

2019 Transportation Technology Deployment Report:

Greater Washington Region Clean Cities
Coalition

Expanded Edition

March 2020



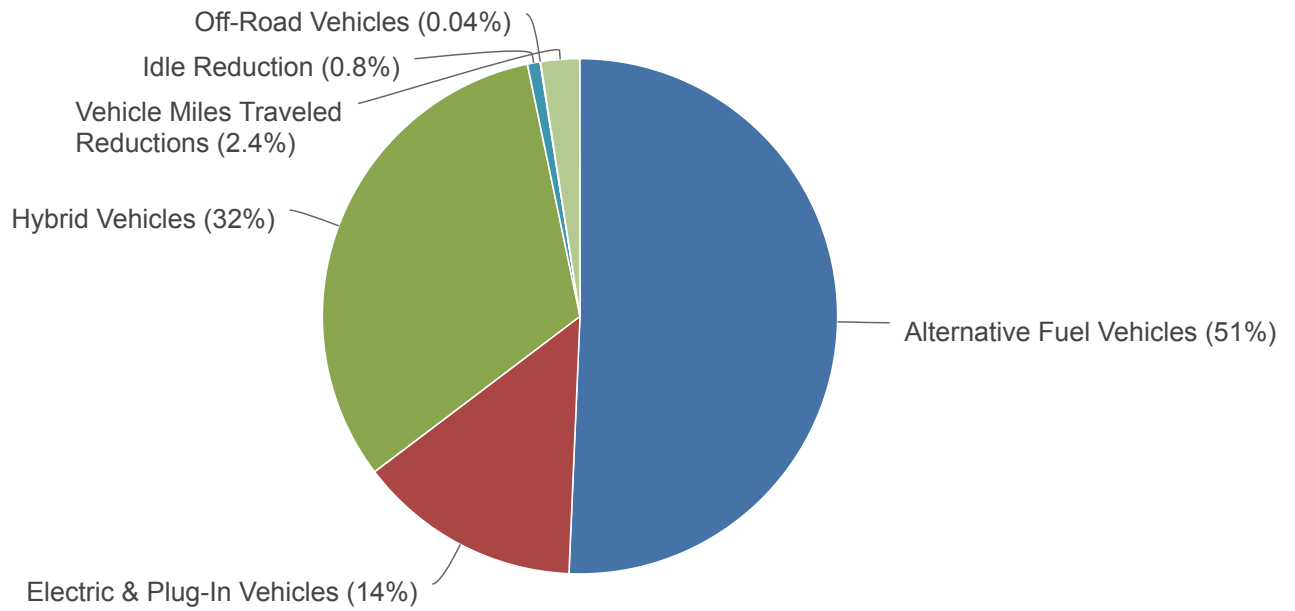
The U.S. Department of Energy's (DOE) Clean Cities program advances the nation's economic, environmental, and energy security by supporting local actions to reduce petroleum use in transportation. A national network of nearly 100 Clean Cities coalitions brings together stakeholders in the public and private sectors to deploy alternative and renewable fuels, idle-reduction measures, fuel economy improvements, and new transportation technologies, as they emerge.

Every year, each Clean Cities coalition submits to DOE an annual report of its activities and accomplishments for the previous calendar year. Coalition coordinators, who lead the local coalitions, provide information and data via an online database managed by the National Renewable Energy Laboratory (NREL). The data characterize membership, funding, projects, and activities of the coalitions. The coordinators also submit data on the sales of alternative fuels, deployment of alternative fuel vehicles and hybrid electric vehicles, idle-reduction initiatives, fuel economy activities, and programs to reduce vehicle miles traveled. NREL and DOE analyze the data and translate them into petroleum-use and greenhouse gas reduction impacts for individual coalitions and the program as a whole. This report summarizes those impacts for .

To view aggregated data for all local coalitions that participate in the Clean Cities program, visit cleancities.energy.gov/accomplishments.

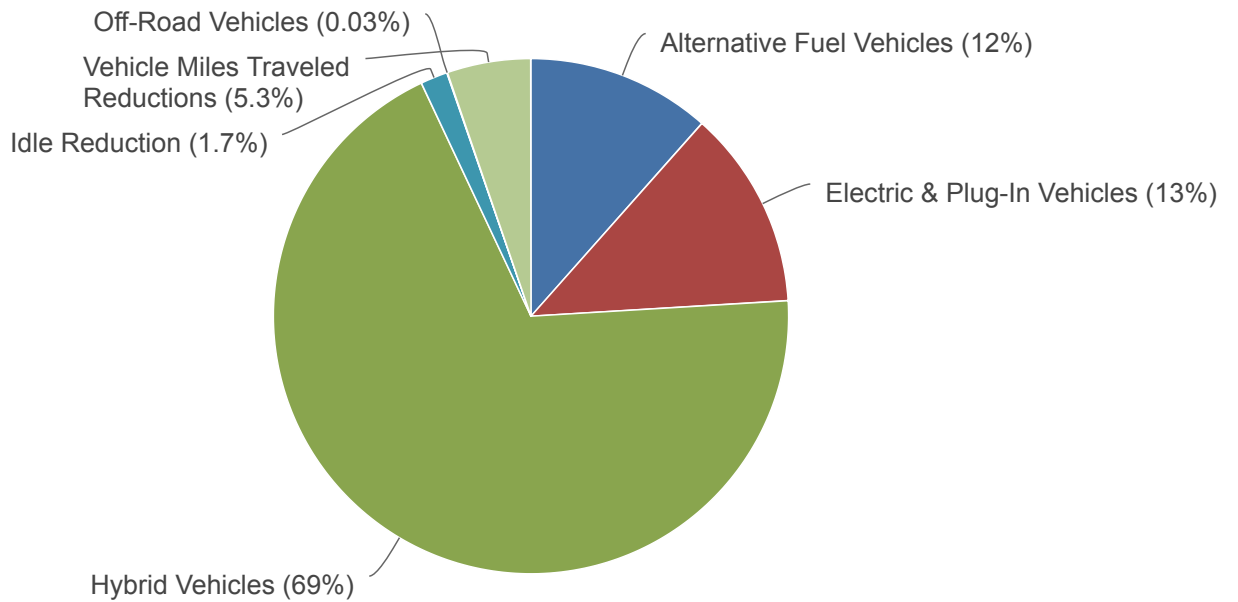
2019 Gallons of Gasoline Equivalent Reduced

