

# 2015 Transportation Technology Deployment Report:

Centralina Clean Fuels Coalition  
Expanded Edition

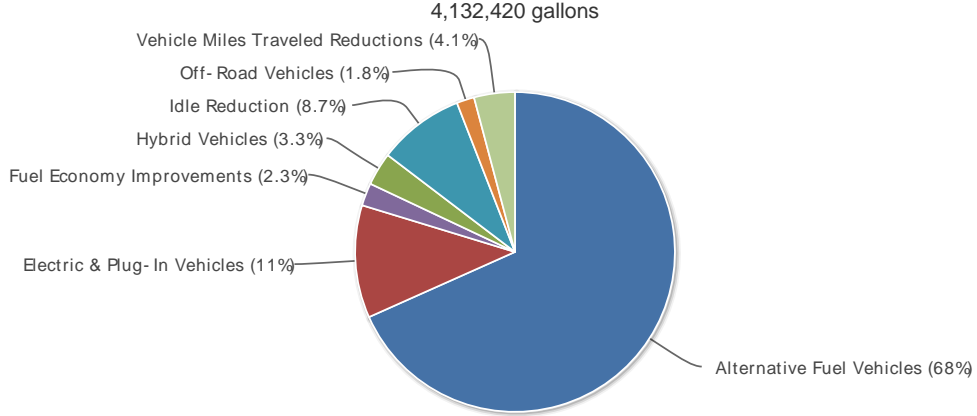
March 2016

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.

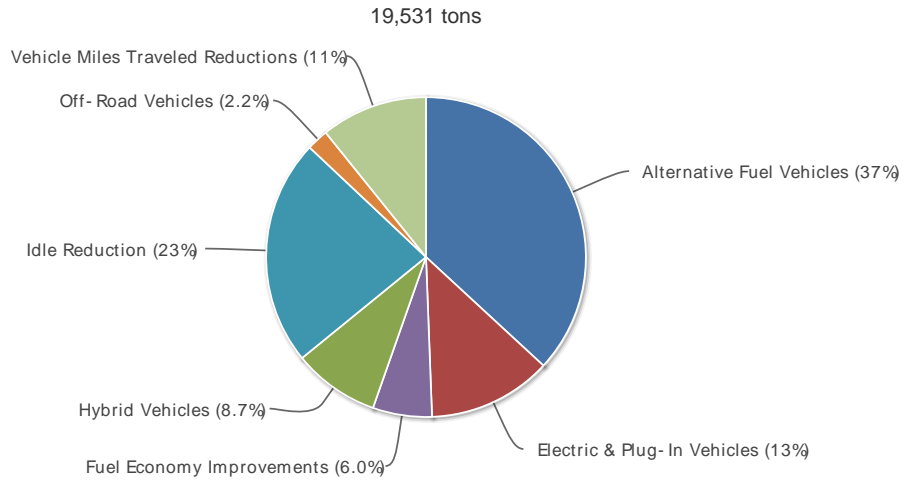
Every year, each Clean Cities coalition submits to DOE an annual report of its activities and accomplishments for the previous calendar year. Coalition coordinators, who lead the local coalitions, provide information and data via an online database managed by the National Renewable Energy Laboratory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

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

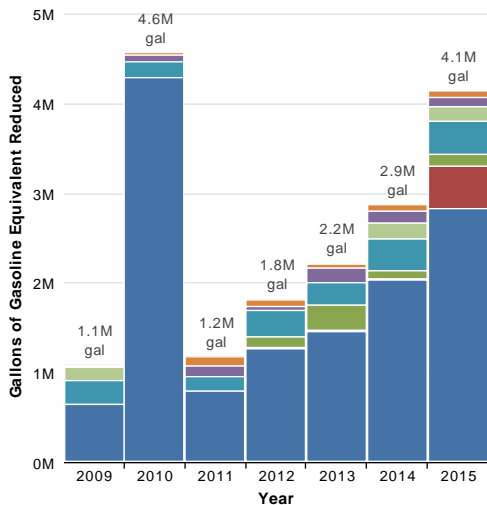
### 2015 Gallons of Gasoline Equivalent Reduced



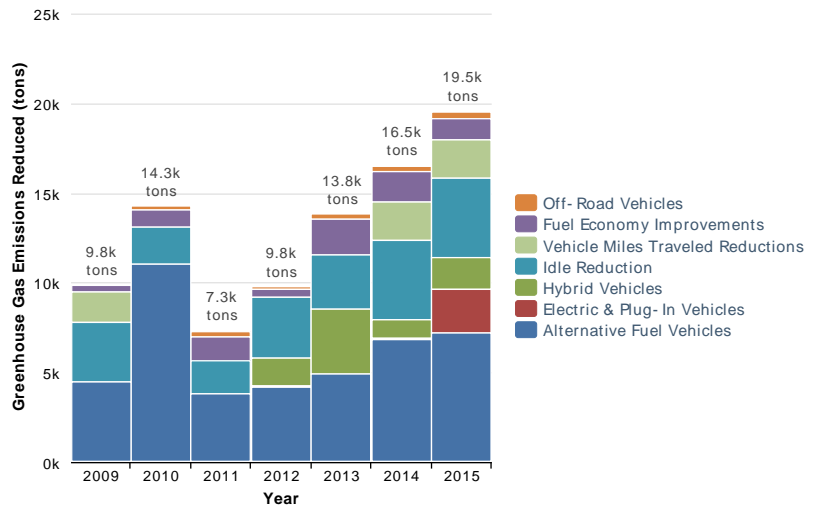
### 2015 Greenhouse Gas Emissions Reduced



