



Alternative Fuels Incentive Act Fund



pennsylvania
DEPARTMENT OF ENVIRONMENTAL
PROTECTION

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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 in 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, as well as other expenditures and activities undertaken pursuant to the Alternative Fuels Incentive Act. This report also details the awards granted in the 2020-2021 solicitation cycle. A listing of rebate awards, notable completed grant projects, and program and grant project expenditures during the July 1, 2020 to June 30, 2021 fiscal year 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 Alternative Fuels Incentive Grant (AFIG) Program was expanded in 2004 and 2008. In addition, an Alternative Fuel Vehicle (AFV) Rebate Program was created.

In the 20-21 program year the AFIG program successfully oversaw the completion of 26 projects which included the deployment of 140 alternative fuel vehicles and six completed alternative fuel refueling stations estimated to displace 11,976,050 gasoline gallon equivalents per year. During the program year \$3.5 million was expended on grant projects and \$674,750 disbursed to PA residents to support the purchase or lease of alternative fuel vehicles. DEP continues to administer grant awards and is currently project managing \$6 million of grant contracts for 36 projects currently underway and is executing grant agreements for 22 projects totaling an additional \$3.5 million. DEP also continues to operate the AFV Rebate Program and is working to expend \$1.5 million in funds set-aside for the purpose of incentivizing PA residents to purchase alternative fuel vehicles. These funds will provide 2,000 rebates at the \$750 level.

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 (VOC)s, and oxides of nitrogen (the pollutants that contribute to the formation of ground-level ozone), as well as carbon dioxide (a principal greenhouse gas).

The AFIG Program has fostered economic development in Pennsylvania by encouraging the transfer and commercialization of innovative energy technologies and the use of the state'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; the 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 150 grantees for the purchase or conversion of close to 1,500 alternative fuel vehicles, including electric, propane, and CNG, totaling over \$14.7 million in program funds disbursed. These vehicles are estimated to be displacing over 6.5 million Gasoline Gallon Equivalents (GGE) per year. In addition, since 2011, the program has provided a total of over \$14.1 million in rebate funds to 8,855 Pennsylvania residents for the purpose of purchasing alternative fuel vehicles.

The incentives and programs currently offered by AFIG include:

- The AFIG Grant Program offers approximately \$5 million in grants per year for school districts, local governments, nonprofit entities, and registered Pennsylvania companies for projects for the purchase and/or retrofit of alternative fuel vehicles, the construction of alternative fuel infrastructure, and 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 for the purchase or lease of new and pre-owned plug-in hybrid, plug-in electric, natural gas, propane and hydrogen fuel cell vehicles.

AFIG previously offered the AFIG Fixing America's Surface Transportation (FAST) Act Infrastructure Program for alternative fuel infrastructure projects located along Pennsylvania highway corridors designated for alternative fuel signage by the Federal Highway Administration. The program is no longer accepting applications for funding, however projects awarded under the program are currently in progress. A total of \$1,454,001 was awarded in three grant rounds between 2017-2019.

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 to 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 over the years. 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 competitive solicitation and AFV rebate programs:

1. A single funding recipient can receive no more than 10 percent of the funds available in any one 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 one 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.

2020-21 PROGRAM YEAR REVIEW

The following is a report on programs which were available during the period of this report, July 1, 2020 through June 30, 2021:

Alternative Fuel Incentive Grant Solicitation 2020

The 2020 Alternative Fuels Incentive Grant Program began accepting applications through the DCED eGrants system on August 28, 2020 and accepted applications until December 11, 2020. Award Summaries for the program are detailed below. The AFIG program was open to applications for projects involving the purchase and/or conversion of alternative fuel vehicles, projects resulting in the installation of alternative fuel refueling infrastructure, and projects that promote innovative alternative fuel technology. After the submission period, AFIG staff evaluated all applications received to determine grant awards.

Significant changes to the program guidelines for the 2020 solicitation included:

- Plug-in Hybrid Electric Vehicles were not eligible for an AFIG Award, only Battery Electric Vehicles were eligible for an AFIG award.
- Only new vehicles were eligible for vehicle retrofits and conversions.
- Extra consideration was given to natural gas vehicle projects involving RNG.

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

- Zero emission vehicles
- Renewable natural gas vehicle and infrastructure
- Projects located in or predominantly serving environmental justice areas
(<https://www.dep.pa.gov/PublicParticipation/OfficeofEnvironmentalJustice/Pages/PA-Environmental-Justice-Areas.aspx>)
- Publicly accessible alternative fuel refueling infrastructure

AFIG 2020 Awards Summary

The program submission period ended on December 11, 2020 with a total of 31 applications submitted resulting in a total grant fund request of \$5,513,918. Twenty-one applications were submitted in the Vehicle Retrofit and/or Purchase category, seven applications were submitted in the Refueling Infrastructure and three applications were submitted in the Innovative Technology category. After evaluation by DEP staff, 20 projects were selected, totaling \$3,406,849 in grant funds awarded. The recommended projects included fifteen Vehicle Retrofit and/or Purchase projects, four Refueling Infrastructure projects, and one Innovative Technology project.

