

2012 Transportation Technology Deployment Report:

Capital District Clean Communities
(Albany)

January 2013

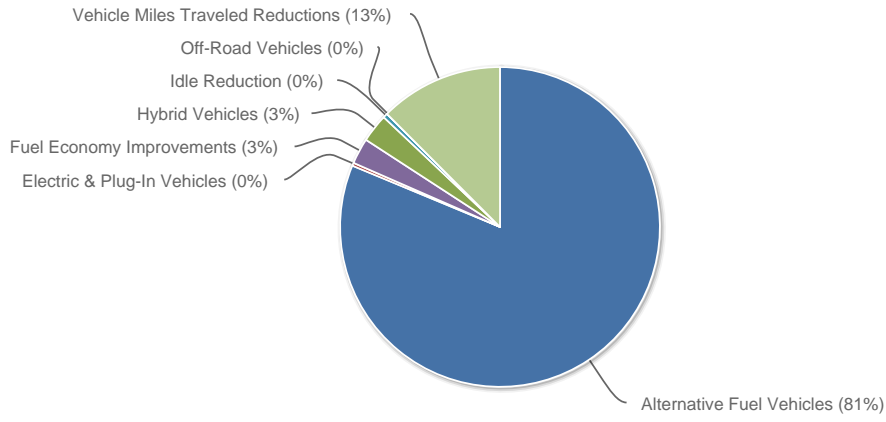
The U.S. Department of Energy's (DOE) Clean Cities program advances the nation's economic, environmental, and energy security by supporting local actions to reduce petroleum use in transportation. A national network of nearly 100 Clean Cities coalitions brings together stakeholders in the public and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

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

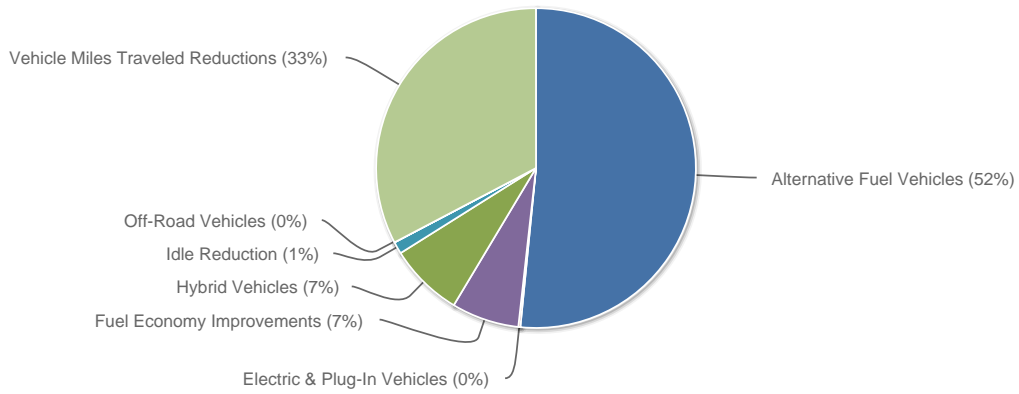
2012 Gallons of Gasoline Equivalent Reduced