16,377,298 gallons

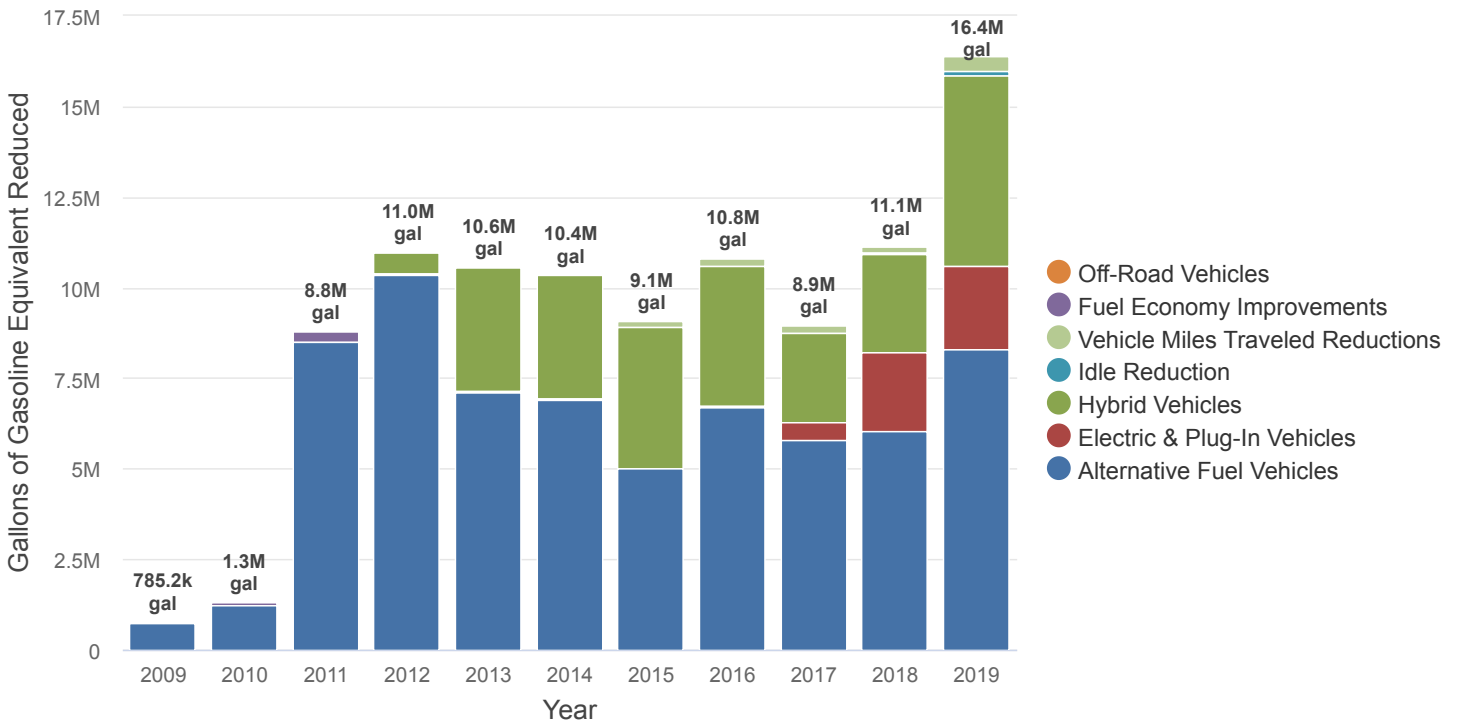


2019 Greenhouse Gas Emissions Reduced

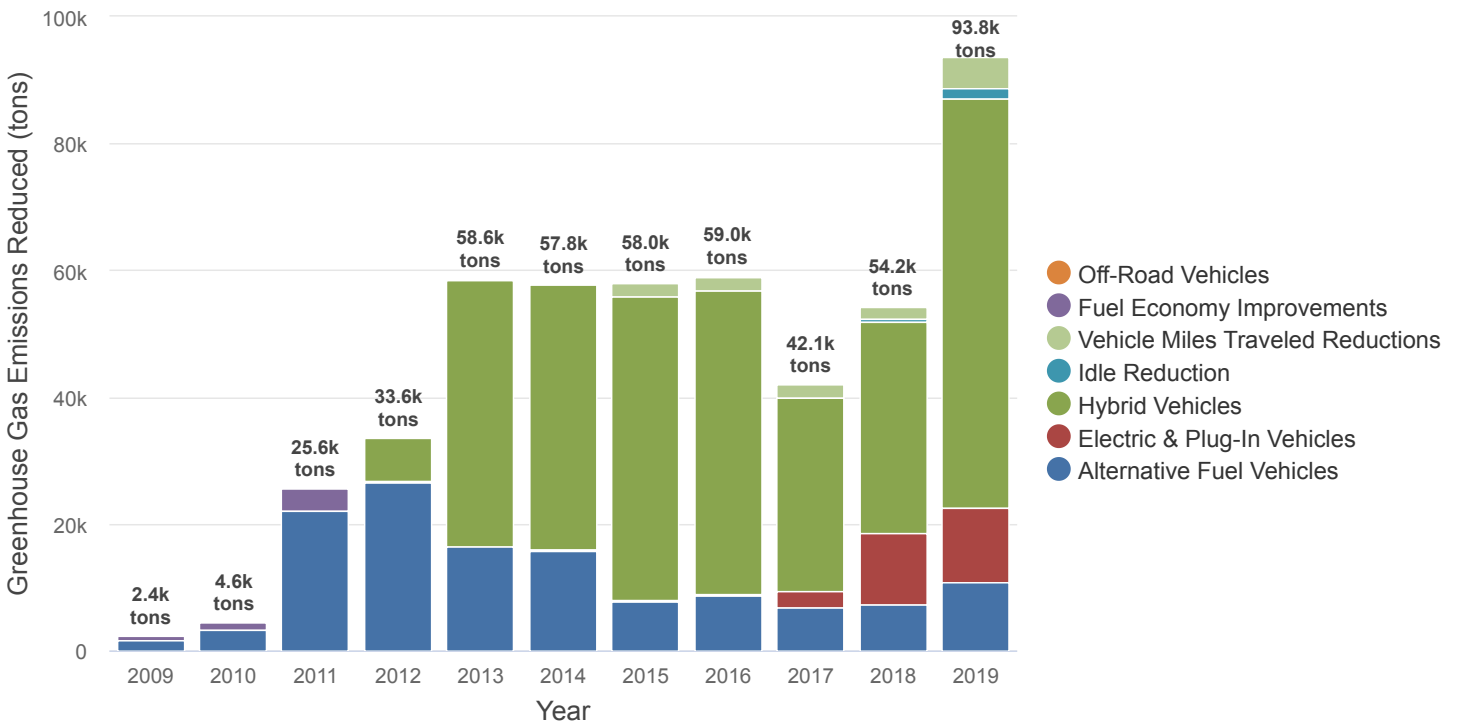
93,756 tons



Historical Gallons of Gasoline Equivalent Reduced

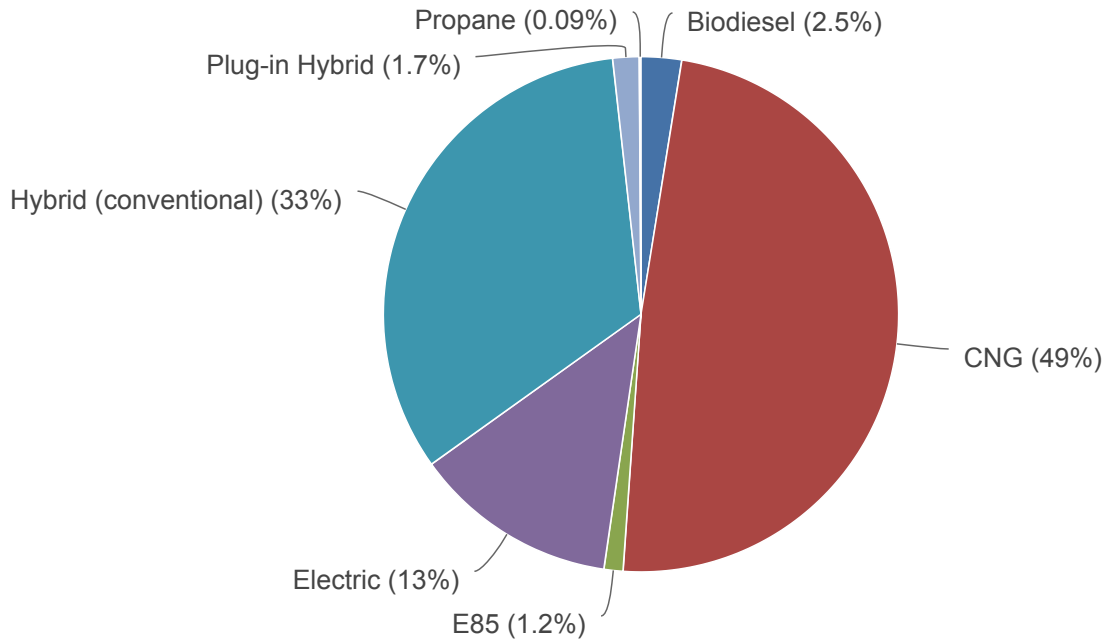


Historical Greenhouse Gas Emissions Reduced



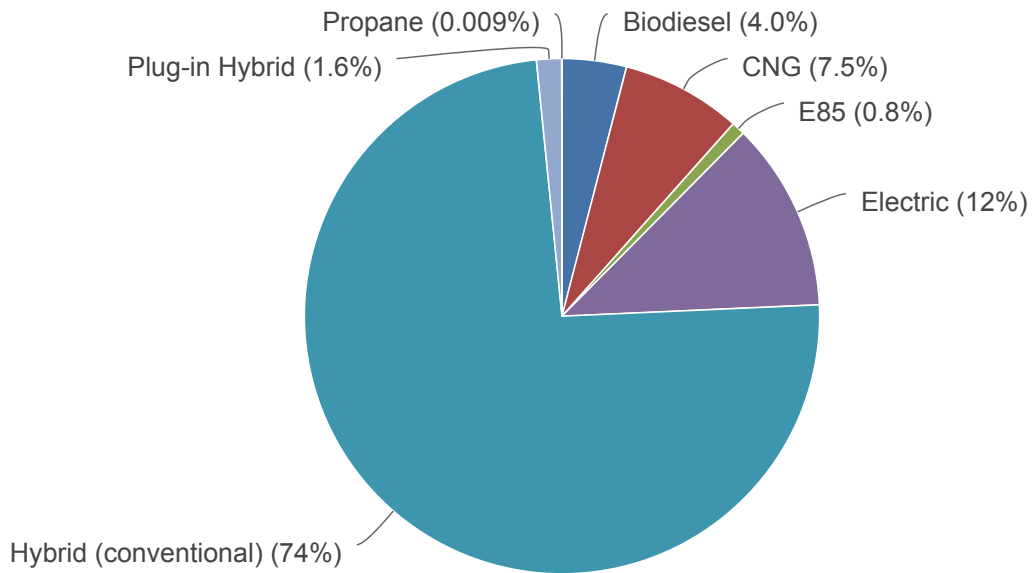
2019 Gallons of Gasoline Equivalent Reduced by Fuel Type for Alternative Fuel Projects

15,848,075 gallons



2019 Greenhouse Gas Emissions Reduced by Fuel Type for Alternative Fuel Projects

87,227 tons



Criteria Pollutant Emissions Reduced

Criteria pollutants are chemicals that have been linked to human health effects and therefore regulated in the Clean Air Act of 1970. Criteria pollutants include nitrogen oxides (NOx) and volatile organic compounds (VOC), both precursors to ozone pollution or smog. They also include particulate matter (PM) grouped into 10 and 2.5 micron sizes. The Clean Cities annual report calculates them using the same assumptions and default values as AFLEET 2016, with some adjustments to fit specific data inputs. They are quantified at vehicle tailpipes, as those are the emissions contributing to the regulated "ambient" air quality of a given city. Upstream emissions from electric power plants, refineries, and biofuel feedstock farms are not included in this summary since those operations typically do not take place in or near population centers where the vehicles are operated and health effects can be documented. When a specific pollutant surpasses a given threshold for a given area, the area is considered to be in "nonattainment" for that pollutant. Nonattainment areas for given pollutants can be viewed at www.epa.gov/green-book. Carbon Monoxide benefits are not included since no Clean Cities coalitions are in nonattainment areas for CO. To learn more about what your emissions numbers mean, please take the Understanding Emissions or Emissions Compliance courses at [Clean Cities University](http://CleanCitiesUniversity.com).

Reductions by Technology*	NOx	VOC**	PM10	PM2.5
CNG - Compressed Natural Gas	187,513 lb	217 lb	3 lb	2 lb
E85 - 85% Ethanol	0 lb	39 lb	0 lb	0 lb