Vehicle Retrofit/Purchase Projects

- Total Number of Applications: **21**
- Number of Recommended Projects: **15**
- Total Grant Request: **\$3,195,995**
- Recommended Amount of Award Funding: **\$2,670,307**
- Total Number of Vehicles Applied For: **231**
- Total Number of Awarded Vehicles: **209**
- Total Estimated Gasoline Gallon Equivalents saved per year: **568,291 (Awards)**
- New Fueling Stations Supported: **5**
- Existing Fueling Stations Supported: **10**

Refueling Infrastructure Projects

- Total Number of Applications: **6**
- Fleet Refueling Applications: **2**
- Workplace or Home-based Refueling Applications: **2**
- Public Refueling Applications: **2**
- Number of Recommended Projects: **4**
- Total Grant Request: **\$1,110,637**
- Recommended Amount of Award Funding: **\$479,797**

Innovative Technology Projects

- Total Number of Applications: **3**
 - Two applications were deemed ineligible
- Number of Recommended Projects: **1**
- Total Grant Request: **\$1,204,945**
- Recommended Amount of Award Funding: **\$256,745**

Alternative Fuel Incentive Grant Solicitation 2021

The 2021 Alternative Fuels Incentive Grant began accepting applications through the DCED Electronics Single Application system on July 2, 2021. Priorities for the 2021 grant solicitation include:

- Businesses whose headquarters or principal place of business are located in Pennsylvania
- Zero emission vehicles
- Renewable natural gas vehicle and infrastructure
- Projects located in or predominantly serving environmental justice 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.

The changes made to the Vehicle Retrofit and Purchase projects category for 2021 are:

- No leased vehicles will be eligible under the 2021 solicitation.
- Non-profits, including schools, and local government entities may apply jointly.

Awards granted during this application period will be summarized in the 2021-2022 annual report.

Pennsylvania FAST Act Alternative Fuel Corridor Infrastructure Program

The Pennsylvania 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 re-fueling infrastructure along select highway corridors in Pennsylvania. Eligible corridors are designated by the Federal Highway Administration in the FAST Act (Fixing America's Surface Transportation Act - Pub. L. No. 114-94) as alternative fuel corridors which are "Signage Ready" or "Signage Pending." These corridors include 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 must be publicly accessible at all times, must 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 5-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. Currently, eight of the projects have completed the grant execution process and are preparing installation of charging equipment. Some projects have seen delays due to COVID-19; Giant Eagle, installing DC Fast chargers in two locations had seen a decrease in revenue that was earmarked toward the projects but is now moving forward.

The first project awarded, CNG Fuels LLC, completed construction in late 2020. DEP approved the final expenditure request and final report for the project on March 23, 2021. CNG Fuel, LLC was awarded a grant in 2018 for the expansion of their existing CNG fueling station located just off I-80 in Shippensburg, Clarion County. During 2020, the project suffered construction delays due to the COVID pandemic, but the expansion was completed in December 2020 with the installation of an additional compressor and sphere storage for CNG. The facility also added additional customer amenities including vending and restroom facilities, as required by the FAST Act grant solicitation guidelines. The total grant reimbursement was \$178,785, the full grant award. The current annual CNG sales are approximately 25,000 GGE. With the introduction of utility quality natural gas supply from UGI Central Penn Gas they anticipate increasing sales to waste hauling trucks over the next 2 years to approximately 50,000 GGE per year. That will result in over 39 metric tons of CO₂ reduced annually. In addition, the project will support semi-truck CNG fuel sales from the I-80 traffic corridor for an additional projected sale of 10,000 GGE per year. There will be an average of 24 trucks per day fueling at the expanded station over the next 5 years according to CNG's projections.



