre-owned vehicles with 75,000 miles or fewer. Of these rebates, 28 qualified for the additional \$1,000 rebate for low-income Pennsylvania residents.

From July 1, 2021, through June 30, 2022, the rebate structure was based on the following:

- \$1,000 rebate for a hydrogen and/or FC vehicle.
- \$750 rebate for a Battery Electric Vehicle (BEV).
- \$500 rebate for a CNG fueled vehicle, including Original Equipment Manufacturer (OEM)/Certified Retrofits only.
- \$500 rebate for an LPG fueled vehicle, including OEM/Certified Retrofits only.
- \$500 rebate for a Plug-in Hybrid Electric Vehicle (PHEV).
- \$500 rebate for an electric motorcycle (does not include electric scooters).

Additional rebate for low-income Pennsylvania residents:

- New (purchased and leased) and used AFVs are eligible for an additional \$1,000 rebate if the applicant's total household income is below 200 percent of the federal poverty guideline.

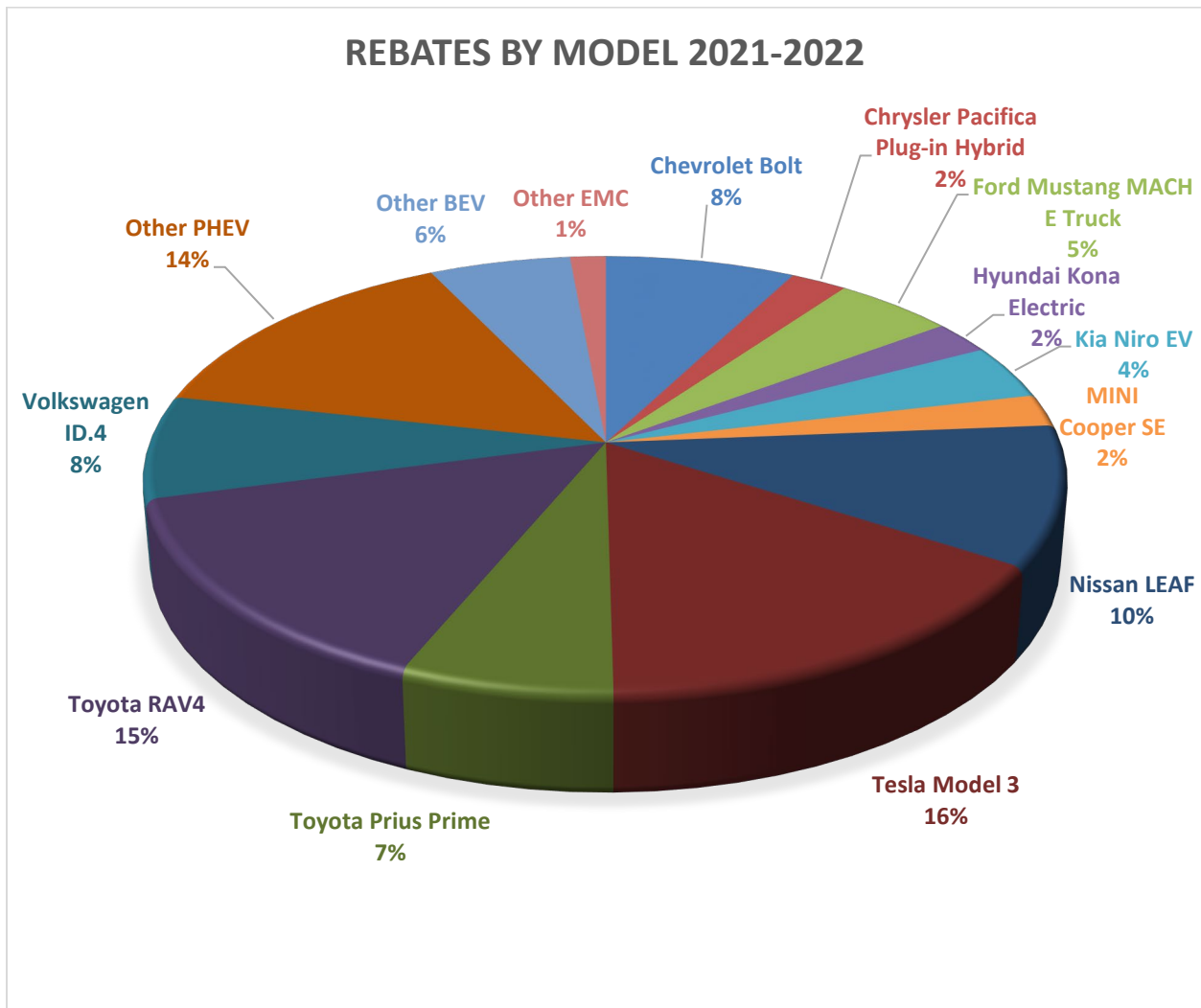
Throughout PY 2021-2022, the final purchase price for eligible AFVs was capped at \$50,000.

