U.S. DEPARTMENT OF ENERGY | Energy Efficiency & Renewable Energy

2014 Transportation Technology Deployment Report:

Massachusetts Clean Cities

March 2015

Clean Cities
U.S. Department of Energy

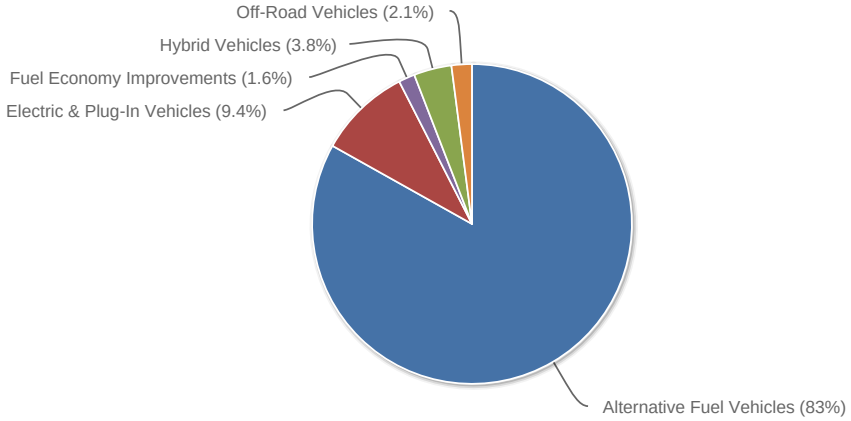
The U.S. Department of Energy's (DOE) Clean Cities program advances the nation's economic, environmental, and energy security by supporting local actions to reduce petroleum use in transportation. A national network of nearly 100 Clean Cities coalitions brings together stakeholders in the public and 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 www.eere.energy.gov/cleancities/accomplishments.html.

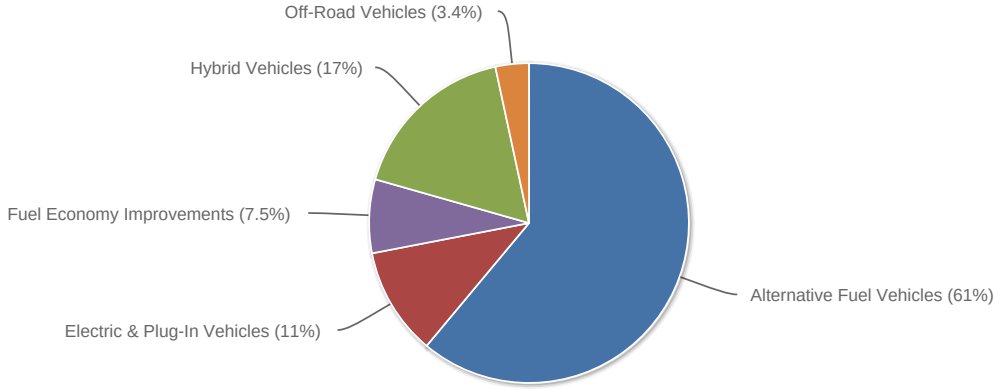
2014 Gallons of Gasoline Equivalent Reduced