817,154 gallons

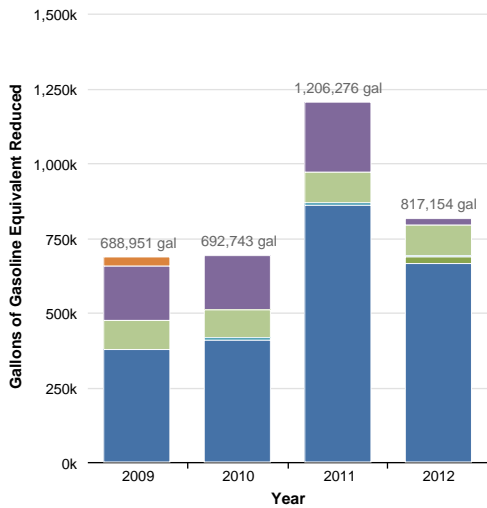


2012 Greenhouse Gas Emissions Reduced

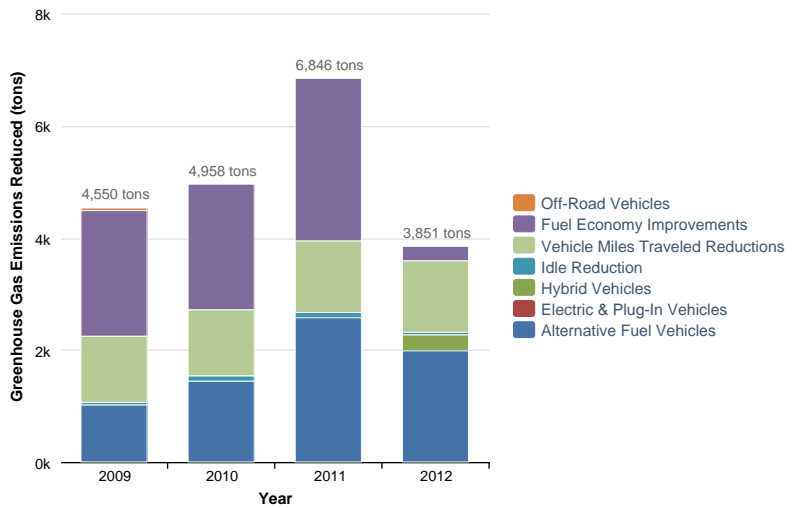
3,851 tons



Historical Gallons of Gasoline Equivalent Reduced



Historical Greenhouse Gas Emissions Reduced



COALITION

Capital District Clean Communities (Albany) - NY

<http://www.cdcmpo.org/cdcc/cdcc.htm>

Designated: 04/26/1999

Boundaries: Counties: Albany, Columbia, Fulton, Greene, Montgomery, Otsego, Rensselaer, Saratoga, Schenectady, Schoharie, Warren, Washington; City of Albany

COORDINATORS

	Address	Telephone	Fax
Jennifer Ceponis	1 Park Pl Albany, NY 12205	518-458-2161	518-459-2155
Number of coordinators			1
Coordinator(s) hours per week on Clean Cities			19 hours
Other staff hours per week on Clean Cities			0 hours
How long have you been the coordinator?			12 years

OPERATING INFORMATION

Host organization	Council of Governments (COG), Municipal Planning Organization (MPO), or Regional Planning Commission (RPC)
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Stakeholders

Number of stakeholders	86
Number of private stakeholders	43
Does the State Energy Office provide any financial support to the coalition or stakeholders?	No
How would you rate the quality of the data on your survey?	Good
How do you obtain most of your data for the survey?	Online questionnaire to stakeholders (SurveyMonkey, Google Forms, etc), Paper, e-mail, or spreadsheet questionnaire to stakeholders
Has your coalition registered with www.grants.gov?	No

2012 Outside Funding

Stakeholder dues collected	\$0
How much funding is obtained from other sources to cover coalition operating expenses?	\$0
Non-DOE or ARRA grant and matching funds spent in 2012	\$3,100,500
Total non-DOE or ARRA funding in 2012	\$3,100,500