### Historical Gallons of Gasoline Equivalent Reduced

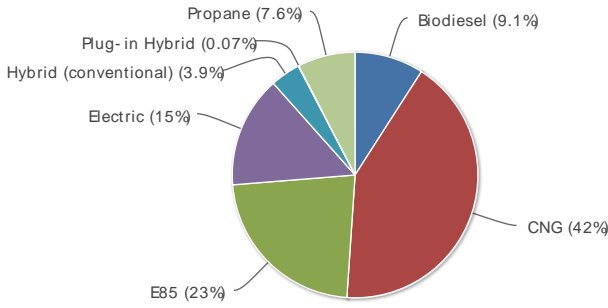


### Historical Greenhouse Gas Emissions Reduced



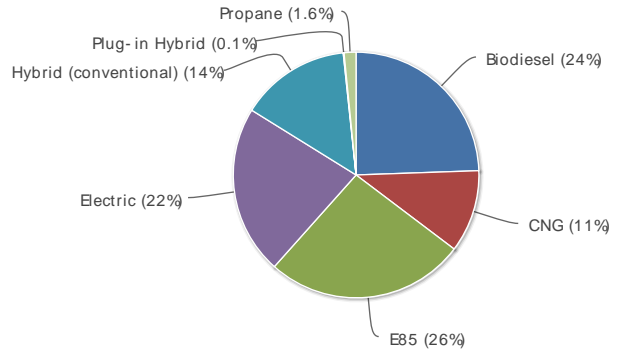
**2015 Gallons of Gasoline Equivalent Reduced by Fuel Type for Alternative Fuel Projects**

3,506,619 gallons



**2015 Greenhouse Gas Emissions Reduced by Fuel Type for Alternative Fuel Projects**

11,779 tons



**COALITION**

**Centralina Clean Fuels Coalition - NC**

<http://www.4cleanfuels.com>

**Designated:** 10/15/2004

**Boundaries:** Counties: Anson, Cabarrus, Gaston, Iredell, Lincoln, Mecklenburg, Rowan, Stanly, Union; City of Charlotte

**COORDINATORS**

	<b>Address</b>	<b>Telephone</b>	<b>Fax</b>
<b>Jason Wager</b>	525 N Tryon St, 12th Fl  Charlotte, NC 28202		

<b>Number of coordinators</b>	2
<b>Coordinator(s) hours per week on Clean Cities</b>	70 hours
<b>Other staff hours per week on Clean Cities</b>	30 hours
<b>How long have you been the coordinator?</b>	11 years

**OPERATING INFORMATION**

<b>Host organization</b>	Council of Governments (COG), Municipal Planning Organization (MPO), or Regional Planning Commission (RPC)
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**Stakeholders**

<b>Number of stakeholders</b>	200
<b>Number of private stakeholders</b>	100
<b>Does the State Energy Office provide any financial support to the coalition or stakeholders?</b>	Yes
<b>Explain State Energy Office's support</b>	
SEO contract end date: 6/30/15	
<b>How would you rate the quality of the data on your survey?</b>	Excellent

How do you obtain most of your data for the survey?

Coalition records,  
Online questionnaire  
to stakeholders  
(SurveyMonkey,  
Google Forms,  
etc), Paper, e-mail,  
or spreadsheet  
questionnaire to  
stakeholders, Phone  
calls to stakeholders

Has your coalition registered with www.grants.gov?

Yes

## 2015 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 2015	\$117,273
Total non-DOE or ARRA funding in 2015	\$117,273

## VEHICLE & FUEL INVENTORY

### Alternative Fuel & Vehicles

Fleet/Station Name	Vehicle Class	Fuel	Number of Vehicles	Fuel Used	GGE Reduced	GHG Reduced
Charlotte Mecklenburg Schools White Fleet <small>Market: Government - Local Vehicle type: Pickup/SUV/Van Percentage from coalition: 100% National Clean Fleets Partnership: No</small>	Light-Duty	Propane	5	10,158 gal	7,690 gal	10.9 tons
Charlotte Mecklenburg Schools Yellow Fleet <small>Market: Government - Local Vehicle type: Bus: School Percentage from coalition: 100% National Clean Fleets Partnership: No</small>	Heavy-Duty	Propane	2	4,369 gal	2,977 gal	1.2 tons
City of Charlotte <small>Market: Government - Local Vehicle type: Car Percentage from coalition: 100% National Clean Fleets Partnership: No</small>	Light-Duty	E85	933	1,288,086 gal	744,514 gal	2,904.3 tons
City of Charlotte Solid Waste <small>Market: Government - Local Vehicle type: Unknown/Other Percentage from coalition: 100% National Clean Fleets Partnership: No</small>	Heavy-Duty	CNG	15	114,509 GGE	103,058 gal	86.8 tons
City of Concord <small>Market: Government - Local Vehicle type: Unknown/Other Percentage from coalition: 100% National Clean Fleets Partnership: No</small>	Heavy-Duty	Biodiesel (20%)	156	311,800 gal	66,476 gal	582.1 tons

Fleet/Station Name	Vehicle Class	Fuel	Number of Vehicles	Fuel Used	GGE Reduced	GHG Reduced
City of Concord	Light-Duty	Propane	1	100% of time	333 gal	0.5 tons
Miles traveled per vehicle: 4,000 mi Average vehicle fuel economy: 12 MPGge Market: Government - Local Vehicle type: Pickup/SUV/Van Percentage from coalition: 100% National Clean Fleets Partnership: No						
Duke Energy	Light-Duty	E85	61	56,441 gal	24,467 gal	95.4 tons
Market: Utility Vehicle type: Pickup/SUV/Van Percentage from coalition: 75% National Clean Fleets Partnership: No						
Excel Truck Group - Johnson North America	Heavy-Duty	CNG	1	100% of time	4,426 gal	3.7 tons
Miles traveled per vehicle: 12,000 mi Average vehicle fuel economy: 3 MPGde Market: Corporate Fleet Vehicle type: Unknown/Other Percentage from coalition: 100% National Clean Fleets Partnership: No						
Frito-Lay CNG	Heavy-Duty	CNG	54	921,851 GGE	829,666 gal	698.6 tons
Market: Corporate Fleet Vehicle type: Truck: Semi-trailer Percentage from coalition: 100% National Clean Fleets Partnership: Yes <i>This is nationwide fleet data from an NCFP Fleet</i>						
GAIN Clean Fuels	Heavy-Duty	CNG	0	14,242 GGE	12,818 gal	10.8 tons
Market: General/Unknown Vehicle type: Unknown/Other Percentage from coalition: 100% National Clean Fleets Partnership: No						
Gaston County	Light-Duty	Propane	31	84,005 gal	63,592 gal	89.9 tons
Market: Government - Local Vehicle type: Unknown/Other Percentage from coalition: 100% National Clean Fleets Partnership: No						
Gaston County	Heavy-Duty	Propane	22	42,605 gal	29,027 gal	11.4 tons
Market: Government - Local Vehicle type: Bus: Shuttle Percentage from coalition: 100% National Clean Fleets Partnership: No						
God Bless the USA, inc.	Heavy-Duty	CNG	4	56,302 GGE	50,672 gal	42.7 tons
Market: General/Unknown Vehicle type: Truck: Refuse Percentage from coalition: 100% National Clean Fleets Partnership: No						
Iredell County Sheriff's Office	Light-Duty	Propane	27	8,934 gal	6,763 gal	9.6 tons
Market: Government - Local Vehicle type: Patrol Car Percentage from coalition: 100% National Clean Fleets Partnership: No						
Mecklenburg County LUESA	Heavy-Duty	CNG	1	100% of time	9,221 gal	7.8 tons
Miles traveled per vehicle: 25,000 mi Average vehicle fuel economy: 3 MPGde Market: Government - Local Vehicle type: Unknown/Other Percentage from coalition: 100% National Clean Fleets Partnership: No						