6,060,353 gallons

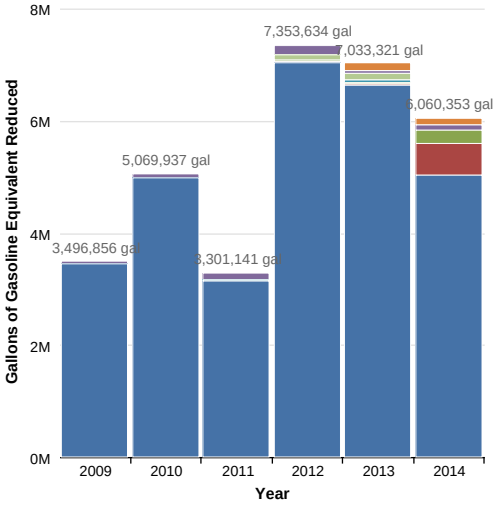


2014 Greenhouse Gas Emissions Reduced

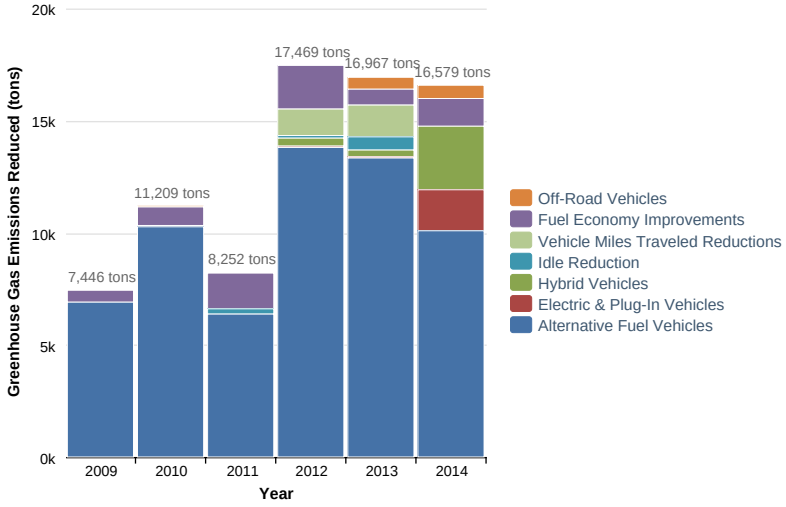
16,579 tons



Historical Gallons of Gasoline Equivalent Reduced

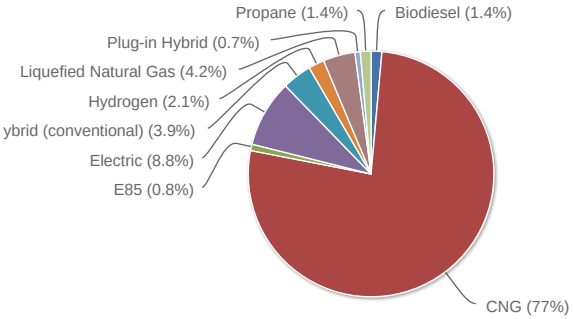


Historical Greenhouse Gas Emissions Reduced



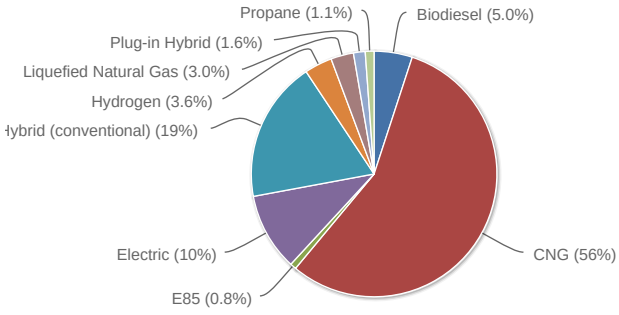
2014 Gallons of Gasoline Equivalent Reduced by Fuel Type for Alternative Fuel Projects

5,960,727 gallons



2014 Greenhouse Gas Emissions Reduced by Fuel Type for Alternative Fuel Projects

15,344 tons



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	617-242-8755, X14	617-242-0814
Stephen Russell	100 Cambridge St, Ste 1020 Boston, MA 02114	617-626-7325 or 617-797-5224 (cell)	617-727-0030

Number of coordinators	2
Coordinator(s) hours per week on Clean Cities	55 hours
Other staff hours per week on Clean Cities	15 hours
How long have you been the coordinator?	6 years

OPERATING INFORMATION

Host organization	Government - State

Stakeholders

Number of stakeholders	547
Number of private stakeholders	276
Does the State Energy Office provide any financial support to the coalition or stakeholders?	Yes

Explain State Energy Office's support

Salary and benefits as well as office space and administrative assistance

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

2014 Outside Funding

Stakeholder dues collected	$0
How much funding is obtained from other sources to cover coalition operating expenses?	$75,000
Non-DOE or ARRA grant and matching funds spent in 2014	$2,710,000
Total non-DOE or ARRA funding in 2014	$2,785,000

VEHICLE & FUEL INVENTORY

Alternative Fuel & Vehicles

Fleet/Station Name	Vehicle Class	Fuel	Number of Vehicles	Fuel Used	GGE Reduced	GHG Reduced
AVSG	Heavy-Duty	CNG	25	259,000 GGE	246,065 gal	462.9 tons
Market: Corporate Fleet **Vehicle type:** Bus: Shuttle **Percentage from coalition:** 100% **National Clean Fleets Partnership:** No						
This stakeholder supplies Natural gas to several fleets in Massachusetts. The Mass Steamship authority, Lowell RTA, Charles River transportation, Stop and Shop, and Mass Highway (not reported above)						
Boston Water and Sewer	Heavy-Duty	Biodiesel (5%)	-	79,000 gal	4,009 gal	36.7 tons
Market: Government - Local **Vehicle type:** Truck: No Trailer **Percentage from coalition:** 100% **National Clean Fleets Partnership:** No						
This fleet is not part of the State mandate and is purchasing fuel from the State of Massachusetts Biodiesel contact that coalition assisted in the development of the bid specifications.						
Cape Cod Biofuels	Heavy-Duty	Biodiesel (100%)	650	13,000 gal	13,195 gal	120.9 tons
Market: General/Unknown **Vehicle type:** Unknown/Other **Percentage from coalition:** 100% **National Clean Fleets Partnership:** No						
This operation sold 13,000 gallons of B-100 that was used exclusively in the transportation sector. They are a a small biodiesel produced that collects used cooking oil from restaurants on Cape Cod. They received a grant form Massachusetts DOER/ Clean Cities to expand their operation.						
City of Boston Fleet	Heavy-Duty	Biodiesel (10%)	330	209,999 gal	21,315 gal	195.3 tons
Market: Government - Local **Vehicle type:** Truck: No Trailer **Percentage from coalition:** 100% **National Clean Fleets Partnership:** No						
This is a City fleet using B-10 as they have a centrally fueled fleet. Clean cities coalition coordinator has done several presentations on Biodiesel to their fleet						
City of Boston Fleet	Heavy-Duty	Biodiesel (20%)	330	89,076 gal	18,082 gal	165.7 tons
Market: Government - Local **Vehicle type:** Truck: No Trailer **Percentage from coalition:** 100% **National Clean Fleets Partnership:** No						
They have moved to a B-20 level from B-10 this year for part of the year.						
City of Boston Fleet	Light-Duty	CNG	1	591 GGE	561 gal	1.1 tons
Market: Government - Local **Vehicle type:** Pickup/SUV/Van **Percentage from coalition:** 100% **National Clean Fleets Partnership:** No						
This is a City fleet using B-10 as they have a centrally fueled fleet.						

