

2018 Transportation Technology Deployment Report:

Massachusetts Clean Cities

Expanded Edition

March 2019

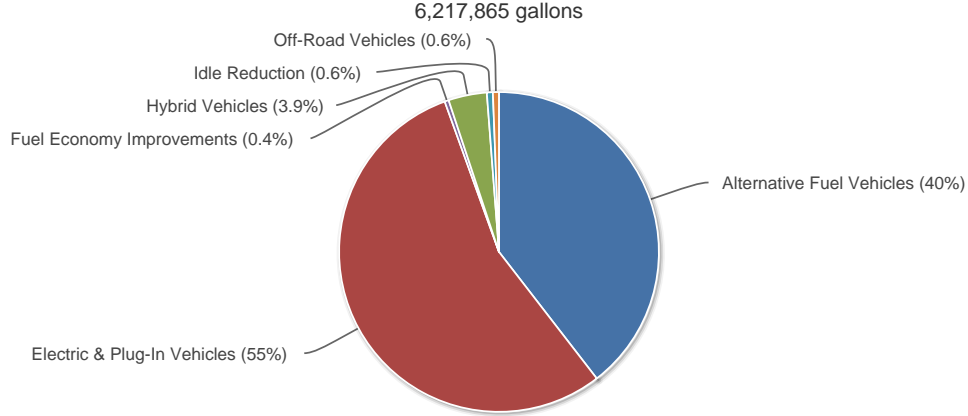
DRAFT

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.

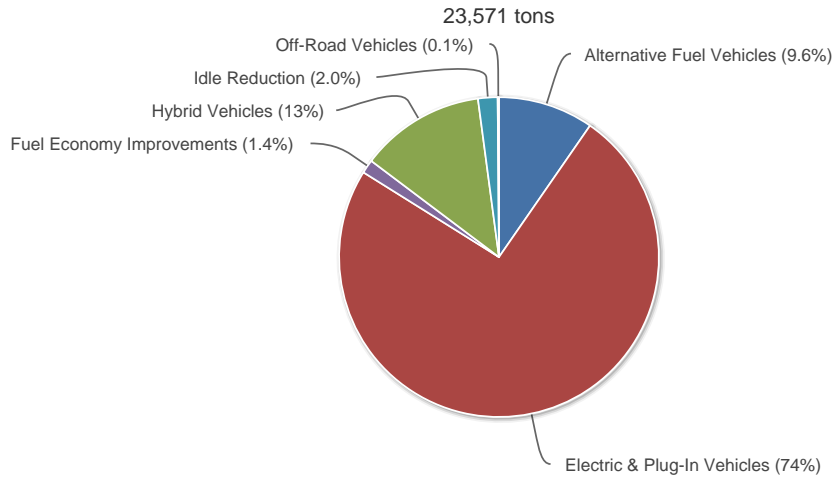
Every year, each Clean Cities coalition submits to DOE an annual report of its activities and accomplishments for the previous calendar year. Coalition coordinators, who lead the local coalitions, provide information and data via an online database managed by the National Renewable Energy Laboratory (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 Massachusetts Clean Cities.

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

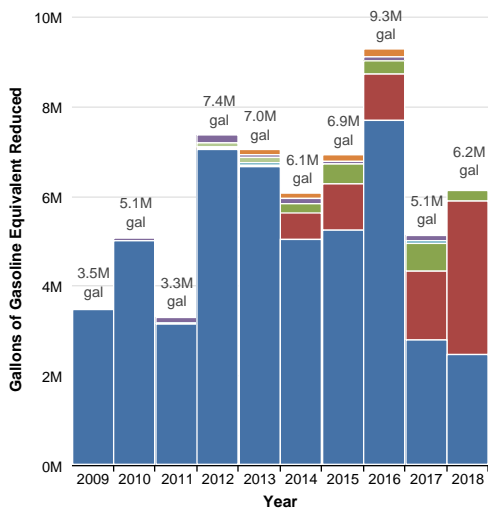
2018 Gallons of Gasoline Equivalent Reduced



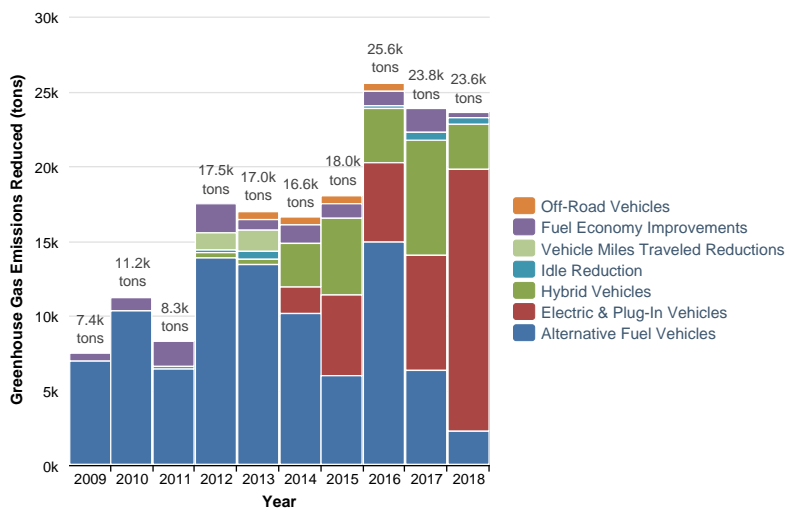
2018 Greenhouse Gas Emissions Reduced



Historical Gallons of Gasoline Equivalent Reduced

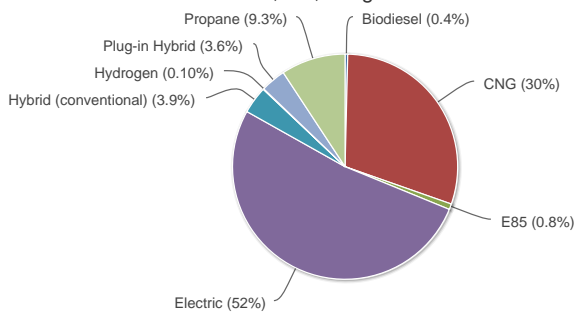


Historical Greenhouse Gas Emissions Reduced



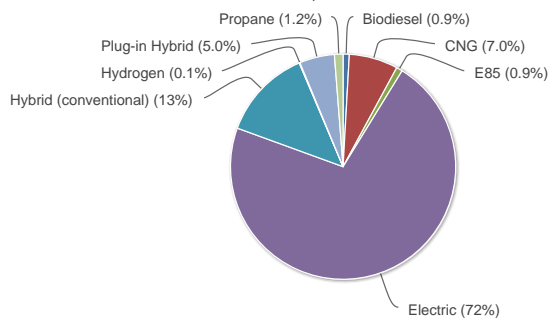
2018 Gallons of Gasoline Equivalent Reduced by Fuel Type for Alternative Fuel Projects

6,154,057 gallons



2018 Greenhouse Gas Emissions Reduced by Fuel Type for Alternative Fuel Projects

22,780 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. 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. This means that they omit emissions from sources such as electric power plants, refineries, and biofuel feedstock farms (where emissions are sufficiently removed from populations in order to minimize health effects). 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. To learn more about what your emissions numbers mean, please take the Understanding Emissions or Emissions Compliance courses at Clean Cities University.

