

# Clean Fuel Advanced Technology Success Story: Edgecombe County

NC STATE UNIVERSITY



## Project

A total of \$2M in funding was provided to the NC Solar Center at NC State University by the NC Department of Transportation, State Energy Office and Division of Air Quality. Funds were used for the Clean Fuel Advanced Technology Project (CFAT) to reduce transportation-related emissions in NC counties that do not meet national air quality standards. Edgecombe County received \$126,400 to purchase natural gas vehicles and refueling infrastructure.

## On the Road to Success:

- After being designated a non-attainment area, Edgecombe County immediately began seeking methods of reducing emissions.
- Edgecombe purchased 5 Honda Civic GX's, (dedicated natural gas vehicles) and 6 refueling panels for use by social Service employees, the Sheriff's Department, and the Health Department.
- Widely used in industry and in our homes, natural gas is compressed for use as a transportation fuel (CNG) that generally tracks at half the cost of gasoline or diesel.
- The 5 vehicles represent 13% of the county's fleet, and replaced older, high polluting, low-fuel economy vehicles.
- The Honda Civic GX is recognized by the U.S. EPA as the cleanest commercially-available internal combustion vehicle in the world, reducing VOCs and NOx by 87% (primary components of ground level ozone problem), carbon monoxide by 70%, and carbon dioxide (primary greenhouse gas) by 20%.



## CFAT Impact by the numbers

Yearly Emissions Reductions:

88,335 kg/yr CO<sub>2</sub>  
207 kg/yr NO<sub>x</sub>  
271 kg/yr VOC  
4,778 kg/yr CO

## Additional Accomplishments

- In 2007, Edgecombe County's efforts paid off, and they were removed from the nonattainment list.
- The County has been working with Appalachian State University to find uses for landfill gas through the Community T.I.E.S program. They are currently in talks with a private company to sell their carbon credits as well as to find innovative ways to use the gas produced at the landfill.

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For more information about Clean Transportation projects at the North Carolina Solar Center visit  
[www.cleantransportation.org](http://www.cleantransportation.org)

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