Fleet/Station Name	Vehicle Class	Fuel	Number of Vehicles	Fuel Used	GGE Reduced	GHG Reduced
NC Department of Public Instruction	Light-Duty	Biodiesel (20%)	900	33,320 gal	6,393 gal	58.5 tons
Market: Government - State Vehicle type: Unknown/Other Percentage from coalition: 75% National Clean Fleets Partnership: No <i>Estimated number of vehicles</i>						
NC Department of Public Instruction	Light-Duty	Propane	82	1,779 gal	1,010 gal	1.4 tons
Market: Government - State Vehicle type: Unknown/Other Percentage from coalition: 75% National Clean Fleets Partnership: No <i>Estimated number of vehicles</i>						
NC Department of Transportation	Light-Duty	Biodiesel (20%)	943	1,129,145 gal	216,660 gal	1,982.6 tons
Market: Government - State Vehicle type: Unknown/Other Percentage from coalition: 75% National Clean Fleets Partnership: No						
NC Dept of Administration - Motor Fleet Management	Light-Duty	E85	651	49,000 gal	21,242 gal	82.9 tons
Market: Government - State Vehicle type: Car Percentage from coalition: 75% National Clean Fleets Partnership: No						
North Carolina Zoo	Heavy-Duty	Propane	2	2,090 gal	1,424 gal	0.6 tons
Market: Government - State Vehicle type: Unknown/Other Percentage from coalition: 100% National Clean Fleets Partnership: No						
Piedmont Natural Gas	Heavy-Duty	CNG	1	139 GGE	94 gal	0.1 tons
Market: Utility Vehicle type: Unknown/Other Percentage from coalition: 75% National Clean Fleets Partnership: No						
Piedmont Natural Gas	Light-Duty	CNG	78	49,561 GGE	35,312 gal	45.7 tons
Market: Utility Vehicle type: Pickup/SUV/Van Percentage from coalition: 75% National Clean Fleets Partnership: No						
Power Resource Group	Light-Duty	Biodiesel (50%)	1	800 gal	512 gal	4.7 tons
Market: General/Unknown Vehicle type: Car Percentage from coalition: 100% National Clean Fleets Partnership: No						
Power Resource Group	Light-Duty	CNG	2	2,400 GGE	2,280 gal	3.0 tons
Market: General/Unknown Vehicle type: Pickup/SUV/Van Percentage from coalition: 100% National Clean Fleets Partnership: No						
PSNC Energy	Light-Duty	CNG	155	66,261 GGE	47,211 gal	61.2 tons
Market: Utility Vehicle type: Pickup/SUV/Van Percentage from coalition: 75% National Clean Fleets Partnership: No <i>GGE calculated based on growth in fleet size from previous year fleet size and fuel consumption.</i>						

Fleet/Station Name	Vehicle Class	Fuel	Number of Vehicles	Fuel Used	GGE Reduced	GHG Reduced
Rowan Transit System	Heavy-Duty	Propane	10	48,132 gal	32,792 gal	12.9 tons
Market: Government - Local Vehicle type: Bus: Shuttle Percentage from coalition: 100% National Clean Fleets Partnership: No						
Schwan's Home Service	Heavy-Duty	Propane	16	75,828 gal	51,661 gal	20.3 tons
Market: Corporate Fleet Vehicle type: Truck: No Trailer Percentage from coalition: 100% National Clean Fleets Partnership: Yes						
UNC Charlotte	Light-Duty	Biodiesel (20%)	106	7,953 gal	1,526 gal	14.0 tons
Market: Government - State Vehicle type: Unknown/Other Percentage from coalition: 75% National Clean Fleets Partnership: No						
UNC Charlotte	Light-Duty	E85	32	8,013 gal	3,474 gal	13.6 tons
Market: Government - State Vehicle type: Unknown/Other Percentage from coalition: 75% National Clean Fleets Partnership: No						
UPS Propane	Heavy-Duty	Propane	31	100,489 gal	68,463 gal	26.8 tons
Market: Corporate Fleet Vehicle type: Truck: No Trailer Percentage from coalition: 100% National Clean Fleets Partnership: Yes						
Waste Management CNG	Heavy-Duty	CNG	50	419,527 GGE	377,574 gal	317.9 tons
Market: Corporate Fleet Vehicle type: Truck: Refuse Percentage from coalition: 100% National Clean Fleets Partnership: Yes						
<b>Total:</b>			<b>4,373</b>		<b>2,823,327 gal</b>	<b>7,201 tons</b>