Electric (all-electric)	12,760 lb	12,419 lb	376 lb	348 lb
Hybrid (conventional)	469 lb	183 lb	1 lb	1 lb
Plug-in Hybrid	1,907 lb	2,931 lb	84 lb	78 lb
Propane	715 lb	-39 lb	4 lb	1 lb
VMT Reduction (Gasoline)	1,778 lb	2,842 lb	713 lb	156 lb
Total:	205,143 lb	18,592 lb	1,182 lb	586 lb

* This table accounts for criteria pollutants from alternative fuel vehicle, hybrid vehicle, and VMT reduction projects only. It does not include fuel economy, idle reduction, or off-road projects. Negative values indicate an increase in emissions.

** VOC is interchangeable with NMOG (non-methane organic gases) and NMHC (non-methane hydrocarbons) for all purposes relevant to the Clean Cities suite of technologies.

COALITION

Greater Washington Region Clean Cities Coalition - DC

<http://www.gwrccc.org>

Designated: 10/21/1993

Boundaries: District of Columbia; includes Alexandria, VA; Arlington County, VA; City of Fairfax, VA; Fairfax County, VA; Falls Church, VA; Loudoun County, VA; City of Manassas, City of Manassas Park, Prince William County, VA. Works cooperatively with bordering coalitions in Virginia and Maryland.

COORDINATORS

	Address	Telephone	Fax
Ira Dorfman	2000 14th St, NW, Ste 330 P.O. Box 73402, 20056-3402 Washington, DC 20009	202-255-6050	

Number of coordinators	1
Coordinator(s) hours per week on Clean Cities	40 hours
Other staff hours per week on Clean Cities	20 hours
How long have you been the coordinator?	3 years

OPERATING INFORMATION

Coalition organizational structure Standalone nonprofit (self-managed)

Stakeholders

Number of stakeholders	60
Number of private stakeholders	18
Does the State Energy Office provide any financial support to the coalition or stakeholders?	No
How would you rate the quality of the data on your survey?	Fair
How do you obtain most of your data for the survey?	Online questionnaire to stakeholders (SurveyMonkey, Google Forms, etc)
Has your coalition registered with www.grants.gov ?	Yes

2019 Outside Funding

Stakeholder dues collected	\$21,882
How much funding is obtained from other sources to cover coalition operating expenses?	\$21,487
Non-DOE or ARRA grant and matching funds spent in 2019	\$5,000
Total non-DOE or ARRA funding in 2019	\$48,369

