

2013 Transportation Technology Deployment Report:

Massachusetts Clean Cities

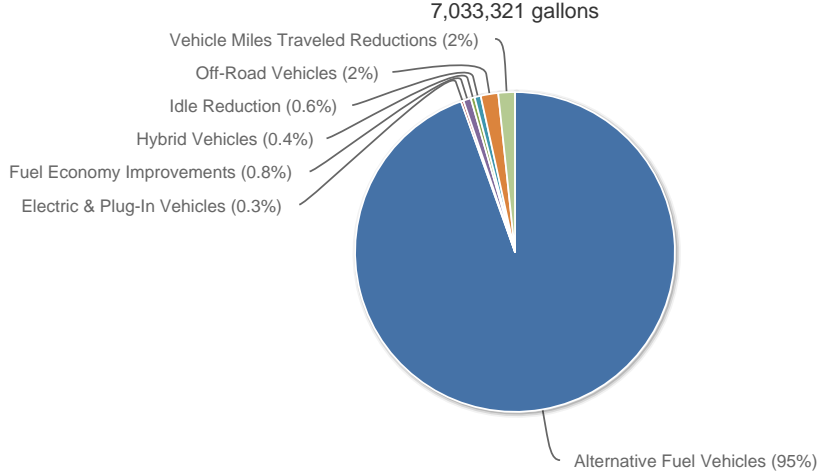
March 2014

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.

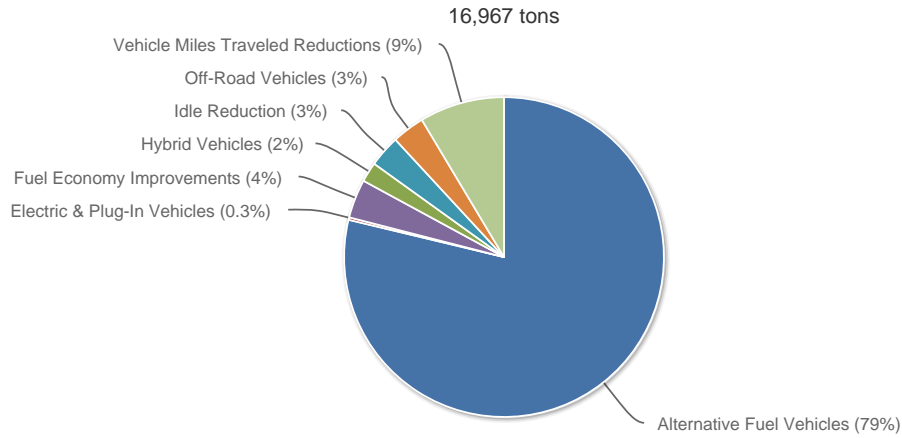
Every year, each Clean Cities coalition submits to DOE an annual report of its activities and accomplishments for the previous calendar year. Coalition coordinators, who lead the local coalitions, provide information and data via an online database managed by the National Renewable Energy Laboratory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

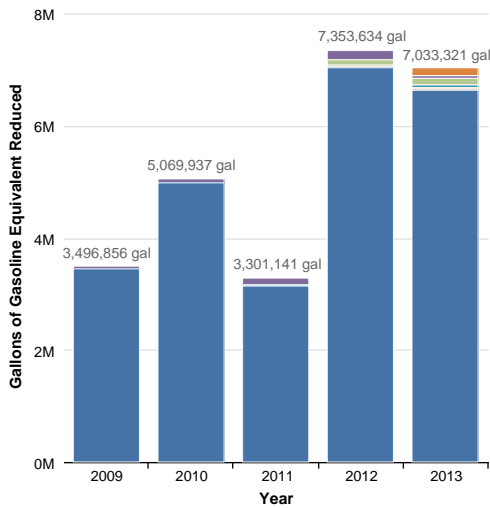
2013 Gallons of Gasoline Equivalent Reduced



