



Alternative Fuel Vehicle (AFV) Rebate Program - PADEP



AFV Rebate Program History

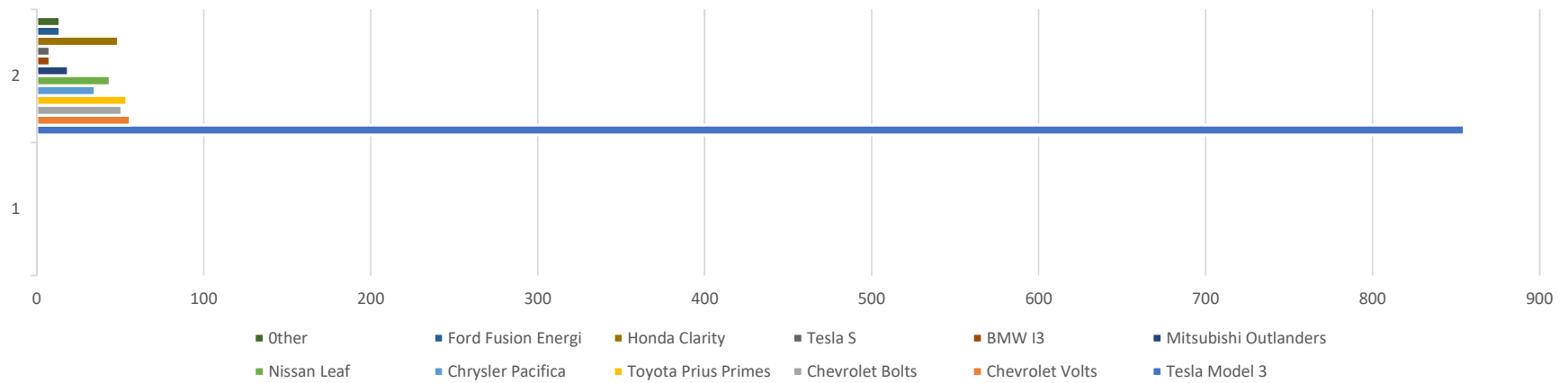
- Through the Alternative Fuel Vehicle (AFV) rebate program, The Department of Environmental Protection (DEP) offers an opportunity to Pennsylvania residents to apply for a rebate when they purchase a new, leased, or one-time preowned alternative fuel vehicle (AFV).
- The program was established under ACT 178 of 2004 to help reduce Pennsylvania's dependence on imported oil and to improve the environmental quality by using alternative fuels.
- From September 1, 2011 to February 28, 2019; approximately 4750 rebates for Battery Electric Vehicles (BEV) and Plug-in Hybrid Electric Vehicles (PHEV) have been granted, totaling over \$6.2 million dollars.



Types of AFV Rebates

- An alternative fuel vehicle (AFV) must be a new or leased vehicle purchased by PA residents and registered in PA to be eligible for a rebate. (Price capped at \$60,000)
- A one-time preowned alternative fuel vehicles with 75,000 miles or less with a true market value of \$50,000 or less are eligible for a rebate. Purchase must be through a registered dealer. (No private sales allowed)
- Low income eligibility. New (purchased or leased) and used AFVs are eligible for an additional \$500 rebate if applicant's household income is below the 200 percent Federal Income poverty level.
- Current rebate amounts:
 - **\$2,000** rebate for a plug in hybrid electric vehicle (PHEV) or Battery Electric Vehicle (BEV) (battery system capacity must be equal to or greater than 85kWh).
 - **\$1,750** rebate for a PHEV and BEV (battery system capacity equal/greater than 30 kWh and less than 85 kWh).
 - **\$1000** rebate for a PHEV or BEV (battery system capacity equal/greater than 10 kWh and less than 30 kWh).
 - **\$750** rebate for a PHEV or EV (battery system capacity less than 10 kWh)

