Triangle Clean Cities Coalition





Clean Cities Program Overview

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U.S. Department of Energy



Mission

To ensure America's security and prosperity by addressing its energy, environmental, and nuclear challenges through transformative science and technology solutions

Clean Cities Coalitions



- Nearly 100 coalitions throughout the **United States**
- 660,000 AFVs using alternative fuels

Clean Cities Coalitions Winnipeg Western Washington Capital District North Dakota Central New York



^{*} Total includes more than 16,000 electric charging sites.

Clean Cities Portfolio of Technologies



Alternative and Renewable Fuels

- Biodiesel
- Electricity
- Ethanol (E85)
- Hydrogen
- Natural gas
- Propane

Fuel Economy

- Fuel efficient vehicles
- Driving habits
- Vehicle maintenance

Idle Reduction

- Technologies
- Behavioral changes

Trip Elimination

- Telecommuting
- Ridesharing



Clean Cities Strengthens Markets

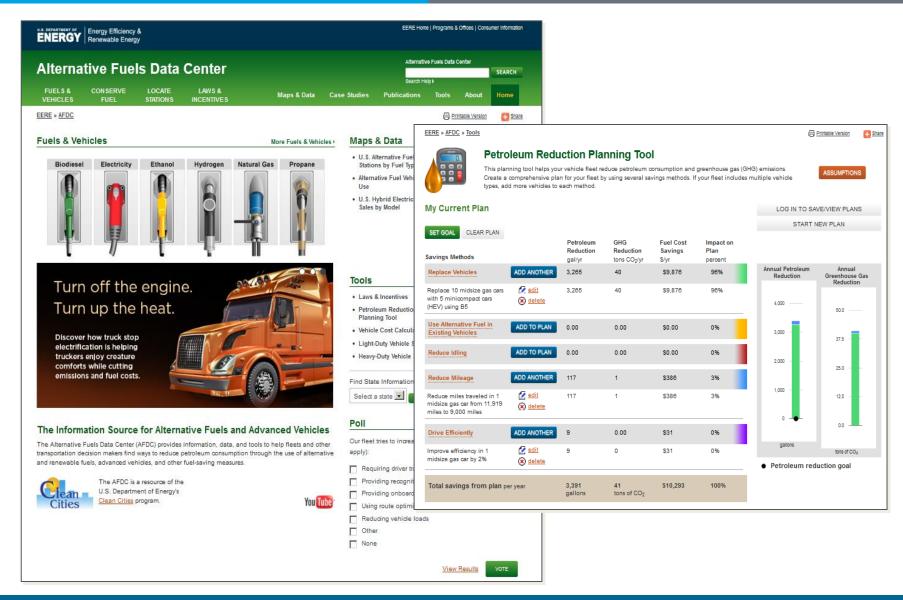


- Connecting fleets with fuel providers and industry partners
- Training and information
- Technical assistance
- Funding
- Education and outreach to decision makers, fleets, and the public



Alternative Fuels Data Center





Current Stakeholders of Triangle Clean Cities Coalition





- Cities of Chapel Hill, Durham, Raleigh
- Counties of Chatham, Durham, Orange, and Wake

- Love's Travel Stops
- North Carolina Department of Transportation
- North Carolina Propane Gas Association
- UNC Chapel Hill and NCSU
- Waste Industries
- Triangle Transit
- BuildSense

Carolina Blue Skies Initiative



- \$12 million federal grant from ARRA, plus \$19 million cost share
- 521 alt fuel vehicles deployed, 141 fueling stations operational
- Propane, natural gas, biodiesel, ethanol, and electric



Chatham County Biodiesel Project

Piedmont Biofuels Stations



- Installed or upgraded stations in Saxapahaw, Wilmington, and Pittsboro
- In 2013, dispensed 22,000 gallons of B100
- 260 tons GHG reduced



Clean Fuel Advanced Technology 2013-2015





"focused on reducing transportation related emissions in NC counties with air quality concerns"

Funded by the N.C.
Department of
Transportation with
Congestion
Mitigation Air Quality
Funds.