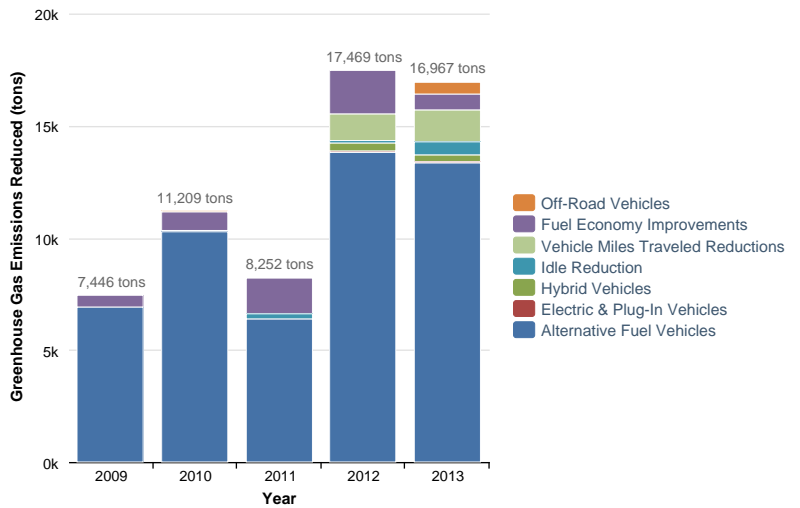
2013 Greenhouse Gas Emissions Reduced



Historical Gallons of Gasoline Equivalent Reduced

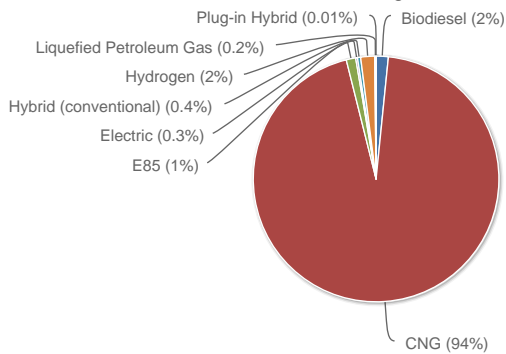


Historical Greenhouse Gas Emissions Reduced



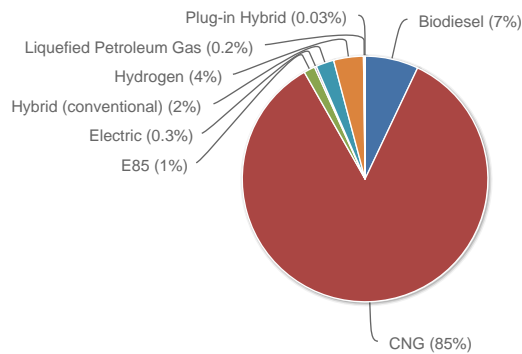
2013 Gallons of Gasoline Equivalent Reduced by Fuel Type for Alternative Fuel Projects

6,818,176 gallons



2013 Greenhouse Gas Emissions Reduced by Fuel Type for Alternative Fuel Projects

14,303 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?	5 years

OPERATING INFORMATION

Host organization	Government - State
Stakeholders	
Number of stakeholders	495
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 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?	Coalition records, Paper, e-mail, or spreadsheet questionnaire to stakeholders, Phone calls to stakeholders

Has your coalition registered with www.grants.gov?

Yes

2013 Outside Funding

Stakeholder dues collected	\$0
How much funding is obtained from other sources to cover coalition operating expenses?	\$128,000
Non-DOE or ARRA grant and matching funds spent in 2013	\$286,000
Total non-DOE or ARRA funding in 2013	\$414,000

VEHICLE & FUEL INVENTORY

Alternative Fuel & Vehicles

Fleet/Station Name	Vehicle Class	Fuel	Number of Vehicles	Fuel Used	GGE Reduced	GHG Reduced
Boston Water and Sewer	Heavy-Duty	Biodiesel (5%)	-	78,000 gal	3,958 gal	36.3 tons
<p>Market: Government - Local Vehicle type: Truck: No Trailer Percentage from coalition: 100% National Clean Fleets Partnership: No</p> <p><i>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.</i></p>						
Cape Cod Biofuels	Heavy-Duty	Biodiesel (20%)	3	10,000 gal	1,522 gal	14.0 tons
<p>Market: Corporate Fleet Vehicle type: Truck: No Trailer Percentage from coalition: 75% National Clean Fleets Partnership: No</p> <p><i>Cape Cod Biofuels uses this fuel in their deliver trucks and they are a clean Cities Stakeholder</i></p>						
Cape Cod RTA	Heavy-Duty	Biodiesel (20%)	18	169,000 gal	25,730 gal	235.8 tons
<p>Market: Government - Local Vehicle type: Bus: Transit Percentage from coalition: 75% National Clean Fleets Partnership: No</p> <p><i>CCRTA began use of Biodiesel based on information provided by the Clean Cities coalition</i></p>						
Charles River Transportation Management association	Heavy-Duty	CNG	7	114,000 GGE	108,307 gal	203.7 tons
<p>Market: Corporate Fleet Vehicle type: Bus: Transit Percentage from coalition: 100% National Clean Fleets Partnership: No</p> <p><i>Massachusetts Clean cities funded the differential cost of CNG option on these buses.</i></p>						
City of Boston Fleet	Heavy-Duty	Biodiesel (10%)	-	308,922 gal	31,356 gal	287.3 tons
<p>Market: Government - Local Vehicle type: Truck: No Trailer Percentage from coalition: 100% National Clean Fleets Partnership: No</p> <p><i>This is a City fleet using B-10 as they have a centrally fueled fleet.</i></p>						
Courtyard by Marriot	Heavy-Duty	CNG	4	56,000 GGE	53,203 gal	100.1 tons
<p>Market: Airport Vehicle type: Bus: Shuttle Percentage from coalition: 100% National Clean Fleets Partnership: No</p> <p><i>Clean Cities funded the differential cost of these vehicles.</i></p>						