Fleet/Station Name	Vehicle Class	Fuel	Number of Vehicles	Fuel Used	GGE Reduced	GHG Reduced
City of Boston Fleet	Light-Duty	E85	3	1,694 gal	947 gal	2.4 tons
Market: Government - Local **Vehicle type:** Car **Percentage from coalition:** 100% **National Clean Fleets Partnership:** No *Only a portion of their light duty fleet is close to An E-85 station thus the low vehicle count*						
City of Boston Fleet	Light-Duty	E85	93	1,694 gal	947 gal	2.4 tons
Market: Government - Local **Vehicle type:** Car **Percentage from coalition:** 100% **National Clean Fleets Partnership:** No *The E-85 station is located in such a location that only a portion of the Flex fueled fleet can get fule that does not take them out of the way. I do not know the specific number of*						
Dennis K Burke	Heavy-Duty	Biodiesel (20%)	-	187,564 gal	19,038 gal	174.5 tons
Market: Corporate Fleet **Vehicle type:** Bus: Shuttle **Percentage from coalition:** 50% **National Clean Fleets Partnership:** No *This is biodiesel sold to various fleets in Massachusetts not including the state Fleet that has a contract with this company for their Biodiesel blends.*						
Dennis K Burke	Light-Duty	E85	23	19,858 gal	8,330 gal	20.8 tons
Market: General/Unknown **Vehicle type:** Car **Percentage from coalition:** 75% **National Clean Fleets Partnership:** No *This is a retail station with one pump dedicated to E-85*						
Dennis K. Burke	Heavy-Duty	Biodiesel (20%)	-	16,951 gal	2,581 gal	23.6 tons
Market: General/Unknown **Vehicle type:** Truck: Semi-tailer **Percentage from coalition:** 75% **National Clean Fleets Partnership:** No *This station sells B-20 to the trucks and diesels that are in and out of Boston*						
Dennis K. Burke	Light-Duty	E85	18	15,202 gal	4,251 gal	10.6 tons
Market: Corporate Fleet **Vehicle type:** Car **Percentage from coalition:** 50% **National Clean Fleets Partnership:** No *This is the delivered E-85 the company delivers to fleets in Massachusetts. Separte from the E-85 sold at their retail location.*						
Gulf Oil Cumberland Farms	Light-Duty	E85	197	85,137 gal	35,713 gal	89.3 tons
Market: General/Unknown **Vehicle type:** Car **Percentage from coalition:** 75% **National Clean Fleets Partnership:** No *This is the total fuel sold at the 3 E-85 retail stations on the Mass Pike. Gulf is an active stakeholder in the coalition.*						
Gulf/Cumberland farms	Heavy-Duty	LNG	44	100% of time	250,044 gal	457.5 tons
Miles traveled per vehicle: 66,768 mi **Average vehicle fuel economy:** 6 MPGde **Market:** General/Unknown **Vehicle type:** Truck: Semi-tailer **Percentage from coalition:** 50% **National Clean Fleets Partnership:** No *This is a place holder I am waiting from details from Gulf finally found the contact for this detail*						

Fleet/Station Name	Vehicle Class	Fuel	Number of Vehicles	Fuel Used	GGE Reduced	GHG Reduced
Knight's Airport Limo service	Light-Duty	Propane	10	127,268 gal	70,634 gal	147.4 tons
Market: Airport **Vehicle type:** Pickup/SUV/Van **Percentage from coalition:** 75% **National Clean Fleets Partnership:** No						
They converted 10 vans to run on Propane and have a request in for funding to complete the fleet in 2015						
Lowell RTA	Heavy-Duty	CNG	10	100% of time	28,787 gal	54.2 tons
Miles traveled per vehicle: 36,424 mi **Average vehicle fuel economy:** 7 MPGde **Market:** General/Unknown **Vehicle type:** Bus: Transit **Percentage from coalition:** 50% **National Clean Fleets Partnership:** No						
MBTA - Massachusetts Bay Transportation Authority	Heavy-Duty	CNG	358	4,500,934 GGE	4,276,149 gal	8,044.1 tons
Market: Government - State **Vehicle type:** Bus: Transit **Percentage from coalition:** 100% **National Clean Fleets Partnership:** No						
Massachusetts DOT (highway)	Heavy-Duty	CNG	10	100% of time	9,155 gal	17.2 tons
Miles traveled per vehicle: 13,239 mi **Average vehicle fuel economy:** 12 MPGde **Market:** Government - State **Vehicle type:** Truck: No Trailer **Percentage from coalition:** 75% **National Clean Fleets Partnership:** No						
Mass highway is now moving back to CNG now that there are manufacturers producing the CNG option now so stay tuned.						
Massachusetts DOT (highway)	Light-Duty	CNG	18	50% of time	8,210 gal	15.4 tons
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						
These trucks are used in districts where there is no CNG infrastructure but the trucks do get moved around the state and when they are in CNG fueling territories they fuel up with CNG. *3/25/15 Kay Kelly unchecked NCFP box, call with questions*						
Massachusetts DOT (highway)	Light-Duty	Propane	15	100% of time	13,684 gal	28.6 tons
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						
The fleet is moving towards more propane in their light duty pick up fleet.						