The following table breaks down the total rebates issued by type of vehicle during FY 2021-2022:

July 1, 2021 – June 30, 2022

Vehicle Type	Number of Rebates	Rebate Amount
Electric Motorcycles	19	\$ 9,500
Battery Electric Vehicles (BEVs)	798	\$ 615,500
Plug-In Hybrid Electric Vehicles (PHEVs)	495	\$ 260,500
Total	1,312	\$ 885,500

The following chart illustrates the percentage of rebates awarded by vehicle make and model during FY 2021-2022. The chart illustrates the increasing number of available AFVs in the market.



Significant changes have been made to the program for PY 2022-2023. The AFV Rebate Program will increase rebate amounts for both new and pre-owned BEVs to \$2,000 and PHEVs to \$1,500, while adding an income eligibility limits. An applicant's total household income must be no more than 400 percent of the federal poverty guideline in order to qualify. This is intended to bridge the affordability gap on AFVs for those Pennsylvanian residents near or below the median income level for the commonwealth. The program will continue to offer an additional \$1,000 rebate for those applicants whose total household income is below 200 percent of the federal poverty guideline. Approximately \$2 million of funding is available, and the AFV Rebate program will offer 1,000 rebates at the \$2,000 level.

**Statement of Revenues and Expenditures
Alternative Fuels Incentive Grant Fund
As of June 30, 2022**

Beginning Balance – July 1, 2021	\$16,948,096.90
Cycle 29 Revenue - Transfer made in May 2022	\$4,465,695.59
<u>Expenditures</u>	
Personnel:	-\$191,291.62
Operating:	-\$71,967.26
Grants and Rebates:	-\$4,527,792.66
 Total Expenditures:	 -\$4,791,051.54
Ending Balance – June 30, 2022	\$16,622,740.95

- The fund balance of **\$ 16,622,740.95** on June 30, 2022, contained:
- \$ 7,899,760.39 of committed grant contract obligations.
 - \$ 2,965,277 of grant awards awaiting to be committed into grant contracts.
 - \$ 150,000 of programmatic set aside to close out PY 2021-2022 rebate program.
 - \$ 2,000,000 of programmatic set aside for PY 2022-2023 rebate program.
 - \$ 67,500 in planned operating and personnel costs.

This results in a current uncommitted balance of **\$3,540,203.56**.

Note: **\$4,465,695.59** of the fund balance was only recently received into the AFIG Program account as revenue in May 2022.

Appendix – Awarded Projects from 2021 AFIG Program

Vehicle Class 1- 2 Projects:

Awardee: AAA Club Alliance, Inc

Project: AAA Bolts into Action

Award Total: \$45,000

County: Philadelphia

Number of Vehicles: 6

Estimated GGE saved per year: 5,626

Project Description: AAA Club Alliance is purchasing six (6) Chevy Bolt EVs for their fleet.

Awardee: Allegheny County

Project: - Allegheny County Electric Vehicle Fleet

Award Total: \$45,000

County: Allegheny

Number of Vehicles: 6

Estimated GGE saved per year: 3,571

Project Description: Allegheny County is purchasing two (2) Class 1 EVs for the County Sheriff's Office and four (4) electric pickup trucks for their County Police and Facility Management staff.

Awardee: Aqua Pennsylvania Incorporated

Project: Aqua All Electric Experience Project

Award Total: \$36,135

County: Delaware

Number of Vehicles: 5

Estimated GGE saved per year: 2,778

Project Description: Aqua Pennsylvania is purchasing five (5) Class 1 electric vehicles for use by their customer service staff.

Awardee: Bethlehem Parking Authority

Project: Electric Vehicles

Award Total: \$24,500

County: Lehigh, Northampton

Number of Vehicles: 4

Estimated GGE saved per year: 1,040

Project Description: The Bethlehem Parking Authority is purchasing four (4) Chevy Bolt EVs for their enforcement fleet.

Awardee: Delaware County

Project: Delaware County Fleet Electrification Project - Vehicles

Award Total: \$300,000

County: Delaware

Number of Vehicles: 69

Estimated GGE saved per year: 34,500

Project Description: Delaware County is purchasing 69 Class 1 electric vehicles for use by their Health Department. They were also awarded a Refueling Infrastructure grant to fund charging stations for these vehicles.

