



## Clean Cities and the Centralina Clean Fuels Coalition

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- Established by the US Department of Energy in **1993**
- Clean Cities Goals:
  - To decrease dependence on imported oil
  - To advance the energy, economic, and environmental security of the US
  - To expand markets for AFVs and AFV refueling infrastructure
  - To improve local/regional air quality
  - To strengthen local and regional economies
  - Since 1993: Over 3 billion gallons of petroleum have been displaced

***The goal of Clean Cities is to reduce petroleum consumption by 2.5 billion gallons per year by 2020***

## *Clean Cities Coalitions are fuel and technology neutral...*

### **Alternative Fuels & Vehicles**

Biodiesel (B100)

Electricity

Ethanol (E85 – 85% ethanol and 15% gas)

Hydrogen

Natural Gas (CNG)

Propane

### **Fuel Blends**

Biodiesel/diesel blends (B2/B5,  
B20)

Ethanol/gasoline blends (E10)

Hydrogen/natural gas blends  
(HCNG)

### **Fuel Economy**

Fuel efficiency

Behavioral changes

Vehicle maintenance initiatives

Vehicle miles traveled (VMT)

### **Hybrids**

Light- and Heavy-duty HEVs

PHEVs (Plug- ins)

### **Idle Reduction**

Heavy-duty trucks

School buses

Truck stop electrification

# Clean Cities Today



## Clean Cities Coalitions

- Nearly 100 active coalitions in 45 states
- Over 775,000 AFVs using alt fuels
- Over 6,600 AFV stations
- 2 coalitions in North Carolina:
  - ✓ Centralina
  - ✓ Triangle
- And 1 more on the way:
  - ✓ Land-of-Sky



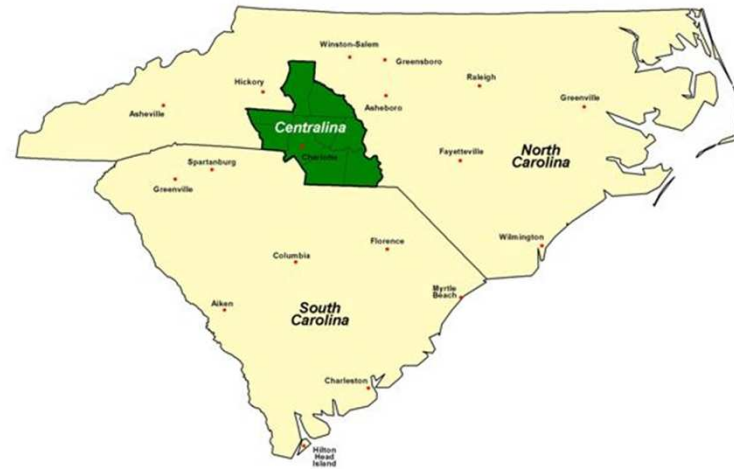
Map Date - 01/27/10

# Centralina Clean Fuels Coalition

## *Designated in 2004*



**Coalition Location:** The CCFC is a not-for-profit coalition housed at the Centralina COG in uptown Charlotte



## **Coalition Coverage:**

- 9-county Centralina region (Anson, Cabarrus, Gaston, Iredell, Lincoln, Mecklenburg, Rowan, Stanly, Union) = ~20% of NC's population
- The CCFC is governed by an advisory board – Core Stakeholder Group – comprised of 21 public and private sector stakeholder representatives

*Based on the CCFC's 2010 Annual Clean Cities Survey Results:*

- **Number of Alternative Fuel Vehicles in the region =**  
Approximately 2,500 (includes hybrid electric vehicles and off-road vehicles)
- **Total GGEs displaced = **Over 4.5 million gallons** in 2010 alone!**
- **Number of Stakeholders = ~100 and growing**
  - Including:
    - Public sector (counties, cities, and towns in the region)
    - Private sector (small and large businesses, including utilities)
    - Educational institutions (community colleges and 4 year universities)
    - Other regional organizations