Fleet/Station Name	Vehicle Class	Fuel	Number of Vehicles	Fuel Used	GGE Reduced	GHG Reduced
Massachusetts State Diesel Fleet	Heavy-Duty	Biodiesel (5%)	-	157,312 gal	5,988 gal	54.9 tons
Market: Government - State **Vehicle type:** Unknown/Other **Percentage from coalition:** 75% **National Clean Fleets Partnership:** No						
Massachusetts clean cities was very instrumental in the executive order for the Massachusetts State fleet and continues to work with the contract for this fuel. In addition this is moving to B-15 in Q 2 of 2015						
Total:			**2,135**		**5,037,686 gal**	**10,125 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	4,775	2,905 gal	9.4 tons
Electricity used: 20,344 kWh **Market:** Government - Local **Vehicle type:** Car **Percentage from coalition:** 100% **National Clean Fleets Partnership:** No					
This represents 40 Charging stations installed under a grant from Clean Cities. It represents 7.3 months in 2014 because some of the communities no longer pay for data collection on the units. *Breaking this down it is 203.43 MWh - 348 KWh per outlet and average of 209 sessions - 4.26 KWh per session*					
Brauns express	Heavy-Duty	HEV	1	938 gal	11.6 tons
Average electric fuel economy: - kWh/100mi **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					
Massachusetts Clean Cities funded the hybrid technology addition to this truck.					
Cambridge Landscape	Heavy-Duty	HEV	2	617 gal	7.6 tons
Average electric fuel economy: - kWh/100mi **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:** 100% **National Clean Fleets Partnership:** No					
mass clean cities provided funding for the purchase of this tecnology					
Chargepoint Charging stations	Light-Duty	Electric	1,392	6,287 gal	20.4 tons
Electricity used: 58,703 kWh **Market:** General/Unknown **Vehicle type:** Car **Percentage from coalition:** 75% **National Clean Fleets Partnership:** No					
Mass clean cities sponsored 120 of these stations reported from Chargepoint only . This data represents all the Chargepoint units in the State which is several 100 more that the state funded.					
City of Boston	Light-Duty	Electric	2	1,552 gal	5.0 tons
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					
The City of Boston has begun to add Battery electric vehicles in their fleet.					

Fleet/Station Name	Vehicle Class	Fuel	Number of Vehicles	GGE Reduced	GHG Reduced
City of Boston	Light-Duty	HEV	126	39,279 gal	483.8 tons
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					
The City of Boston has not only replaced all their ford Taurus's with Prius hybrids they reduced their fleet using zip car technology by 20 vehicles using car share technology.					
Diesel Direct	Heavy-Duty	HEV	1	516 gal	6.4 tons
Average electric fuel economy: - kWh/100mi **Average vehicle fuel economy:** 9 MPG **Miles traveled per vehicle per year:** 13,239 mi **Market:** Corporate Fleet **Vehicle type:** Truck: No Trailer **Percentage from coalition:** 100% **National Clean Fleets Partnership:** No					
Massachusetts Clean Cities funded the hybrid technology addition to this fuel delivery truck.					
Frito Lay	Heavy-Duty	Electric	5	9,365 gal	13.4 tons
Average electric fuel economy: - kWh/100mi **Miles traveled per vehicle per year:** 12,362 mi **Market:** Corporate Fleet **Vehicle type:** Truck: No Trailer **Percentage from coalition:** 100% **National Clean Fleets Partnership:** Yes					
These 5 trucks traveled roughly 63,000 miles in 2014 using no diesel fuel.					
MBTA bus fleet	Heavy-Duty	HEV	75	134,940 gal	1,662.2 tons
Average electric fuel economy: - kWh/100mi **Average vehicle fuel economy:** 6 MPG **Miles traveled per vehicle per year:** 36,424 mi **Market:** General/Unknown **Vehicle type:** Bus: Transit **Percentage from coalition:** 75% **National Clean Fleets Partnership:** No					
Next year MBTA is expected to have 6 all electric Buses.					
Mass DOT Highway fleet	Heavy-Duty	HEV	13	5,771 gal	71.1 tons
Average electric fuel economy: - kWh/100mi **Average vehicle fuel economy:** 9 MPG **Miles traveled per vehicle per year:** 13,239 mi **Market:** Government - State **Vehicle type:** Truck: No Trailer **Percentage from coalition:** 75% **National Clean Fleets Partnership:** No					
These vehicles are Freightliner Hybrid (diesel/electric) medium duty trucks with various body configurations.					
Mass DOT Highway fleet	Light-Duty	HEV	47	6,351 gal	78.2 tons
Average vehicle fuel economy: 38 MPG **Miles traveled per vehicle per year:** 10,614 mi **Market:** Government - State **Vehicle type:** Car **Percentage from coalition:** 75% **National Clean Fleets Partnership:** No					
Mass Municipal fleets	Light-Duty	Electric	63	30,395 gal	98.7 tons
Average electric fuel economy: - kWh/100mi **Miles traveled per vehicle per year:** 10,614 mi **Market:** Government - Local **Vehicle type:** Car **Percentage from coalition:** 75% **National Clean Fleets Partnership:** No					
These vehicles were funded through the MASSEVIP program funded for cities and towns though Mass DEP in Cooperation with Mass Clean Cities.					