Reductions by Fuel Type*	NOx	VOC	CO	PM10	PM2.5
Biodiesel	0 lb	0 lb	0 lb	0 lb	0 lb
CNG - Compressed Natural Gas	70,699 lb	101 lb	-342,482 lb	4 lb	3 lb
E85 - 85% Ethanol	0 lb	15 lb	0 lb	0 lb	0 lb
Electric (all-electric)	32,507 lb	28,026 lb	508,282 lb	865 lb	801 lb
Hybrid (conventional)	5,268 lb	270 lb	-2,394 lb	10 lb	7 lb
Hydrogen	56 lb	1 lb	6 lb	0 lb	0 lb
Plug-in Hybrid	2,439 lb	3,757 lb	68,627 lb	108 lb	100 lb
Propane	26,746 lb	-4,392 lb	-118,026 lb	11 lb	14 lb
Total:	137,715 lb	27,778 lb	114,013 lb	998 lb	925 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.

COALITION

Massachusetts Clean Cities - MA

<http://www.mass.gov/energy/cleancities>

Designated: 03/18/1994

Boundaries: Entire state of Massachusetts

COORDINATORS

	Address	Telephone	Fax
Mike Manning	C-6 Shipway Pl Boston, MA 02129		
Stephen Russell	100 Cambridge St, Ste 1020 Boston, MA 02114		

Number of coordinators	2
Coordinator(s) hours per week on Clean Cities	45 hours
Other staff hours per week on Clean Cities	20 hours
How long have you been the coordinator?	9 years

OPERATING INFORMATION

Coalition organizational structure Hosted in a state government agency

Stakeholders

Number of stakeholders	385
Number of private stakeholders	275
Does the State Energy Office provide any financial support to the coalition or stakeholders?	Yes
Explain State Energy Office's support	
Salary, office space and admin support	
How would you rate the quality of the data on your survey?	Good
How do you obtain most of your data for the survey?	Paper, e-mail, or spreadsheet questionnaire to stakeholders, Phone calls to stakeholders
Has your coalition registered with www.grants.gov?	Yes

2018 Outside Funding

Stakeholder dues collected	\$0
How much funding is obtained from other sources to cover coalition operating expenses?	\$1,200,000
Non-DOE or ARRA grant and matching funds spent in 2018	\$4,000,000
Total non-DOE or ARRA funding in 2018	\$5,200,000

VEHICLE & FUEL INVENTORY

Alternative Fuel & Vehicles

Fleet/Station Name	Vehicle Class	Fuel	Number of Vehicles	Fuel Used	GGE Reduced	GHG Reduced
ABC Disposal	Heavy-Duty	CNG	25	100% of time	138,309 gal	116.5 tons
<p>Miles traveled per vehicle: 25,000 mi Average vehicle fuel economy: 3 MPGde Market: Corporate Fleet Vehicle type: Truck: Refuse Percentage from coalition: 50% National Clean Fleets Partnership: No</p>						
Allied Republic	Heavy-Duty	CNG	4	100% of time	22,129 gal	18.6 tons
<p>Miles traveled per vehicle: 25,000 mi Average vehicle fuel economy: 3 MPGde Market: Corporate Fleet Vehicle type: Truck: Refuse Percentage from coalition: 50% National Clean Fleets Partnership: No</p>						
AVSG	Heavy-Duty	CNG	100	131,500 GGE	88,763 gal	74.7 tons
<p>Market: Corporate Fleet Vehicle type: Truck: Refuse Percentage from coalition: 75% National Clean Fleets Partnership: No</p> <p><i>This represents 8 communities using CNG in their vehicles. the number of vehicles is approximate AVSG sells the CNG to these communities.</i></p>						
AVSG	Light-Duty	CNG	2	100% of time	1,034 gal	1.3 tons
<p>Miles traveled per vehicle: 11,991 mi Average vehicle fuel economy: 17 MPGge Market: Corporate Fleet Vehicle type: Pickup/SUV/Van Percentage from coalition: 75% National Clean Fleets Partnership: No</p>						
Bunker Hill community College	Heavy-Duty	CNG	4	100% of time	3,508 gal	3.0 tons
<p>Miles traveled per vehicle: 22,829 mi Average vehicle fuel economy: 7 MPGde Market: Government - State Vehicle type: Bus: Shuttle Percentage from coalition: 25% National Clean Fleets Partnership: No</p>						
Charles River TMA	Heavy-Duty	CNG	12	100% of time	55,556 gal	46.8 tons
<p>Miles traveled per vehicle: 30,126 mi Average vehicle fuel economy: 7 MPGde Market: Corporate Fleet Vehicle type: Bus: Shuttle Percentage from coalition: 100% National Clean Fleets Partnership: No</p>						
City of Boston	Heavy-Duty	Biodiesel (20%)	175	300,000 gal	6,396 gal	56.0 tons
<p>Market: Government - Local Vehicle type: Truck: Refuse Percentage from coalition: 10% National Clean Fleets Partnership: No</p>						
City of Boston Central fleet	Light-Duty	Propane	31	75% of time	8,252 gal	11.7 tons
<p>Miles traveled per vehicle: 12,138 mi Average vehicle fuel economy: 17 MPGge Market: Government - Local Vehicle type: Pickup/SUV/Van Percentage from coalition: 50% National Clean Fleets Partnership: No</p>						

Fleet/Station Name	Vehicle Class	Fuel	Number of Vehicles	Fuel Used	GGE Reduced	GHG Reduced
City of Boston School bus fleet	Heavy-Duty	Propane	247	100% of time	478,271 gal	187.5 tons
<p>Miles traveled per vehicle: 14,000 mi Average vehicle fuel economy: 6 MPGde Market: Government - Local Vehicle type: Bus: School Percentage from coalition: 75% National Clean Fleets Partnership: No</p> <p><i>This fleet has ordered an additional 141 Propane buses ordered for 2019</i></p>						
City of Cambridge	Heavy-Duty	Biodiesel (20%)	175	60,000 gal	6,396 gal	56.0 tons
<p>Market: Government - Local Vehicle type: Truck: Refuse Percentage from coalition: 50% National Clean Fleets Partnership: No</p>						
City of Newton	Heavy-Duty	Biodiesel (20%)	175	74,000 gal	7,888 gal	69.1 tons
<p>Market: Government - Local Vehicle type: Truck: No Trailer Percentage from coalition: 50% National Clean Fleets Partnership: No</p>						
Clean Uniform	Heavy-Duty	CNG	4	100% of time	880 gal	0.7 tons
<p>Miles traveled per vehicle: 13,123 mi Average vehicle fuel economy: 7 MPGde Market: Corporate Fleet Vehicle type: Truck: No Trailer Percentage from coalition: 10% National Clean Fleets Partnership: No</p>						
Clean Vehicle Grant Program propane conversions	Light-Duty	Propane	30	100% of time	23,424 gal	33.1 tons
<p>Miles traveled per vehicle: 11,712 mi Average vehicle fuel economy: 15 MPGge Market: Government - Local Vehicle type: Pickup/SUV/Van Percentage from coalition: 100% National Clean Fleets Partnership: No</p> <p><i>This represents two fleets converted to propane</i></p>						
Consolidated utilities	Light-Duty	CNG	8	100% of time	4,259 gal	5.5 tons
<p>Miles traveled per vehicle: 12,138 mi Average vehicle fuel economy: 17 MPGge Market: Corporate Fleet Vehicle type: Pickup/SUV/Van Percentage from coalition: 75% National Clean Fleets Partnership: No</p>						
Courtyard by Marriot	Heavy-Duty	CNG	2	100% of time	1,754 gal	1.5 tons
<p>Miles traveled per vehicle: 22,829 mi Average vehicle fuel economy: 7 MPGde Market: Commuters Vehicle type: Bus: Shuttle Percentage from coalition: 25% National Clean Fleets Partnership: No</p>						
Dennis K Burke	Heavy-Duty	Biodiesel (100%)	19	2,370 gal	1,263 gal	11.1 tons
<p>Market: General/Unknown Vehicle type: Unknown/Other Percentage from coalition: 50% National Clean Fleets Partnership: No</p> <p><i>This is B 100 biodiesel sold to various fleets in Massachusetts in various percentages . I do not know the number of vehicles that used this fuel. It does include Boston Coach, the Duck Boats and some small buses used at hotels in Eastern MA. Communities using biodiesel include, Somerville, Marblehead, Uxbridge,Hanover, Kingston , Water Resources and Harvard University.</i></p>						