VEHICLE & FUEL INVENTORY

Alternative Fuel & Vehicles

Fleet/Station Name	Vehicle Class	Fuel	Number of Vehicles	Fuel Used	GGE Reduced	GHG Reduced
Albany International Airport Market: Airport Vehicle type: Bus: Shuttle Percentage from coalition: 100% National Clean Fleets Partnership: No	Heavy-Duty	CNG	6	20,086 GGE	19,083 gal	35.9 tons
AmeriGas Market: General/Unknown Vehicle type: Unknown/Other Percentage from coalition: 100% National Clean Fleets Partnership: No	Light-Duty	LPG	2,000	29,800 gal	22,052 gal	46.0 tons
Ballston Spa CSD Market: Government - Local Vehicle type: Bus: School Percentage from coalition: 100% National Clean Fleets Partnership: No	Heavy-Duty	LPG	6	27,007 gal	19,985 gal	41.7 tons
Center for Disability Services Market: Corporate Fleet Vehicle type: Pickup/SUV/Van Percentage from coalition: 100% National Clean Fleets Partnership: No	Light-Duty	E85	13	5,000 gal	2,796 gal	7.0 tons
Gilboa-Conesville CSD Market: Government - Local Vehicle type: Bus: School Percentage from coalition: 100% National Clean Fleets Partnership: No	Heavy-Duty	LPG	3	7,500 gal	5,550 gal	11.6 tons
Hoosick Valley CSD Market: Government - Local Vehicle type: Bus: School Percentage from coalition: 100% National Clean Fleets Partnership: No	Heavy-Duty	LPG	6	23,100 gal	17,094 gal	35.7 tons
NYS Office of General Services Miles traveled per vehicle: 11,788 mi Average vehicle fuel economy: 23 MPGge Market: Government - State Vehicle type: Car Percentage from coalition: 50% National Clean Fleets Partnership: No	Light-Duty	CNG	10	100% of time	2,563 gal	4.8 tons
NYS Office of General Services Miles traveled per vehicle: 11,788 mi Average vehicle fuel economy: 17 MPG Market: Government - State Vehicle type: Car Percentage from coalition: 50% National Clean Fleets Partnership: No	Light-Duty	E85	61	75% of time	9,937 gal	24.8 tons
NYS Office of General Services Miles traveled per vehicle: 10,951 mi Average vehicle fuel economy: 18 MPGge Market: Government - State Vehicle type: Pickup/SUV/Van Percentage from coalition: 50% National Clean Fleets Partnership: No	Light-Duty	LPG	5	100% of time	1,521 gal	3.2 tons

Fleet/Station Name	Vehicle Class	Fuel	Number of Vehicles	Fuel Used	GGE Reduced	GHG Reduced
NYS Office of People with Developmental Disabilities	Light-Duty	CNG	11	100% of time	2,839 gal	5.3 tons
Miles traveled per vehicle: 16,000 mi Average vehicle fuel economy: 31 MPGge Market: Government - State Vehicle type: Car Percentage from coalition: 50% National Clean Fleets Partnership: No <i>This is a guesstimate based on limited information received from contact - how many CNG vehicles and mileage on each vehicle to date.</i>						
NYS Office of People with Developmental Disabilities	Light-Duty	E85	93	70% of time	11,165 gal	27.9 tons
Miles traveled per vehicle: 10,951 mi Average vehicle fuel economy: 20 MPG Market: Government - State Vehicle type: Pickup/SUV/Van Percentage from coalition: 50% National Clean Fleets Partnership: No						
NYS Office of People with Developmental Disabilities	Light-Duty	E85	25	70% of time	3,986 gal	10.0 tons
Miles traveled per vehicle: 16,000 mi Average vehicle fuel economy: 22 MPG Market: Government - State Vehicle type: Car Percentage from coalition: 50% National Clean Fleets Partnership: No						
NYSDEC	Light-Duty	CNG	28	50% of time	9,582 gal	18.0 tons
Miles traveled per vehicle: 10,951 mi Average vehicle fuel economy: 12 MPGge Market: Government - State Vehicle type: Pickup/SUV/Van Percentage from coalition: 75% National Clean Fleets Partnership: No <i>These are bi-fuel CNG Econoline vans. Numbers are a guesstimate based on limited info received from DEC></i>						
NYSDEC	Light-Duty	E85	12	50% of time	2,077 gal	5.2 tons
Miles traveled per vehicle: 11,788 mi Average vehicle fuel economy: 16 MPG Market: Government - State Vehicle type: Car Percentage from coalition: 75% National Clean Fleets Partnership: No						
NYSDEC	Light-Duty	E85	44	50% of time	11,319 gal	28.3 tons
Miles traveled per vehicle: 10,951 mi Average vehicle fuel economy: 10 MPG Market: Government - State Vehicle type: Pickup/SUV/Van Percentage from coalition: 75% National Clean Fleets Partnership: No						
National Grid	Heavy-Duty	Biodiesel (20%)	280	387,000 gal	58,921 gal	539.9 tons
Market: Utility Vehicle type: Truck: No Trailer Percentage from coalition: 75% National Clean Fleets Partnership: No						
National Grid	Light-Duty	CNG	43	20,549 GGE	14,642 gal	27.5 tons
Market: Utility Vehicle type: Pickup/SUV/Van Percentage from coalition: 75% National Clean Fleets Partnership: No <i>National Grid's CNG station was an ARRA project, Verizon is also fueling their 12 CNG vans there.</i>						