Fleet/Station Name	Vehicle Class	Fuel	Number of Vehicles	GGE Reduced	GHG Reduced
Mass Municipal fleets	Light-Duty	PHEV	50	8,578 gal	49.2 tons
Average vehicle fuel economy: 46 MPG **Miles traveled per vehicle per year:** 10,614 mi **Market:** Government - Local **Vehicle type:** Car **Percentage from coalition:** 75% **National Clean Fleets Partnership:** No					
This was a grant program for Cities and Towns in Massachusetts - funds provided by Massachusetts Department of Environmental Protection with the Clean cities coalition working closely with the program.					
Massachusetts Clean Cities MOR-EV consumer rebate program	Light-Duty	Electric	409	263,099 gal	854.3 tons
Average electric fuel economy: - kWh/100mi **Miles traveled per vehicle per year:** 10,614 mi **Market:** General/Unknown **Vehicle type:** Car **Percentage from coalition:** 100% **National Clean Fleets Partnership:** No					
This is the number of leased or purchased BEV vehicles that are on the road as a direct result of the Consumer rebate program for Electric vehicles.					
Massachusetts Clean Cities MOR-EV consumer rebate program	Light-Duty	PHEV	144	32,939 gal	189.1 tons
Average vehicle fuel economy: 46 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					
This is the number of Plug - in Vehicles that were either purchased or leased as a direct result of rebates issued. Thus we do not know the mileage traveled.					
Massachusetts State Light Duty executive office fleet	Light-Duty	HEV	206	42,760 gal	526.7 tons
Average vehicle fuel economy: 50 MPG **Miles traveled per vehicle per year:** 11,788 mi **Market:** Government - State **Vehicle type:** Car **Percentage from coalition:** 75% **National Clean Fleets Partnership:** No					
Massachusetts Clean Cities funded the installation of hymotion batteries into 10 of the 206 Hybrid vehicles.					
Square One Daycare Center fleet	Light-Duty	HEV	5	464 gal	5.7 tons
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					
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					
Worcester Regional Transit Authority	Heavy-Duty	Electric	6	66,973 gal	96.0 tons
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					

Fleet/Station Name	Vehicle Class	Fuel	Number of Vehicles	GGE Reduced	GHG Reduced
Workplace Charging grant program	Light-Duty	Electric	300	144,736 gal	469.9 tons
Average electric fuel economy: - kWh/100mi **Miles traveled per vehicle per year:** 10,614 mi **Market:** General/Unknown **Vehicle type:** Car **Percentage from coalition:** 75% **National Clean Fleets Partnership:** No					
the Massachusetts Electric vehicle Incentive program provided grants workplaces to install Level 1 and level 2 charging stations they installed 424 charge points in 72 businesses.					
Total:			**7,622**	**798,463 gal**	**4,659 tons**

Off-Road Vehicles

Fleet Name	Application	Method	Fuel	Number of Vehicles	GGE Reduced	GHG Reduced
Sysco foods	Forklifts	Alternative fuel or vehicles	Hydrogen	230	124,578 gal	559.9 tons
Fuel used: 260,000 kg **Percentage from coalition:** 25% **National Clean Fleets Partnership:** No						
Total:				**230**	**124,578 gal**	**560 tons**

FUEL ECONOMY

Fuel Economy Improvements

Fleet Name	Previous Fuel	Current Fuel	Number of Vehicles	Miles Traveled per Vehicle	GGE Reduced	GHG Reduced
Brauns express	6 MPG	8 MPG	185	22,000 mi	46,188 gal	572.7 tons
Method: Trailer aerodynamic packages **Vehicle class:** Heavy-Duty **Market:** Corporate Fleet **Vehicle type:** Truck: Semi-tailer **Percentage from coalition:** 50% **National Clean Fleets Partnership:** No						
This fleet uses SmartWay technology to reduce fuel use in his rolling stock.						
Brauns express	6 MPG	7 MPG	60	22,000 mi	16,219 gal	201.1 tons
Method: Other **Vehicle class:** Heavy-Duty **Market:** Corporate Fleet **Vehicle type:** Truck: Semi-tailer **Percentage from coalition:** 50% **National Clean Fleets Partnership:** No						
The use of Idle free Battery electric -Powered Auxiliary power units on the sleeper cabs						
Staples	8 MPG	11 MPG	65	15,180 mi	37,219 gal	461.5 tons
Method: Other **Vehicle class:** Heavy-Duty **Market:** Corporate Fleet **Vehicle type:** Truck: No Trailer **Percentage from coalition:** 100% **National Clean Fleets Partnership:** Yes						
Staples uses a speed governor to achieve their Fuel Savings. 60 Miles per hour only.						
Total:			**310**	**59,180 mi**	**99,626 gal**	**1,235 tons**