Fleet/Station Name	Vehicle Class	Fuel	Number of Vehicles	Fuel Used	GGE Reduced	GHG Reduced
Dennis K Burke	Light-Duty	E85 (blender pump)	100	90,937 gal	39,421 gal	153.8 tons
<p>Market: General/Unknown Vehicle type: Car Percentage from coalition: 75% National Clean Fleets Partnership: No <i>This is wholesale sales of E-85 by Dennis K Burke, a stakeholder.</i></p>						
Dennis K Burke retail station	Heavy-Duty	Biodiesel (20%)	2	4,546 gal	969 gal	8.5 tons
<p>Market: Government - State Vehicle type: Unknown/Other Percentage from coalition: 100% National Clean Fleets Partnership: No <i>Selling B-20 at their retail station Dennis K Burke</i></p>						
Dennis K Burke retail station	Light-Duty	E85	11	9,551 gal	4,140 gal	16.2 tons
<p>Market: General/Unknown Vehicle type: Car Percentage from coalition: 75% National Clean Fleets Partnership: No <i>Dennis K Burke - this is there retail station</i></p>						
Everett CNG station	Heavy-Duty	CNG	100	72,344 GGE	6,511 gal	5.5 tons
<p>Market: Corporate Fleet Vehicle type: Truck: Refuse Percentage from coalition: 10% National Clean Fleets Partnership: No <i>This fuel is reported to me by Clean Energy - do not know # of vehicles served</i></p>						
Eversource Utility	Light-Duty	CNG	20	100% of time	3,549 gal	4.6 tons
<p>Miles traveled per vehicle: 12,138 mi Average vehicle fuel economy: 17 MPGge Market: Utility Vehicle type: Pickup/SUV/Van Percentage from coalition: 25% National Clean Fleets Partnership: No</p>						
Gulf/Cumberland Farms 3 stations on the Mass Pike	Light-Duty	E85	100	24,488 gal	7,077 gal	27.6 tons
<p>Market: General/Unknown Vehicle type: Car Percentage from coalition: 50% National Clean Fleets Partnership: No <i>This is all the E-85 sold at the 3 stations on the Massachusetts turnpike</i></p>						
Knight's Airport Limo service	Light-Duty	Propane	45	100% of time	23,258 gal	32.9 tons
<p>Miles traveled per vehicle: 11,991 mi Average vehicle fuel economy: 17 MPGge Market: Airport Vehicle type: Pickup/SUV/Van Percentage from coalition: 75% National Clean Fleets Partnership: No <i>They continue to operate the converted 45 vans to run on propane funded through our Clean Vehicle Grant. It is an airport Shuttle service.</i></p>						
Massachusetts DOT (highway)	Light-Duty	CNG	75	100% of time	68,419 gal	88.6 tons
<p>Miles traveled per vehicle: 14,596 mi Average vehicle fuel economy: 12 MPGge Market: Government - State Vehicle type: Pickup/SUV/Van Percentage from coalition: 75% National Clean Fleets Partnership: No</p>						

Fleet/Station Name	Vehicle Class	Fuel	Number of Vehicles	Fuel Used	GGE Reduced	GHG Reduced
MassPort (Logan Airport)	Heavy-Duty	CNG	22	100% of time	40,992 gal	34.5 tons
Miles traveled per vehicle: 23,576 mi Average vehicle fuel economy: 7 MPGde Market: Airport Vehicle type: Bus: Transit Percentage from coalition: 50% National Clean Fleets Partnership: No						
MBTA - Massachusetts Bay Transportation Authority	Heavy-Duty	CNG	175	100% of time	1,336,275 gal	1,125.1 tons
Miles traveled per vehicle: 31,285 mi Average vehicle fuel economy: 3 MPGde Market: Government - State Vehicle type: Bus: Transit Percentage from coalition: 75% National Clean Fleets Partnership: No						
MBTA - Massachusetts Bay Transportation Authority	Heavy-Duty	Hydrogen	1	930 kg	1,811 gal	7.2 tons
Market: Government - State Vehicle type: Bus: Transit Percentage from coalition: 100% National Clean Fleets Partnership: No						
Metro West Regional Transit Authority	Heavy-Duty	CNG	7	72,000 GGE	6,480 gal	5.5 tons
Market: Government - Local Vehicle type: Bus: Shuttle Percentage from coalition: 10% National Clean Fleets Partnership: No <i>This is a new CNG station that was funded with our Clean Vehicle Grant program</i>						
Republic Waste	Heavy-Duty	CNG	2	100% of time	11,065 gal	9.3 tons
Miles traveled per vehicle: 25,000 mi Average vehicle fuel economy: 3 MPGde Market: Corporate Fleet Vehicle type: Truck: Refuse Percentage from coalition: 50% National Clean Fleets Partnership: No						
Save that stuff	Heavy-Duty	CNG	3	100% of time	16,597 gal	14.0 tons
Miles traveled per vehicle: 25,000 mi Average vehicle fuel economy: 3 MPGde Market: Corporate Fleet Vehicle type: Truck: Refuse Percentage from coalition: 50% National Clean Fleets Partnership: No						
Schwan's - Medium-duty Propane	Heavy-Duty	Propane	1	5,771 gal	2,949 gal	1.2 tons
Market: Corporate Fleet Vehicle type: Truck: No Trailer Percentage from coalition: 75% National Clean Fleets Partnership: Yes <i>Includes 2 Light HD Class 3 vehicles.</i>						
South Bay Shopping Center	Heavy-Duty	CNG	1	100% of time	877 gal	0.7 tons
Miles traveled per vehicle: 22,829 mi Average vehicle fuel economy: 7 MPGde Market: Commuters Vehicle type: Bus: Shuttle Percentage from coalition: 25% National Clean Fleets Partnership: No						