Fleet/Station Name	Vehicle Class	Fuel	Number of Vehicles	Fuel Used	GGE Reduced	GHG Reduced
Public E85 Stations	Light-Duty	E85	1,967	773,330 gal	432,523 gal	1,081.1 tons
Market: General/Unknown Vehicle type: Car Percentage from coalition: 100% National Clean Fleets Partnership: No <i>NYSERDA provided grant money to area stations to install E85 fueling infrastructure and to sell E85 at a discount. Fourteen stations are located in the region. The E85 sales data is collected by NYSERDA and represents sales from Jan-Dec 2012. The number of vehicles is based on the E85 vehicle estimator. 3 stations removed E85 as of July 2012.</i>						
RPI	Heavy-Duty	LPG	2	5,000 gal	3,700 gal	7.7 tons
Market: Corporate Fleet Vehicle type: Unknown/Other Percentage from coalition: 100% National Clean Fleets Partnership: No						
University at Albany	Light-Duty	CNG	2	100 GGE	95 gal	0.2 tons
Market: Government - State Vehicle type: Pickup/SUV/Van Percentage from coalition: 100% National Clean Fleets Partnership: No						
Verizon	Light-Duty	CNG	12	13,232 GGE	12,571 gal	23.6 tons
Market: Corporate Fleet Vehicle type: Pickup/SUV/Van Percentage from coalition: 100% National Clean Fleets Partnership: Yes						
Total:			4,629		664,002 gal	1,986 tons

Electric, Hybrid & Plug-in Vehicles

Fleet/Station Name	Vehicle Class	Fuel	Number of Vehicles	GGE Reduced	GHG Reduced
Coca Cola	Heavy-Duty	HEV	2	1,475 gal	18.2 tons
Average vehicle fuel economy: 4 MPG Miles traveled per vehicle per year: 8,000 mi Market: Corporate Fleet Vehicle type: Truck: Semi-tailer Percentage from coalition: 100% National Clean Fleets Partnership: Yes					
East Greenbush Central School District	Heavy-Duty	HEV	1	775 gal	9.5 tons
Average vehicle fuel economy: 10 MPG Miles traveled per vehicle per year: 10,501 mi Market: Government - Local Vehicle type: Bus: School Percentage from coalition: 100% National Clean Fleets Partnership: No					
NYS Office of General Services	Light-Duty	Electric	9	1,716 gal	5.6 tons
Average electric fuel economy: - kWh/100mi Miles traveled per vehicle per year: 11,788 mi Market: Government - State Vehicle type: Car Percentage from coalition: 50% National Clean Fleets Partnership: No <i>This is a guesstimate based on the averages for the Chevrolet Volt. Our contact at OGS could not provide any additional information besides how many plug-in electric vehicles they have.</i>					
NYS Office of General Services	Light-Duty	HEV	10	1,429 gal	17.6 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: 50% National Clean Fleets Partnership: No					

