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

2012 Transportation Technology Deployment Report:

Massachusetts Clean Cities

January 2013

Clean Cities
U.S. Department of Energy

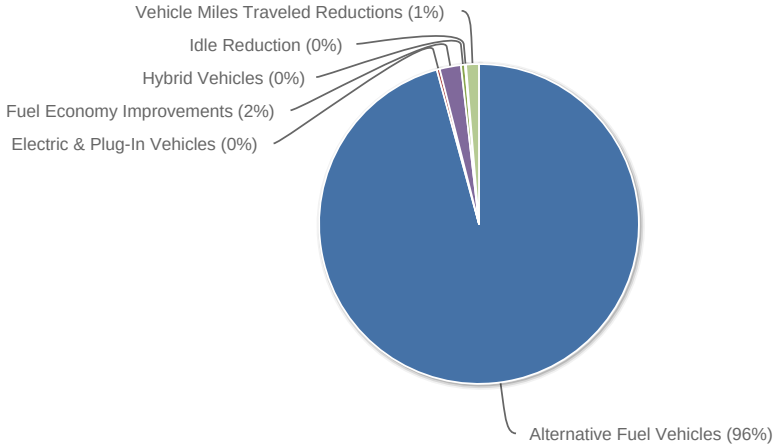
The U.S. Department of Energy's (DOE) Clean Cities program advances the nation's economic, environmental, and energy security by supporting local actions to reduce petroleum use in transportation. A national network of nearly 100 Clean Cities coalitions brings together stakeholders in the public and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

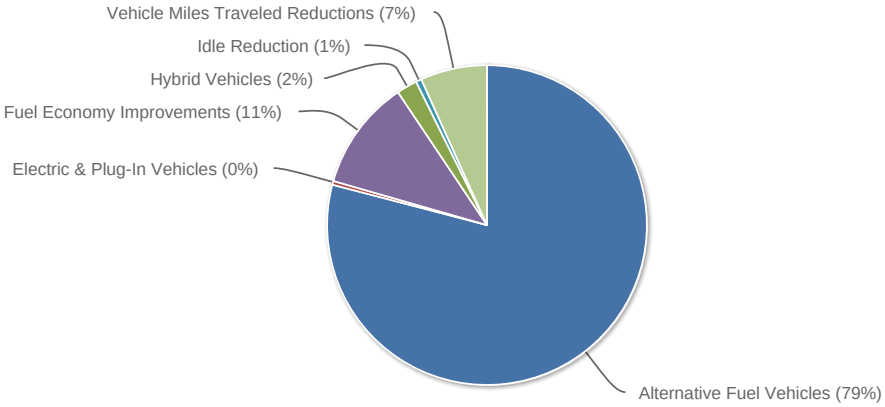
2012 Gallons of Gasoline Equivalent Reduced