AFIG 2020-2021 Project Summary

Between July 1, 2020 and June 30, 2021, 26 AFIG projects were successfully completed by grantees. These grants totaled \$4,296,897 in awards from prior years. The completed projects resulted in the purchase or conversion of 140 alternative fuel vehicles and six completed new alternative fuel refueling stations, which are estimated to displace 11,976,050 GGE per year. The projects completed in 2020-21 are as follows:

Project Name	Grantee	Project Type	Total Amount Reimbursed
Expanding CNG Infrastructure in Philadelphia	AAA Club Alliance, Inc.	Refueling Infrastructure	\$74,995
AAA Propane Vehicle Project II	AAA Club Alliance, Inc.	Vehicle Purchase and/or Retrofit	\$17,335
Propane Powered Class 5 Delivery Vehicles	Bimbo Bakeries, USA	Vehicle Purchase and/or Retrofit	\$300,000
Alternative Fuels Incentive Grant Program	Bradford Area School District	Vehicle Purchase and/or Retrofit	\$19,000
Commercial Recycler and Old Corrugated Cardboard Recycler	Centre County Recycling and Refuse Authority	Vehicle Purchase and/or Retrofit	\$59,823
Fleet Capable, Fast Fill, High Volume CNG Refueling Station	CNG Fuel LLC	FAST Act Refueling Infrastructure	\$178,785
PA Alternative Fuels Incentive Grant	County of Allegheny	Vehicle Purchase and/or Retrofit	\$30,000
Delivering a Cleaner Future – CNG Project	Giant Eagle, Inc.	Vehicle Purchase and/or Retrofit	\$150,000
Alternative Fuels Incentive Grant Program	Haverford Township	Vehicle Purchase and/or Retrofit	\$7,500
Expanding CNG in Southcentral PA	Lancaster County Solid Waste Management Authority	Vehicle Purchase and/or Retrofit	\$138,560
Transitioning Lehigh University Facilities to Electric Vehicles	Lehigh University	Vehicle Purchase and/or Retrofit	\$15,000
CNG Fueling Station Upgrade Round 2 - Vehicle 3	LT Verrastro	Vehicle Purchase and/or Retrofit	\$300,000
Propane Bi-Fuel Conversion Program - MTSA Installation Phase	McCandless Township Sanitary Authority	Vehicle Purchase and/or Retrofit	\$31,000

Project Name	Grantee	Project Type	Total Amount Reimbursed
Alternative Fuel Incentive Program	Monark Student Transportation	Vehicle Purchase and/or Retrofit	\$76,000
Propane Infrastructure Initiative	North Penn School District	Refueling Infrastructure	\$115,000
Electric Vehicle Drive Experience	Northwestern Rural Electric Cooperative Association, Inc.	Vehicle Purchase and/or Retrofit	\$7,500
Pennsbury School District Propane School Bus Initiative	Pennsbury School District	Vehicle Purchase and/or Retrofit	\$47,768
Peoples Vehicle Retrofit and/or Purchase Projects 2019	Peoples Natural Gas LLC	Vehicle Purchase and/or Retrofit	\$180,000
The Hatboro-Horsham Propane School Bus Conversion	School District of Hatboro-Horsham	Vehicle Purchase and/or Retrofit	\$25,500
Propane Shuttle Project	Suburban Transit	Vehicle Purchase and/or Retrofit	\$300,000
Rev LNG SSL TR	Rev LNG, LLC	Refueling Infrastructure	\$800,000
Tri-County Ind. - New Refueling Station	Tri-County Industries Inc.	Refueling Infrastructure	\$500,000
Tri-County Transit Propane Fueling Station	Tri County Transit Service Inc.	Refueling Infrastructure	\$36,968
New CNG Waste Vehicle Purchase Project	Vogel Disposal Service, Inc.	Vehicle Purchase and/or Retrofit	\$286,163
WM Eastern Pennsylvania CNG Vehicle Deployment Project	Waste Management of Pennsylvania	Vehicle Purchase and/or Retrofit	\$300,000
WM North Huntingdon CNG Vehicle Deployment Project	Waste Management of Pennsylvania	Vehicle Purchase and/or Retrofit	\$300,000

Alternative Fuels Incentive Grant Program Recent Success Stories

Bradford Area School District-McKean County: The Bradford Area School District owns and operates a fleet of thirty 72-passenger school buses. Due to the size and remote location of the district, which is largely within the Allegheny National Forest region, their fleet travels over 500,000 miles per year. In 2013, in an attempt to reduce fuel expenses and provide cleaner air quality for students, the district began a ten percent per year propane school bus replacement program. The project was awarded AFIG funds in 2019 that were used to purchase two (2) new Blue Bird Vision propane buses to replace existing 2007 diesel buses. The incremental purchase cost of the propane buses was \$9,500 each, for a total grant award of \$19,000. The grant award was spent in full. The buses fuel at the district's on-site propane fueling station. The buses travel an average of 30,000 miles per year, resulting in fuel displacement of 4,000 gallons of diesel per bus, or 8,000 gallons of diesel displaced as a result of this grant project. The use of propane is saving the district approximately \$3,000 in fuel expenses per bus. Air emissions reductions resulting from the purchase of these 2 propane buses include GHG reductions of 2.99 metric Tons of CO₂ annually and NO_x reductions of 156.74 pounds annually, as well as small reductions in particulate matter. The district's transportation department's move towards cleaner fuel buses has proven a great success. The equipment is less costly to maintain, students enjoy cleaner air quality, and fuel expenses have decreased.