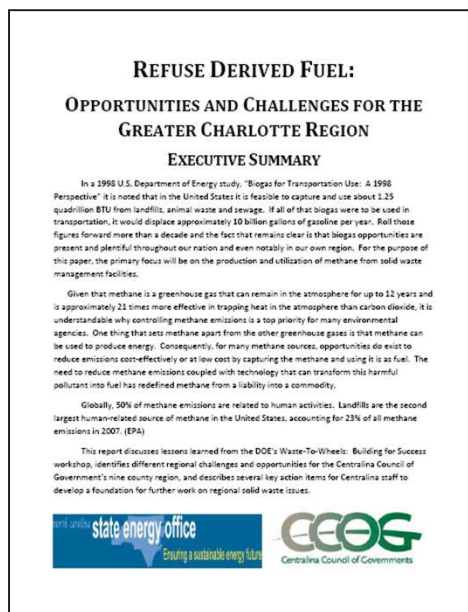
## Greater Charlotte Region Plug-in Electric Vehicle Readiness Planning



- NOW: Coordinating with adjacent NC and SC regions and regional project partners to execute a proposal for the ***Clean Cities Community Readiness and Planning for Plug-in Electric Vehicles and Charging Infrastructure*** funding opportunity (\$5 million available), due June 13
- ONGOING: Convening a regional PEV advisory committee comprised of key community stakeholders interested in being ready for

## CCFC Demonstration Projects

- Gaston County Solid Waste And Recycling – Marcie Smith to present *Refuse Derived Fuel: Opportunities and Challenges for the Greater Charlotte Region* at the May Core Stakeholder meeting
- City of Gastonia – Funded 5 GE Charging Stations. One at the Schiele Museum was the focus of the 3/17/11 press event
- Gaston County Sheriff's Office – Received funding for two HEVs for their K9 Unit



## Carolina Blue Skies and Green Jobs Initiative

- Carolina Blue Skies received over **\$12 million**
- Designed to provide support for AFVs and infrastructure projects
- 5 partners in North and South Carolina
- CCFC has 5 project partners including: City of Charlotte, Duke Energy, Time Warner Cable, Monroe Oil, and GBUSA
- Over \$2 million in funding coming to the Centralina region
- Project Timeframe: **May 2010 – April 2014**



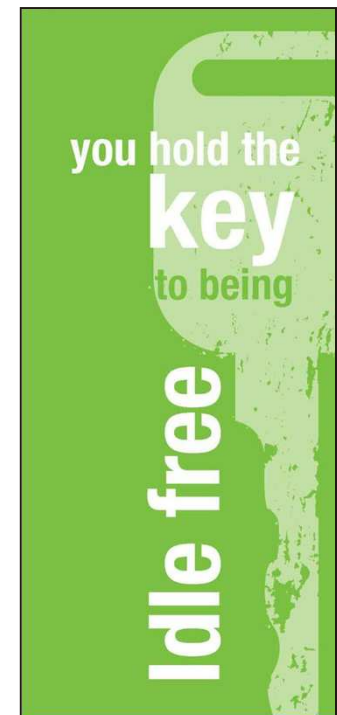
## Idle Reduction Initiatives

- Partnering with regional air quality groups to develop the **2011 ozone season no idle campaign** targeted at heavy duty idling and weekday schools in the region



- **Champions for Clean Air Award**

Centralina COG will be awarded this honor for work done on the Derrick Travel Center Truck Stop Electrification Project in Rowan County – only the second TSE installation in North Carolina.