FUEL STATIONS

New Stations

Fuel	Public Stations	Private Stations
Biodiesel	-	1
CNG - Compressed Natural Gas	1	-
E85 - 85% Ethanol	-	-
Electric Chargers	468	-
Hydrogen	-	-
LNG - Liquefied Natural Gas	-	-
Propane	-	1
Total:	**469**	**2**

OUTREACH ACTIVITIES

Activity Name	Dates	Activity Type	Percentage from Coalition	Persons Reached
12 Fleet visits throughout year	11/15/2013, 11/15/2014	Literature Distribution	100%	12
Technology: Alternative fuel vehicles, Fuel economy improvements, Hybrid electric vehicles, Idle reduction **Audience:** Airport, Delivery, General Public, Government, Private Fleets, Transit, Utility *Met individually with 12 Fleet managers throughout the year to discuss how Alternative fuels can play a role in their fleets. List of fleets provided in the 2014 deliverable report*				
December Stakeholder meeting	12/12/2013	Meeting - Stakeholder	75%	40
Technology: Alternative fuel vehicles, Hybrid electric vehicles **Audience:** Airport, Delivery, General Public, Government, Private Fleets, Transit, Utility *The DOER commissioner attended and announced the Clean Vehicle funding grant program. We also had a presentation on Electric roadways and also Propane in the transportation sector (Autogas)*				
Conn. Biodiesel forum UConn	12/16/2013	Conference participation	25%	50
Technology: Alternative fuel vehicles **Audience:** Government, Private Fleets, Transit, Utility, Waste *Massachusetts CC coordinator presented at the biodiesel Forum in CT regarding Massachusetts policies on biodiesel.*				
Lobstermans association conference	01/25/2014	Conference participation	25%	75
Technology: Fuel economy improvements **Audience:** Private Fleets, Other *Spoke about use of alternative fuels in the marine industry and it included the use of Biodiesel*				
Massachusetts Electric vehicle task force	01/28/2014	Meeting - Other	50%	70
Technology: Hybrid electric vehicles **Audience:** Government, Private Fleets, Transit, Utility *This task force was convened to develop polices to encourage more Electric vehicles on the road in Massachusetts. It was attended by various stakeholders Environmentalists, Fleet Managers EVSE manufacturers and high level state employees. The results have been very positive for the State. There was a follow up meeting May 8*				
Ribbon cutting at first DCFC installed charger in Massachusetts at UMass Amherst	02/18/2014	Media Event	75%	60
Technology: Alternative fuel vehicles **Audience:** Delivery, General Public, Government, Transit *This event marked the opening of a fast charger at the U Mass Amherst campus . DOER commissioner and energy secretary spoke at the event Clean Cities worked with U mass to make this happen.*				