7,353,634 gallons

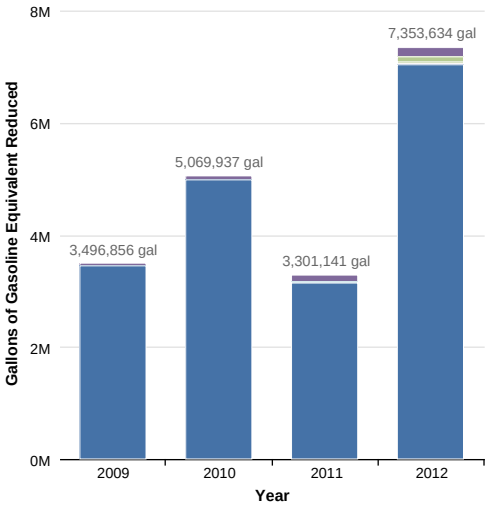


2012 Greenhouse Gas Emissions Reduced

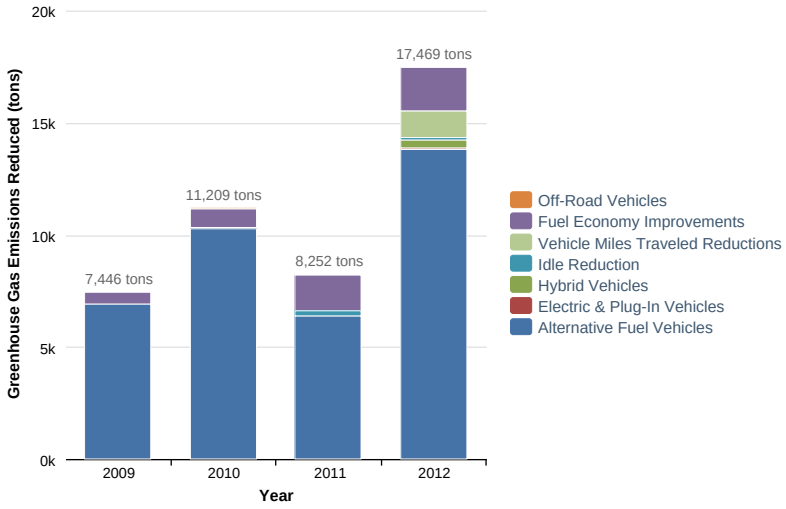
17,469 tons



Historical Gallons of Gasoline Equivalent Reduced



Historical Greenhouse Gas Emissions Reduced



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	50 hours
Other staff hours per week on Clean Cities	15 hours
How long have you been the coordinator?	4 years

OPERATING INFORMATION

Host organization	Government - State

Stakeholders

Number of stakeholders	349
Number of private stakeholders	250
Does the State Energy Office provide any financial support to the coalition or stakeholders?	Yes

Explain State Energy Office's support

Provides Salary/office and admin support for the coalition.

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

2012 Outside Funding

Stakeholder dues collected	$0
How much funding is obtained from other sources to cover coalition operating expenses?	$228,000
Non-DOE or ARRA grant and matching funds spent in 2012	$128,000
Total non-DOE or ARRA funding in 2012	$356,000

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%)	-	75,000 gal	3,806 gal	34.9 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 RTA	Heavy-Duty	Biodiesel (20%)	-	168,000 gal	34,104 gal	312.5 tons
Market: Government - Local **Vehicle type:** Bus: Transit **Percentage from coalition:** 100% **National Clean Fleets Partnership:** No *CCRTA began use of Biodiesel based on information provided by the Clean Cities coalition*						
Charles River Transportation Management association	Heavy-Duty	CNG	7	112,000 GGE	106,407 gal	200.2 tons
Market: Corporate Fleet **Vehicle type:** Bus: Transit **Percentage from coalition:** 100% **National Clean Fleets Partnership:** No *Massachusetts Clean cities funded the differential cost of CNG option on these buses.*						
City of Boston Fleet	Heavy-Duty	Biodiesel (10%)	-	83,117 gal	8,436 gal	77.3 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.*						
Courtyard by Marriot	Heavy-Duty	CNG	4	53,000 GGE	50,353 gal	94.7 tons
Market: Airport **Vehicle type:** Bus: Shuttle **Percentage from coalition:** 100% **National Clean Fleets Partnership:** No *Clean Cities funded the differential cost of these vehicles.*						
Dennis K Burke retail station	Heavy-Duty	Biodiesel (20%)	-	19,000 gal	3,857 gal	35.3 tons
Market: General/Unknown **Vehicle type:** Unknown/Other **Percentage from coalition:** 100% **National Clean Fleets Partnership:** No *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.*						
Dennis K Burke retail station	Light-Duty	E85	161	79,000 gal	33,139 gal	82.8 tons
Market: General/Unknown **Vehicle type:** Car **Percentage from coalition:** 75% **National Clean Fleets Partnership:** Yes *Dennis K Burke is an Active Stakeholder and promotes the use of Alternative fuels.*						