## Electric, Hybrid & Plug-in Vehicles

Fleet/Station Name	Vehicle Class	Fuel	Number of Vehicles	GGE Reduced	GHG Reduced
Cabarrus County	Light-Duty	HEV	49	8,276 gal	101.9 tons
Average vehicle fuel economy: 30 MPG Miles traveled per vehicle per year: 18,000 mi Market: Government - Local Vehicle type: Car Percentage from coalition: 100% National Clean Fleets Partnership: No					
Celgard	Light-Duty	Electric	1	257 gal	1.3 tons
Electricity used: 1,800 kWh Market: Corporate Fleet Vehicle type: Car Percentage from coalition: 100% National Clean Fleets Partnership: No					
Celgard	Light-Duty	PHEV	1	184 gal	1.0 tons
Electricity used: 1,800 kWh Market: Corporate Fleet Vehicle type: Car Percentage from coalition: 100% National Clean Fleets Partnership: No					



Fleet/Station Name	Vehicle Class	Fuel	Number of Vehicles	GGE Reduced	GHG Reduced
<b>Centralina Council of Governments</b> Average vehicle fuel economy: 40 MPG Miles traveled per vehicle per year: 17,170 mi Market: Government - Local Vehicle type: Car Percentage from coalition: 100% National Clean Fleets Partnership: No	Light-Duty	HEV	5	1,521 gal	18.7 tons
<b>Chargepoint</b> Electricity used: 61,987 kWh Market: General/Unknown Vehicle type: Unknown/Other Percentage from coalition: 100% National Clean Fleets Partnership: No <i>Electric vehicle Charging Stations</i>	Light-Duty	Electric	0	6,323 gal	32.9 tons
<b>Charlotte Area Transit Systems</b> Average electric fuel economy: - kWh/100mi Average vehicle fuel economy: 5 MPG Miles traveled per vehicle per year: 30,000 mi Market: Government - Local Vehicle type: Bus: Transit Percentage from coalition: 100% National Clean Fleets Partnership: No	Heavy-Duty	HEV	28	99,216 gal	1,222.1 tons
<b>Charlotte Douglas Airport</b> Average electric fuel economy: - kWh/100mi Average vehicle fuel economy: 6 MPG Miles traveled per vehicle per year: 14,724 mi Market: Airport Vehicle type: Bus: Transit Percentage from coalition: 100% National Clean Fleets Partnership: No	Heavy-Duty	HEV	10	13,576 gal	167.2 tons
<b>Charlotte Douglas Airport</b> Average electric fuel economy: - kWh/100mi Miles traveled per vehicle per year: 100 mi Market: Airport Vehicle type: Unknown/Other Percentage from coalition: 100% National Clean Fleets Partnership: No	Light-Duty	Electric	2	9 gal	0.0 tons
<b>Charlotte Douglas Airport</b> Average electric fuel economy: - kWh/100mi Miles traveled per vehicle per year: 1,812 mi Market: Airport Vehicle type: Car Percentage from coalition: 100% National Clean Fleets Partnership: No	Light-Duty	Electric	1	108 gal	0.6 tons
<b>Charlotte Douglas Airport</b> Average vehicle fuel economy: 22 MPG Miles traveled per vehicle per year: 12,500 mi Market: Airport Vehicle type: Pickup/SUV/Van Percentage from coalition: 100% National Clean Fleets Partnership: No	Light-Duty	HEV	2	320 gal	3.9 tons
<b>Charlotte Mecklenburg Schools White Fleet</b> Average electric fuel economy: - kWh/100mi Miles traveled per vehicle per year: 500 mi Market: Government - Local Vehicle type: Low-Speed/Neighborhood Percentage from coalition: 100% National Clean Fleets Partnership: No <i>Miles traveled per vehicle per year estimated.</i>	Light-Duty	Electric	4	148 gal	0.8 tons

Fleet/Station Name	Vehicle Class	Fuel	Number of Vehicles	GGE Reduced	GHG Reduced
Charlotte Water Electricity used: 598 kWh Market: Government - Local Vehicle type: Unknown/Other Percentage from coalition: 100% National Clean Fleets Partnership: No	Heavy-Duty	Electric	5	51 gal	0.2 tons
Charlotte Water Average electric fuel economy: - kWh/100mi Miles traveled per vehicle per year: 66 mi Market: Government - Local Vehicle type: Low-Speed/Neighborhood Percentage from coalition: 100% National Clean Fleets Partnership: No	Light-Duty	Electric	10	49 gal	0.3 tons
City of Charlotte Average electric fuel economy: - kWh/100mi Miles traveled per vehicle per year: 675 mi Market: Airport Vehicle type: Car Percentage from coalition: 100% National Clean Fleets Partnership: No	Light-Duty	Electric	2	81 gal	0.4 tons
City of Charlotte Average electric fuel economy: - kWh/100mi Miles traveled per vehicle per year: 11,244 mi Market: Airport Vehicle type: Car Percentage from coalition: 100% National Clean Fleets Partnership: No	Light-Duty	Electric	675	453,891 gal	2,359.1 tons
City of Charlotte Average electric fuel economy: - kWh/100mi Miles traveled per vehicle per year: 10,614 mi Market: Government - Local Vehicle type: Car Percentage from coalition: 100% National Clean Fleets Partnership: No	Light-Duty	Electric	7	4,443 gal	23.1 tons
City of Charlotte Average vehicle fuel economy: 22 MPG Miles traveled per vehicle per year: 10,741 mi Market: Airport Vehicle type: Pickup/SUV/Van Percentage from coalition: 100% National Clean Fleets Partnership: No	Light-Duty	HEV	2	814 gal	10.0 tons
City of Charlotte Average vehicle fuel economy: 37 MPG Miles traveled per vehicle per year: 10,614 mi Market: Government - Local Vehicle type: Car Percentage from coalition: 100% National Clean Fleets Partnership: No	Light-Duty	PHEV	3	500 gal	2.9 tons
City of Charlotte Solid Waste Average vehicle fuel economy: 37 MPG Miles traveled per vehicle per year: 11,244 mi Market: Government - Local Vehicle type: Car Percentage from coalition: 100% National Clean Fleets Partnership: No	Light-Duty	PHEV	2	353 gal	2.0 tons