Fleet/Station Name	Vehicle Class	Fuel	Number of Vehicles	Fuel Used	GGE Reduced	GHG Reduced
Dennis K Burke retail station	Heavy-Duty	Biodiesel (20%)	-	22,000 gal	4,466 gal	40.9 tons
<p>Market: General/Unknown Vehicle type: Unknown/Other Percentage from coalition: 100% National Clean Fleets Partnership: No</p> <p><i>In addition to selling B-20 at their retail station Dennis K Burke has the Statewide Biodiesel contract and those b-20 volumes are reported under the state fleet. Those deliveries are done to centrally fueled fleets across the State and are not purchased at the retail station.</i></p>						
Dennis K Burke retail station	Light-Duty	E85	50	82,000 gal	34,397 gal	86.0 tons
<p>Market: General/Unknown Vehicle type: Car Percentage from coalition: 75% National Clean Fleets Partnership: Yes</p> <p><i>Dennis K Burke is an Active Stakeholder and promotes the use of Alternative fuels. He sells it at the pumps</i></p>						
Gulf oil/Cumberland Farms	Light-Duty	E85	0	89,154 gal	49,864 gal	124.6 tons
<p>Market: General/Unknown Vehicle type: Car Percentage from coalition: 100% National Clean Fleets Partnership: No</p> <p><i>Clean Cities assisted in funding this project and Gulf oil is a stakeholder. This are new stations opened in late 2012 on the Massachusetts turnpike. we now have a full year of fuel usage .</i></p>						
Knights airport shuttle	Light-Duty	LPG	10	100% of time	12,163 gal	25.4 tons
<p>Miles traveled per vehicle: 14,596 mi Average vehicle fuel economy: 12 MPGge Market: Airport Vehicle type: Pickup/SUV/Van Percentage from coalition: 100% National Clean Fleets Partnership: No</p> <p><i>Knights airport shuttle converted 10 of his F 350 vans to LPG in 2013</i></p>						
Lowell RTA	Heavy-Duty	CNG	10	152,631 GGE	145,008 gal	272.8 tons
<p>Market: Government - Local Vehicle type: Bus: Transit Percentage from coalition: 100% National Clean Fleets Partnership: No</p>						
MBTA - Massachusetts Bay Transportation Authority	Heavy-Duty	CNG	320	5,449,532 GGE	5,177,372 gal	9,739.5 tons
<p>Market: Government - State Vehicle type: Bus: Transit Percentage from coalition: 100% National Clean Fleets Partnership: No</p>						
Mass DOT and other shuttles using Logan AP	Heavy-Duty	CNG	290	765,000 GGE	726,794 gal	1,367.2 tons
<p>Market: Government - State Vehicle type: Truck: No Trailer Percentage from coalition: 100% National Clean Fleets Partnership: No</p>						
Massachusetts State Fleet	Heavy-Duty	Biodiesel (5%)	-	1,125,470 gal	42,838 gal	392.6 tons
<p>Market: Government - State Vehicle type: Truck: No Trailer Percentage from coalition: 75% National Clean Fleets Partnership: No</p> <p><i>Massachusetts Clean cities had direct involvement in getting the state to use B-5 biodiesel. The coalition worked with the legislature and educated the fleet managers on the benefits of the fuel. in 2008. The coalition assists in writing the specifications for the biodiesel contract also.</i></p>						