Fleet/Station Name	Vehicle Class	Fuel	Number of Vehicles	Fuel Used	GGE Reduced	GHG Reduced
Gulf oil/Cumberland Farms	Light-Duty	E85	42	41,571 gal	23,251 gal	58.1 tons
Market: General/Unknown **Vehicle type:** Car **Percentage from coalition:** 100% **National Clean Fleets Partnership:** No						
Clean Cities assisted in funding this project and Gulf oil is a stakeholder. This are new stations opened in late 2012 on the MAssahusetts turnpike.						
Lowell RTA	Heavy-Duty	CNG	10	148,650 GGE	141,226 gal	265.7 tons
Market: Government - Local **Vehicle type:** Bus: Transit **Percentage from coalition:** 100% **National Clean Fleets Partnership:** No						
MBTA - Massachusetts Bay Transportation Authority	Heavy-Duty	CNG	320	5,948,634 GGE	5,651,548 gal	10,631.5 tons
Market: Government - State **Vehicle type:** Bus: Transit **Percentage from coalition:** 100% **National Clean Fleets Partnership:** No						
Mass DOT and other shuttles using Logan AP	Heavy-Duty	CNG	290	750,000 GGE	712,544 gal	1,340.4 tons
Market: Government - State **Vehicle type:** Truck: No Trailer **Percentage from coalition:** 100% **National Clean Fleets Partnership:** No						
Massachusetts State Fleet	Heavy-Duty	Biodiesel (20%)	-	22,508 gal	2,285 gal	20.9 tons
Market: Government - State **Vehicle type:** Truck: No Trailer **Percentage from coalition:** 50% **National Clean Fleets Partnership:** No						
Massport (logan Airport)	Heavy-Duty	CNG	46	118,520 GGE	112,601 gal	211.8 tons
Market: Airport **Vehicle type:** Bus: Shuttle **Percentage from coalition:** 100% **National Clean Fleets Partnership:** No						
National Grid - Massachusetts	Heavy-Duty	CNG	150	148,780 GGE	70,675 gal	133.0 tons
Market: Utility **Vehicle type:** Truck: No Trailer **Percentage from coalition:** 50% **National Clean Fleets Partnership:** No						
State of Massachusetts	Heavy-Duty	Biodiesel (5%)	-	814,756 gal	20,674 gal	189.5 tons
Market: Government - State **Vehicle type:** Truck: No Trailer **Percentage from coalition:** 50% **National Clean Fleets Partnership:** No						
Massachusetts Clean Cities was instramental in the B- 5 State wide mandate						
Steamship Authority	Heavy-Duty	CNG	5	68,952 GGE	65,508 gal	123.2 tons
Market: Government - State **Vehicle type:** Bus: Shuttle **Percentage from coalition:** 100% **National Clean Fleets Partnership:** No						

Fleet/Station Name	Vehicle Class	Fuel	Number of Vehicles	Fuel Used	GGE Reduced	GHG Reduced
Transaction	Light-Duty	CNG	1	502 GGE	477 gal	0.9 tons
Market: Corporate Fleet **Vehicle type:** Pickup/SUV/Van **Percentage from coalition:** 100% **National Clean Fleets Partnership:** No *Massachusetts Clean Cities funded the differential cost of CNG up-fit on this shuttle van*						
Total:			**1,036**		**7,040,890 gal**	**13,813 tons**

Electric, Hybrid & Plug-in Vehicles

Fleet/Station Name	Vehicle Class	Fuel	Number of Vehicles	GGE Reduced	GHG Reduced
City of Boston	Light-Duty	HEV	80	28,418 gal	350.0 tons
Average vehicle fuel economy: 32 MPG **Miles traveled per vehicle per year:** 11,788 mi **Market:** Government - Local **Vehicle type:** Car **Percentage from coalition:** 75% **National Clean Fleets Partnership:** No *The City of Boston has not ony relaced all their ford taurus's with prius hybrids they reduced their fleet using zip car technology by 20 vehicles using car share tecnology.*					
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 *800 is the number of registered EV's in Massachusetts that are using the public charging stations*					
Frito Lay	Heavy-Duty	Electric	5	9,772 gal	14.0 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 60,244 miles in 2012 using no diesel fuel. Caley changed the efficiency from 40 to 155 kWh/100 miles since the latter is typical of Smith electric trucks.*					
Massachusetts Highway Department	Light-Duty	HEV	20	1,106 gal	13.6 tons
Average vehicle fuel economy: 22 MPG **Miles traveled per vehicle per year:** 10,951 mi **Market:** Government - State **Vehicle type:** Pickup/SUV/Van **Percentage from coalition:** 50% **National Clean Fleets Partnership:** No					
Massachusetts Highway Dept (DOT)	Light-Duty	PHEV	15	2,063 gal	11.8 tons
Average vehicle fuel economy: 60 MPG **Miles traveled per vehicle per year:** 11,788 mi **Market:** Government - State **Vehicle type:** Car **Percentage from coalition:** 50% **National Clean Fleets Partnership:** No					
Massachusetts State fleet	Light-Duty	PHEV	10	2,370 gal	13.6 tons
Average vehicle fuel economy: 60 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 hymtion batteries into 10 Hybrid vehicles.*					
Total:			**930**	**51,440 gal**	**428 tons**