AAA Mid-Atlantic, Inc.-Philadelphia County: As a part of AAA Mid-Atlantic's commitment to reducing their dependence on conventional fuels and reducing air emissions, AAA completed the construction of the company's first CNG station for their Philadelphia Fleet Depot in January, 2021. The private station utilizes two 30-horsepower C220 Bauer compressors, filling the company's 23 CNG vehicles with Renewable Natural Gas (RNG). The new station has 6 dual hose posts, for a total of 12 time fill parking spaces with fueling capability. AAA estimates fuel cost and labor savings, while simultaneously shrinking their carbon footprint by over 500 metric tons of CO₂ per year. The project grant award was for \$74,994, or 25% of the cost of the project to cover a portion of the construction costs. After the project was fully engineered, there were a few adjustments from the original proposal price due to an expansion in the electrical scope of the project. COVID-19 impacted the project primarily due to changes in processing permit paperwork, but these issues were eventually resolved resulting in only a slight delay in completion of the station. The final cost of the project came in at \$335,817.



Waste Management of Pennsylvania - Westmoreland County: Waste Management of Pennsylvania, Inc. continues their effort to convert their Pennsylvania fleet to natural gas and was awarded \$300,000 in 2019 to deploy eight (8) CNG solid waste collection vehicles within its operations in Dunmore, Pennsylvania. Two different types of trucks were purchased including four Peterbilt roll-offs and four Peterbilt commercial front end loaders. The new vehicles are being fueled at Waste Management's existing CNG station in North Huntingdon, Pennsylvania located at 310 Leger Road. Four of the vehicles were purchased in April 2020, but the remaining four were not delivered until late July due to delays caused by COVID-19. The eight vehicles are estimated to save over 77,000 gasoline gallon equivalents per year and by time of final report submission, these vehicles had saved an actual 40,000 GGEs in operations. This equates to an estimated GHG reduction of 684 metric tons of CO₂ per year, with an actual reduction at time of final report of 355 tons.



2020-2021 ACTIVE PROJECTS

Note: COVID-19 had an impact on AFIG projects during 2020-21. Many grantees found they were unable to complete projects in their initial period of performance due to personnel situations, inability to acquire vehicles or materials due to 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 staff to determine when they would be able to complete their projects and submitted time extensions to complete their projects.

The following are current/active AFIG projects as of June 30 2021:

Alternative Fuels Incentive Grant Program 2017 Round 1

Project Name	Funding Recipient	County	Project Status	Total Grant Funding	Total Amount Invoiced	% Complete
Valley Waste Service - Public and Fleet CNG Fueling Station	Valley Waste Service Inc.	Beaver	In Progress	\$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	% 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	95%

Alternative Fuels Incentive Grant Program 2018 Round 1

Project Name	Funding Recipient	County	Project Status	Total Grant Funding	Total Amount Invoiced	% Complete
AFIG	Borough of Lansdale	Montgomery	In Project Closeout	\$22,500	\$0	95%

Alternative Fuels Incentive Grant Program 2018 Round 2

Project Name	Funding Recipient	County	Project Status	Total Grant Funding	Total Amount Invoiced	% Complete
Second Avenue EV Charging Stations	City of Pittsburgh	Allegheny	In Progress	\$135,160	\$0	10%
Tesla Project	Classy Cab Company, Inc.	Butler	In Progress	\$67,500	\$7,500	11%
Non-Pipeline RCNG Virtual Transport System	Lego V, LP	Butler	In Progress	\$352,800	\$0	10%
Electric Scooter Rideshare	Scoobi, Inc.	Allegheny	In Project Closeout	\$150,000	\$100,000	95%
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	% 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%
TC Recycling-New CNG Truck Purchase	TC Recycling, LLC	Butler	In Progress	\$240,000	\$120,000	50%