Fleet/Station Name	Vehicle Class	Fuel	Number of Vehicles	Fuel Used	GGE Reduced	GHG Reduced
Massport (logan Airport)	Heavy-Duty	CNG	45	110,567 GGE	105,045 gal	197.6 tons
Market: Airport Vehicle type: Bus: Shuttle Percentage from coalition: 100% National Clean Fleets Partnership: No						
National Grid - Massachusetts	Heavy-Duty	CNG	150	152,780 GGE	72,575 gal	136.5 tons
Market: Utility Vehicle type: Truck: No Trailer Percentage from coalition: 50% National Clean Fleets Partnership: No						
Steamship Authority	Heavy-Duty	CNG	5	56,467 GGE	53,647 gal	100.9 tons
Market: Government - State Vehicle type: Bus: Shuttle Percentage from coalition: 100% National Clean Fleets Partnership: No						
Total:			912		6,648,247 gal	13,361 tons

Electric, Hybrid & Plug-in Vehicles

Fleet/Station Name	Vehicle Class	Fuel	Number of Vehicles	GGE Reduced	GHG Reduced
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 <i>Massachusetts Clean Cities funded the hybrid technology addition to this truck.</i>					
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 <i>mass clean cities provided funding for the purchase of this technology</i>					
City of Boston	Light-Duty	HEV	80	24,939 gal	307.2 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 <i>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.</i>					
Electric vehicle supply stations	Light-Duty	Electric	800	7,711 gal	25.0 tons
Electricity used: 54,000 kWh Market: General/Unknown Vehicle type: Car Percentage from coalition: 100% National Clean Fleets Partnership: No 2,125 is the number of registered EV's in Massachusetts that are using the public charging stations. There are actually 2600 vehicles registered less the 275 TESLA registered because they do not use public charging stations					

Fleet/Station Name	Vehicle Class	Fuel	Number of Vehicles	GGE Reduced	GHG Reduced
Frito Lay 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 <i>These 5 trucks traveled roughly 63,000 miles in 2013 using no diesel fuel.</i>	Heavy-Duty	Electric	5	9,365 gal	13.4 tons
High Output Average electric fuel economy: - kWh/100mi Average vehicle fuel economy: 8 MPG Miles traveled per vehicle per year: 34,321 mi Market: Corporate Fleet Vehicle type: Truck: No Trailer Percentage from coalition: 100% National Clean Fleets Partnership: No <i>Clean cities funded the hybrid addition to this vehicle.</i>	Heavy-Duty	HEV	1	757 gal	9.3 tons
Massachusetts Highway Dept (DOT) Average vehicle fuel economy: 60 MPG Miles traveled per vehicle per year: 10,458 mi Market: Government - State Vehicle type: Car Percentage from coalition: 20% National Clean Fleets Partnership: No	Light-Duty	PHEV	15	732 gal	4.2 tons
diesel Direct Average electric fuel economy: - kWh/100mi Average vehicle fuel economy: 8 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 <i>Massachusetts Clean Cities funded the hybrid technology addition to this fuel delivery truck.</i>	Heavy-Duty	HEV	1	292 gal	3.6 tons
Total:			905	45,351 gal	382 tons