Fleet/Station Name	Vehicle Class	Fuel	Number of Vehicles	Fuel Used	GGE Reduced	GHG Reduced
Stop and shop	Heavy-Duty	CNG	3	100% of time	10,318 gal	8.7 tons
Miles traveled per vehicle: 65,897 mi Average vehicle fuel economy: 5 MPGde Market: Corporate Fleet Vehicle type: Truck: Semi-trailer Percentage from coalition: 25% National Clean Fleets Partnership: No						
Transaction Associates	Heavy-Duty	CNG	1	100% of time	1,754 gal	1.5 tons
Miles traveled per vehicle: 22,829 mi Average vehicle fuel economy: 7 MPGde Market: Commuters Vehicle type: Bus: Shuttle Percentage from coalition: 50% National Clean Fleets Partnership: No						
West Roxbury CNG station	Light-Duty	CNG	25	5,379 GGE	511 gal	0.7 tons
Market: Utility Vehicle type: Pickup/SUV/Van Percentage from coalition: 10% National Clean Fleets Partnership: No <i>This fuel is reported to us from Clean Energy from their station do not know number of vehicles.</i>						
Worcester Station	Light-Duty	CNG	45	36,000 GGE	25,650 gal	33.2 tons
Market: Corporate Fleet Vehicle type: Pickup/SUV/Van Percentage from coalition: 75% National Clean Fleets Partnership: No <i>This station is open to the public as well as the Eversource and National Grid utility fleet of CNG vehicles</i>						
Yarmouth CNG station	Heavy-Duty	CNG	75	12,848 GGE	1,156 gal	1.0 tons
Market: Corporate Fleet Vehicle type: Truck: Refuse Percentage from coalition: 10% National Clean Fleets Partnership: No <i>This fuel is reported to us from Clean Energy the Number of vehicles is a guess.</i>						
Total:			1,827		2,457,862 gal	2,273 tons

Electric, Hybrid & Plug-in Vehicles

Fleet/Station Name	Vehicle Class	Fuel	Number of Vehicles	GGE Reduced	GHG Reduced
Aerovironment charging stations	Light-Duty	Electric	4,258	1,008,614 gal	5,242.3 tons
Average electric fuel economy: - kWh/100mi Miles traveled per vehicle per year: 11,370 mi Market: Government - Local Vehicle type: Car Percentage from coalition: 50% National Clean Fleets Partnership: No Workplace Charging Challenge: <i>This represents 40 charging stations installed under a grant from Clean Cities. AV has stopped collecting data so I am assuming that usage is the same even though we have more EVs registered in the State in 2018</i>					
Brauns Express	Heavy-Duty	HEV	1	938 gal	11.6 tons
Average vehicle fuel economy: 8 MPG Miles traveled per vehicle per year: 42,526 mi Market: Corporate Fleet Vehicle type: Truck: No Trailer Percentage from coalition: 100% National Clean Fleets Partnership: No Workplace Charging Challenge: <i>Massachusetts Clean Cities funded the hybrid technology addition to this truck.</i>					

Fleet/Station Name	Vehicle Class	Fuel	Number of Vehicles	GGE Reduced	GHG Reduced
Cambridge Landscape	Heavy-Duty	HEV	2	493 gal	6.1 tons
<p>Average vehicle fuel economy: 8 MPG Miles traveled per vehicle per year: 15,326 mi Market: Corporate Fleet Vehicle type: Truck: No Trailer Percentage from coalition: 80% National Clean Fleets Partnership: No Workplace Charging Challenge:</p> <p><i>Mass Clean Cities provided funding for the purchase of this technology.</i></p>					
City of Boston	Heavy-Duty	HEV	4	968 gal	11.9 tons
<p>Average vehicle fuel economy: 15 MPG Miles traveled per vehicle per year: 5,000 mi Market: Government - Local Vehicle type: Truck: No Trailer Percentage from coalition: 75% National Clean Fleets Partnership: No Workplace Charging Challenge:</p> <p><i>The City of Boston has 4 bucket trucks that are now Electric hybrids</i></p>					
City of Boston	Light-Duty	Electric	4	1,338 gal	7.0 tons
<p>Miles traveled per vehicle per year: 10,345 mi Market: Government - Local Vehicle type: Car Percentage from coalition: 75% National Clean Fleets Partnership: No Workplace Charging Challenge:</p> <p><i>The City of Boston continues to use battery electric vehicles in their fleet.</i></p>					
City of Boston	Light-Duty	HEV	89	27,744 gal	341.7 tons
<p>Average vehicle fuel economy: 32 MPG Miles traveled per vehicle per year: 10,345 mi Market: Government - Local Vehicle type: Car Percentage from coalition: 75% National Clean Fleets Partnership: No Workplace Charging Challenge:</p> <p><i>The City of Boston has replaced all their Gasoline powered vehicles with Prius hybrids. They reduced their fleet using zip car technology by 20 vehicles using car share technology.</i></p>					
City of Boston	Light-Duty	HEV	43	10,194 gal	125.6 tons
<p>Average vehicle fuel economy: 40 MPG Miles traveled per vehicle per year: 10,345 mi Market: Government - Local Vehicle type: Pickup/SUV/Van Percentage from coalition: 75% National Clean Fleets Partnership: No Workplace Charging Challenge:</p> <p><i>The City of Boston has continues to add Electric vehicles based on their duty cycle. These are XL fleet up-fits.</i></p>					
City of Boston	Light-Duty	PHEV	14	3,017 gal	15.7 tons
<p>Average vehicle fuel economy: 36 MPG Miles traveled per vehicle per year: 10,345 mi Market: Government - Local Vehicle type: Car Percentage from coalition: 75% National Clean Fleets Partnership: No Workplace Charging Challenge:</p> <p><i>The City of Boston has continues to add Electric vehicles based on their duty cycle. These plug in Hybrids continue to be used.</i></p>					

Fleet/Station Name	Vehicle Class	Fuel	Number of Vehicles	GGE Reduced	GHG Reduced
City of Framingham Average vehicle fuel economy: 12 MPG Miles traveled per vehicle per year: 8,000 mi Market: Government - Local Vehicle type: Truck: No Trailer Percentage from coalition: 25% National Clean Fleets Partnership: No Workplace Charging Challenge:	Heavy-Duty	HEV	1	115 gal	1.4 tons
<i>This is a grant funded Hybrid Camera truck used by the city when filming sewers the Hybrid enables the vehicle to nit idle when filming.</i>					
City of Framingham Miles traveled per vehicle per year: 11,370 mi Market: Government - Local Vehicle type: Car Percentage from coalition: 25% National Clean Fleets Partnership: No Workplace Charging Challenge:	Light-Duty	Electric	2	237 gal	1.2 tons
City of New Bedford Miles traveled per vehicle per year: 11,370 mi Market: Government - Local Vehicle type: Car Percentage from coalition: 50% National Clean Fleets Partnership: No Workplace Charging Challenge:	Light-Duty	Electric	24	5,685 gal	29.5 tons
DCR - Enviornmental Police Average vehicle fuel economy: 21 MPG Miles traveled per vehicle per year: 12,138 mi Market: Government - State Vehicle type: Pickup/SUV/Van Percentage from coalition: 50% National Clean Fleets Partnership: No Workplace Charging Challenge:	Light-Duty	HEV	25	2,890 gal	35.6 tons
<i>This department added XL hybrid technology to their Vans</i>					
Department of Energy Resources Average electric fuel economy: - kWh/100mi Miles traveled per vehicle per year: 12,000 mi Market: Government - State Vehicle type: Car Percentage from coalition: 75% National Clean Fleets Partnership: No Workplace Charging Challenge:	Light-Duty	Electric	1	384 gal	2.0 tons
<i>This is a state cars used in the various staff as a pool car</i>					
Department of Enviornmental Protection Average electric fuel economy: - kWh/100mi Miles traveled per vehicle per year: 12,000 mi Market: Government - State Vehicle type: Car Percentage from coalition: 75% National Clean Fleets Partnership: No Workplace Charging Challenge:	Light-Duty	Electric	5	1,922 gal	10.0 tons
<i>These are state cars used ias pool cars in the Department of Environmental Protection</i>					
Diesel Direct Average vehicle fuel economy: 9 MPG Miles traveled per vehicle per year: 14,365 mi Market: Corporate Fleet Vehicle type: Truck: No Trailer Percentage from coalition: 80% National Clean Fleets Partnership: No Workplace Charging Challenge:	Heavy-Duty	HEV	1	448 gal	5.5 tons
<i>Massachusetts Clean Cities funded the hybrid technology addition to this fuel delivery truck.</i>					