Alternative Fuels Incentive Grant Program 2019 Round 2

Project Name	Funding Recipient	County	Project Status	Total Grant Funding	Total Amount Invoiced	% Complete
3M Transport - AFIG 2019	3M Transport, LLC	Clearfield	In Project Closeout	\$14,550	\$14,550	95%
Alternative Fuel Vehicles for Public Transportation	Crawford Area Transportation Authority	Crawford	In Progress	\$290,000	\$100,719	35%
DLC Fleet AFIG Grant	Duquesne Light Company	Allegheny	In Progress	\$20,000	\$0	10%
Eurofins Lancaster Laboratories Inc.	Eurofins Lancaster Laboratories	Lancaster	In Progress	\$80,000	\$0	10%
Noble Environmental CNG Recycling Trucks - Allegheny Co	Noble Environmental Inc.	Allegheny	In Progress	\$300,000	\$0	10%
Noble Environmental CNG Garbage Trucks - Westmoreland Co	Noble Environmental Inc.	Westmoreland	In Progress	\$300,000	\$0	10%
Progas 2019 F150 AAR	Progas Inc.	Butler	Grant Execution	\$7,500	\$0	0%
Radnor Township School District Propane Bus Replacement Project	Radnor Township School District	Montgomery	In Progress	\$42,500	\$0	10%
Seven Springs Go Green Passenger Transit Upgrade	Seven Springs Mountain Resort Inc.	Somerset	Grant Execution	\$87,500	\$0	0%

Alternative Fuels Incentive Grant Program 2019 Round 2

Project Name	Funding Recipient	County	Project Status	Total Grant Funding	Total Amount Invoiced	% Complete
New CNG Fueled Waste Collection Vehicle Purchase-Tri County Industries	Tri-County Industries, Inc.	Butler	In Progress	\$300,000	\$160,000	50%
UPS CNG Delivery Truck Project-New Stanton PA	United Parcel Service	Westmoreland	In Project Closeout	\$300,000	\$0	95%
UPS CNG Delivery Truck Project-Willow Grove	United Parcel Service Inc.	Montgomery	In Project Closeout	\$300,000	\$0	95%
Multifamily Electric Vehicle Charging for Philadelphia	V2G Energy, LLC	Philadelphia	In Progress	\$300,000	\$0	35%

Alternative Fuels Incentive Grant Program 2020

Project Name	Funding Recipient	County	Project Status	Total Grant Funding	Total Amount Invoiced	% Complete
Albright College Electric Vehicle Program	Albright College	Berks	Grant Execution	\$27,305	\$0	0%
Albright College Alternative Fueling Program	Albright College	Berks	Grant Execution	\$96,708	\$0	0%
Allegheny County Electric Vehicle Fleet	Allegheny County	Allegheny	Grant Execution	\$30,000	\$0	0%
Pittsburgh: Electric Vehicles Fleet Purchase	City of Pittsburgh	Allegheny	Grant Execution	\$160,000	\$0	0%
Delaware County Electric Vehicle Supply Equipment Initiative	Delaware County	Delaware	Grant Execution	\$35,740	\$0	0%
Delaware County Electric Vehicle Conversion Initiative	Delaware County	Delaware	Grant Execution	\$112,500	\$0	0%
Derry School District Propane School Bus Conversion Initiative	Derry Township School District	Dauphin	Grant Execution	\$34,000	\$0	0%
Ride the Green Bus at Greater Latrobe School District	DMJ Transportation	Westmoreland	Grant Execution	\$300,000	\$0	0%
Ingevity RNG Light Truck Demonstration with Adsorbed Natural Gas Technology	Ingevity Corporation	Philadelphia, Washington, Lancaster, Allegheny, Erie	Grant Execution	\$256,745	\$0	0%

Alternative Fuels Incentive Grant Program 2020

Project Name	Funding Recipient	County	Project Status	Total Grant Funding	Total Amount Invoiced	% Complete
Expanding CNG in Southcentral PA	Lancaster County Solid Waste Management Authority	Lancaster	Grant Execution	\$240,000	\$0	0%
Transitioning the Lehigh University Police Department to Electric Vehicles	Lehigh University	Lehigh	Grant Execution	\$24,412	\$0	0%
Lower Merion CNG School Bus Project 2021	Lower Merion School District-Department of Transportation	Montgomery	Grant Execution	\$289,590	\$0	0%
Country Fair 5985 Rte 6N	Northwestern Rural Electric Cooperative Association	Erie	Grant Execution	\$149,849	\$0	0%
New CNG Waste Collection Vehicle Purchase Project at Shank Waste	Shank Waste Service, Inc.	Westmoreland	Grant Execution	\$300,000	\$0	0%
TARS Trucking Alternative Fuels Incentive Grant (ZEV)	TARS Trucking, Inc.	Allegheny	Grant Execution	\$52,500	\$0	0%
Alternative Fuels - Propane Project	Tri County Transportation Inc	Jefferson, Indiana	Grant Execution	\$300,000	\$0	0%
UPS CNG Vehicles Horsham	United Parcel Service, Inc	Montgomery	Grant Execution	\$300,000	\$0	0%
UPS CNG Vehicles New Stanton	United Parcel Service, Inc	Westmoreland	Grant Execution	\$300,000	\$0	0%