CFAT Project in Action



Asthma.

The #1 reason children miss school.



Clear the air at CleanTransportation.org



Land-of Sky-Clean Vehicles Coalition





Coordinator Bill Eaker
Represents the Asheville region

- Allbright Sanitation
- AT&T
- Biltmore Estate
- Blue Ridge Biofuels
- Cities of Asheville, Hendersonville
- Counties of Buncombe, Hendersonville
- Mission Hospital
- Mountain Mobility
- NCDOT
- PSNC Energy

Mission Health Natural Gas



- Converted 5 shuttle buses to run on compressed natural gas
- In 2013, they used about 10,000 gallons and reduced about 18 tons of GHG
- CNG fleets enjoy a cost savings of about \$1.50 per gallon of gasoline equivalent



City of Asheville Natural Gas





- In 2013, Asheville's natural gas vehicles used about 16,000 gallons of gasoline equivalent, and reduced about 30 tons of GHG
- City of Hendersonville also converted 5 heavy-duty vehicles

- Carolina Blue Skies Grant:
- Upgraded station
- Converted 25 vehicles to run on natural gas
- Henderson County upgraded their station, converted 3 vehicles

Biofuels in the Asheville Region





Asheville's local producer is Blue Ridge Biofuels

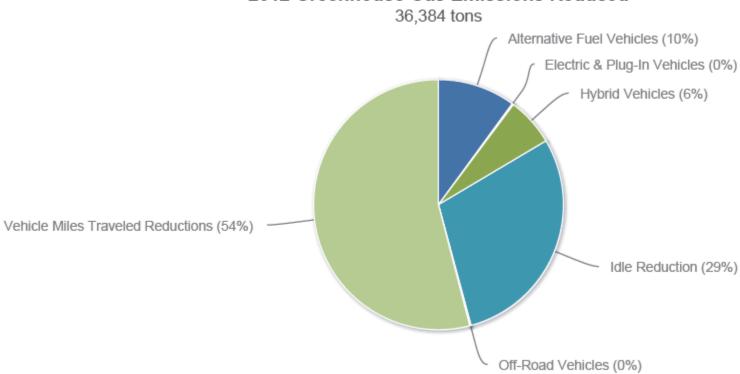
End users of biodiesel:

- Biltmore Estate
- Buncombe County
- City of Asheville
- City of Hendersonville
- Henderson County
- Metropolitan Sewerage District
- Mission Hospital
- North Carolina Department of Transportation

Triangle Clean Cities Coalition Emissions Reduced



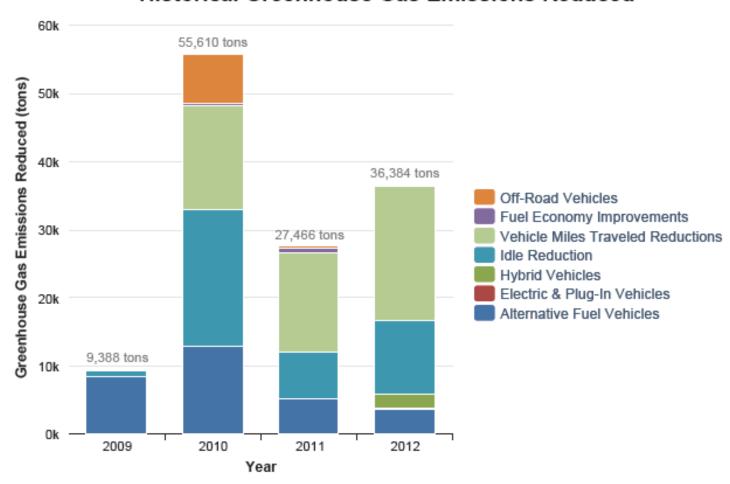
2012 Greenhouse Gas Emissions Reduced



Triangle Clean Cities Coalition Emissions Reduced



Historical Greenhouse Gas Emissions Reduced



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