VEHICLE & FUEL INVENTORY

Alternative Fuel & Vehicles

Fleet/Station Name	Vehicle Class	Fuel	Number of Vehicles	Fuel Used	GGE Reduced	GHG Reduced
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Fleet/Station Name	Vehicle Class	Fuel	Number of Vehicles	Fuel Used	GGE Reduced	GHG Reduced
American University	Heavy-Duty	Biodiesel (20%)	11	46,000 gal	9,807 gal	85.9 tons
Market: General/Unknown Vehicle type: Bus: Transit Percentage from coalition: 100% National Clean Fleets Partnership: No						
Arlington County, VA	Heavy-Duty	Biodiesel (20%)	285	100% of time	50,168 gal	439.3 tons
Miles traveled per vehicle: 14,318 mi Average vehicle fuel economy: 18 MPG Market: Government - Local Vehicle type: Truck: No Trailer Percentage from coalition: 100% National Clean Fleets Partnership: No						
Arlington County, VA	Light-Duty	E85 (blender pump)	1	100% of time	149 gal	0.6 tons
Miles traveled per vehicle: 4,500 mi Average vehicle fuel economy: 18 MPG Market: Government - Local Vehicle type: Pickup/SUV/Van Percentage from coalition: 100% National Clean Fleets Partnership: No						
Arlington Regional Transit (ART)	Heavy-Duty	CNG	51	100% of time	403,293 gal	339.6 tons
Miles traveled per vehicle: 35,734 mi Average vehicle fuel economy: 5 MPGde Market: Government - Local Vehicle type: Bus: Transit Percentage from coalition: 100% National Clean Fleets Partnership: No						
Arlington Regional Transit (ART)	Heavy-Duty	CNG	14	100% of time	46,472 gal	39.1 tons
Miles traveled per vehicle: 30,000 mi Average vehicle fuel economy: 10 MPGde Market: Government - Local Vehicle type: Bus: Shuttle Percentage from coalition: 100% National Clean Fleets Partnership: No						
DC Water	Heavy-Duty	Biodiesel (20%)	172	205,331 gal	32,832 gal	287.5 tons
Market: Utility Vehicle type: Truck: No Trailer Percentage from coalition: 75% National Clean Fleets Partnership: No						
DC Water	Light-Duty	CNG	5	6,731 GGE	4,796 gal	6.2 tons
Market: Utility Vehicle type: Pickup/SUV/Van Percentage from coalition: 75% National Clean Fleets Partnership: No						
DC Water	Light-Duty	E85 (blender pump)	140	112,386 gal	48,719 gal	190.1 tons
Market: Utility Vehicle type: Unknown/Other Percentage from coalition: 75% National Clean Fleets Partnership: No						

Fleet/Station Name	Vehicle Class	Fuel	Number of Vehicles	Fuel Used	GGE Reduced	GHG Reduced
District of Columbia	Heavy-Duty	Biodiesel (20%)	754	1,047,209 gal	167,449 gal	1,466.3 tons
Market: Government - State Vehicle type: Truck: No Trailer Percentage from coalition: 75% National Clean Fleets Partnership: No						
District of Columbia	Light-Duty	CNG	102	49,519 GGE	35,282 gal	45.7 tons
Market: Government - State Vehicle type: Pickup/SUV/Van Percentage from coalition: 75% National Clean Fleets Partnership: No						
District of Columbia	Light-Duty	E85	597	273,959 gal	118,761 gal	463.3 tons
Market: Government - State Vehicle type: Pickup/SUV/Van Percentage from coalition: 75% National Clean Fleets Partnership: No						
Montgomery County, MD Ride-On	Heavy-Duty	CNG	134	1,539,835 GGE	1,385,852 gal	1,166.9 tons
Market: Government - Local Vehicle type: Bus: Transit Percentage from coalition: 100% National Clean Fleets Partnership: No						
National Mall & Memorial Parks	Light-Duty	E85 (blender pump)	26	100% of time	3,218 gal	12.6 tons
Miles traveled per vehicle: 4,700 mi Average vehicle fuel economy: 17 MPG Market: National Parks Vehicle type: Car Percentage from coalition: 75% National Clean Fleets Partnership: No						
National Mall & Memorial Parks	Light-Duty	E85 (blender pump)	5	100% of time	658 gal	2.6 tons
Miles traveled per vehicle: 5,000 mi Average vehicle fuel economy: 17 MPG Market: National Parks Vehicle type: Car Percentage from coalition: 75% National Clean Fleets Partnership: No						
Pepco	Heavy-Duty	Biodiesel (20%)	422	1,280,989 gal	136,553 gal	1,195.8 tons
Market: Utility Vehicle type: Truck: No Trailer Percentage from coalition: 50% National Clean Fleets Partnership: No						
Prince George's County, MD	Heavy-Duty	Propane	11	100% of time	2,249 gal	0.9 tons
Miles traveled per vehicle: 4,250 mi Average vehicle fuel economy: 23 MPGde Market: Government - Local Vehicle type: Bus: Shuttle Percentage from coalition: 100% National Clean Fleets Partnership: No						
Prince George's County, MD	Light-Duty	Propane	15	100% of time	2,307 gal	3.3 tons

Fleet/Station Name	Vehicle Class	Fuel	Number of Vehicles	Fuel Used	GGE Reduced	GHG Reduced
Miles traveled per vehicle: 3,538 mi Average vehicle fuel economy: 23 MPGge Market: Government - Local Vehicle type: Pickup/SUV/Van Percentage from coalition: 100% National Clean Fleets Partnership: No						
Schwan's - Medium-duty Propane	Heavy-Duty	Propane	3	12,843 gal	8,750 gal	3.4 tons
Market: Corporate Fleet Vehicle type: Truck: No Trailer Percentage from coalition: 100% National Clean Fleets Partnership: Yes <i>Includes 2 Light HD Class 3 vehicles.</i>						
Smithsonian	Heavy-Duty	Biodiesel (20%)	21	15,001 gal	3,198 gal	28.0 tons
Market: General/Unknown Vehicle type: Truck: No Trailer Percentage from coalition: 100% National Clean Fleets Partnership: No						
Smithsonian	Light-Duty	CNG	2	100% of time	400 gal	0.5 tons
Miles traveled per vehicle: 3,000 mi Average vehicle fuel economy: 15 MPGge Market: General/Unknown Vehicle type: Pickup/SUV/Van Percentage from coalition: 100% National Clean Fleets Partnership: No						
Smithsonian	Light-Duty	E85 (blender pump)	138	20,658 gal	11,940 gal	46.6 tons
Market: General/Unknown Vehicle type: Pickup/SUV/Van Percentage from coalition: 100% National Clean Fleets Partnership: No						
Unity Disposal & Recycling LLC	Heavy-Duty	CNG	10	100% of time	47,947 gal	40.4 tons
Miles traveled per vehicle: 13,000 mi Average vehicle fuel economy: 3 MPGde Market: General/Unknown Vehicle type: Truck: Refuse Percentage from coalition: 100% National Clean Fleets Partnership: No						
Washington Gas	Heavy-Duty	CNG	1	100% of time	553 gal	0.5 tons
Miles traveled per vehicle: 6,000 mi Average vehicle fuel economy: 9 MPGde Market: Utility Vehicle type: Truck: No Trailer Percentage from coalition: 75% National Clean Fleets Partnership: No						
Washington Gas	Light-Duty	CNG	288	100% of time	185,143 gal	239.9 tons
Miles traveled per vehicle: 12,000 mi Average vehicle fuel economy: 14 MPGge Market: Utility Vehicle type: Pickup/SUV/Van Percentage from coalition: 75% National Clean Fleets Partnership: No						
Washington Sanitary Sewer Commission (WSSC)	Light-Duty	E85	530	26,317 gal	3,803 gal	14.8 tons