Types of AFV Rebates

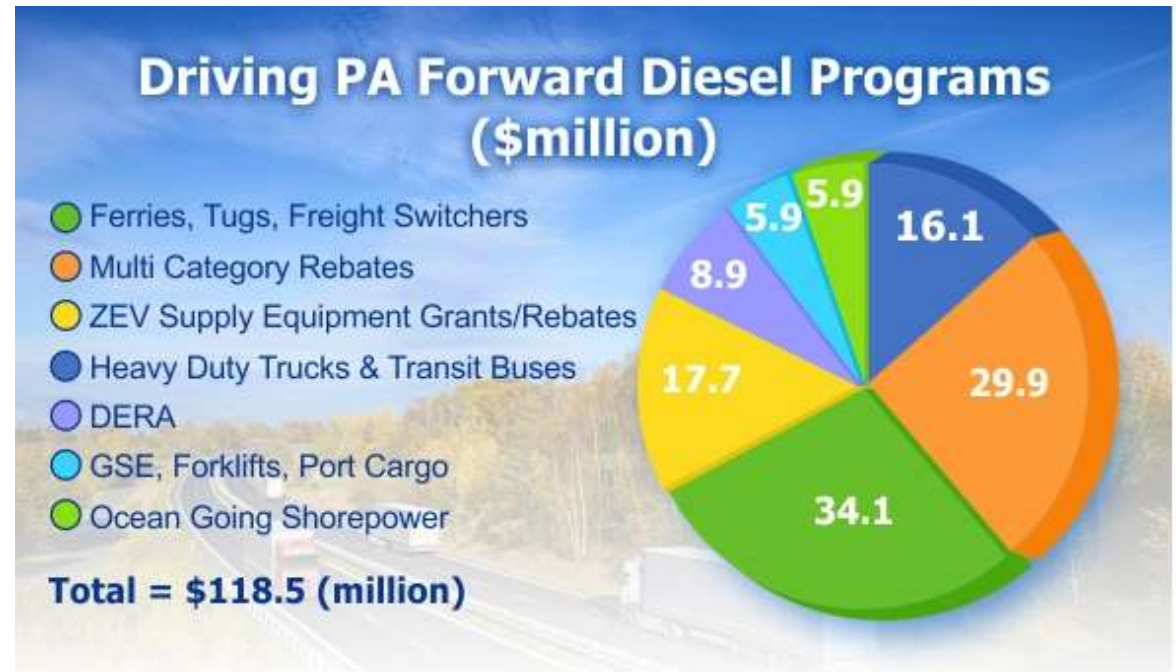


- From July 2018 to present, \$1.7 million spent on rebates
- 70% have been Tesla Model 3



Driving PA Forward

- Over \$118M from Volkswagen Trust
- Beneficiary Mitigation Plan – PA’s strategy to achieve NOx reduction via transportation sector projects
- 8 funding programs, including 2 for ZEV infrastructure
 - Level 2 chargers
 - DC Fast Chargers/H₂



Level 2 EV Charging Rebates

- \$3,000,000 available for Level 2 EV charging projects located at:
 - Public spaces
 - Work places
 - Multi-unit residential buildings
- Application period thru 3/31/19
- Minor modifications for 4/1/19 thru 12/31/19
- Voucher system – must apply prior to project installation
- First come, first served
- Voucher issued for accepted projects – valid 180 days

Level 2 EV Charging Rebates

- Duration 5.5 months
- Rebate vouchers awarded 85
- Total plugs 258

Number of Plugs/Parking Spaces in a Project	Projects
2	52
3	1
4	24
5	1
6	4
8	2
10	1

Level 2 EV Charging Rebates

- Project types:
 - Public places 55
 - Workplaces 22
 - Multi-unit residential 8
- Gov. / Non-Gov. 40 / 45
- Networked / Non-networked 43 / 42