Alternative Fuels Incentive Grant Program 2020

Project Name	Funding Recipient	County	Project Status	Total Grant Funding	Total Amount Invoiced	% Complete
WM Pennsylvania RNG Vehicle Deployment Project	Waste Management of Pennsylvania, Inc.	Lackawanna, Montgomery, Bucks	Grant Execution	\$200,000	\$0	0%
Wilson School District Propane Infrastructure Initiative	Wilson School District	Berks	Grant Execution	\$197,500	\$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	% Complete
Giant Eagle EV Fast Charging Project – I-79 Pittsburgh South	Giant Eagle, Inc.	Allegheny	In Progress	\$330,00	\$0	0%
Giant Eagle EV Fast Charging Project – I-79 Pittsburgh North	Giant Eagle, Inc.	Allegheny	In Progress	\$330,00	\$0	0%

Alternative Fuels Incentive Grant Program 2020 FAST Act Infrastructure Grants

Project Name	Funding Recipient	County	Project Status	Total Grant Funding	Total Amount Invoiced	% 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	10%

Alternative Fuels Vehicle Rebate Program

The AFV Rebate Program supports Pennsylvania residents who purchase a new qualified alternative fuel vehicle registered in Pennsylvania and powered by CNG, electricity, hydrogen fuel cells (FC) or LPG. Since 2011, the program has provided a total of over \$14.1 million in rebate funds to 8,855 Pennsylvania residents.

This year from July 1, 2020 through June 30, 2021, DEP approved 995 rebates for AFVs purchased and then registered in Pennsylvania and provided \$674,750 in rebate reimbursements, including 832 rebates for new vehicles, 15 rebates to demonstration model vehicles with more than 500 and less than 10,000 miles, and 148 rebates to one-time, pre-owned vehicles with 75,000 miles or less. Of these rebates, 21 qualified for the additional \$1,000 rebate for low income PA residents, totaling \$21,000.

From July 1, 2020 until June 30, 2021, the rebate structure was based on the following:

- \$1,000 rebate for a Hydrogen and/or FC vehicle
- \$750 rebate for a BEV
- \$500 rebate for a CNG fueled vehicle including OEM /Certified Retrofits only
- \$500 rebate for a LPG fueled vehicle including OEM/Certified Retrofits only
- \$500 rebate for a PHEV
- \$500 rebate for an Electric Motorcycle (Does not include electric scooters)

Additional Rebate for Low Income PA 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.

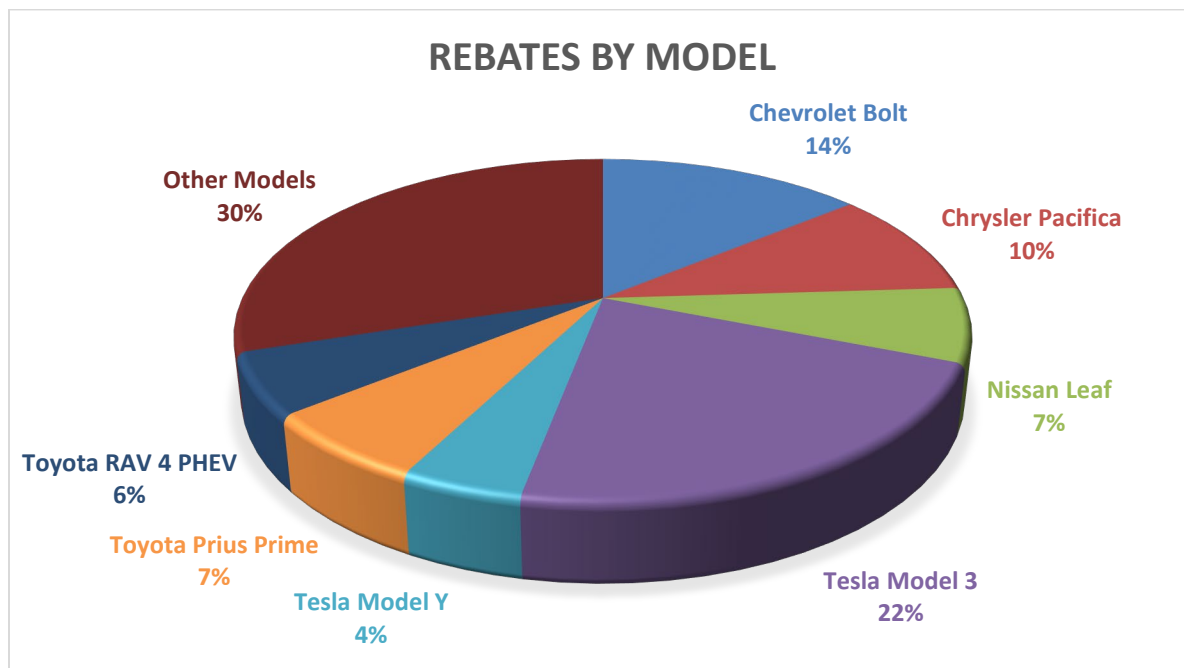
The program cap of \$50,000 final purchase price for new AFVs to be eligible for a rebate remained consistent throughout the 2020-21 program year.