Fleet/Station Name	Vehicle Class	Fuel	Number of Vehicles	Fuel Used	GGE Reduced	GHG Reduced
Market: Utility Vehicle type: Pickup/SUV/Van Percentage from coalition: 25% National Clean Fleets Partnership: No						
Washington Sanitary Sewer Commission (WSSC)	Light-Duty	E85	36	746 gal	108 gal	0.4 tons
Market: Utility Vehicle type: Car Percentage from coalition: 25% National Clean Fleets Partnership: No						
Washington Sanitary Sewer Commission (WSSC)	Light-Duty	E85	31	2,550 gal	368 gal	1.4 tons
Market: Utility Vehicle type: Patrol Car Percentage from coalition: 25% National Clean Fleets Partnership: No						
WMATA	Heavy-Duty	CNG	433	100% of time	5,589,513 gal	4,706.4 tons
Miles traveled per vehicle: 35,000 mi Average vehicle fuel economy: 3 MPGde Market: Commuters Vehicle type: Bus: Transit Percentage from coalition: 100% National Clean Fleets Partnership: No						
Total:			4,238		8,300,291 gal	10,828 tons

Electric, Hybrid & Plug-in Vehicles

Fleet/Station Name	Vehicle Class	Fuel	Number of Vehicles	GGE Reduced	GHG Reduced
American University	Light-Duty	Electric	10	826 gal	4.3 tons
Average electric fuel economy: 30 kWh/100mi Miles traveled per vehicle per year: 1,900 mi Market: General/Unknown Vehicle type: Car Percentage from coalition: 100% National Clean Fleets Partnership: No Workplace Charging Challenge: - <i>Public access at East campus garage</i>					
American University	Light-Duty	HEV	1	27 gal	0.3 tons
Average vehicle fuel economy: 29 MPG Miles traveled per vehicle per year: 3,000 mi Market: General/Unknown Vehicle type: Car Percentage from coalition: 100% National Clean Fleets Partnership: No Workplace Charging Challenge: -					
American University	Light-Duty	PHEV	1	28 gal	0.1 tons
Average vehicle fuel economy: 31 MPG Miles traveled per vehicle per year: 2,500 mi Market: General/Unknown Vehicle type: Car Percentage from coalition: 100% National Clean Fleets Partnership: No Workplace Charging Challenge: -					
Arlington County Police, VA	Light-Duty	HEV	5	3,722 gal	45.8 tons

Fleet/Station Name	Vehicle Class	Fuel	Number of Vehicles	GGE Reduced	GHG Reduced
<p>Average vehicle fuel economy: 27 MPG Miles traveled per vehicle per year: 13,818 mi Market: Government - Local Vehicle type: Patrol Car Percentage from coalition: 100% National Clean Fleets Partnership: No Workplace Charging Challenge: -</p>					
Arlington County Police, VA	Light-Duty	HEV	14	11,541 gal	142.2 tons
<p>Average vehicle fuel economy: 32 MPG Miles traveled per vehicle per year: 13,818 mi Market: Government - Local Vehicle type: Patrol Car Percentage from coalition: 100% National Clean Fleets Partnership: No Workplace Charging Challenge: -</p>					
Arlington County, VA	Light-Duty	Electric	8	1,551 gal	8.1 tons
<p>Average electric fuel economy: 30 kWh/100mi Miles traveled per vehicle per year: 4,460 mi Market: Government - Local Vehicle type: Car Percentage from coalition: 100% National Clean Fleets Partnership: No Workplace Charging Challenge: -</p>					
Arlington County, VA	Light-Duty	HEV	30	3,640 gal	44.8 tons
<p>Average vehicle fuel economy: 32 MPG Miles traveled per vehicle per year: 4,400 mi Market: Government - Local Vehicle type: Pickup/SUV/Van Percentage from coalition: 100% National Clean Fleets Partnership: No Workplace Charging Challenge: -</p>					
Arlington County, VA	Light-Duty	HEV	32	2,769 gal	34.1 tons
<p>Average vehicle fuel economy: 42 MPG Miles traveled per vehicle per year: 4,400 mi Market: Government - Local Vehicle type: Car Percentage from coalition: 100% National Clean Fleets Partnership: No Workplace Charging Challenge: -</p>					
Arlington County, VA	Light-Duty	HEV	38	3,926 gal	48.4 tons
<p>Average vehicle fuel economy: 50 MPG Miles traveled per vehicle per year: 4,400 mi Market: Government - Local Vehicle type: Car Percentage from coalition: 100% National Clean Fleets Partnership: No Workplace Charging Challenge: -</p>					
Arlington County, VA	Light-Duty	HEV	5	345 gal	4.3 tons
<p>Average vehicle fuel economy: 36 MPG Miles traveled per vehicle per year: 4,400 mi Market: Government - Local Vehicle type: Car Percentage from coalition: 100% National Clean Fleets Partnership: No Workplace Charging Challenge: -</p>					
Arlington County, VA	Light-Duty	PHEV	1	141 gal	0.7 tons

Fleet/Station Name	Vehicle Class	Fuel	Number of Vehicles	GGE Reduced	GHG Reduced
<p>Average vehicle fuel economy: 88 MPG Miles traveled per vehicle per year: 4,400 mi Market: Government - Local Vehicle type: Car Percentage from coalition: 100% National Clean Fleets Partnership: No Workplace Charging Challenge: -</p>					
City of Manassas, VA	Light-Duty	HEV	4	368 gal	4.5 tons
<p>Average vehicle fuel economy: 44 MPG Miles traveled per vehicle per year: 4,747 mi Market: Government - Local Vehicle type: Car Percentage from coalition: 100% National Clean Fleets Partnership: No Workplace Charging Challenge: -</p>					
City of Manassas, VA	Light-Duty	HEV	3	108 gal	1.3 tons
<p>Average vehicle fuel economy: 24 MPG Miles traveled per vehicle per year: 4,154 mi Market: Government - Local Vehicle type: Pickup/SUV/Van Percentage from coalition: 100% National Clean Fleets Partnership: No Workplace Charging Challenge: -</p>					
City of Manassas, VA	Light-Duty	PHEV	1	93 gal	0.5 tons
<p>Average vehicle fuel economy: 54 MPG Miles traveled per vehicle per year: 3,962 mi Market: Government - Local Vehicle type: Car Percentage from coalition: 100% National Clean Fleets Partnership: No Workplace Charging Challenge: -</p>					
DC Circulator Bus	Heavy-Duty	Electric	14	149,072 gal	596.9 tons
<p>Electricity used: 1,350,656 kWh Market: Government - Local Vehicle type: Bus: Transit Percentage from coalition: 100% National Clean Fleets Partnership: No Workplace Charging Challenge: -</p>					
DC Department of Hired Vehicles - taxi fleet	Light-Duty	Electric	108	1,838,799 gal	9,557.2 tons
<p>Average electric fuel economy: 30 kWh/100mi Miles traveled per vehicle per year: 391,596 mi Market: Taxis Vehicle type: Car Percentage from coalition: 100% National Clean Fleets Partnership: No Workplace Charging Challenge: -</p>					
DC Department of Hired Vehicles - taxi fleet	Light-Duty	PHEV	48	245,777 gal	1,277.4 tons
<p>Average vehicle fuel economy: 55 MPG Miles traveled per vehicle per year: 202,414 mi Market: Taxis Vehicle type: Car Percentage from coalition: 100% National Clean Fleets Partnership: No Workplace Charging Challenge: -</p>					
DC Water	Light-Duty	HEV	3	82 gal	1.0 tons