Fuel Economy Improvements

Fleet Name	Previous Fuel	Current Fuel	Number of Vehicles	Miles Traveled per Vehicle	GGE Reduced	GHG Reduced
Brauns Express	5 MPG	6 MPG	18	46,000 mi	30,539 gal	378.7 tons
Method: Tires - Low-rolling resistance **Vehicle class:** Heavy-Duty **Market:** Corporate Fleet **Vehicle type:** Truck: Semi-tailer **Percentage from coalition:** 100% **National Clean Fleets Partnership:** No						
Brauns Express	5 MPG	7 MPG	1	39,526 mi	2,499 gal	31.0 tons
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 *Massachusetts Clean Cities funded the hybrid technology addition to this truck.*						
Brauns Express	6 MPG	8 MPG	18	36,000 mi	29,875 gal	370.5 tons
Method: Other **Vehicle class:** Heavy-Duty **Market:** Corporate Fleet **Vehicle type:** Truck: Semi-tailer **Percentage from coalition:** 100% **National Clean Fleets Partnership:** No *This company limits speed on their trucks to 65 MPG saving.5 mpg in their trucks*						
Cambridge Landscape	5 MPG	6 MPG	2	12,568 mi	927 gal	11.5 tons
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 *Massachusetts Clean Cities funded the Hybrid technology addition to one of these vehicles.*						
Cambridge Landscape	15 MPG	20 MPG	1	39,524 mi	659 gal	8.1 tons
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						
Diesel Direct - Fuel delivery service	5 MPG	7 MPG	1	29,560 mi	1,869 gal	23.2 tons
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 *Massachusetts Clean Cities funded the hybrid technology addition to this fuel delivery truck.*						
High Output	5 MPG	7 MPG	1	32,456 mi	2,052 gal	25.4 tons
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 *Massachusetts Clean Cities funded the Hybrid technology for this truck.*						

Fleet Name	Previous Fuel	Current Fuel	Number of Vehicles	Miles Traveled per Vehicle	GGE Reduced	GHG Reduced
Massachusetts light duty state fleet State fleet	22 MPG	46 MPG	255	14,326 mi	43,318 gal	533.6 tons
Method: Vehicle - More efficient **Vehicle class:** Light-Duty **Market:** Government - State **Vehicle type:** Car **Percentage from coalition:** 50% **National Clean Fleets Partnership:** No						
Staples	8 MPG	11 MPG	80	15,180 mi	45,808 gal	568.0 tons
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						
Staples uses a speed governor to achieve their Fuel Savings. 60 Miles per hour only.						
Total:			**377**	**265,140 mi**	**157,545 gal**	**1,950 tons**

Vehicle Miles Traveled Reductions

Fleet Name	Method	Vehicle Class	GGE Reduced	GHG Reduced
Nu Rides	Mass transit	Light-Duty	95,593 gal	1,177.5 tons
Fuel: Gasoline **Fuel economy:** 25 MPG **Number of vehicles:** 1,302 **VMT reduction per vehicle:** 3,671 mi **Percentage from coalition:** 50% **National Clean Fleets Partnership:** No				
Nu Rides is an reward program that tracks commuters that do not use their vehicle for getting to work and use the T or a bus to get to work.				
Total:			**95,593 gal**	**1,177 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	18	1,000 hrs/year	1 gal/hr	8,166 gal	100.6 tons
Equipment: Auxiliary power unit (APU) **Percentage from coalition:** 50% **National Clean Fleets Partnership:** No					
Brauns uses a battery powered APU as well as solar roof panels.					
Total:	**18**			**8,166 gal**	**101 tons**

FUEL STATIONS

New Stations

Fuel	Public Stations	Private Stations
Biodiesel	-	-
CNG - Compressed Natural Gas	-	-
E85 - 85% Ethanol	3	-
Electric Chargers	75	20
Hydrogen	-	1
LNG - Liquefied Natural Gas	-	1

Fuel	Public Stations	Private Stations
LPG - Liquefied Petroleum Gas	-	-
Total:	**78**	**22**