Fleet/Station Name	Vehicle Class	Fuel	Number of Vehicles	GGE Reduced	GHG Reduced
City of Concord Average electric fuel economy: - kWh/100mi Miles traveled per vehicle per year: 2,000 mi Market: Government - Local Vehicle type: Unknown/Other Percentage from coalition: 100% National Clean Fleets Partnership: No	Light-Duty	Electric	4	370 gal	1.9 tons
City of Concord Average vehicle fuel economy: 32 MPG Miles traveled per vehicle per year: 9,000 mi Market: Government - Local Vehicle type: Pickup/SUV/Van Percentage from coalition: 100% National Clean Fleets Partnership: No	Light-Duty	HEV	15	3,644 gal	44.9 tons
Duke Energy Average electric fuel economy: - kWh/100mi Miles traveled per vehicle per year: 3,500 mi Market: Utility Vehicle type: Car Percentage from coalition: 75% National Clean Fleets Partnership: No	Light-Duty	Electric	1	157 gal	0.8 tons
Duke Energy Average vehicle fuel economy: 37 MPG Miles traveled per vehicle per year: 15,000 mi Market: Utility Vehicle type: Car Percentage from coalition: 75% National Clean Fleets Partnership: No	Light-Duty	PHEV	7	1,236 gal	7.1 tons
Gaston County Average vehicle fuel economy: 48 MPG Miles traveled per vehicle per year: 18,000 mi Market: Government - Local Vehicle type: Car Percentage from coalition: 100% National Clean Fleets Partnership: No	Light-Duty	HEV	28	11,029 gal	135.9 tons
Mecklenburg County LUESA Average vehicle fuel economy: 35 MPG Miles traveled per vehicle per year: 1,523 mi Market: Government - Local Vehicle type: Car Percentage from coalition: 100% National Clean Fleets Partnership: No	Light-Duty	PHEV	1	22 gal	0.1 tons
UNC Charlotte Average electric fuel economy: - kWh/100mi Miles traveled per vehicle per year: 287 mi Market: Government - State Vehicle type: Low-Speed/Neighborhood Percentage from coalition: 75% National Clean Fleets Partnership: No	Light-Duty	Electric	120	2,583 gal	13.4 tons
<b>Total:</b>			<b>985</b>	<b>609,158 gal</b>	<b>4,153 tons</b>

## Off-Road Vehicles

Fleet Name	Application	Method	Fuel	Number of Vehicles	GGE Reduced	GHG Reduced
Charlotte Douglas Airport	Forklifts	Alternative fuel or vehicles	Electric	2	2 gal	0.0 tons
Fuel used: 25 kWh Percentage from coalition: 100% National Clean Fleets Partnership: No						

Fleet Name	Application	Method	Fuel	Number of Vehicles	GGE Reduced	GHG Reduced
Charlotte Douglas Airport	Forklifts	Alternative fuel or vehicles	Propane	2	150 gal	0.1 tons
Fuel used: 220 gal Percentage from coalition: 100% National Clean Fleets Partnership: No						
City of Concord	Construction equipment	Alternative fuel or vehicles	Biodiesel (20%)	61	3,838 gal	33.6 tons
Fuel used: 18,000 gal Percentage from coalition: 100% National Clean Fleets Partnership: No						
Duke Energy	Recreational equipment	Alternative fuel or vehicles	Electric	7	11,119 gal	44.5 tons
Fuel used: 174,626 kWh Percentage from coalition: 75% National Clean Fleets Partnership: No						
Duke Energy	Forklifts	Alternative fuel or vehicles	Electric	46	35,658 gal	142.8 tons
Fuel used: 560,000 kWh Percentage from coalition: 75% National Clean Fleets Partnership: No						
Gaston County	Construction equipment	Alternative fuel or vehicles	Biodiesel (20%)	26	23,341 gal	204.4 tons
Fuel used: 109,479 gal Percentage from coalition: 100% National Clean Fleets Partnership: No						
Mecklenburg County Parks and Rec	Construction equipment	Alternative fuel or vehicles	Electric	1	4 gal	0.0 tons
Fuel used: 50 kWh Percentage from coalition: 100% National Clean Fleets Partnership: No						
Mecklenburg County Parks and Rec	Other	Alternative fuel or vehicles	Propane	1	14 gal	0.0 tons
Fuel used: 21 gal Percentage from coalition: 100% National Clean Fleets Partnership: No						
Mecklenburg County Parks and Rec	Landscaping and lawn equipment	Alternative fuel or vehicles	Propane	2	8 gal	0.0 tons
Fuel used: 12 gal Percentage from coalition: 100% National Clean Fleets Partnership: No						
<b>Total:</b>				<b>148</b>	<b>74,135 gal</b>	<b>425 tons</b>

## FUEL ECONOMY

### Fuel Economy Improvements

Fleet Name	Previous Fuel	Current Fuel	Number of Vehicles	Miles Traveled per Vehicle	GGE Reduced	GHG Reduced
Charlotte Area Transit System	16 MPG	17 MPG	98	18,000 mi	6,485 gal	79.9 tons
Method: Telematics Vehicle class: Light-Duty Market: Government - Local Vehicle type: Pickup/SUV/Van Percentage from coalition: 100% National Clean Fleets Partnership: No <i>Miles traveled is an estimate.</i>						

Fleet Name	Previous Fuel	Current Fuel	Number of Vehicles	Miles Traveled per Vehicle	GGE Reduced	GHG Reduced
Charlotte Douglas Airport	18 MPG	22 MPG	2	16,062 mi	324 gal	4.0 tons
Method: Vehicle - More efficient Vehicle class: Light-Duty Market: Airport Vehicle type: Pickup/SUV/Van Percentage from coalition: 100% National Clean Fleets Partnership: No						
Charlotte Douglas Airport	3 MPG	4 MPG	10	38,996 mi	35,957 gal	445.9 tons
Method: Vehicle - More efficient Vehicle class: Heavy-Duty Market: Government - Local Vehicle type: Truck: No Trailer Percentage from coalition: 100% National Clean Fleets Partnership: No						
City of Charlotte	18 MPG	26 MPG	41	27,000 mi	18,923 gal	233.1 tons
Method: Vehicle - More efficient Vehicle class: Light-Duty Market: Government - Local Vehicle type: Car Percentage from coalition: 100% National Clean Fleets Partnership: No						
City of Concord	11 MPG	14 MPG	169	10,000 mi	32,922 gal	405.5 tons
Method: Vehicle - More efficient Vehicle class: Light-Duty Market: Government - Local Vehicle type: Patrol Car Percentage from coalition: 100% National Clean Fleets Partnership: No						
<b>Total:</b>			<b>320</b>	<b>110,058 mi</b>	<b>94,611 gal</b>	<b>1,168 tons</b>