Fleet/Station Name	Vehicle Class	Fuel	Number of Vehicles	GGE Reduced	GHG Reduced
<p>Average vehicle fuel economy: 32 MPG Miles traveled per vehicle per year: 1,500 mi Market: Utility Vehicle type: Car Percentage from coalition: 75% National Clean Fleets Partnership: No Workplace Charging Challenge: -</p>					
DC Water	Light-Duty	PHEV	8	250 gal	1.3 tons
<p>Average vehicle fuel economy: 36 MPG Miles traveled per vehicle per year: 1,500 mi Market: Utility Vehicle type: Car Percentage from coalition: 75% National Clean Fleets Partnership: No Workplace Charging Challenge: -</p>					
District of Columbia	Light-Duty	Electric	10	1,875 gal	9.7 tons
<p>Average electric fuel economy: 30 kWh/100mi Miles traveled per vehicle per year: 3,000 mi Market: Government - State Vehicle type: Car Percentage from coalition: 75% National Clean Fleets Partnership: No Workplace Charging Challenge: -</p>					
District of Columbia	Light-Duty	HEV	92	12,204 gal	150.3 tons
<p>Average vehicle fuel economy: 40 MPG Miles traveled per vehicle per year: 3,032 mi Market: Government - State Vehicle type: Car Percentage from coalition: 75% National Clean Fleets Partnership: No Workplace Charging Challenge: -</p>					
District of Columbia	Light-Duty	PHEV	101	11,594 gal	60.3 tons
<p>Average vehicle fuel economy: 35 MPG Miles traveled per vehicle per year: 2,795 mi Market: Government - State Vehicle type: Car Percentage from coalition: 75% National Clean Fleets Partnership: No Workplace Charging Challenge: -</p>					
Fairfax County, VA	Heavy-Duty	HEV	1	427 gal	5.3 tons
<p>Average vehicle fuel economy: 9 MPG Miles traveled per vehicle per year: 9,666 mi Market: Government - Local Vehicle type: Truck: No Trailer Percentage from coalition: 100% National Clean Fleets Partnership: No Workplace Charging Challenge: -</p>					
Fairfax County, VA	Light-Duty	Electric	2	100 gal	0.5 tons
<p>Average electric fuel economy: 30 kWh/100mi Miles traveled per vehicle per year: 1,200 mi Market: Government - Local Vehicle type: Car Percentage from coalition: 100% National Clean Fleets Partnership: No Workplace Charging Challenge: -</p>					
Fairfax County, VA	Light-Duty	HEV	29	4,710 gal	58.0 tons

Fleet/Station Name	Vehicle Class	Fuel	Number of Vehicles	GGE Reduced	GHG Reduced
Average vehicle fuel economy: 19 MPG Miles traveled per vehicle per year: 5,898 mi Market: Government - Local Vehicle type: Pickup/SUV/Van Percentage from coalition: 100% National Clean Fleets Partnership: No Workplace Charging Challenge: -					
Fairfax County, VA	Light-Duty	HEV	76	9,970 gal	122.8 tons
Average vehicle fuel economy: 35 MPG Miles traveled per vehicle per year: 6,933 mi Market: Government - Local Vehicle type: Car Percentage from coalition: 100% National Clean Fleets Partnership: No Workplace Charging Challenge: -					
Frederick County, MD	Heavy-Duty	Electric	5	15,059 gal	60.3 tons
Average electric fuel economy: 150 kWh/100mi Miles traveled per vehicle per year: 12,047 mi Market: Government - Local Vehicle type: Bus: Shuttle Percentage from coalition: 100% National Clean Fleets Partnership: No Workplace Charging Challenge: -					
Frederick County, MD	Heavy-Duty	HEV	2	10,522 gal	129.6 tons
Average vehicle fuel economy: 6 MPG Miles traveled per vehicle per year: 57,057 mi Market: Government - Local Vehicle type: Bus: Shuttle Percentage from coalition: 100% National Clean Fleets Partnership: No Workplace Charging Challenge: -					
Frederick County, MD	Light-Duty	HEV	9	912 gal	11.2 tons
Average vehicle fuel economy: 28 MPG Miles traveled per vehicle per year: 5,107 mi Market: Government - Local Vehicle type: Pickup/SUV/Van Percentage from coalition: 100% National Clean Fleets Partnership: No Workplace Charging Challenge: -					
Frederick County, MD	Light-Duty	PHEV	5	1,327 gal	6.9 tons
Average vehicle fuel economy: 48 MPG Miles traveled per vehicle per year: 7,641 mi Market: Government - Local Vehicle type: Pickup/SUV/Van Percentage from coalition: 100% National Clean Fleets Partnership: No Workplace Charging Challenge: -					
Montgomery County, MD	Light-Duty	Electric	119	8,755 gal	45.5 tons
Electricity used: 61,311 kWh Market: Government - Local Vehicle type: Car Percentage from coalition: 100% National Clean Fleets Partnership: No Workplace Charging Challenge: -					
Montgomery County, MD Ride-On	Heavy-Duty	HEV	68	332,901 gal	4,100.6 tons

Fleet/Station Name	Vehicle Class	Fuel	Number of Vehicles	GGE Reduced	GHG Reduced
<p>Average vehicle fuel economy: 5 MPG Miles traveled per vehicle per year: 33,184 mi Market: Government - Local Vehicle type: Bus: Transit Percentage from coalition: 100% National Clean Fleets Partnership: No Workplace Charging Challenge: -</p>					
National Mall & Memorial Parks	Light-Duty	Electric	3	217 gal	1.1 tons
<p>Average electric fuel economy: 30 kWh/100mi Miles traveled per vehicle per year: 3,333 mi Market: National Parks Vehicle type: Car Percentage from coalition: 50% National Clean Fleets Partnership: No Workplace Charging Challenge: -</p>					
National Mall & Memorial Parks	Light-Duty	Electric	6	450 gal	2.3 tons
<p>Average electric fuel economy: 11 kWh/100mi Miles traveled per vehicle per year: 3,000 mi Market: National Parks Vehicle type: Low-Speed/Neighborhood Percentage from coalition: 50% National Clean Fleets Partnership: No Workplace Charging Challenge: -</p>					
National Mall & Memorial Parks	Light-Duty	HEV	8	200 gal	2.5 tons
<p>Average vehicle fuel economy: 25 MPG Miles traveled per vehicle per year: 5,000 mi Market: National Parks Vehicle type: Car Percentage from coalition: 50% National Clean Fleets Partnership: No Workplace Charging Challenge: -</p>					
Pepco	Light-Duty	Electric	3	155 gal	0.8 tons
<p>Electricity used: 2,166 kWh Market: Utility Vehicle type: Car Percentage from coalition: 50% National Clean Fleets Partnership: No Workplace Charging Challenge: -</p>					
Prince George's County, MD	Light-Duty	Electric	3	905 gal	4.7 tons
<p>Electricity used: 6,335 kWh Market: Government - Local Vehicle type: Car Percentage from coalition: 100% National Clean Fleets Partnership: No Workplace Charging Challenge: -</p>					
Prince George's County, MD	Light-Duty	HEV	58	5,351 gal	65.9 tons
<p>Average vehicle fuel economy: 46 MPG Miles traveled per vehicle per year: 5,517 mi Market: Government - Local Vehicle type: Car Percentage from coalition: 100% National Clean Fleets Partnership: No Workplace Charging Challenge: -</p>					
Prince George's County, MD	Light-Duty	PHEV	15	5,428 gal	28.2 tons