OUTREACH ACTIVITIES

Activity Name	Dates	Activity Type	Percentage from Coalition	Persons Reached
November Stakeholder meeting	11/11/2011	Meeting - Stakeholder	75%	36
Technology: Fuel economy improvements, Hybrid electric vehicles **Audience:** Airport, Delivery, Government, Private Fleets, Public, Transit, Utility				
This meeeting covered the use of wireless charging for Electric vehicles and Shock absorbers that generate electricity and reduce fuel use in the vehicles that use the technology				
Electric vehicle infrastructure conference, London England	01/05/2012	Conference participation	50%	60
Technology: Alternative fuel vehicles **Audience:** Delivery, Government, Private Fleets, Public, Transit, Utility				
Presentation on EV infrastructure at the international EV infrastructure conference involving many of the European Union countries. Clean Cities was prominently displayed for this presentation.				
8 Fleet visits throughout year	01/05/2012, 12/15/2012	Meeting - Stakeholder	100%	10
Technology: Alternative fuel vehicles, Fuel economy improvements, Idle reduction **Audience:** Airport, Delivery, Private Fleets, Public				
Met individually with 8 Fleet managers throughout the year to discuss how Alternative fuels can play a role in their fleets.				
January Stakeholder meeting	01/12/2012	Meeting - Stakeholder	100%	32
Technology: Fuel economy improvements, Hybrid electric vehicles, Idle reduction **Audience:** Airport, Delivery, Government, Private Fleets, Public, Transit				
This meeting presented 2 truck stop electrification companies (2 different technologies) for fleets and truck stops. In addition EPA region 1 smartway Director spoke to the group about fuel saving technology offered through the EPA . The group also had a tour of the Free Juice Bar available in the Charles hotel for vehicles to charge their electric vehicles while parking at their facility.				
Biodiesel Workshop	01/25/2012	Workshop held by coalition	50%	40
Technology: Fuel blends **Audience:** Government, Private Fleets, Transit				
Presented a power point on Biodiesel for the Maine Green communities.				
Ribbon cutting for Electric vehicle supply station opening, Lexington MA	02/27/2012	Media Event	75%	30
Technology: Alternative fuel vehicles **Audience:** Government, Public, Transit				
MA Clean Cities funded the charging stations that were installed in Lexington MA				
March Stakeholder meeting	03/08/2012	Meeting - Stakeholder	100%	28
Technology: Alternative fuel vehicles, Hybrid electric vehicles **Audience:** Delivery, Government, Private Fleets, Public, Transit, Utility				
This meeting was an Electric vehicle update meeting with Utilities, Nissan,BMW , charging station companies and Installers bringing the coalition up to date on the current status of EVs in Massachusetts. CMI,Voltrek, clipper creek,Aervironment BMM and Nissan all reported in at the meeting at WPI in Worcester MA.				
March Fleet Managers (NAFA) meeting	03/13/2012	Meeting - Other	100%	45
Technology: Alternative fuel vehicles, Fuel blends, Fuel economy improvements, Hybrid electric vehicles, Idle reduction **Audience:** Airport, Delivery, Government, Private Fleets, Public, Utility, Waste				
This meeting involved presentations by the Clean Cities coalitions from Maine,NH,VT RI and MA. Each coordinator presented the activities and alternative fuel options available to the fleet Managers who were attending the meeting of the new England Chapter of NAFA .(fleet managers) The meeting was held at the Massachusetts headquarters of National Grid (utility)				