## Vehicle Miles Traveled Reductions

Fleet Name	Method	Vehicle Class	GGE Reduced	GHG Reduced
Charlotte Area Transit System	Mass transit	Light-Duty	42,000 gal	517.3 tons
Fuel saved: 4,200,000 gallons Percentage from coalition: 1% National Clean Fleets Partnership: No  <i>This is based on transit ridership, assuming that transit takes cars off the road. It is CATS passenger miles minus their bus miles or 105,000,000 VMTs annually divided by an assumed 25mpg vehicle being taken off the road. Further, CCFC staff is estimating a conservative 1% contribution to account for greater than single occupancy vehicles, some passengers not owning a vehicle at all, and simply to allocate reasonable credit toward our modest outreach and transportation demand management (TDM) efforts in 2014.</i>				
Charlotte B-Cycle	Non-motorized locomotion (e.g., bicycles)	Light-Duty	225 gal	2.8 tons
Fuel: Gasoline Fuel economy: 23 MPG Number of vehicles: 207 VMT reduction per vehicle: 25 mi Percentage from coalition: 100% National Clean Fleets Partnership: No				
Charlotte Mecklenburg Schools Yellow Fleet	Mass transit	Heavy-Duty	126,454 gal	1,568.0 tons
Fuel: Diesel Fuel economy: 7 MPG Number of vehicles: 1,600 VMT reduction per vehicle: 500 mi Percentage from coalition: 100% National Clean Fleets Partnership: No				

Fleet Name	Method	Vehicle Class	GGE Reduced	GHG Reduced
UNC Charlotte	Route Optimization	Light-Duty	1,767 gal	21.8 tons
Fuel: Gasoline Fuel economy: 15 MPG Number of vehicles: 106 VMT reduction per vehicle: 250 mi Percentage from coalition: 100% National Clean Fleets Partnership: No				
<b>Total:</b>			<b>170,445 gal</b>	<b>2,110 tons</b>

## IDLE REDUCTION

### Idle Reduction

Project Name	Number of Vehicles	Idling Reduced per Vehicle	Fuel Saved per Vehicle	GGE Reduced	GHG Reduced
Charlotte Area Transit System	316	8 mins/day 365 days/year	1 gal/hr	15,379 gal	190.7 tons
Type of project: Policies Type of vehicle: Other Percentage from coalition: 100% National Clean Fleets Partnership: No					
Charlotte Douglas Airport	10	631 mins/day 365 days/year	1 gal/hr	38,386 gal	476.0 tons
Type of project: Auxiliary power unit (APU) Type of vehicle: Other Percentage from coalition: 100% National Clean Fleets Partnership: No					
Charlotte Douglas Airport	126	25 mins/day 365 days/year	2 gal/hr	38,325 gal	475.2 tons
Type of project: Policies Type of vehicle: Light-Duty Percentage from coalition: 100% National Clean Fleets Partnership: No					
Charlotte Douglas Airport	65	45 mins/day 365 days/year	2 gal/hr	35,588 gal	441.3 tons
Type of project: Policies Type of vehicle: Other Percentage from coalition: 100% National Clean Fleets Partnership: No					
Charlotte Douglas Airport	10	631 mins/day 365 days/year	1 gal/hr	38,386 gal	476.0 tons
Type of project: Onboard batteries Type of vehicle: Other Percentage from coalition: 100% National Clean Fleets Partnership: No					
Charlotte Mecklenburg Schools Yellow Fleet	1,200	15 mins/day 180 days/year	1 gal/hr	54,000 gal	669.6 tons
Type of project: Policies Type of vehicle: School Bus Percentage from coalition: 100% National Clean Fleets Partnership: No					
Duke Energy	8,000	10 mins/day 365 days/year	0 gal/hr	59,928 gal	743.1 tons
Type of project: Policies Type of vehicle: Other Percentage from coalition: 47% National Clean Fleets Partnership: No <i>Statewide data, 47% of which falls within CCFC region.</i>					

Project Name	Number of Vehicles	Idling Reduced per Vehicle	Fuel Saved per Vehicle	GGE Reduced	GHG Reduced
Food Lion	10	299 mins/day 365 days/year	3 gal/hr	54,568 gal	676.6 tons
Type of project: Auxiliary power unit (APU) Type of vehicle: Delivery Truck Percentage from coalition: 100% National Clean Fleets Partnership: No					
North Carolina Zoo	129	2 mins/day 360 days/year	1 gal/hr	1,548 gal	19.2 tons
Type of project: Policies Type of vehicle: Light-Duty Percentage from coalition: 100% National Clean Fleets Partnership: No					
UNC Charlotte	15	180 mins/day 365 days/year	2 gal/hr	24,638 gal	305.5 tons
Type of project: Policies Type of vehicle: Other Percentage from coalition: 75% National Clean Fleets Partnership: No					
<b>Total:</b>	<b>9,881</b>			<b>360,744 gal</b>	<b>4,473 tons</b>

## FUEL STATIONS

### New Stations

Fuel	Public Stations	Private Stations
Biodiesel	1	2
CNG - Compressed Natural Gas	11	0
E85 - 85% Ethanol	1	1
Electric Charging Outlets	20	24
Hydrogen	0	0
LNG - Liquefied Natural Gas	0	0
Propane	1	3
<b>Total:</b>	<b>34</b>	<b>30</b>

## OUTREACH ACTIVITIES

Activity Name	Dates	Activity Type	Percentage from Coalition	Persons Reached
Stakeholder Meeting	03/18/2015	Meeting - Stakeholder	100%	15
Technology: Biodiesel, E85, Electric vehicles, Fuel economy improvements, Hybrid electric vehicles, Idle reduction, Natural gas vehicles, Propane, Vehicle miles traveled reduction Audience: Delivery, Government, Private Fleets, Utility, Other Presentation from Mecklenburg County Air Quality.				
AssetWorks Users Conference	03/31/2015	Conference participation	100%	300
Technology: Fuel economy improvements, Idle reduction, Vehicle miles traveled reduction Audience: Airport, Delivery, General Public, Government, Private Fleets, Transit, Utility, Waste, Other Conference participation (tabling) as well as Clean Cities presentation.				
Wood Partners Presentation	04/02/2015	Meeting - Other	100%	10
Technology: Electric vehicles, Hybrid electric vehicles Audience: Other Presentation for multi-family EV charging infrastructure.				