Fleet/Station Name	Vehicle Class	Fuel	Number of Vehicles	GGE Reduced	GHG Reduced
Electricity used: 38,011 kWh Market: Government - Local Vehicle type: Car Percentage from coalition: 100% National Clean Fleets Partnership: No Workplace Charging Challenge: -					
Smithsonian	Light-Duty	Electric	22	7,652 gal	39.8 tons
Average electric fuel economy: 30 kWh/100mi Miles traveled per vehicle per year: 8,000 mi Market: General/Unknown Vehicle type: Car Percentage from coalition: 100% National Clean Fleets Partnership: No Workplace Charging Challenge: - <i>2 Level 2 chargers installed at Edgewater, MD</i>					
Washington Gas	Light-Duty	HEV	5	1,391 gal	17.1 tons
Average vehicle fuel economy: 46 MPG Miles traveled per vehicle per year: 10,000 mi Market: Utility Vehicle type: Pickup/SUV/Van Percentage from coalition: 75% National Clean Fleets Partnership: No Workplace Charging Challenge: -					
WMATA	Heavy-Duty	Electric	1	3,467 gal	13.9 tons
Average electric fuel economy: 150 kWh/100mi Miles traveled per vehicle per year: 10,400 mi Market: Commuters Vehicle type: Bus: Transit Percentage from coalition: 100% National Clean Fleets Partnership: No Workplace Charging Challenge: -					
WMATA	Heavy-Duty	HEV	938	4,843,384 gal	59,659.5 tons
Average vehicle fuel economy: 5 MPG Miles traveled per vehicle per year: 35,000 mi Market: Commuters Vehicle type: Bus: Transit Percentage from coalition: 100% National Clean Fleets Partnership: No Workplace Charging Challenge: -					
Total:			1,915	7,542,022 gal	76,370 tons

Off-Road Vehicles

Fleet Name	Application	Method	Fuel	Number of Vehicles	GGE Reduced	GHG Reduced
City of Manassas, VA	Construction equipment	Alternative fuel or vehicles	Propane	1	27 gal	0.0 tons
Fuel used: 40 gal Percentage from coalition: 100% National Clean Fleets Partnership: No						
DC Water	Other	Alternative fuel or vehicles	Electric	46	637 gal	2.5 tons
Fuel used: 10,000 kWh Percentage from coalition: 75% National Clean Fleets Partnership: No						
National Mall & Memorial Parks	Construction equipment	Alternative fuel or vehicles	Propane	7	1,703 gal	0.7 tons

Fleet Name	Application	Method	Fuel	Number of Vehicles	GGE Reduced	GHG Reduced
Fuel used: 2,500 gal Percentage from coalition: 100% National Clean Fleets Partnership: No						
Smithsonian	Construction equipment	Alternative fuel or vehicles	Biodiesel (20%)	102	2,546 gal	22.3 tons
Fuel used: 11,940 gal Percentage from coalition: 100% National Clean Fleets Partnership: No						
Smithsonian	Construction equipment	Alternative fuel or vehicles	Electric	119	849 gal	3.4 tons
Fuel used: 10,000 kWh Percentage from coalition: 100% National Clean Fleets Partnership: No						
Total:				275	5,762 gal	29 tons

FUEL ECONOMY

Vehicle Miles Traveled Reductions

Project Name	Method	Vehicle Class	GGE Reduced	GHG Reduced
Capital Bikeshare	Non-motorized locomotion (e.g., bicycles)	Light-Duty	313,694 gal	3,864.0 tons
Fuel saved: 313,694 gallons Percentage from coalition: 100% National Clean Fleets Partnership: No <i>Based on 3,526,738 systemwide rides @ an average distance of 7,560,707 miles</i>				
Uber Jump	Non-motorized locomotion (e.g., bicycles)	Light-Duty	86,569 gal	1,066.3 tons
Fuel type of vehicles driven less: Gasoline Fuel economy of vehicles driven less: 24 MPG Number of vehicles driven less: 153,900 VMT project per vehicle being driven less: 14 mi Percentage from coalition: 100% National Clean Fleets Partnership: No <i>1,539,000 total rides for a total trip distance of 2,077,000 miles</i>				
Total:			400,263 gal	4,930 tons

IDLE REDUCTION

Idle Reduction

Project Name	Number of Vehicles	Idling Reduced per Vehicle	Fuel Saved per Vehicle	GGE Reduced	GHG Reduced
City of Manassas, VA	216	60 mins/day 365 days/year	0 gal/hr	38,632 gal	479.0 tons
Type of project: Policies Type of vehicle: Light-Duty Percentage from coalition: 100% National Clean Fleets Partnership: No					
DC Government	73	60 mins/day 365 days/year	1 gal/hr	26,534 gal	329.0 tons

Project Name	Number of Vehicles	Idling Reduced per Vehicle	Fuel Saved per Vehicle	GGE Reduced	GHG Reduced
Type of project: Automatic engine shutoff Type of vehicle: Heavy-Duty - Truck: Long-Haul Percentage from coalition: 100% National Clean Fleets Partnership: No					
Pepco	94	240 mins/day 260 days/year	1 gal/hr	48,880 gal	606.1 tons
Type of project: Auxiliary power unit (APU) Type of vehicle: Heavy-Duty - Truck: Delivery Percentage from coalition: 50% National Clean Fleets Partnership: No					
Washington Sanitary Sewer Commission	321	30 mins/day 260 days/year	1 gal/hr	5,216 gal	64.7 tons
Type of project: Policies Type of vehicle: Heavy-Duty - Other Percentage from coalition: 25% National Clean Fleets Partnership: No					
Washington Sanitary Sewer Commission	609	30 mins/day 260 days/year	0 gal/hr	9,698 gal	120.3 tons
Type of project: Policies Type of vehicle: Light-Duty Percentage from coalition: 25% National Clean Fleets Partnership: No					
Total:	1,313			128,960 gal	1,599 tons

FUEL STATIONS

New Stations

Fuel	Public Stations	Private Stations
Biodiesel	-	-
CNG - Compressed Natural Gas	-	-
E85 - 85% Ethanol	-	-
Electric Charging Outlets: Level 1 & Level 2	8	1
Electric Charging Outlets: DC Fast Chargers	-	1
Hydrogen	-	-
LNG - Liquefied Natural Gas	-	-
Propane	-	-
Total:	8	2

OUTREACH ACTIVITIES

Activity Name	Dates	Activity Type	Percentage from Coalition	Persons Reached
Lion School Bus Educational Ride & Drive	01/16/2019	Meeting - Stakeholder	50%	25
Technology: Electric vehicles Audience: General Public, Government, Other <i>Largely comprised of local pupil transportation and government officials.</i>				
DC Department of Transportation/EV Circulator Bus Workshop and Tour II	03/26/2019	Workshop Held By Coalition	100%	85
Technology: Electric vehicles Audience: Government				