Level 2 EV Charging Rebates

Level 2 EV Charging Rebates

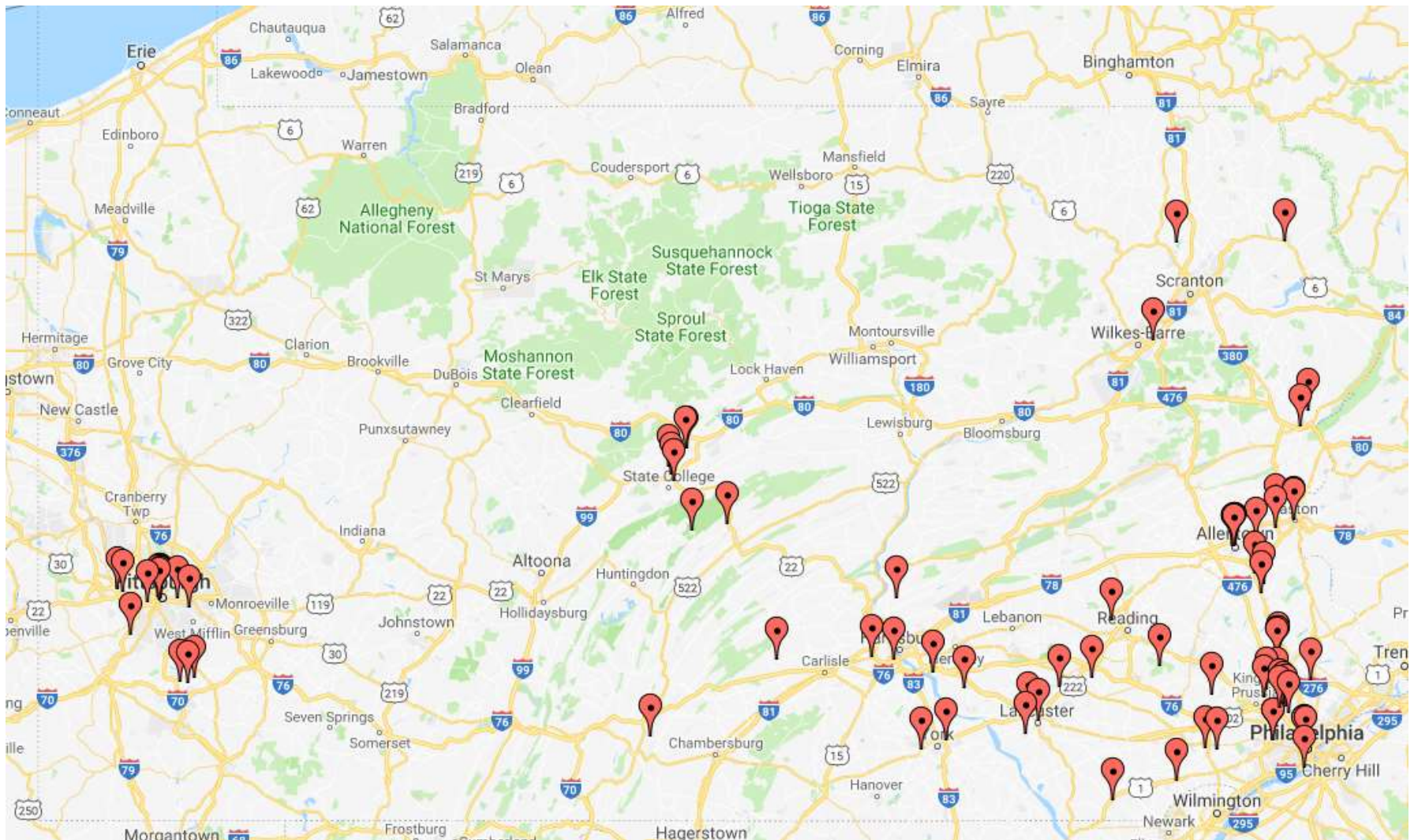
Electric Utilities

EDC	Number of Projects	Number of Plugs	Amount in Rebates
PPL	25	82	\$338,387
PECO	25	68	\$296,185
DLC	11	48	\$201,409
West Penn	9	24	\$61,976
Met-Ed	7	20	\$89,045
Penelec	3	6	\$26,884
Municipal	5	10	\$42,815

Level 2 EV Charging Rebates

EVSE Brand	Number of Projects	Number of Plugs
ChargePoint	50	174
ClipperCreek	13	38
Bosch	5	10
BTC Power	5	10
Leviton	3	6
SemaConnect	3	6
Siemens	2	4
EVSE LLC	1	4
EVBox	1	2
EVMeter	1	2
Solar Edge	1	2

Approved Level 2 EV Charger Project Locations



DCFC and Hydrogen Fueling Grant

- \$3,000,000 available for DCFC and H₂ fueling projects
 - Corridors
 - Community hubs
 - Destinations
- 3 application periods in 2019
- Received 13 applications as of 1/15 (next is 7/15)
 - All DCFC (no H₂)
 - \$3.5 million requested
 - Avg. request \$266k
 - Selection process ongoing