Fleet/Station Name	Vehicle Class	Fuel	Number of Vehicles	GGE Reduced	GHG Reduced
EV school bus pilot Average electric fuel economy: - kWh/100mi Miles traveled per vehicle per year: 7,000 mi Market: Government - Local Vehicle type: Bus: School Percentage from coalition: 100% National Clean Fleets Partnership: No Workplace Charging Challenge:	Heavy-Duty	Electric	3	3,000 gal	12.0 tons
Kiessling transit Average vehicle fuel economy: 9 MPG Miles traveled per vehicle per year: 22,829 mi Market: Commuters Vehicle type: Bus: Shuttle Percentage from coalition: 100% National Clean Fleets Partnership: No Workplace Charging Challenge: <i>Massachusetts clean cities funded the differential cost to hybridize their vans Hydraulic Hybrid technology</i>	Heavy-Duty	HEV	33	23,155 gal	285.2 tons
Lasalle College Average vehicle fuel economy: 15 MPG Miles traveled per vehicle per year: 11,991 mi Market: General/Unknown Vehicle type: Pickup/SUV/Van Percentage from coalition: 100% National Clean Fleets Partnership: No Workplace Charging Challenge: <i>This project funded by the Clean Vehicle Program.. Vans used to transport students around the campus</i>	Light-Duty	HEV	5	1,999 gal	24.6 tons
Martha's Vineyard Transit Authority Average electric fuel economy: - kWh/100mi Miles traveled per vehicle per year: 34,012 mi Market: Government - Local Vehicle type: Bus: Transit Percentage from coalition: 25% National Clean Fleets Partnership: No Workplace Charging Challenge: <i>These buses serve the island of Martha's vineyard Massachusetts</i>	Heavy-Duty	Electric	6	17,006 gal	68.1 tons
Massachusetts Clean Cities MOR-EV consumer rebate program Miles traveled per vehicle per year: 10,614 mi Market: Commuters Vehicle type: Car Percentage from coalition: 100% National Clean Fleets Partnership: No Workplace Charging Challenge: <i>This is the number of BEVs that were either purchased or leased as a direct result of rebates issued. We do not know the mileage traveled.</i>	Light-Duty	Electric	4,258	1,930,560 gal	10,034.1 tons
Massachusetts Clean Cities MOR-EV consumer rebate program PHEVs Average vehicle fuel economy: 40 MPG Miles traveled per vehicle per year: 10,614 mi Market: General/Unknown Vehicle type: Car Percentage from coalition: 100% National Clean Fleets Partnership: No Workplace Charging Challenge: <i>This is the number of PHEVs that were either purchased or leased as a direct result of rebates issued. We do not know the mileage traveled.</i>	Light-Duty	PHEV	1,130	212,492 gal	1,104.4 tons

Fleet/Station Name	Vehicle Class	Fuel	Number of Vehicles	GGE Reduced	GHG Reduced
Massachusetts Electric vehicle Incentive program. BEVs Miles traveled per vehicle per year: 11,370 mi Market: Government - Local Vehicle type: Car Percentage from coalition: 10% National Clean Fleets Partnership: No Workplace Charging Challenge: <i>This was a grant funded program provided by DEP for Cities and Town to purchase e BEVs and PHEVs</i>	Light-Duty	Electric	183	8,670 gal	45.1 tons
Massachusetts Electric vehicle Incentive program. PHEVs Average vehicle fuel economy: 40 MPG Miles traveled per vehicle per year: 11,370 mi Market: Government - Local Vehicle type: Car Percentage from coalition: 25% National Clean Fleets Partnership: No Workplace Charging Challenge:	Light-Duty	PHEV	54	2,558 gal	13.3 tons
Massachusetts Executive office fleet Average vehicle fuel economy: 21 MPG Miles traveled per vehicle per year: 12,138 mi Market: Government - State Vehicle type: Pickup/SUV/Van Percentage from coalition: 50% National Clean Fleets Partnership: No Workplace Charging Challenge: <i>This includes vehicles from DCR and DOC.</i>	Light-Duty	HEV	55	4,967 gal	61.2 tons
Mass DOT Highway fleet Average vehicle fuel economy: 42 MPG Miles traveled per vehicle per year: 13,239 mi Market: Government - State Vehicle type: Car Percentage from coalition: 75% National Clean Fleets Partnership: No Workplace Charging Challenge: <i>These vehicles are Chevrolet Volts</i>	Light-Duty	PHEV	23	2,719 gal	14.1 tons
MASSPort (Logan airport) Average vehicle fuel economy: 10 MPG Miles traveled per vehicle per year: 22,679 mi Market: Government - State Vehicle type: Bus: Shuttle Percentage from coalition: 50% National Clean Fleets Partnership: No Workplace Charging Challenge: <i>These are Diesel Hybrid Buses used on the airport to go from T station rental center to all terminals. 60 foot Articulated</i>	Heavy-Duty	HEV	32	26,767 gal	329.7 tons
MBTA Average electric fuel economy: - kWh/100mi Miles traveled per vehicle per year: 34,012 mi Market: Commuters Vehicle type: Bus: Transit Percentage from coalition: 50% National Clean Fleets Partnership: No Workplace Charging Challenge: <i>These are Electric Catenary buses serving the public.</i>	Heavy-Duty	Electric	28	158,723 gal	635.5 tons

Fleet/Station Name	Vehicle Class	Fuel	Number of Vehicles	GGE Reduced	GHG Reduced
MBTA Average vehicle fuel economy: 6 MPG Miles traveled per vehicle per year: 34,012 mi Market: Commuters Vehicle type: Bus: Transit Percentage from coalition: 10% National Clean Fleets Partnership: No Workplace Charging Challenge:	Heavy-Duty	HEV	216	135,480 gal	1,668.8 tons
Pioneer valley Transit Average electric fuel economy: - kWh/100mi Miles traveled per vehicle per year: 34,012 mi Market: Government - Local Vehicle type: Bus: Transit Percentage from coalition: 10% National Clean Fleets Partnership: No Workplace Charging Challenge:	Heavy-Duty	Electric	2	2,267 gal	9.1 tons
Square One Daycare Center fleet Average vehicle fuel economy: 20 MPG Miles traveled per vehicle per year: 14,596 mi Market: General/Unknown Vehicle type: Pickup/SUV/Van Percentage from coalition: 75% National Clean Fleets Partnership: No Workplace Charging Challenge: <i>Mass Clean cities funded the conversion with funds from Mass DEP. XL hybrid technology was installed on 5 of their E 250 Vans and they are achieving a 20% savings</i>	Light-Duty	HEV	5	464 gal	5.7 tons
Town of Dalton MA Miles traveled per vehicle per year: 11,370 mi Market: Government - Local Vehicle type: Car Percentage from coalition: 10% National Clean Fleets Partnership: No Workplace Charging Challenge:	Light-Duty	Electric	2	95 gal	0.5 tons
Town of Rochester MA Miles traveled per vehicle per year: 11,370 mi Market: Government - Local Vehicle type: Car Percentage from coalition: 10% National Clean Fleets Partnership: No Workplace Charging Challenge:	Light-Duty	Electric	2	95 gal	0.5 tons
University of Massachusetts Amherst campus Miles traveled per vehicle per year: 11,370 mi Market: Government - State Vehicle type: Car Percentage from coalition: 100% National Clean Fleets Partnership: No Workplace Charging Challenge:	Light-Duty	Electric	23	10,896 gal	56.6 tons
University of Massachusetts Amherst Campus Average vehicle fuel economy: 40 MPG Miles traveled per vehicle per year: 11,370 mi Market: Government - State Vehicle type: Car Percentage from coalition: 100% National Clean Fleets Partnership: No Workplace Charging Challenge:	Light-Duty	HEV	26	4,927 gal	60.7 tons