Awardee: Driven2Drive LLC
Project: Driven2Drive EV Fleet Transition Project
Award Total: \$30,000
County: Chester, Montgomery
Number of Vehicles: 4
Estimated GGE saved per year: 4,706
Project Description: Driven2Drive is purchasing four (4) Tesla Model 3 EVs to upgrade their driver's education fleet.

Awardee: East Washington Borough
Project: Tesla Police Car Purchase
Award Total: \$7,500
County: Washington
Number of Vehicles: 1
Estimated GGE saved per year: 789
Project Description: East Washington Borough is purchasing one (1) Tesla Model 3 EV for the Borough's police force.

Awardee: Francis J. Palo, Inc.
Project: 2021 CNG Grant
Award Total: \$30,000
County: Clarion
Number of Vehicles: 4
Estimated GGE saved per year: 14,286
Project Description: Francis J. Palo, Inc., is purchasing four (4) F-150 CNG pickups for their contractor fleet.

Awardee: - Fresh Hills Market
Project: Fresh Hills Market EV Purchase
Award Total: \$22,500
County: Northampton
Number of Vehicles: 3
Estimated GGE saved per year: 10,794
Project Description: Fresh Hills Market is purchasing two (2) Tesla Model Y vehicles and one (1) Tesla Cybertruck for business deliveries.

Awardee: Iron Mountain Information Management Services, Inc
Project: Iron Mountain Electric Vehicle PA Project - Alternative Fuels Incentive Grant
Award Total: \$90,000
County: Allegheny, Beaver, Chester, Delaware, Erie
Number of Vehicles: 12
Estimated GGE saved per year: 13,500
Project Description: Iron Mountain is purchasing 12 electric vans for use in their fleets at five (5) document processing centers in Pennsylvania. They were also awarded a Refueling Infrastructure grant for charging stations for these vehicles.

Awardee: Loyalsock Township
Project: Loyalsock Township Electric Vehicle - Codes
Award Total: \$7,500
County: Lycoming
Number of Vehicles: 1
Estimated GGE saved per year: 800
Project Description: Loyalsock Township is purchasing one (1) Class 1 electric vehicle for their Codes office.

Awardee: The Pittsburgh Water and Sewer Authority
Project: 2022 Chevy Bolt purchase
Award Total: \$7,500
County: Allegheny
Number of Vehicles: 1
Estimated GGE saved per year: 280
Project Description: The PWSA is purchasing one (1) Class 1 electric vehicle as part of a pilot program to evaluate converting the rest of their fleet over to EVs.

Awardee: City of Scranton
Project: Electric City Electric Vehicles (ECEV)
Award Total: \$75,000
County: Lackawanna
Number of Vehicles: 10
Estimated GGE saved per year: 3,704
Project Description: \$75,000 in AFIG Program funds for the purchase of ten (10) Class 1 EVs.

2021 Class 3+ Vehicle Projects

Awardee: Amazon Logistics, Inc.
Project: Amazon Hazleton Fulfillment Center RNG Project
Award Total: \$300,000
County: Luzerne
Number of Vehicles: 10
Estimated GGE saved per year: 111,111
Project Description: Amazon Logistics is purchasing ten (10) RNG tractors for their Hazleton fulfillment center.

Awardee: Chestnut Valley Landfill, LLC
Project: Chestnut Valley CNG Upgrade
Award Total: \$300,000
County: Fayette
Number of Vehicles: 8
Estimated GGE saved per year: 80,000
Project Description: Chestnut Valley Landfill is purchasing eight (8) CNG waste collection trucks.

Awardee: HE Rohrer, Inc.

Project: Electric School Bus Demonstration Project

Award Total: \$100,000

County: Perry

Number of Vehicles: 1

Estimated GGE saved per year: 1,714

Project Description: HE Rohrer is purchasing one (1) electric school bus.

Awardee: LT Verrastro, Inc.

Project: AFIG 2021 - Vehicle

Award Total: \$300,000

County: Lackawanna

Number of Vehicles: 8

Estimated GGE saved per year: 28,571.43

Project Description: LT Verrastro is purchasing eight (8) CNG tractor trailers.

Awardee: MJ Transport Logistics LLC

Project: MJ Transport Logistics, LLC

Award Total: \$300,000

County: Centre

Number of Vehicles: 8

Estimated GGE saved per year: 166,667

Project Description: MJ Logistics is purchasing eight (8) CNG waste hauling tractor trailers.