No significant changes have been made to the program for the 2021-22 program year. Approximately \$1.5 million is available for funding and the program will offer 2,000 rebates at the \$750 level.

The following table breaks down the total rebates issued by type of vehicle during the 2020-2021 fiscal year:

July 1, 2020 – June 30, 2021

Vehicle Type	No. Of Rebates	Rebate Amount
Electric Motorcycles	10	\$ 5,000
Battery Electric Vehicle	626	\$ 482,750
Plug-In Hybrid Electric Vehicle	359	\$ 187,000
Totals	995	\$ 674,750



**STATEMENT OF REVENUES AND EXPENDITURES
ALTERNATIVE FUELS INCENTIVE GRANT FUND
As of June 30, 2021**

Beginning Balance – July 1, 2020	\$16,991,982.33
Cycle 23 Revenue - Transfer made in May 2021	\$4,344,761.76
<u>Expenditures</u>	
Personnel:	-\$157,023.61
Operating:	-\$96,588.21
Grants:	-\$3,459,160.37
Rebates:	-\$675,875
 Total Expenditures:	 -\$4,388,647.19
Ending Balance – June 30, 2021	\$ 16,948,096.90

The fund balance of **\$ 16,948,096.90** on June 30, 2021, contained:

- \$ 6,013,482.55 of committed grant contract obligations,
- \$ 3,538,349 of grant awards awaiting to be committed into grant contracts,
- \$1,500,000 of programmatic set aside for rebate payments,
- \$370,000 in planned operating and personnel costs

This results in a current uncommitted balance of **\$ 5,526,265.35**.

Note: **\$4,344,761.76** of the uncommitted balance was only recently received into the AFIG account as revenue in May 2021.

APPENDIX A

2020 Class 1 & 2 Vehicle Projects:

Awardee: Albright College

Project: Electric Vehicle Program

Award Total: \$27,305

County: Berks

Number of Vehicles: 5

Estimated GGE saved per year: 4,900

Project Description: Albright College is acquiring five (5) Chevy Bolt EVs. They were also awarded a Refueling Infrastructure grant for the charging stations for these vehicles.

Awardee: Allegheny County

Project: Electric Vehicle Fleet

Award Total: \$30,000

County: Allegheny

Number of Vehicles: 4

Estimated GGE saved per year: 1,004

Project Description: Allegheny County is purchasing four (4) Chevy Bolt EVs to continue to expand their EV fleet.

Awardee: City of Pittsburgh

Project: Electric Vehicles Fleet Purchase

Award Total: \$160,000

County: Allegheny

Number of Vehicles: 9

Estimated GGE saved per year: 4,842

Project Description: The City of Pittsburgh is purchasing eight (8) Chevy Bolt EVs to continue to expand their fleet of EVs, and one Class 3+ Lion Electric bucket truck that will be used for the City's tree maintenance program.

Awardee: Delaware County

Project: Electric Vehicle Conversion Initiative

Award Total: \$112,500

County: Delaware

Number of Vehicles: 15

Estimated GGE saved per year: 8,824

Project Description: Delaware County is purchasing 15 Chevy Bolt EVs as a part of their effort to convert their fleet to EVs. They have also been awarded a Refueling Infrastructure grant for the charging stations for these vehicles.

Awardee: Lehigh University

Project: Transitioning the Lehigh University Police Department to Electric Vehicles

Award Total: \$24,412

County: Lehigh

Number of Vehicles: 4

Estimated GGE saved per year: 1,151

Project Description: Lehigh University is purchasing three (3) all-electric vehicles and one (1) all-electric Neighborhood Electric Vehicle as part of their effort to transition their police fleet to EVs.

2020 Class 3+ Vehicle Projects

Awardee: Derry Township School District

Project: Propane School Bus Conversion Initiative

Award Total: \$34,000

County: Dauphin

Number of Vehicles: 4

Estimated GGE saved per year: 2,667

Project Description: Derry Township School District is purchasing four (4) propane school buses to expand their fleet.

Awardee: DMJ Transportation

Project: Ride the Green Bus at Greater Latrobe School District

Award Total: \$300,000

County: Westmoreland

Number of Vehicles: 34

Estimated GGE saved per year: 26,466

Project Description: DMJ Transportation is purchasing 34 propane school buses to expand their fleet.