Fleet/Station Name	Vehicle Class	Fuel	Number of Vehicles	GGE Reduced	GHG Reduced
NYSDEC Average vehicle fuel economy: 30 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	Light-Duty	HEV	75	7,237 gal	89.1 tons
Skidmore College Average vehicle fuel economy: 31 MPG Miles traveled per vehicle per year: 23,837 mi Market: Corporate Fleet Vehicle type: Pickup/SUV/Van Percentage from coalition: 100% National Clean Fleets Partnership: No	Light-Duty	HEV	1	548 gal	6.8 tons
University at Albany Average vehicle fuel economy: 20 MPG Miles traveled per vehicle per year: 23,814 mi Market: Government - State Vehicle type: Unknown/Other Percentage from coalition: 75% National Clean Fleets Partnership: No	Heavy-Duty	HEV	5	11,528 gal	142.0 tons
University at Albany Average electric fuel economy: - kWh/100mi Miles traveled per vehicle per year: 10,951 mi Market: Government - State Vehicle type: Pickup/SUV/Van Percentage from coalition: 75% National Clean Fleets Partnership: No	Light-Duty	Electric	2	790 gal	2.6 tons
University at Albany Average vehicle fuel economy: 48 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	Light-Duty	HEV	2	400 gal	4.9 tons
Total:			107	25,898 gal	296 tons

Off-Road Vehicles

Fleet Name	Application	Method	Fuel	Number of Vehicles	GGE Reduced	GHG Reduced
University at Albany Fuel used: 30 kWh Percentage from coalition: 75% National Clean Fleets Partnership: No	Landscaping equipment	Alternative fuel or vehicles	Electric	12	2 gal	0.0 tons
Total:				12	2 gal	0 tons

FUEL ECONOMY

Fuel Economy Improvements

Fleet Name	Previous Fuel	Current Fuel	Number of Vehicles	Miles Traveled per Vehicle	GGE Reduced	GHG Reduced
Center for Disability Services 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	15 MPG	17 MPG	30	30,000 mi	7,059 gal	86.9 tons
Charlotte Valley School District Method: Other Vehicle class: Heavy-Duty Market: General/Unknown Vehicle type: Unknown/Other Percentage from coalition: 100% National Clean Fleets Partnership: No	4 MPG	9 MPG	4	20,000 mi	12,294 gal	152.4 tons
RPI Method: Vehicle - Smaller Vehicle class: Light-Duty Market: Corporate Fleet Vehicle type: Unknown/Other Percentage from coalition: 100% National Clean Fleets Partnership: No	8 MPG	13 MPG	2	20,000 mi	1,923 gal	23.7 tons
Total:			36	70,000 mi	21,276 gal	263 tons

Vehicle Miles Traveled Reductions

Fleet Name	Method	Vehicle Class	GGE Reduced	GHG Reduced
Home Energy Advisors Fuel saved: 100 gallons Percentage from coalition: 100% National Clean Fleets Partnership: No	Telecommute	Light-Duty	100 gal	1.2 tons
Regional Vanpool Project Fuel saved: 9,705 gallons Percentage from coalition: 100% National Clean Fleets Partnership: No <i>The vanpool project started as a pilot with subsidies provided to vanpool groups of 5 or more. In 2012 there were 4 vanpools (there were 19 in 2011) on the road daily.</i>	Carpooling	Light-Duty	9,705 gal	119.5 tons
University at Albany Fuel saved: 3,000 gallons Percentage from coalition: 65% National Clean Fleets Partnership: No	Car sharing (e.g., Zipcar)	Light-Duty	1,950 gal	24.0 tons
University at Albany Fuel saved: 100 gallons Percentage from coalition: 65% National Clean Fleets Partnership: No	Non-motorized locomotion (e.g., bicycles)	Light-Duty	65 gal	0.8 tons
University at Albany Fuel saved: 2,000 gallons Percentage from coalition: 75% National Clean Fleets Partnership: No	Carpooling	Light-Duty	1,500 gal	18.5 tons
University at Albany Fuel saved: 10,000 gallons Percentage from coalition: 50% National Clean Fleets Partnership: No	Mass transit	Heavy-Duty	5,532 gal	68.6 tons