Fleet/Station Name	Vehicle Class	Fuel	Number of Vehicles	GGE Reduced	GHG Reduced
University of Massachusetts Amherst Campus	Light-Duty	Electric	29	11,376 gal	59.1 tons
<p>Average electric fuel economy: - kWh/100mi Miles traveled per vehicle per year: 11,507 mi Market: Government - State Vehicle type: Low-Speed/Neighborhood Percentage from coalition: 75% National Clean Fleets Partnership: No Workplace Charging Challenge:</p> <p><i>These are low speed Electric vehicles used around campus</i></p>					
Worcester Regional Transit Authority	Heavy-Duty	Electric	6	35,249 gal	141.1 tons
<p>Average electric fuel economy: - kWh/100mi Miles traveled per vehicle per year: 36,424 mi Market: Government - Local Vehicle type: Bus: Transit Percentage from coalition: 50% National Clean Fleets Partnership: No Workplace Charging Challenge:</p> <p><i>Worcester continues to operate these Battery Electric Proterra buses They have added a second DCFC this year to reduce demand charges that take place when they have to charge rapidly.</i></p>					
Total:			10,595	3,658,452 gal	20,477 tons

Off-Road Vehicles

Fleet Name	Application	Method	Fuel	Number of Vehicles	GGE Reduced	GHG Reduced
City of Boston	Construction equipment	Fuel economy improvement	Diesel	2	221 gal	2.7 tons
<p>Fuel reduced: 2,000 gal Percentage from coalition: 10% National Clean Fleets Partnership: No</p> <p><i>These are 2 Diesel electric Wheel loaders and 1 diesel electric Hybrid trash compactor.</i></p>						
Martignetti's Beveridge distributor	Forklifts	Alternative fuel or vehicles	Hydrogen	56	3,680 gal	14.7 tons
<p>Fuel used: 3,780 kg Percentage from coalition: 50% National Clean Fleets Partnership: No</p> <p><i>Our Stakeholder Nuvera fuels cells supplies the Hydrogen and builds the forklifts for Yale Hyster</i></p>						
Massachusetts DOT	Forklifts	Alternative fuel or vehicles	Propane	21	33,479 gal	13.1 tons
<p>Fuel used: 49,140 gal Percentage from coalition: 100% National Clean Fleets Partnership: No</p>						
MassPort	Other	Alternative fuel or vehicles	Electric	115	0 gal	0.0 tons
<p>Fuel used: 25 kWh Percentage from coalition: 10% National Clean Fleets Partnership: No</p> <p><i>This is the ground support equipment on Logan Airport.</i></p>						
Sysco Foods	Forklifts	Alternative fuel or vehicles	Hydrogen	230	584 gal	2.3 tons
<p>Fuel used: 1,200 kg Percentage from coalition: 25% National Clean Fleets Partnership: No</p> <p><i>No Idea on KG used this is a total guess</i></p>						
Total:				424	37,964 gal	33 tons

FUEL ECONOMY

Fuel Economy Improvements

Fleet Name	Previous Fuel	Current Fuel	Number of Vehicles	Miles Traveled per Vehicle	GGE Reduced	GHG Reduced
Braun's Express	6 MPG	7 MPG	185	45,000 mi	22,842 gal	283.2 tons
Method: Telematics Vehicle class: Heavy-Duty Market: Corporate Fleet Vehicle type: Truck: Semi-trailer Percentage from coalition: 10% National Clean Fleets Partnership: No						
Brauns Express	6 MPG	7 MPG	60	23,000 mi	3,391 gal	42.1 tons
Method: Other Vehicle class: Heavy-Duty Market: Corporate Fleet Vehicle type: Truck: Semi-trailer Percentage from coalition: 10% National Clean Fleets Partnership: No <i>these are plug in APUs</i>						
Total:			245	68,000 mi	26,233 gal	325 tons

IDLE REDUCTION

Idle Reduction

Project Name	Number of Vehicles	Idling Reduced per Vehicle	Fuel Saved per Vehicle	GGE Reduced	GHG Reduced
Brauns express	53	360 mins/day 200 days/year	1 gal/hr	28,852 gal	357.8 tons
Type of project: Auxiliary power unit (APU) Type of vehicle: Heavy-Duty - Truck: Long-Haul Percentage from coalition: 50% National Clean Fleets Partnership: No <i>This technology has saved 1000 gallons of Diesel fuel on each truck per year</i>					
Brauns Express	18	164 mins/day 365 days/year	1 gal/hr	8,147 gal	101.0 tons
Type of project: Auxiliary power unit (APU) Type of vehicle: Heavy-Duty - Truck: Long-Haul Percentage from coalition: 50% National Clean Fleets Partnership: No					
City of Boston	2	360 mins/day 305 days/year	1 gal/hr	355 gal	4.4 tons
Type of project: Automatic engine shutoff Type of vehicle: Heavy-Duty - Other Percentage from coalition: 10% National Clean Fleets Partnership: No <i>These are bucket trucks with Hybrid Aerial drive</i>					
Total:	73			37,354 gal	463 tons

FUEL STATIONS

New Stations

Fuel	Public Stations	Private Stations
Biodiesel	-	-
CNG - Compressed Natural Gas	2	-
E85 - 85% Ethanol	-	-

Fuel	Public Stations	Private Stations
Electric Charging Outlets	92	74
Hydrogen	-	-
LNG - Liquefied Natural Gas	-	-
Propane	-	-
Total:	94	74