Activity Name	Dates	Activity Type	Percentage from Coalition	Persons Reached
GAIN Clean Fuels Meeting <b>Technology:</b> Natural gas vehicles <b>Audience:</b> Delivery, Government, Private Fleets, Other <i>Meeting with CNG station installer for collaboration in CCFC (successful).</i>	04/09/2015	Meeting - Other	100%	1
Charlotte-Mecklenburg Government Center Earth Day <b>Technology:</b> Electric vehicles, Hybrid electric vehicles, Idle reduction <b>Audience:</b> General Public, Government, Utility, Waste, Other	04/10/2015	Literature Distribution	100%	100
Schiele Museum Earth Day <b>Technology:</b> Electric vehicles, Hybrid electric vehicles, Idle reduction <b>Audience:</b> General Public <i>Idle reduction campaign was a big hit with the parents!</i>	04/11/2015	Literature Distribution	100%	200
UNC Charlotte Earth Day <b>Technology:</b> Biodiesel, E85, Electric vehicles, Fuel economy improvements, Hybrid electric vehicles, Idle reduction, Natural gas vehicles, Propane, Vehicle miles traveled reduction <b>Audience:</b> General Public, Transit, Utility, Other	04/22/2015	Literature Distribution	100%	150
Capitol Ford Meeting <b>Technology:</b> Electric vehicles, Hybrid electric vehicles, Natural gas vehicles, Propane <b>Audience:</b> Private Fleets, Other <i>Meeting to discuss potential partnership with CCFC (successful); Mainly discussed CNG vehicles and possible stations.</i>	05/04/2015	Meeting - Other	100%	2
Propane Lawn Demo Day <b>Technology:</b> Propane <b>Audience:</b> General Public, Government, Private Fleets, Utility, Other <i>Attendees were able to test out propane lawn equipment.</i>	05/13/2015	Workshop held by coalition	100%	50
Stakeholder Meeting <b>Technology:</b> Electric vehicles, Fuel economy improvements, Hybrid electric vehicles, Idle reduction <b>Audience:</b> Delivery, Government, Private Fleets, Transit, Utility, Waste, Other <i>Clean Fuel Advanced Technology grant awardee VEBAR presented on EV system.</i>	05/20/2015	Meeting - Stakeholder	100%	12
Penske meeting <b>Technology:</b> Natural gas vehicles <b>Audience:</b> Delivery, Private Fleets <i>Meeting to discuss potential partnership with CCFC (successful).</i>	05/28/2015	Meeting - Other	100%	2
City of Charlotte Meeting <b>Technology:</b> Electric vehicles, Hybrid electric vehicles <b>Audience:</b> Government <i>Discussed EV charging infrastructure to be installed.</i>	06/10/2015	Meeting - Other	100%	4
Western NC Air Quality Conference Presentation <b>Technology:</b> Biodiesel, E85, Electric vehicles, Fuel economy improvements, Hybrid electric vehicles, Hydrogen, Natural gas vehicles, Propane <b>Audience:</b> General Public, Government, Other <i>Evs and Air Quality presentation.</i>	06/19/2015	Conference participation	100%	15
REVAC Meeting <b>Technology:</b> Electric vehicles, Hybrid electric vehicles, Idle reduction <b>Audience:</b> Airport, General Public, Government, Utility, Other <i>Regional Electric Vehicle Committee workshop.</i>	06/24/2015	Workshop held by coalition	100%	15
CNG Roundtable <b>Technology:</b> Natural gas vehicles <b>Audience:</b> Delivery, Government, Private Fleets, Utility, Waste, Other <i>CNG 101 workshop discussing infrastructure installation, vehicle conversion, and fleet basics.</i>	07/15/2015	Workshop held by coalition	100%	30