- Provide technical assistance
  - Grant selection, writing, application editing
  - Provide educational/training opportunities
- Access and disseminate relevant info from resources nationwide
  - Enable projects through funding opportunities
  - Access to national, regional, local networks

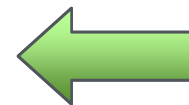
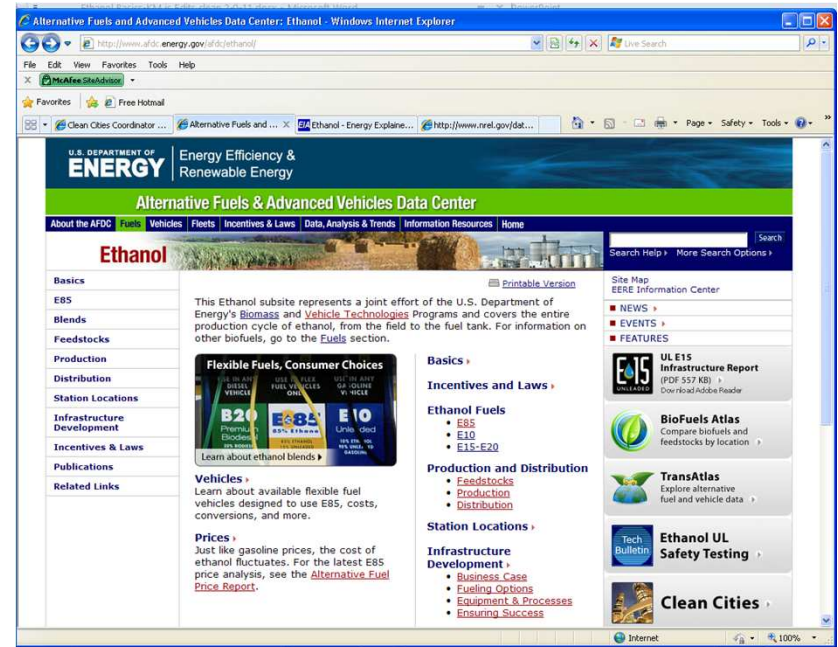
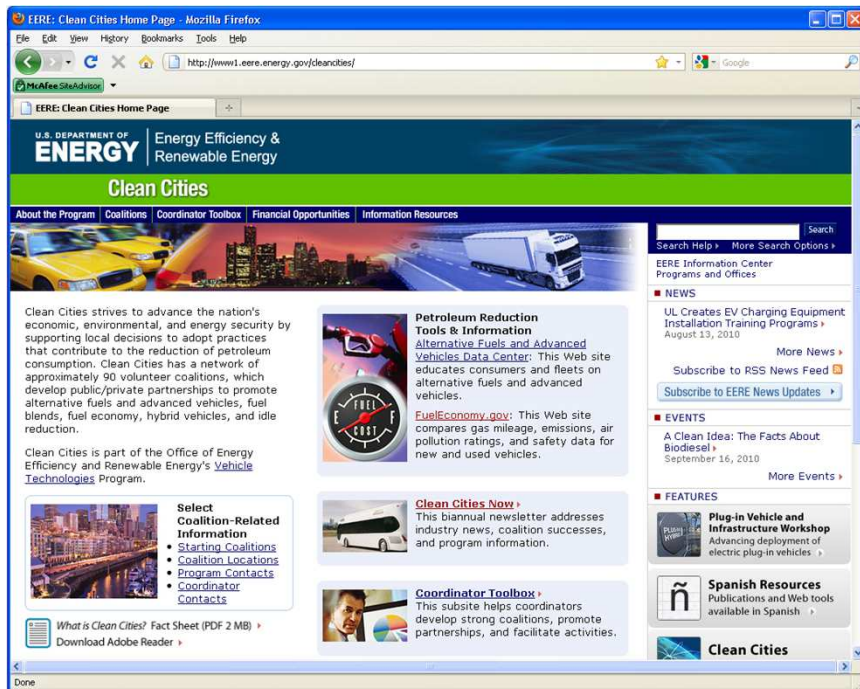


# Available Resources



## Alternative Fuels and Advanced Vehicles Data Center (AFDC)

[www.afdc.energy.gov](http://www.afdc.energy.gov)



## National Clean Cities website

[www.cleancities.energy.gov](http://www.cleancities.energy.gov)

For more information and to join as a stakeholder visit:

[www.4cleanfuels.com](http://www.4cleanfuels.com)

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**Thank you!**