Activity Name	Dates	Activity Type	Percentage from Coalition	Persons Reached
Department of Public Utilities Technical session	02/20/2014	Meeting - Other	25%	45
Technology: Alternative fuel vehicles **Audience:** Government, Utility				
The Massachusetts clean cities coordinator presented at the Department of Public Utilities regarding the Electric vehicle docket. We presented information on why the utilities should have a separate electric vehicle rate. There was also discussion about demand charges that effect the cost of fast charging in certain utilities.				
Barriers to advancing Biodiesel meeting	03/18/2014	Workshop held by coalition	75%	25
Technology: Alternative fuel vehicles **Audience:**				
This workshop was held with the small local biodiesel producers , Cape Cad Biofuels, Maine standard biofuels, Newport Biodiesel and White Mountain biofuels all came together to talk about what the barriers are to the production of biodiesel. *Maine CC, Vermont CC, Rhode Island CC and Granite State CC were all in attendance.*				
Electric transit Bus event at Worcester RTA	03/27/2014	Media Event	75%	75
Technology: Alternative fuel vehicles **Audience:** General Public, Government, Transit, Utility				
This event was attended by the governor Deval Patrick . He announced the fact that the RTA in Worcester had just acquired 6 Battery electric buses to be used in the transit system. See Clean Cities you Tube video of the governor's speech.				
First responder training	04/10/2014	Workshop held by coalition	100%	50
Technology: Alternative fuel vehicles **Audience:** Government				
The coalition provided first responder training on both gaseous and Electric fueled vehicles in Stowe Massachusetts				
Fuel cell in transportaion focus group	04/15/2014	Meeting - Other	25%	25
Technology: Alternative fuel vehicles **Audience:** Government, Private Fleets, Transit, Waste				
Massachusetts Clean Cities Coordinator attended a customer focus group conducted by Toyota Motor Co. They are rolling out a Fuel cell powered vehicle and wanted both fleet and clean cities feedback on a Fuel cell powered vehicle.				
April Stakeholder meeting	04/17/2014	Meeting - Stakeholder	100%	32
Technology: Hybrid electric vehicles, Idle reduction, Vehicle miles traveled reduction **Audience:** Airport, Delivery, General Public, Government, Private Fleets, Transit				
This stakeholder meeting included presentations updating stakeholders on the latest update's on the EPact regulation required of certain fleets. Ted Sears and Alexis Schayowitz from NREL and ICF presented. In addition Charlie Myers from the Massachusetts Hydrogen coalition presented information on the fuel cell technology developments in MA. 39 attendees. *It was held at the Boston foundation in downtown Boston a Free venue for non-profits*				
Presentation at the Staewidwide purchasing conference	05/01/2014	Conference participation	25%	25
Technology: Alternative fuel vehicles, Hybrid electric vehicles **Audience:** General Public, Government, Transit				
The Clean cities coordinator presented information about alternative fuel grants available in the state as well as presented on the various alternative fuel and technology options in the state.				
Massachusetts Electric vehicle task force	05/08/2014	Meeting - Stakeholder	100%	70
Technology: Hybrid electric vehicles, Vehicle miles traveled reduction **Audience:** Government, Private Fleets, Utility				
This was the second in a series of meeting to develop positive policies to promote More EV's on the road in Massachusetts.				
Presentation at National Governors Association meeting prior to the EDTA conference	05/19/2014	Conference participation	75%	35
Technology: Hybrid electric vehicles **Audience:** Government				
The presentation was on what policies are effective for increasing the numbers for Electric vehicles in a state.				

Activity Name	Dates	Activity Type	Percentage from Coalition	Persons Reached
Workplace Charging workshop	06/18/2014	Workshop held by coalition	100%	100
Technology: Alternative fuel vehicles **Audience:** Airport, Government, Utility				
Massachusetts clean cities developed and produced an EV charging workshop for major employers in the state. It was held in Billerica MA at a corporation that had meeting space and parking space for EVs. It was well attended and on that day we announced the Consumer rebates for EVs and PHEVs as well as a grant program for workplace charging.				
Clean Cities Stakeholder meeting	07/24/2014	Meeting - Stakeholder	75%	25
Technology: Alternative fuel vehicles **Audience:** Government, Private Fleets, Utility				
This stakeholder meeting there was an update on the status of grant funding and presentations of XL hybrid and National hybrid technology.				
Display and Northeast Propane association Expo	08/06/2014	Conference participation	50%	100
Technology: Alternative fuel vehicles **Audience:** Airport, Delivery, General Public, Government, Private Fleets, Utility, Waste				
Massachusetts Clean Cities along with NH, Maine, Vermont and CT Clean cities all participated in the Northeast Propane Association conference and expo in Boxboro MA. The Clean cities table answered question about Auto gas (LPG) in the transportation sector. It was a 2 day event.				
M.P.O. webinar	08/25/2014	Social Media	100%	25
Technology: Alternative fuel vehicles **Audience:** Government				
This webinar was held for the regional Metropolitan Planning associations to present the role of Alternative fuels in the region and bringing the organizations up to speed on what they can do to encourage the use of alternative fuels in their respective territories.				
Department of Public Utilities EV technical session	10/16/2014	Conference participation	75%	40
Technology: Hybrid electric vehicles **Audience:** Government				
Massachusetts Clean Cities coalition participated in the EV technical session to respond to questions regarding statewide policies involving special rates for electric vehicles as well as what role the utility should play regarding EV infrastructure. The coalition was an active participant in the discussion.				
Green Expo Newton MA	10/19/2014	Literature Distribution	100%	50
Technology: Alternative fuel vehicles **Audience:** General Public				
the Clean Cities Coalition staffed a table and the Annual green expo to inform Consumers about the Massachusetts Electric vehicle rebate program. As well as discuss other ways to reduce fuel consumption in the transportation sector.				
AltWheels Fleet Day	10/20/2014	Workshop held by coalition	100%	265
Technology: Alternative fuel vehicles, Fuel economy improvements, Hybrid electric vehicles, Idle reduction **Audience:** Airport, Delivery, General Public, Government, Private Fleets, Transit, Utility, Waste				
This is a day long workshop for Fleet managers on Alternative fuels and technologies. It involves panel presentations and displays of alternative fuel technologies and vehicles. Program developed by the Clean Cirtes coordinator				
Square one Daycare center media event	10/27/2014	Media Event	100%	30
Technology: Hybrid electric vehicles **Audience:** General Public, Government, Other				
Massachusetts Clean cities along with the Department of Environmental protection(funded the project) Installed XL hybrid technologies on 5 of the E 250 Vans that provide transportation for the Daycare center children to get to and from their homes to the various centers in the City. This event marked the conclusion of all the installs. Providing a significant Fuel savings for the non-Profit Daycare center.				
H2 Summit	10/29/2014	Conference participation	75%	50
Technology: Alternative fuel vehicles **Audience:** Delivery, General Public, Government, Utility				
The Massachusetts Clean Cities Coordinator was invited to speak on a panel regarding Hydrogen fuel cell opportunities in Massachusetts.the event was held at Western Mass University.				
Total:				**1,374**