Off-Road Vehicles

Fleet Name	Application	Method	Fuel	Number of Vehicles	GGE Reduced	GHG Reduced
Sysco foods Fuel used: 260,000 kg Percentage from coalition: 25% National Clean Fleets Partnership: No	Forklifts	Alternative fuel or vehicles	Hydrogen	230	124,578 gal	559.9 tons
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	7 MPG	53	22,000 mi	4,378 gal	54.3 tons
<p>Method: Tires - Low-rolling resistance Vehicle class: Heavy-Duty Market: Corporate Fleet Vehicle type: Truck: Semi-tailer Percentage from coalition: 50% National Clean Fleets Partnership: No</p> <p><i>The low rolling resistant tires along with aluminum wheels has produce a 3% savings in fuel in their 53 tractor trailers delivering furniture up and down the east coast.</i></p>						
Cambridge Landscape	15 MPG	20 MPG	1	16,532 mi	276 gal	3.4 tons
<p>Method: Vehicle - More efficient Vehicle class: Light-Duty Market: Corporate Fleet Vehicle type: Pickup/SUV/Van Percentage from coalition: 100% National Clean Fleets Partnership: No</p>						
High Output	5 MPG	7 MPG	1	34,321 mi	2,246 gal	27.9 tons
<p>Method: Vehicle - More efficient Vehicle class: Heavy-Duty Market: Corporate Fleet Vehicle type: Truck: No Trailer Percentage from coalition: 100% National Clean Fleets Partnership: No</p> <p><i>Clean cities funded the hybrid addition to this vehicle.</i></p>						
Massachusetts State light duty fleet (PHEV)	42 MPG	60 MPG	10	13,546 mi	968 gal	11.9 tons
<p>Method: Vehicle - More efficient Vehicle class: Light-Duty Market: Government - State Vehicle type: Car Percentage from coalition: 100% National Clean Fleets Partnership: No</p> <p><i>The State retrofited 10 Toyota prius staff cars with Hymotion batteries.</i></p>						
Staples	8 MPG	11 MPG	80	15,180 mi	45,808 gal	568.0 tons
<p>Method: Vehicle - More efficient Vehicle class: Heavy-Duty Market: Corporate Fleet Vehicle type: Truck: No Trailer Percentage from coalition: 100% National Clean Fleets Partnership: Yes</p> <p><i>Staples uses a speed governor to achieve their Fuel Savings. 60 Miles per hour only.</i></p>						
Total:			145	101,579 mi	53,676 gal	665 tons

Vehicle Miles Traveled Reductions

Fleet Name	Method	Vehicle Class	GGE Reduced	GHG Reduced
Massport (logan airport)	Other	Heavy-Duty	117,470 gal	1,456.7 tons
<p>Fuel: Diesel Fuel economy: 6 MPG Number of vehicles: 98 VMT reduction per vehicle: 10,000 mi Percentage from coalition: 65% National Clean Fleets Partnership: No</p> <p><i>Logan airport has opened a central rental car facility and took 98 buses off the road in 2013. due to the fact that these buses were owned by various rental companies it is difficult to get specifics on fuel eliminated</i></p>				
Total:			117,470 gal	1,457 tons

IDLE REDUCTION

Onboard Idle Reduction

Fleet Name	Number of Vehicles	Equipment Usage per Vehicle	Fuel Saved per Vehicle	GGE Reduced	GHG Reduced
Brauns express	53	1,830 hrs/year	1 gal/hr	44,000 gal	542.0 tons
Equipment: Auxiliary power unit (APU) Percentage from coalition: 50% National Clean Fleets Partnership: No <i>the savings calculated by the fleet manager was 1,000 gallons of fuel savings per truck per year.</i>					
Total:	53			44,000 gal	542 tons

FUEL STATIONS

New Stations

Fuel	Public Stations	Private Stations
Biodiesel	-	-
CNG - Compressed Natural Gas	-	3
E85 - 85% Ethanol	-	-
Electric Chargers	126	16
Hydrogen	-	-
LNG - Liquefied Natural Gas	-	1
LPG - Liquefied Petroleum Gas	-	1
Total:	126	21

OUTREACH ACTIVITIES

Activity Name	Dates	Activity Type	Percentage from Coalition	Persons Reached
December Stakeholder meeting	12/13/2012	Meeting - Stakeholder	75%	36
Technology: Alternative fuel vehicles, Hybrid electric vehicles Audience: Airport, Delivery, General Public, Government, Private Fleets, Transit, Utility Clean Cities 20th Anniversary Event: No <i>This meeting covered an update on Electric vehicles in Massachusetts as well as what is happening in the region with the TCI initiative.</i>				
Ribbon cutting ceremony	01/24/2013	Media Event	100%	28
Technology: Alternative fuel vehicles Audience: General Public, Government, Private Fleets, Transit Clean Cities 20th Anniversary Event: No <i>Knights airport shuttle service has converted the shuttle vans to propane autogas and this event provided media coverage to this exciting event.</i>				
February Stakeholder meeting	02/14/2013	Meeting - Stakeholder	100%	32
Technology: Hybrid electric vehicles, Idle reduction, Vehicle miles traveled reduction Audience: Airport, Delivery, General Public, Government, Private Fleets, Transit Clean Cities 20th Anniversary Event: Yes <i>This stakeholder meeting included presentations from Worcester Regional Transit Authority and the new Electric buses that they are taking delivery of in the spring. They will have the largest number of all electric transit buses in the state. In addition ENOW presented their technology that provides solar panels on medium duty trucks that provide enough stored power for the elimination of idling for ancillary items such as lights and Lift-gates. The State of Massachusetts also presented the new OVM-10 Vehicle purchasing contract for the state.</i>				
12 Fleet visits throughout year	03/01/2013	Literature Distribution	100%	12
Technology: Alternative fuel vehicles, Fuel blends, Fuel economy improvements, Hybrid electric vehicles, Idle reduction Audience: Airport, Delivery, General Public, Government, Private Fleets, Transit, Utility Clean Cities 20th Anniversary Event: No <i>Met individually with 12 Fleet managers throughout the year to discuss how Alternative fuels can play a role in their fleets.</i>				