Activity Name	Dates	Activity Type	Percentage from Coalition	Persons Reached
Panelist at Babson College Energy and Enviormental Conference	03/30/2012	Conference participation	50%	50
Technology: Alternative fuel vehicles **Audience:** Airport, Government, Private Fleets, Public, Transit, Utility *Presented on Electric vehicle infrastructure to attendees at this annual conference. Was on a panel with XL hybrid/UPS/ and Toyota Motor Company*				
PEW forum on Electric vehicles	04/24/2012	Workshop held by coalition	100%	35
Technology: Alternative fuel vehicles **Audience:** Airport, Government, Private Fleets, Public *Massachusetts Clean Cities hosted the Pew Foundations Electric vehicle roundtable. We were reponsible for inviting Key Stakeholders to participate in this event.*				
Media event with Secretary of Energy/ DOT Secretary and RMV commissioner announcing Electric vehicle Plates	04/24/2012	Media Event	100%	45
Technology: Alternative fuel vehicles **Audience:** Delivery, Government, Private Fleets, Public, Transit *Massachusetts is the second State in the US to provide Electric vehicles with a License plate dedicated to identifing it as an electric vehicle.This Media event announced the issuance of the plates as well as showing off the newly installed Charging stations at the Cambridge shopping center.*				
Smarter Cape Transportation panel presentation	05/15/2012	Conference participation	50%	25
Technology: Alternative fuel vehicles **Audience:** Delivery, Government, Private Fleets, Public, Transit *Spoke on a panel regarding electric vehicle infrastructure for Cape Cod in Massachusetts.*				
May Stakeholder meeting	05/24/2012	Meeting - Stakeholder	100%	28
Technology: Alternative fuel vehicles, Fuel blends **Audience:** Delivery, Government, Private Fleets, Public, Transit, Utility *This meeting was held for the first time in Springfield MA. The Pioneer Valley Transit Authority hosted the meeting. The focus was on Gaseous fuels and presenters from Clean Energy, BAF and the propane industry all presented information.* *The transit authority presented tabout their use of Hybrid buses.*				
July Stakeholder meeting	07/12/2012	Meeting - Stakeholder	75%	35
Technology: Alternative fuel vehicles **Audience:** Airport, Delivery, Government, Private Fleets, Public, Transit, Utility *This meeting presented information about Hydrogen in the transportation sector. Massachusetts has a significant number of Hydrogen research facilities and It was time to present on this subject. Nuvera is making fuel cells for making hydrogen for the transportation sector and now has 3 Fuel cell vehicles that are being being used in Massachusetts to spread the word about fuel cell vehicles.*				
Ribbon Cutting ceremony for E-85 Station opening	08/30/2012	Media Event	50%	26
Technology: Alternative fuel vehicles **Audience:** Airport, Government, Private Fleets, Public, Transit *This was a ribbon cutting event annoucing the opening of 3 E-85 stations on the massachusetts Turnpike.*				
AltWheels Fleet Day	10/22/2012	Workshop held by coalition	100%	230
Technology: Alternative fuel vehicles **Audience:** Airport, Delivery, Government, Private Fleets, Public, 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.*				
Stakeholder meeting	12/13/2012	Website	100%	35
Technology: Hybrid electric vehicles **Audience:** Government, Private Fleets, Transit, Utility *This was on EV readiness meeting bringing stakeholders up to speed on EVs in Massachusetts*				

Activity Name	Dates	Activity Type	Percentage from Coalition	Persons Reached
First Responder Training	12/13/2012, 12/14/2012	Workshop held by coalition	100%	98

Technology: Alternative fuel vehicles
Audience: Government

This was training for First reponders in Massachusetts to learn how to deal with gaseous and electric vehicles in the case of a crash. Funded by DOE

Total: **888**

GRANTS

Grantor	Total Grant Amount	Total Matching Funds	Total Project Funding	Grant Amount Spent in 2012	Matching Funds Spent in 2012	Total Project Funding Spent in 2012
AEP funds/ air quality mitigation funds	$384,000	$0	$384,000	$128,000	$0	$128,000

Length of grant: 3
Year grant began: 2011
Sources of the grant: None of the above
Technologies: Electricity
Purpose: Install Electric vehicle charging stations in 25 communities

Went out to bid and 25 Towns responded - will have over 140 Charging stations installed by the end of the grant.

DOE Barriers to Alternative fuels	$99,000	-	$99,000	$0	$0	$0

Length of grant: 2
Year grant began: 2013
Sources of the grant: None of the above
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 fuelsand work with Alternative fuel suppliers to determine if there are any barriers to transporting Alternative fuels in the region.

DOE/ EV readiness grant	$25,000	$0	$25,000	$25,000	$0	$25,000

Length of grant: 1
Year grant began: 2012
Sources of the grant: Department of Energy
Partners: 14 other Clean cities coalition were part of the EV readiness grant Coordinated through NYSERDA , Georgetown Climate center/ Transportation Climate Center.
Technologies: Electricity
Purpose: EV readiness

Cooalition has taken many steps to prepare infrastructure for Cities and Towns in coordination with States from Washington DC to Maine. (collaborated with 14 Clean Cities coalitions)

Total:	**$508,000**	**$0**	**$508,000**	**$153,000**	**$0**	**$153,000**