Activity Name	Dates	Activity Type	Percentage from Coalition	Persons Reached
Alternative Fuel Policy Discussion with USPS and DOE Headquarters Staff Technology: Biodiesel, Electric vehicles, Hydrogen, Natural gas vehicles, Propane Audience: Delivery, Government, Other	10/31/2019	Meeting - Other	10%	10
DC Department of Transportation/EV Circulator Bus Workshop and Tour Technology: Electric vehicles Audience: Government, Transit	01/18/2019	Workshop Held By Coalition	100%	30
GWRCCC Winter Reception Technology: Biodiesel, E85, Electric vehicles, Natural gas vehicles, Propane Audience: General Public, Government, Private Fleets, Transit, Utility <i>Stakeholder networking event</i>	02/27/2019	Meeting - Stakeholder	100%	60
GWRCCC Board of Directors Meeting Technology: Biodiesel, E85, Electric vehicles, Natural gas vehicles, Propane Audience: General Public, Government, Private Fleets, Utility	02/25/2019, 11/12/2019	Meeting - Stakeholder	100%	20
EV Charging for DMV Ride-Share Operators Rountable Technology: Electric vehicles Audience: Airport, Government, Private Fleets, Transit, Utility <i>Gathering of ride share operators, EV OEMs, EVSEs, utility, government and transit officials to discuss challenges for improving EV ride-share operators' access to charging.</i>	03/11/2019	Workshop Held By Coalition	100%	33
Transportation Energy Partners' Energy Independence Summit Technology: Biodiesel, E85, Electric vehicles, Hybrid electric vehicles, Hydrogen, Natural gas vehicles, Propane Audience: General Public, Government, Private Fleets, Transit, Utility, Other	02/11/2019, 02/12/2019, 02/13/2019	Conference Participation	5%	150
Maryland Zero Emission Electric Vehicle Infrastructure Council Technology: Electric vehicles Audience: Airport, General Public, Government, Private Fleets, Utility	01/30/2019, 07/18/2019	Meeting - Other	5%	50
Washington Auto Show Workshop & Exhibit Floor Tour for Students Technology: Electric vehicles Audience: General Public	04/05/2019	Workshop Held By Coalition	100%	25
Washington Auto Show Workshop for Ride Share Operators Technology: Electric vehicles Audience: General Public, Other	04/08/2019	Workshop Held By Coalition	100%	15
Electric Drive Experience - Washington Auto Show Technology: Electric vehicles Audience: General Public	04/05/2019, 04/06/2019, 04/07/2019, 04/08/2019, 04/09/2019, 04/10/2019, 04/11/2019, 04/12/2019, 04/13/2019, 04/14/2019	Meeting - Other	5%	2,500

Electric Drive Experience took Auto Show attendees on EV test track drive and provided educational component on vehicles and charging.

Activity Name	Dates	Activity Type	Percentage from Coalition	Persons Reached
Northeast Mid-Atlantic Alternative Fuels Corridor Convening, Providence RI Technology: Electric vehicles, Natural gas vehicles, Propane Audience: Airport, General Public, Government, Private Fleets, Transit, Utility	07/10/2019	Conference Participation	5%	100
Northeast Diesel Collaborative Meeting, Providence, RI Technology: Biodiesel, E85, Electric vehicles, Hybrid electric vehicles, Hydrogen, Natural gas vehicles, Propane Audience: Airport, Delivery, General Public, Government, Private Fleets, Transit, Utility, Waste, Other	07/11/2019	Conference Participation	5%	100
DC Department of Transportation/EV Circulator Bus Workshop and Tour III Technology: Electric vehicles Audience: Airport, Government, Private Fleets, Transit	09/20/2019	Workshop Held By Coalition	100%	49
Metropolitan Washington Airports Authority DCA and IAD Facilities Tour Technology: Electric vehicles Audience: Airport, Government, Private Fleets, Utility <i>Airports' electric charging discussion including EVSEs, EV OEMs and the Airports Authority.</i>	09/25/2019	Meeting - Stakeholder	100%	12
Metropolitan Washington Airports Authority EV Charging Policy Discussion Technology: Electric vehicles Audience: Airport, Utility, Other <i>EV charging strategy discussion including utilities, EVSEs and GWRCCC/VA Clean Cities.</i>	08/01/2019	Meeting - Stakeholder	100%	12
B100 Biodiesel Workshop and Technology Showcase @ DC Department of Public Works Technology: Biodiesel Audience: Government, Private Fleets, Other	08/27/2019	Workshop Held By Coalition	100%	50
GWRCCC Annual Awards Luncheon Technology: Biodiesel, E85, Electric vehicles, Natural gas vehicles, Propane Audience: Airport, Delivery, General Public, Government, Private Fleets, Transit, Utility, Waste, Other <i>15 clean transportation awards were presented to worthy organizations and individuals. Event received widespread press coverage.</i>	08/28/2019	Meeting - Stakeholder	100%	80
Prince George's County Propane Workshop and Facilities Tour Technology: Propane Audience: Government, Private Fleets, Other <i>Event received press coverage on the 5:00 PM and 6:00 PM evening news segments of Washington's NBC affiliate.</i>	05/30/2019	Workshop Held By Coalition	100%	65
National Clean Cities Educational Conference, SaltLake City, UT Technology: Biodiesel, Electric vehicles, Fuel economy improvements, Hybrid electric vehicles, Hydrogen, Idle reduction, Natural gas vehicles, Propane, Vehicle miles traveled reduction Audience: Government, Other <i>Included preparation and presentation at "Educating Fleets Through Site Visits and Tours" workshop breakout session.</i>	08/20/2019, 08/21/2019, 08/22/2019	Conference Participation	5%	125
DOE Vehicle Technology Office Listening Session with Headquarters Staff Technology: Biodiesel, E85, Electric vehicles, Hydrogen, Natural gas vehicles, Propane Audience: Government, Other <i>Participated in Washington, DC Headquarters meeting.</i>	10/01/2019	Conference Participation	5%	25
Meeting with Corporate Sustainability Director of Capital One	10/03/2019	One-on-One Fleet Outreach	100%	1

Activity Name	Dates	Activity Type	Percentage from Coalition	Persons Reached
Technology: Electric vehicles Audience: Private Fleets				
Mid-Atlantic Regional Clean Cities Calls	02/14/2019, 03/14/2019, 04/11/2019, 05/09/2019, 06/13/2019, 08/08/2019, 10/10/2019, 11/14/2019, 12/12/2019	Conference Participation	5%	15
Technology: Biodiesel, E85, Electric vehicles, Fuel economy improvements, Hybrid electric vehicles, Hydrogen, Idle reduction, Natural gas vehicles, Propane, Vehicle miles traveled reduction Audience: Government, Other <i>Participate in monthly meetings and coordinator roundtable.</i>				
Blue Plains (DC Water) RNG Workshop and Facility Tour	11/22/2019	Workshop Held By Coalition	100%	70
Technology: Natural gas vehicles Audience: General Public, Government, Private Fleets, Transit, Utility, Waste, Other				
USPS Headquarters Energy Efficiency Event	10/24/2019	Conference Participation	5%	100
Technology: Electric vehicles Audience: Delivery, Government <i>Participated in conference exhibit with DOE headquarters staff.</i>				
2020 SOPO Webinar	12/05/2019	Conference Participation	5%	100
Technology: Biodiesel, E85, Electric vehicles, Fuel economy improvements, Hybrid electric vehicles, Hydrogen, Idle reduction, Natural gas vehicles, Propane, Vehicle miles traveled reduction Audience: Government, Other <i>Webinar with DOE Headquarters Staff to Discuss 2020 SOPO.</i>				
Total:				3,907

GRANTS

Grantor	Total Grant Amount	Total Matching Funds	Total Project Funding	Grant Amount Spent in 2019	Matching Funds Spent in 2019	Total Project Funding Spent in 2019
National Biodiesel Foundation	\$5,000	-	\$5,000	\$5,000	\$0	\$5,000
Length of grant: 1 years Year grant began: 2019 Sources of the grant: Foundation or Nonprofit Technologies: B100 - 100 percent Biodiesel, Biodiesel Blends Purpose: Outreach and education						
Total:	\$5,000	\$0	\$5,000	\$5,000	\$0	\$5,000