Awardee: Lancaster County Solid Waste Management Authority

Project: Expanding CNG in Southcentral PA

Award Total: \$240,000

County: Lancaster

Project Site Legislative Districts: H041 B Miller; S013 Martin

Number of Vehicles: 6

Estimated GGE saved per year: 86,240

Project Description: LCSWMA is purchasing six (6) CNG waste transfer trucks to expand their fleet.

Awardee: Lower Merion School District- Department of Transportation

Project: CNG School Bus Project 2021

Award Total: \$289,590

County: Montgomery

Number of Vehicles: 10

Estimated GGE saved per year: 19,000

Project Description: Lower Merion School District is purchasing ten (10) CNG school buses to expand their fleet.

Awardee: Shank Waste Service, Inc.

Project: New CNG Waste Collection Vehicle Purchase Project

Award Total: \$300,000

County: Westmoreland

Number of Vehicles: 8

Estimated GGE saved per year: 163,108

Project Description: Shank Waste Service is purchasing eight (8) CNG waste vehicles to expand their fleet. These vehicles will utilize RNG produced at the Seneca Landfill.

Awardee: TARS Trucking, Inc.

Project: Alternative Fuels Incentive Grant (ZEV)

Award Total: \$52,500

County: Allegheny

Number of Vehicles: 1

Estimated GGE saved per year: 14,375

Project Description: TARS is purchasing a Tesla EV tractor.

Awardee: Tri County Transportation Inc

Project: Alternative Fuels - Propane Project

Award Total: \$300,000

County: Jefferson, Indiana

Number of Vehicles: 33

Estimated GGE saved per year: 87,714

Project Description: Tri County Transportation is purchasing 33 propane school buses.

Awardee: United Parcel Service, Inc.

Project: CNG Vehicles Horsham

Award Total: \$300,000

County: Montgomery

Number of Vehicles: 35

Estimated GGE saved per year: 42,000

Project Description: UPS is purchasing 35 CNG vehicles based at their Horsham facility to expand their last-mile delivery fleet. These vehicles will utilize RNG.

Awardee: United Parcel Service, Inc.

Project: UPS CNG Vehicles New Stanton

Award Total: \$300,000

County: Westmoreland

Number of Vehicles: 35

Estimated GGE saved per year: 42,000

Project Description: UPS is purchasing 35 CNG vehicles based at their New Stanton facility to expand their last-mile delivery fleet. These vehicles will utilize RNG.

Awardee: Waste Management of Pennsylvania, Inc.

Project: RNG Vehicle Deployment Project

Award Total: \$200,000

County: Lackawanna, Montgomery, Bucks

Number of Vehicles: 8

Estimated GGE saved per year: 64,000

Project Description: Waste Management is purchasing eight (8) CNG waste vehicles. These vehicles will utilize RNG.

2020 Refueling Infrastructure Projects

Awardee: Albright College

Project: Alternative Fueling Program

Award Total: \$96,708

County: Berks

Project Description: Albright College is installing two (2) solar-powered Level 2 EV charging stations that will be utilized by the EVs they are purchasing with their Vehicle Retrofit and/or Purchase grant award.

Awardee: County of Delaware

Project: Electric Vehicle Supply Equipment Initiative

Award Total: \$35,740

County: Delaware

Project Description: The County of Delaware is installing six (6) Level 2 Electric Vehicle refueling stations that will be utilized by the fleet vehicles purchased by their Vehicle Retrofit and/or Purchase grant award.

Awardee: Northwestern Rural Electric Cooperative Association

Project: Country Fair 5985 Rte 6N

Award Total: \$149,849

County: Erie

Project Description: The Northwestern Rural Electric Cooperative Association is installing two (2) DC Fast Charger Electric Vehicle chargers that will have full public access.

Awardee: Wilson School District

Project: Propane Infrastructure Initiative

Award Total: \$197,500

County: Berks

Project Description: Wilson School District is installing a propane fueling station that will service their school bus fleet.

2020 Innovative Technology Project:

Awardee: Ingevity Corporation

Project: Ingevity RNG Light Truck Demonstration with Adsorbed Natural Gas Technology

Award Total: \$256,745

County: Philadelphia, Washington, Lancaster, Allegheny, Erie

Project Description: The project will equip eight (8) Pennsylvania-based fleets with adsorbed natural gas (ANG) technology, provide renewable natural gas (RNG) fuel, and install private refueling infrastructure at each fleet's location. Ingevity will demonstrate the technology using 28 natural gas vehicle bi-fuel conversions on Ford F-250 trucks with 28 FMQ ANG fueling appliances with project partners across Pennsylvania.



pennsylvania

DEPARTMENT OF ENVIRONMENTAL
PROTECTION

COMMONWEALTH OF PENNSYLVANIA
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ENERGY PROGRAMS OFFICE

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