Activity Name	Dates	Activity Type	Percentage from Coalition	Persons Reached
Electric vehicle roundtable meeting	03/07/2013	Workshop held by coalition	70%	70
<p>Technology: Alternative fuel vehicles Audience: Airport, Delivery, General Public, Government, Private Fleets, Utility Clean Cities 20th Anniversary Event: No</p> <p><i>High level Stakeholder meeting to develop polices to eliminate barriers to electric vehicles in the State. Movers and shakers in the state were involved from both government and the private sector.</i></p>				
Panelist at Babson College Energy and Environmental Conference	04/05/2013	Conference participation	50%	50
<p>Technology: Alternative fuel vehicles Audience: Airport, General Public, Government, Private Fleets, Transit, Utility Clean Cities 20th Anniversary Event: No</p> <p><i>Presented on Electric vehicle infrastructure to attendees at this annual conference. Participated on a panel with XL hybrid/UPS/ and Toyota Motor Company</i></p>				
Energy independence summit	04/09/2013	Conference participation	100%	8
<p>Technology: Alternative fuel vehicles, Fuel blends, Fuel economy improvements, Hybrid electric vehicles, Idle reduction Audience: Government Clean Cities 20th Anniversary Event: No</p> <p><i>At this event the coalition coordinator visits with staff of State legislators and brings them up to date on alternative fuel activities in the state.</i></p>				
April Stakeholder meeting	04/18/2013	Meeting - Stakeholder	100%	30
<p>Technology: Alternative fuel vehicles Audience: Airport, Delivery, General Public, Government, Private Fleets, Transit Clean Cities 20th Anniversary Event: No</p> <p><i>This meeting presented technology around the hydrogen fuel cell vehicle. This was a Hydrogen coalition meeting sponsored by Clean cities attended by both auto manufacturers as well as Hydrogen fuel cell manufacturers to educate all on the upcoming fuel cell vehicles ready to hit the market in 2015.</i></p>				
Ribbon cutting for Electric vehicle incentive program for EVs for cities and Towns	04/22/2013	Media Event	100%	100
<p>Technology: Alternative fuel vehicles Audience: General Public, Government, Private Fleets Clean Cities 20th Anniversary Event: No</p> <p><i>MA Clean Cities coordinated the media events attended by both Energy Secretary Sullivan as well as Commissioners Sylvia and Kimmel to announce Electric vehicle incentive for Cities and Towns to purchase Electric vehicles and charging stations. There were two events one in Greenfield Massachusetts and Chelmsford Massachusetts. These communities had previously installed level 2 charging stations to support electric vehicles in their communities.</i></p>				
VERGE business conference - Transportation panel presentation	05/14/2013	Conference participation	75%	25
<p>Technology: Alternative fuel vehicles, Vehicle miles traveled reduction Audience: Delivery, General Public, Government, Private Fleets, Transit Clean Cities 20th Anniversary Event: No</p> <p><i>Spoke on a panel regarding electric vehicle infrastructure in the state of Massachusetts the focus was on sustainability in transportation sector.</i></p>				
EV presentation to Region 1 EPA	05/21/2013	Conference participation	100%	32
<p>Technology: Alternative fuel vehicles, Hybrid electric vehicles Audience: Government Clean Cities 20th Anniversary Event: No</p> <p><i>at request of Region 2 EPA the clean cities coordinator presented an update on the Electric vehicle development in Massachusetts.</i></p>				
June Stakeholder meeting	06/13/2013	Meeting - Stakeholder	75%	40
<p>Technology: Fuel economy improvements, Idle reduction Audience: Airport, Delivery, General Public, Government, Private Fleets, Transit, Utility Clean Cities 20th Anniversary Event: No</p> <p><i>This meeting presented information on Hydraulic hybrid technology for medium and light duty vehicles. In addition Mass DEP presented information on the Electric vehicle incentive program for Cities and Towns. Also the City of Boston presented their Anti idling campaign for the city.</i></p>				