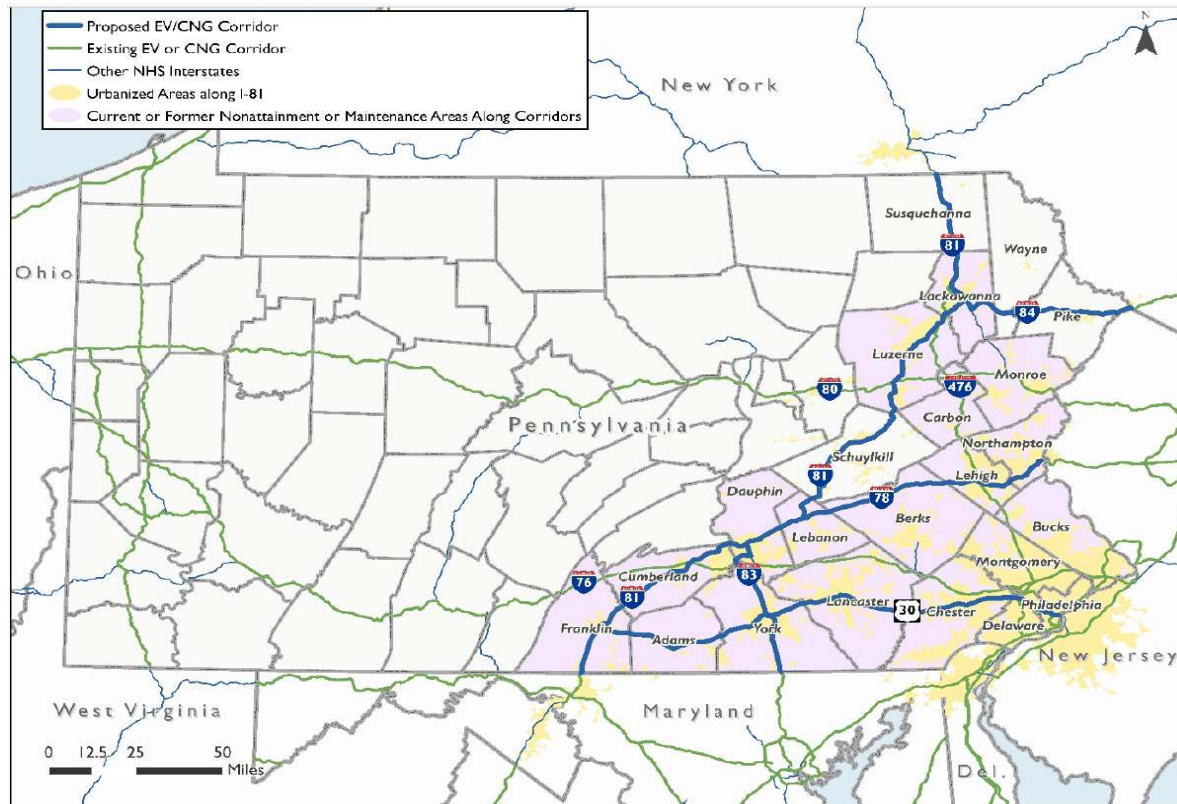
FAST Act Designations – Alt Fuel Corridors



FHWA Fueling Station Criteria



Fuel/Technology	Corridor-Ready ^b NHS Segment has...	Corridor-Pending ^c NHS Segment has...
EV Charging ^d	Public DC Fast Charging no greater than 50 miles between one station and the next on corridor, and no greater than 5 miles off the highway	Public DC Fast Charging chargers separated by more than 50 miles
Hydrogen ^e	Public hydrogen stations no greater than 100 miles between one station and the next on the corridor, and no greater than 5 miles off the highway	Public hydrogen stations separated by more than 100 miles
Propane ^f	Public, primary propane stations no greater than 150 miles between one station and the next on the corridor, and no greater than 5 miles off the highway	Public, primary propane stations separated by more than 150 miles
CNG	Public fast fill, 3,600 psi CNG stations no greater than 150 miles between one station and the next on the corridor, and no greater than 5 miles off the highway	Public, fast fill, 3,600 psi CNG stations separated by more than 150 miles
LNG	Public LNG stations no greater than 200 miles between one station and the next on the corridor, and no greater than 5 miles off the highway	Public LNG stations separated by more than 200 miles

Proposed and Existing Corridors



Nominated Alt Fuel Corridors

TABLE 1: Proposed Designations by Fuel Type

Highway	Length	Limits		
			EV Designation	CNG Designation
I-81	233 miles	Entire length in PA between the MD and NY state lines.	"Corridor-Pending"	"Corridor-Ready"
I-83	51 miles	Entire length in PA between the MD state line and I-81 in Dauphin County.	"Corridor-Ready"	"Corridor-Ready"
I-78	77 miles	Entire length in PA between I-81 in Lebanon County and the NJ state line.	"Corridor-Pending"	"Corridor-Ready"
I-84	55 miles	Entire length in PA between I-81 in Lackawanna County and the NY state line.	"Corridor-Pending"	"Corridor-Pending"
US-30 / I-676	146 miles	From I-81 in Franklin County to the NJ state line at Delaware River.	"Corridor-Ready"	"Corridor-Ready"

Signage



Upcoming DEPA Meetings

SAVE THE DATE:

- Monday, July 22, 2019; 10AM – 2PM
Delaware Valley Regional Planning Commission
190 North Independence Mall West, Philadelphia, PA 19106
- Thursday, November 21, 2019; 10AM – 2PM
Pennsylvania Turnpike Commission Headquarters
700 S. Eisenhower Blvd., Middletown, PA 17057