Awardee: Nuvve of Pennsylvania

Project: The Pennsylvania Environmental Justice Electric School Bus Demonstration Project

Award Total: \$300,000

County: Allegheny, Mercer, Washington

Number of Vehicles: 10

Estimated GGE saved per year: 18,462

Project Description: Nuvve is working with Pennsylvania School Districts and school transit companies to purchase ten (10) electric school buses to be used in state school districts.

Awardee: School District of Philadelphia

Project: Passyunk - Electrifying the Future of School Transportation One Charge at a Time, Application 2

Award Total: \$300,000

County: Philadelphia

Number of Vehicles: 3

Estimated GGE saved per year: 4,573.17

Project Description: The School District is purchasing three (3) electric school buses for use at the District's Passyunk location.

Awardee: School District of Philadelphia

Project: Electrifying the Future of School Transportation One Charge at a Time - Broad St.

Award Total: \$300,000

County: Philadelphia

Number of Vehicles: 3

Estimated GGE saved per year: 4,573.17

Project Description: The School District is purchasing three (3) electric school buses for use at the District's Broad Street location.

Awardee: Thompson Gas LLC

Project: LKQ Alternative Fueling Fleet Project

Award Total: \$280,125

County: York, Lehigh

Number of Vehicles: 27

Estimated GGE saved per year: 141,600

Project Description: \$280,125 in AFIG Program funding for the purchase of 27 Class 3+ propane delivery vehicles at the LKQ locations in York and Bethlehem.

Awardee: Wilson School District

Project: Wilson School District Propane School Bus Conversion Project

Award Total: \$76,000

County: Berks

Number of Vehicles: 9

Estimated GGE saved per year: 14,817

Project Description: Wilson School District is purchasing nine (9) propane school buses to continue the district's fleet conversion.

2021 Refueling Infrastructure Projects

Awardee: Delaware County

Project: Delaware County Fleet Electrification Project - Infrastructure

Award Total: \$300,000

County: Delaware

Project Description: Delaware County is installing 22 Level 2 dual cable charging units around the county. These chargers will be utilized by the fleet vehicles purchased by their Vehicle Purchase grant award.

Awardee: EVgo Services LLC

Project: EVgo Electric Vehicle DC Fast Charging in Homestead, PA

Award Total: \$197,042

County: Allegheny

Project Description: EVgo is installing a 4-unit DC Fast Charger with full public access in Homestead, PA.

Awardee: EVgo Services LLC

Project: EVgo Electric Vehicle DC Fast Charging

Award Total: \$156,000

County: Allegheny

Project Description: EVgo is installing a 4-unit DC Fast Charger with full public access in Pleasant Hills, PA.

Awardee: Iron Mountain Information Management Services Inc.

Project: Iron Mountain EV Charging Infrastructure Project

Award Total: \$42,000

County: Erie, Allegheny, Beaver, Chester, Delaware

Project Description: Iron Mountain is installing Level 2 chargers at five (5) locations. These chargers will be utilized by the fleet vehicles purchased by their Vehicle Purchase grant award.

Awardee: Township of Middletown

Project: Middletown Township Municipal Center DC Fast Charging (DCFC) Project

Award Total: \$215,000

County: Bucks

Project Description: The Township of Middletown is installing four (4) DC Fast EV charging stations for public use.

Awardee: City of Scranton

Project: Electric City Electric Chargers (ECEC)

Award Total: \$45,642

County: Lackawanna

Project Description: - The City of Scranton is installing ten (10) Level 2 chargers. These chargers will be utilized by the fleet vehicles purchased by their Vehicle Purchase grant award.

Awardee: Thompson Gas LLC

Project: LKQ Alternative Fueling Fleet Refueling Project

Award Total: \$159,000

County: York, Lehigh

Project Description: Thompson Gas is installing two (2) propane autogas refueling stations to fuel LKQ's retrofitted fleet vehicles at their respective branch locations in York, Pennsylvania and Bethlehem, Pennsylvania. This infrastructure will be utilized by the fleet vehicles acquired by their Vehicle Purchase grant award.

2021 Innovative Technology Project:

Awardee: EC Power Group, Inc.

Project: TM-LFP Battery Development for Low Cost Domestic Production of Zero Emission Vehicles

Award Total: \$600,000

County: Centre

Project Description: EC Power is developing the design for a thermally modulated lithium iron phosphate (TM-LFP) battery that offers both high performance and low cost. It will have an 11-minute recharge time and an expected battery life over 20 years and one million miles.

Whereas current prices of automotive batteries today are approximately \$135 per kilowatt hour (kWh), this battery will offer a manufacturing cost of \$50-90 per kWh.



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COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
ENERGY PROGRAMS OFFICE

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