Activity Name	Dates	Activity Type	Percentage from Coalition	Persons Reached
DCFC Ribbon Cutting <b>Technology:</b> Electric vehicles, Hybrid electric vehicles <b>Audience:</b> General Public, Government, Utility, Other <i>Ribbon cutting ceremony for DC fast charger in Town of Matthews during National Drive Electric Week.</i>	09/15/2015	Media Event	100%	20
City of Charlotte National Drive Electric Week <b>Technology:</b> Electric vehicles, Hybrid electric vehicles <b>Audience:</b> General Public, Government, Other <i>National Drive Electric Week presentation to City/County staff and static vehicle display.</i>	09/16/2015	Conference participation	100%	60
DCFC Ribbon Cutting <b>Technology:</b> Electric vehicles, Hybrid electric vehicles <b>Audience:</b> General Public, Government, Other <i>Ribbon cutting ceremony for DC fast charger in the City of Salisbury during National Drive Electric Week.</i>	09/17/2015	Media Event	100%	20
DCFC Ribbon Cutting <b>Technology:</b> Electric vehicles, Hybrid electric vehicles <b>Audience:</b> General Public, Government, Other <i>Ribbon cutting ceremony for DC fast charger in Town of Dallas during National Drive Electric Week.</i>	09/17/2015	Media Event	100%	20
DCFC Ribbon Cutting <b>Technology:</b> Electric vehicles, Hybrid electric vehicles <b>Audience:</b> Government, Other <i>Ribbon cutting ceremony for DC fast charger in Town of Wadesboro during National Drive Electric Week.</i>	09/18/2015	Media Event	100%	20
Stakeholder Meeting <b>Technology:</b> Electric vehicles, Fuel economy improvements, Hybrid electric vehicles, Idle reduction, Natural gas vehicles, Propane, Vehicle miles traveled reduction <b>Audience:</b> Delivery, Government, Private Fleets, Transit, Utility, Waste, Other	09/24/2015	Meeting - Stakeholder	100%	15
EV Luncheon <b>Technology:</b> Electric vehicles, Fuel economy improvements, Hybrid electric vehicles, Vehicle miles traveled reduction <b>Audience:</b> General Public, Government, Private Fleets, Other <i>Partnered with Envision Charlotte for an EV luncheon series; Presented to 5 organizations in Charlotte about EVs and air quality.</i>	09/28/2015, 09/29/2015, 11/18/2015, 11/20/2015, 12/09/2015	Meeting - Other	50%	100
UNC Charlotte Transportation Fair <b>Technology:</b> Biodiesel, E85, Electric vehicles, Fuel economy improvements, Hybrid electric vehicles, Hydrogen, Idle reduction, Natural gas vehicles, Propane, Vehicle miles traveled reduction <b>Audience:</b> General Public, Government, Other	10/07/2015	Literature Distribution	100%	200
NC Clean Transportation Tour <b>Technology:</b> Electric vehicles, Fuel economy improvements, Hybrid electric vehicles, Idle reduction, Natural gas vehicles, Propane, Vehicle miles traveled reduction <b>Audience:</b> Delivery, General Public, Government, Private Fleets, Transit, Utility, Waste, Other	10/20/2015	Conference participation	100%	60
NC PEV Taskforce Summit <b>Technology:</b> Electric vehicles, Hybrid electric vehicles <b>Audience:</b> General Public, Government, Private Fleets, Other	10/21/2015	Conference participation	100%	60
Stakeholder Meeting <b>Technology:</b> Biodiesel, E85, Electric vehicles, Fuel economy improvements, Hybrid electric vehicles, Hydrogen, Idle reduction, Natural gas vehicles, Propane, Vehicle miles traveled reduction <b>Audience:</b> Delivery, Government, Private Fleets, Transit, Utility, Waste, Other <i>Working group meeting for annual report</i>	11/18/2015	Meeting - Stakeholder	100%	20

Activity Name	Dates	Activity Type	Percentage from Coalition	Persons Reached
GAIN Station Opening <b>Technology:</b> Natural gas vehicles <b>Audience:</b> Delivery, General Public, Government, Private Fleets, Other	11/19/2015	Media Event	100%	30
Centralina Council of Governments Conference <b>Technology:</b> Biodiesel, E85, Electric vehicles, Fuel economy improvements, Hybrid electric vehicles, Hydrogen, Idle reduction, Natural gas vehicles, Propane, Vehicle miles traveled reduction <b>Audience:</b> Government, Other	12/03/2015	Literature Distribution	100%	150
<b>Total:</b>				1,681

## GRANTS

Grantor	Total Grant Amount	Total Matching Funds	Total Project Funding	Grant Amount Spent in 2015	Matching Funds Spent in 2015	Total Project Funding Spent in 2015
Department of Energy <b>Length of grant:</b> 2 <b>Year grant began:</b> 2015 <b>Sources of the grant:</b> Department of Energy <b>Partners:</b> Land of Sky Clean Cities, NC Clean Energy Technology Center, Palmetto State Clean Cities, Tennessee Clean Fuels, Triangle Clean Cities <b>Technologies:</b> CNG - Compressed Natural Gas, Electricity, Propane <b>Purpose:</b> to provide opportunities for fleets to demonstrate a wide range of alternative fuel vehicles <i>The SADI Demonstration grant is a US Department of Energy project focused on the increased adoption of Alternative Fuels in the Southeast region of the United States. Project partners for this grant include Alliance Autogas, Enterprise, ICOM, Palmetto Gas, Penske and others.</i> <i>Clean Cities Coalitions throughout South Carolina, North Carolina and Tennessee will work with technology partners to provide opportunities for fleets to demonstrate a wide range of alternative fuel vehicles.</i>	\$39,500	\$7,900	\$47,400	\$10,094	\$3,900	\$13,994
NC Clean Energy Technology Center <b>Length of grant:</b> 3 <b>Year grant began:</b> 2013 <b>Sources of the grant:</b> Congestion Mitigation and Air Quality Improvement (CMAQ) Program <b>Partners:</b> Land of Sky Clean Cities, NC Clean Energy Technology Center- primary, Triangle Clean Cities <b>Technologies:</b> B100 - 100 percent Biodiesel, Biodiesel Blends, CNG - Compressed Natural Gas, E85 - 85 percent Ethanol, Electricity, Fuel Economy Improvements, Idle Reduction, LNG - Liquefied Natural Gas, Propane, Vehicle-Miles Traveled Reductions, Other <b>Purpose:</b> Education and outreach for Clean Fuel Advanced Technology Program--AQ Improvements <i>The Clean Fuel Advanced Technology (CFAT) 2013-15 project is currently in a third phase of support from the N.C. Department of Transportation with \$6.2 million in federal Congestion Mitigation Air Quality (CMAQ) funding.</i> <i>The CFAT project is focused on reducing transportation related emissions in NC counties that have air quality concerns. The 2013 through 2015 project is funded by the N.C. Department of Transportation and covers three broad areas: education and outreach, project funding, and recognition of exemplary activities (Mobile CARE).</i>	\$112,500	\$28,125	\$140,625	\$38,888	\$9,485	\$48,373
NC Department of Natural Resources-Energy Division <b>Length of grant:</b> 1 <b>Year grant began:</b> 2014 <b>Sources of the grant:</b> State Government <b>Technologies:</b> B100 - 100 percent Biodiesel, Biodiesel Blends, CNG - Compressed Natural Gas, E85 - 85 percent Ethanol, Electricity, Fuel Economy Improvements, Idle Reduction, Propane, Vehicle-Miles Traveled Reductions <b>Purpose:</b> Task based coalition operating support <i>5 task areas including national coordination, statewide coordination, fleet TA, capacity building, and grant admin</i>	\$100,000	\$0	\$100,000	\$65,000	\$0	\$65,000
<b>Total:</b>	<b>\$252,000</b>	<b>\$36,025</b>	<b>\$288,025</b>	<b>\$113,983</b>	<b>\$13,385</b>	<b>\$127,367</b>