Activity Name	Dates	Activity Type	Percentage from Coalition	Persons Reached
Clean cities presentation	06/19/2013	Conference participation	100%	100
<p>Technology: Alternative fuel vehicles, Fuel economy improvements, Idle reduction Audience: Utility Clean Cities 20th Anniversary Event: No</p> <p><i>Presented Clean cities overview along with Alternative fuel vehicle information appropriate to the electric Utilities that were in attendance at the EPRI Non road fleet managers.</i></p>				
Natural gas for transpotation workshop	08/07/2013	Workshop held by coalition	100%	46
<p>Technology: Alternative fuel vehicles Audience: Delivery, Government, Private Fleets, Transit, Utility, Waste Clean Cities 20th Anniversary Event: No</p> <p><i>The coalition presented a workshop for fleets on natural gas for the transportation sector.hosted at National Grid's headquarters in Waltham Massachusetts.</i></p>				
August Stakeholder meeting	08/08/2013	Meeting - Stakeholder	100%	10
<p>Technology: Alternative fuel vehicles, Hybrid electric vehicles Audience: Delivery, General Public, Government, Private Fleets, Transit, Utility Clean Cities 20th Anniversary Event: No</p> <p><i>This meeting was the first meeting held way out in Pittsfield Massachusetts (western Massachusetts) the presentation was on propane as an autogas, as well as an update on electric vehicle infrastructure being developed in Massachusetts.</i></p>				
Electric vehicle Task force follow up meeting.	09/30/2013	Meeting - Stakeholder	100%	34
<p>Technology: Alternative fuel vehicles Audience: Delivery, General Public, Government, Private Fleets, Transit, Utility Clean Cities 20th Anniversary Event: No</p> <p><i>Follow up meeting for the EV task force to set the chart of work for policy development in EV infrastructure, Media as well as the marketing of Ev vehicles in the state.</i></p>				
AltWheels Fleet Day	10/07/2013	Workshop held by coalition	100%	265
<p>Technology: Alternative fuel vehicles, Fuel blends, Fuel economy improvements, Hybrid electric vehicles, Idle reduction Audience: Airport, Delivery, General Public, Government, Private Fleets, Transit, Utility, Waste Clean Cities 20th Anniversary Event: No</p> <p><i>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.</i></p>				
First responder training	12/13/2013	Workshop held by coalition	100%	50
<p>Technology: Alternative fuel vehicles Audience: Government Clean Cities 20th Anniversary Event: No</p> <p><i>The coalition provided first responder training on both gaseous and Electric fueled vehicles at the fire academy in Stowe Massachusetts.</i></p>				
Total:				968

GRANTS

Grantor	Total Grant Amount	Total Matching Funds	Total Project Funding	Grant Amount Spent in 2013	Matching Funds Spent in 2013	Total Project Funding Spent in 2013
AEP funds/ air quality mitigation funds	\$384,000	\$0	\$384,000	\$286,000	\$0	\$286,000
<p>Additional grant money added in 2013 \$0 Additional matching funds added in 2013 \$0 Length of grant: 3 Year grant began: 2011 Sources of the grant: None of the above Partners: Department of Environmental protection Technologies: Electricity Purpose: Install Electric vehicle charging stations in 25 communities 25 communities installed 134 level 2 charging stations throughout the state.</p>						
DOE Barriers to Alternative fuels	\$99,000	-	\$99,000	\$25,000	\$0	\$25,000
<p>Additional grant money added in 2013 \$0 Additional matching funds added in 2013 \$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, LPG - Liquefied Petroleum Gas Purpose: Examine Barriers to the use of Alternative fuels - 2013 and 2014 We will survey Fleet Managers, MPO's about barriers to the use of Alternative fuels and work with Alternative fuel suppliers to determine if there are any barriers to transporting Alternative fuels in the region.</p>						
Massachusetts Clean cities Department of Energy resources	\$1,800,000	-	\$1,800,000	\$0	\$0	\$0
<p>Length of grant: 2 Year grant began: 2013 Sources of the grant: None of the above 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 pilot.</p>						
Total:	\$2,283,000	\$0	\$2,283,000	\$311,000	\$0	\$311,000