GRANTS

Grantor	Total Grant Amount	Total Matching Funds	Total Project Funding	Grant Amount Spent in 2014	Matching Funds Spent in 2014	Total Project Funding Spent in 2014
CMAQ	$11,700,000	$0	$11,700,000	$60,000	$0	$60,000

Length of grant: 3
Year grant began: 2014
Sources of the grant: Congestion Mitigation and Air Quality Improvement (CMAQ) Program
Partners: R.G.G.I is also the source for 3,800,00.00
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

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.

DOE FOA " Barriers to Alternative fuels"	$99,000	-	$99,000	$60,000	$0	$60,000

Additional grant money added in 2014 $0
Additional matching funds added in 2014 $0
Length of grant: 2
Year grant began: 2013
Sources of the grant: Department of Energy
Partners: Maine, NH, Vt. RI and Massachusetts
Technologies: B100 - 100 percent Biodiesel, Biodiesel Blends, CNG - Compressed Natural Gas, E85 - 85 percent Ethanol, H2 - Hydrogen, Propane
Purpose: Examine Barriers to the use of Alternative fuels - 2013 and 2014

We surveyed Fleet Managers, MPO's about barriers to the use of Alternative fuels and worked with Alternative fuel suppliers to determine if there are any barriers to transporting Alternative fuels in the region. Worked with MPO's in the region to educate them on Alternative fuels. In addition we surveyed Fleet Managers in the region on what barriers they see in using Alternative fuels in their fleets.

Department of Energy Resources	$2,000,000	-	$2,000,000	$1,500,000	$0	$1,500,000

Length of grant: 2
Year grant began: 2014
Sources of the grant: None of the above
Partners: RGGI funds
Technologies: Electricity
Purpose: This is a consumers rebate for individuals who purchase BEVs or PHEVs

Rebates - $2,500.00 BEV - $1,500 PHEV

Department of Energy Resources	$750,000	-	$750,000	$100,000	$0	$100,000

Length of grant: 2
Year grant began: 2014
Sources of the grant: None of the above
Partners: Alternative Compliant Payments (from Utilities)
Technologies: Biodiesel Blends
Purpose: Provide expansion dollars for Biodiesel production in the State of Massachusetts

Funded two small Biodiesel producers in the State for expansion of their production facilities. They produce ASTM standard biofuel from waste grease collected in the state.

Department of Enviormental Protection	$50,000	-	$50,000	$50,000	$0	$50,000

Length of grant: 1
Year grant began: 2014
Sources of the grant: State Government
Technologies: Electricity
Purpose: Install XL hybrid technology on Daycare center vans in Springfield Maa

Mass Clean Cities worked with DEP funds to coordinate the installation of XL hybrid technologies on 5 of their E250 vans that provide transportation to low income kids. This project is saving fuel and reducing the cost of their operation.

Grantor	Total Grant Amount	Total Matching Funds	Total Project Funding	Grant Amount Spent in 2014	Matching Funds Spent in 2014	Total Project Funding Spent in 2014
Department of Environmental Protection	$1,000,000	-	$1,000,000	$500,000	$0	$500,000
Length of grant: 2 **Year grant began:** 2014 **Sources of the grant:** State Government **Technologies:** Electricity **Purpose:** Provide incentives for Cities and Towns to purchase BEVs and PHEVs *Mass EVIP - This is a grant for Cities and Towns to purchase BEVs and PHEVs as well as obtain EVSEs $7,500.00 for BEVs and $5,000 for PHEVs and support for Charging stations also.*						
Department of Environmental Protection	$1,000,000	-	$1,000,000	$500,000	$0	$500,000
Length of grant: 2 **Year grant began:** 2014 **Sources of the grant:** None of the above **Technologies:** Electricity **Purpose:** Workplace charging grant for Businesses *This grant provides up to 25,000. or 50 percent of cost for charging station hardware to support workplace charging in Massachusetts.*						
Massachsuetts Clean Cities Department of Energy Resources	$1,800,000	-	$1,800,000	$0	$0	$0
Additional grant money added in 2014 $0 **Additional matching funds added in 2014** $0 **Length of grant:** 2 **Year grant began:** 2013 **Sources of the grant:** None of the above **Partners:** R.G.G.I. funding **Technologies:** Electricity **Purpose:** Develop an Electric school bus vehicle to grid for 4 communities in the state. *Work with electric bus manufacturers, school districts as well as the utilities to develop a Vehicle to grid(V2G)pilot.*						
Total:	**$18,399,000**	**$0**	**$18,399,000**	**$2,770,000**	**$0**	**$2,770,000**