Fleet Name	Method	Vehicle Class	GGE Reduced	GHG Reduced
iPool2	Carpooling	Light-Duty	63,852 gal	786.5 tons
Fuel saved: 63,852 gallons Percentage from coalition: 100% National Clean Fleets Partnership: No <i>This is an online commuter information website, promoted by Capital Moves, that encourages people to create accounts to find others to carpool with.</i>				
iPool2 North	Carpooling	Light-Duty	19,466 gal	239.8 tons
Fuel saved: 19,466 gallons Percentage from coalition: 100% National Clean Fleets Partnership: No <i>iPool2 North serves Washington and Warren counties and is linked to iPool2.</i>				
Total:			102,170 gal	1,259 tons

IDLE REDUCTION

Onboard Idle Reduction

Fleet Name	Number of Vehicles	Equipment Usage per Vehicle	Fuel Saved per Vehicle	GGE Reduced	GHG Reduced
Brown Coach	36	60 hrs/year	0 gal/hr	956 gal	11.8 tons
Equipment: Direct-fire heater Percentage from coalition: 100% National Clean Fleets Partnership: No					
Total:		36		956 gal	12 tons

Other Idle Reduction

Project Name	Number of Vehicles	Idling Reduced per Vehicle	Fuel Saved per Vehicle	GGE Reduced	GHG Reduced
Center for Disability Services	20	30 mins/day 225 days/year	1 gal/hr	2,250 gal	27.9 tons
Type of project: Policies Type of vehicle: School Bus Percentage from coalition: 100% National Clean Fleets Partnership: No					
Charlotte Valley School District	9	20 mins/day 200 days/year	1 gal/hr	600 gal	7.4 tons
Type of project: Policies Type of vehicle: School Bus Percentage from coalition: 100% National Clean Fleets Partnership: No					
Total:		29		2,850 gal	35 tons

FUEL STATIONS

New Stations

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

Fuel	Public Stations	Private Stations
LPG - Liquefied Petroleum Gas	-	-
Total:	1	1