OUTREACH ACTIVITIES

Activity Name	Dates	Activity Type	Percentage from Coalition	Persons Reached
Transportation Climate Initiative	01/04/2018, 02/01/2018, 03/01/2018	Meeting - Other	75%	25
<p>Technology: Electric vehicles, Vehicle miles traveled reduction Audience: Government</p> <p><i>Meet monthly with the steering committee regarding the Georgetown Climate Centers work with the 14 state Transportation initiative</i></p>				
Massachusetts state Fleet Fuel efficiency standard meetings	01/04/2018, 12/27/2018	Meeting - Other	50%	100
<p>Technology: Fuel economy improvements Audience: Government</p> <p><i>This is an ongoing meeting with state Staff who run the fleet - it reviews all purchase to make sure they meet the state's fuel efficiency standard. it meets every two weeks throughout the year.</i></p>				
Nafa fleet managers meeting	01/10/2018, 03/21/2018, 05/16/2018, 10/15/2018, 11/14/2018	Meeting - Other	50%	200
<p>Technology: Electric vehicles, Fuel economy improvements, Hybrid electric vehicles, Idle reduction Audience: Delivery, Government, Private Fleets, Utility, Waste</p> <p><i>Monthly meeting of fleet managers is an opportunity to connect with corporate and Muni fleet managers and talk about Alt fuels.</i></p>				
Booth at the New England Auto show Boston	01/11/2018, 01/12/2018, 01/13/2018, 01/14/2018, 01/15/2018	Media Event	75%	500
<p>Technology: Electric vehicles Audience: General Public</p> <p><i>The Clean cities coalition sponsored a booth at the auto show to talk about the Electric vehicle rebate program that had begun in 2014. This year we invited EVSE companies and it added to the booth.</i></p>				
Future of transportation symposium Tufts university	01/11/2018	Conference participation	25%	200
<p>Technology: Electric vehicles, Hybrid electric vehicles Audience:</p> <p><i>This was a well attended symposium at Tufts university that took a look at how to reduce emissions in the transportation sector in Massachusetts</i></p>				
Dealer training EV sales person from dealerships	01/24/2018	Workshop held by coalition	100%	20
<p>Technology: Electric vehicles, Hybrid electric vehicles Audience: Other</p> <p><i>The Mass Clean Cities Coalition held two Electric vehicle training programs to talk about the EV rebate the state offers. Sales folks from dealers in the state were invited to an EV training session which covered EV charging and technology</i></p>				

Activity Name	Dates	Activity Type	Percentage from Coalition	Persons Reached
Zero Emission Vehicle commission Technology: Electric vehicles Audience: Government, Private Fleets, Utility <i>The coalition provides resources for the State appointed ZEV commission.</i>	01/26/2018	Meeting - Stakeholder	50%	75
VW mitigation trust program for Massachusetts stakeholder meetings Technology: Electric vehicles, Fuel economy improvements, Hybrid electric vehicles, Natural gas vehicles, Propane Audience: <i>This was the first of 10 Listening session put on by the Department of Environmental protection (Governor appointed trustee of the funds) 1/29,1/29 2/07,02/07,02/12,02/12, 02/15, 02,15.02/27,02/27,</i>	01/29/2018	Meeting - Stakeholder	10%	100
Regional Hydrogen Infrastructure meeting Technology: Hydrogen Audience: Government, Other <i>This meeting was held in CT to bring folks in MA,Ct to discuss hydrogen infrastructure in the region several coalition coordinators were in Attendance along with Industry and tate folks</i>	02/05/2018	Meeting - Other	50%	10
Boston University Intern Charging station project Technology: Electric vehicles Audience: Government <i>Boston University approached the coalition to do a project. They took on looking a Fast charging across Massachusetts with a goal of identifying DCFC's near state facilities and suggested future locations. It was a well done report.</i>	02/06/2018	Meeting - Other	100%	6
Fleet Manager Visits Technology: Biodiesel, Electric vehicles, Fuel economy improvements, Hybrid electric vehicles, Hydrogen, Idle reduction, Natural gas vehicles, Propane Audience: Government, Private Fleets, Utility <i>Met with 5 fleet managers across the state to discuss alternative fuels and fuel efficiency. Beverly, Framingham,, Cambridge, Worcester,and Andover to discuss alternative fuels and technologies option for their fleets</i>	02/08/2018	Meeting - Stakeholder	100%	23
Massachusetts Hydrogen coalition meeting Technology: Hydrogen Audience: Other <i>This meeting was to bring the Hydrogen fuel cell stakeholders in Massachusetts up to date on progress by the Manufacturers to bring their vehicles to market in MA as well as review progress on infrastructure. It was presented by folks from California and CT</i>	02/08/2018	Meeting - Stakeholder	50%	10
Telmatics Pilot Technology: Fuel economy improvements, Idle reduction, Vehicle miles traveled reduction Audience: Government <i>Massachusetts clean cities has begun a Telematics pilot for small rural communities . The goal is to develop recommendations on how small fleets</i>	02/15/2018	Meeting - Other	100%	100
EV Charging station OCCP research (open protocol for Consumers to pay for charging) Technology: Electric vehicles Audience: <i>The coalition participated in several calls with California to compare notes on the OCCP program that they were working on for EV charging. Stay Tuned Massachusetts has legislation that requires one standard program for charging and paying for vehicles.</i>	03/02/2018	Meeting - Other	50%	25
Magic EV bus presentation Technology: Electric vehicles Audience: <i>The coalition did a presentation about the EV school bus at the annual NESEA energy conference we were able to have the bus demo also.</i>	03/09/2018	Conference participation	50%	100
Hybrid vehicle demo Andover MA Technology: Hybrid electric vehicles Audience: Government <i>demoed aan XL hybrid vehicle to the Andover DPW.</i>	03/29/2018	Meeting - Stakeholder	50%	20

Activity Name	Dates	Activity Type	Percentage from Coalition	Persons Reached
Resource to State contracting office on Vehicles Technology: Electric vehicles, Hybrid electric vehicles Audience: Government <i>The state has a contract for entities to purchase vehicles from and Clean cities meets with this agency when they are working with vehicle contracts to make sure that all fuel vehicles get on the contract.</i>	03/29/2018	Meeting - Other	25%	20
Commissioning of the first EV America DCFC installations Chicopee MA Technology: Electric vehicles Audience: <i>Chicopee MA was the first installation by Electrify America of DCFCs 4 units with 4 wires were installed. Clean cities was asked to be do the commissioning of the units with did not go well.</i>	04/26/2018	Meeting - Other	75%	5
EV ride and drives statewide Technology: Electric vehicles Audience: General Public, Private Fleets <i>In 2018 Massachusetts Clean cities and the Department of energy resources sponsored 10 ride and drives at major corporations and a couple of major events. 854 folks took advantage of the ride and drive and drove a pure electric car. They took place all year.</i>	04/28/2018	Media Event	75%	854
Meeting with he National Biodiesel Board Technology: Biodiesel Audience: Government, Other <i>The coalition was invited to the northeast meeting of the National Biodiesel Board meeting held in Hyannis Massachusetts.</i>	05/01/2018	Conference participation	25%	30
Meeting with Boston Convention center Technology: Electric vehicles Audience: Government <i>Met with the Boston Convention center staff to provide resources on Electric vehicles They are particularly interested in Electric food trucks. They ate also interest in moving their shuttle buses to Electric.</i>	05/08/2018	Meeting - Other	100%	5
Clean cities Coalition Stakeholder meetings Technology: Hydrogen, Idle reduction, Natural gas vehicles, Propane Audience: Delivery, Government, Private Fleets, Transit, Utility <i>The May meeting had presentations fro E NOW, The contracting office from the state did a "how to" research contracts as well as a DEP update on the MASS EVIP program. The December meeting was held at the FIBA corporation a company the makes Gaseous storage tanks(Propane CNG and Hydrogen tanks -</i>	05/15/2018, 12/06/2018	Meeting - Stakeholder	75%	66
Electric pick up demo Technology: Electric vehicles Audience: Airport, Government <i>The coalition organized a demo of the Workhorse EV pick up for the staff at Logan airport the major airport serving Boston. The CEO of MassPort attended with interest</i>	05/31/2018	Media Event	100%	20
Clean Cities new coordinator presentation at training Technology: Biodiesel, Electric vehicles, Hybrid electric vehicles, Idle reduction, Propane Audience: <i>Provided training for the coordinator 101 program for new coordinators.</i>	06/11/2018, 06/12/2018, 06/13/2018	Meeting - Other	50%	25
EV driver training Technology: Electric vehicles Audience: Government <i>The clean cities coalition provided driver training for the new BEV vehicle purchased as a pool car. the coordinator provided hands on training a a instruction sheet noting the differences between EVs and ICE vehicles. This was done for two departments using the new BEVs.</i>	06/15/2018, 07/25/2018	Workshop held by coalition	100%	30

