



# NC CLEAN ENERGY TECHNOLOGY CENTER

## Clean Transportation Success Story

### WASTE INDUSTRIES

A North Carolina Success Story

#### Company Spotlight

Waste Industries is leading the way regionally on alternative fuel adoption through transitioning a portion of their fleet over to compressed natural gas (CNG) fueling technology. The decision is based on long term benefits that include lower operating costs, environmental benefits, and reducing foreign energy dependence.

In tandem with funding available through the Clean Fuel and Advanced Technology (CFAT)

#### Project Details

Fleet:	Waste Industries
Location:	Raleigh NC
Annual Fuel Use	422,876 GGE
Annual Emission Reductions	5 metric tons CO <sub>2</sub>
Type of Technology	CNG Vehicles



Waste Industries' CNG Refuse Fleet at their Southeast Raleigh Operation in Garner NC

grant, Waste Industries is working to transition an additional (4) fleet vehicles to use CNG exclusively. Once the grant is fully implemented, Waste Industries will have (50) CNG powered heavy duty vehicles operating out of their Southeast Raleigh facility in Garner NC. Additionally, Waste Industries has invested over \$1.39 million in a fast fill CNG refueling station, along with \$300,000 in maintenance shop upgrades. In full, the fleet is investing \$15 million in advancing clean fuel technologies within the state. This project is a continuation of Waste Industries' long term commitment to environmental responsibility and to reduce their carbon footprint.

## Outlook

In partnership with the North Carolina Clean Energy Technology Center's Clean Fuel and Advanced Technology Project (CFAT), Waste Industries has successfully converted an additional (4) vehicles within their fleet to use compressed natural gas exclusively. The fleet had a phased implementation of these vehicles, and as of August 2015, all vehicles are being utilized for daily applications. Overall, this project has helped to reduce the fleet's carbon emissions by 5 metric tons of CO<sub>2</sub> annually which is the equivalent of planting 27 trees each year, enabling Waste Industries to continue on a trajectory of creating a cleaner and greener community.

The fleet is now able to off-set carbon emissions through the utilization of 422,876 GGE of compressed natural gas to fuel their vehicles. In total, the fleet has experienced a reduction of 4% in total CO<sub>2</sub> emitted annually through this project. Based on these fleet investments, it's anticipated that Waste Industries will see a complete payback of their investment with 5 years. To date, 43% of the fleet's vehicles are compressed natural gas.



A Waste Industries CNG Refuse Hauler on a Route



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*“And we came to the conclusion, after a lot of research and talking to a lot of people, that CNG was domestic, it was less expensive, it burned cleaner, and most importantly the truck manufacturers and engine manufacturers have taken the steps that need to be made in order to make this a viable engine.”*

*-Ven Poole, Chairman, Chief Executive Officer*

## Clean Fuels Advanced Technology Project 2013-2015

The third phase of the Clean Fuel Advanced Technology (CFAT) project is supported by the N.C. Department of Transportation with \$6.2 million in federal Congestion Mitigation Air Quality (CMAQ) funding.

CFAT is focused on reducing transportation related emissions in the 24 North Carolina counties that have air quality concerns and are listed as non-attainment or maintenance status for national air quality standards. The 2013 to 2015 project covers three broad areas: education and outreach, emission reduction technology grants, and recognition of exemplary activities.

The N.C. Clean Energy Technology Center has teamed up with the Centralina Clean Fuels Coalition, the Triangle Clean Cities Coalition, Piedmont Triad Regional Council, Upper Coastal Plain Council of Governments and Kerr-Tar Council of Governments on education and outreach activities throughout the state. These partners are available to speak about clean transportation technologies and practices at local events.

## Contact

For more information about this project, please contact Triangle Clean Cities, [tjcoq@tjcoq.org](mailto:tjcoq@tjcoq.org), 919-549-0551

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