OUTREACH ACTIVITIES

Activity Name	Dates	Activity Type	Percentage from Coalition	Persons Reached
Capital Moves Website Technology: Alternative fuel vehicles, Fuel blends, Fuel economy improvements, Hybrid electric vehicles, Idle reduction, Vehicle miles traveled reduction Audience: Public <i>The Capital Moves website was launched in 2011 funded through a NYSERDA grant. Information regarding TDM, where to find alternative fuel stations, and how to use less fuel while driving continue to be promoted through the site, which received over 3,500 hits in 2012.</i>	01/01/2012	Website	100%	3,500
Skidmore College New Energy Economy Forum Technology: Alternative fuel vehicles, Hybrid electric vehicles, Idle reduction, Vehicle miles traveled reduction Audience: Government, Other <i>Was part of a panel on reducing energy in transportation. Presented on benefits of transit, carpool, vanpool, and alternative fuel vehicles.</i>	02/16/2012	Conference participation	100%	100
GE Electric Vehicle Charging Station Lunch & Learn Technology: Alternative fuel vehicles Audience: Government <i>Gexpro is the distribution partner for GE's EV Charger product line. The lunch and learn was attended by county and local governments.</i>	03/01/2012	Meeting - Other	100%	20
Dual Fuel Diesel/CNG Demo Technology: Alternative fuel vehicles, Fuel blends Audience: Government, Private Fleets <i>Greenman Technologies did a demo on their Mercedes Spartan Van equipped with dual fuel - diesel and CNG - technologies. They were the first company to receive approval for aftermarket upgrades from EPA.</i>	03/12/2012	Workshop held by coalition	100%	15
Coalition Quarterly Meeting Technology: Alternative fuel vehicles, Fuel blends, Fuel economy improvements, Hybrid electric vehicles, Idle reduction, Vehicle miles traveled reduction Audience: Airport, Delivery, Government, Private Fleets, Public, Transit, Utility, Waste, Other <i>Attendance varied throughout the year with an average of about 30 people.</i>	03/22/2012, 06/21/2012, 09/20/2012, 12/20/2012	Meeting - Stakeholder	100%	30
Capital Car Share Public Meeting Technology: Vehicle miles traveled reduction Audience: Public <i>Participated in a study committee to look at the feasibility of car sharing in the Capital Region. We hosted a public meeting to educate people on what car sharing is and get feedback on where Albany residents would like to see it implemented. Capital Car Share has continued to be implemented through a NYSERDA grant.</i>	06/12/2012	Meeting - Other	100%	35
NYSERDA CNG Outreach for Refuse & Delivery Technology: Alternative fuel vehicles, Fuel blends Audience: Delivery, Government, Private Fleets, Waste	06/25/2012	Conference participation	100%	30
Albany Car Free Day / Madison Ave Street Fair Technology: Alternative fuel vehicles, Fuel economy improvements, Idle reduction, Vehicle miles traveled reduction Audience: Government, Public <i>Managed a table and distributed literature on VMT programs, commuting options and local alternative fuel stations.</i>	09/22/2012	Literature Distribution	100%	150
Odyssey Day Technology: Alternative fuel vehicles Audience: Public	10/18/2012	Media Event	25%	50

Activity Name	Dates	Activity Type	Percentage from Coalition	Persons Reached
Empire State Plaza Auto Show	11/02/2012, 11/03/2012, 11/04/2012	Literature Distribution	25%	200

Technology: Hybrid electric vehicles

Audience: Public

CDCC distributed EV brochures to Nissan, Coda, Smart and Chevrolet who promised to pass them on to potential EV buyers.

Total: 4,130

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
NYSERDA Length of grant: 1 Year grant began: 2011 Sources of the grant: Department of Energy Technologies: Electricity Purpose: Northeast Electric Vehicle Planning Study <i>The Northeast EV Study was a collaborative effort between the Georgetown Transportation and Climate Initiative and 16 Clean Cities Coordinators from 11 Northeast/Mid-Atlantic states and the District of Columbia. The study looked at obstacles and opportunities to widespread deployment of EVs in the Northeast and developed several guidance and outreach documents for utilities, local governments, and developers on how to promote EV/EVSE.</i>	\$25,000	\$0	\$25,000	\$7,000	\$0	\$7,000
NYSERDA Length of grant: 2 Year grant began: 2010 Sources of the grant: American Recovery and Reinvestment Act Partners: Albany International Airport, Ballston Spa CSD, Charlotte Valley CSD, City of Albany, Coca Cola, East Greenbush CSD, Gilboa-Conesville CSD, Hoosick Valley CSD, NYSDEC, NYSDOS, National Grid, SUNY Albany, Verizon Technologies: CNG - Compressed Natural Gas, Electricity, Fuel Economy Improvements, LPG - Liquefied Petroleum Gas Purpose: To increase the number of Alternative Fueled Vehicles in Fleets and to stimulate the economy <i>The project partners collectively purchased 71 AFVs, installed 1 Public CNG station and 4 private Propane Fueling Site. In 2012 CDCC entered into a contract with Zone 5 to redesign the CDCC website with the remaining ARRA funds. The new website is expected to launch in Spring 2013.</i>	\$3,491,600	\$6,201,000	\$9,692,600	\$7,497	\$3,100,500	\$3,107,997
Total:	\$3,516,600	\$6,201,000	\$9,717,600	\$14,497	\$3,100,500	\$3,114,997