Activity Name	Dates	Activity Type	Percentage from Coalition	Persons Reached
Northeast Region meeting for Clean mCities	06/28/2018, 06/29/2018	Meeting - Other	25%	15
<p>Technology: E85, Electric vehicles, Fuel economy improvements Audience: Other</p> <p><i>This was the northeast region meeting of clean cities coordinators. great meeting enabling the northeast states to coordinate on programs and get updated on what folks are doing in heir territories.</i></p>				
Propane workshop hosted by PERC	07/19/2018	Workshop held by coalition	100%	20
<p>Technology: Propane Audience: Airport, Delivery, Government, Private Fleets, Utility</p> <p><i>PERC hosted a workshop on AutoGas and how the technology goes into Vehicles and the benefits of this alternative fuel. it was Hosted at the City of Boston Fleet facility.</i></p>				
EV Bolt Meet up	07/31/2018	Meeting - Other	20%	12
<p>Technology: Electric vehicles Audience: General Public</p> <p><i>Massachusetts Clean cities brought the new State EV to the event and spoke about the EV rebate.</i></p>				
MOR EV booth at Greenfest	08/03/2018, 08/04/2018	Media Event	100%	100
<p>Technology: Electric vehicles Audience: General Public</p> <p><i>The Clean cities coalition staffs a booth at the annual Green fest event on Boston City hall plaza which attacks thousands of attendees - The focus is on Environmental friendly products</i></p>				
Clean Cities Booth at the Northeast Propane association exhibition	08/08/2018, 08/09/2018	Media Event	50%	100
<p>Technology: Propane Audience: Delivery, General Public, Government, Private Fleets, Utility, Waste</p> <p><i>The northeast region coalitions pitched in and covered the Clean cities table for the 2 days. Maine, CT, VT and Massachusetts and NH all attended.</i></p>				
National Drive Electric week	09/08/2018, 09/09/2018, 09/10/2018, 09/11/2018, 09/12/2018, 09/13/2018, 09/14/2018, 09/15/2018, 09/16/2018	Media Event	50%	150
<p>Technology: Electric vehicles Audience: General Public, Government, Private Fleets, Transit</p> <p><i>Massachusetts Clean cities participated in 19 events across the state during the Plug in America/ Sierra club drive electric week events. Boston, Springfield, Concord, Worcester and Plymouth, Braintree, Quincy, Cambridge Martha's Vineyard and Shrewsbury all had events. Massachusetts continues to have one of the largest number of events in the country.</i></p>				
Utility funded EVSE make ready program.	09/10/2018	Meeting - Stakeholder	20%	20
<p>Technology: Electric vehicles Audience: Utility</p> <p><i>Massachusetts Clean cities has been a resource as the Utility has put together its vendors for the DPU approved EV charging station make ready program.</i></p>				
EV Ride and Drive New England Public works expo.	09/20/2018	Meeting - Other	100%	100
<p>Technology: Electric vehicles Audience: Delivery, Government, Utility, Waste</p> <p><i>the Clean Cities held an EV ride and drive for Attendees at the New England Public works expo.</i></p>				

Activity Name	Dates	Activity Type	Percentage from Coalition	Persons Reached
Garlic Festival - Orange MA	09/29/2018, 09/30/2018	Conference participation	100%	100
Technology: Biodiesel, Electric vehicles, Hybrid electric vehicles, Hydrogen, Natural gas vehicles, Propane Audience: General Public <i>The Clean cities Coordinator presented at this festival and we also had an EV rebate booth talking with folks about the positives of driving an ev and the State rebate program.</i>				
Meeting with Nissan	10/12/2018	Meeting - Other	10%	10
Technology: Electric vehicles Audience: Utility <i>The Nissan motors met to inform the coalition about their Discount program for utility customers when purchasing or leasing a Leaf It is a 5,000 dollar discount</i>				
AltWheels Fleet day	10/15/2018	Workshop held by coalition	100%	285
Technology: Biodiesel, Electric vehicles, Fuel economy improvements, Hybrid electric vehicles, Hydrogen, Idle reduction, Natural gas vehicles, Propane Audience: Airport, Delivery, Government, Private Fleets, Transit, Utility, Waste <i>This annual event provides not only speakers and panels on various fuels but also a very large EXPO with many alternative fueled vehicles on display. In addition many clean cities coordinators assist in the event as moderators and panelists. This year we had an electric vehicle Ride and drive. CC coordinators from the region assisted in Moderating sessions for the event .</i>				
Meeting with Massachusetts State Auto Dealers Association (MSADA)	10/22/2018	Meeting - Other	100%	125
Technology: Electric vehicles Audience: Private Fleets <i>The coalition met with this association to plan involvement at the New England Auto show along with communication about the Electric vehicle EV consumer rebate changes.</i>				
Meeting with Bio-diesel distributor	12/18/2018	Meeting - Other	100%	5
Technology: Biodiesel Audience: Government <i>the City of Cambridge had a fuel problem and they were concerned it was the b 20 that they are using so I took the Fleet manager to the fuel distributor to sort out the problems.</i>				
Total:				3,611

GRANTS

Grantor	Total Grant Amount	Total Matching Funds	Total Project Funding	Grant Amount Spent in 2018	Matching Funds Spent in 2018	Total Project Funding Spent in 2018
CMAQ	\$11,700,000	\$0	\$11,700,000	-	-	\$0
Additional matching funds added since start \$0 Length of grant: 6 Year grant began: 2014 Sources of the grant: Congestion Mitigation and Air Quality Improvement (CMAQ) Program, U.S. Department of Energy Partners: DOT Technologies: CNG - Compressed Natural Gas, Electricity, Fuel Economy Improvements, H2 - Hydrogen, Idle Reduction, Propane, Other Purpose: 11,700,000.00 to provide differential cost for adding Alternative fuel technology to LD,MD,and HD vehicles <i>This clean vehicle CMAQ grant opportunity is open to all public and private fleet operations. The grants will support Gaseous alternative fuels,Hybrid Electric vehicles and infrastructure projects.</i>						

Grantor	Total Grant Amount	Total Matching Funds	Total Project Funding	Grant Amount Spent in 2018	Matching Funds Spent in 2018	Total Project Funding Spent in 2018
RGGI	\$12,000,000	-	\$12,000,000	\$4,000,000	\$0	\$4,000,000
Length of grant: 3 Year grant began: 2018 Sources of the grant: State Government Technologies: Electricity Purpose: Provide consumer rebates for BEV and PHEVs over the last 3 years 2019 the rebate program is changing						
Total:	\$23,700,000	\$0	\$23,700,000	\$4,000,000	\$0	\$4,000,000