



NC CLEAN ENERGY TECHNOLOGY CENTER

Clean Transportation Success Story

CITY OF CONCORD

A North Carolina Success Story

Fleet Spotlight

The City of Concord, with 38% of its fleet operating on alternative fuels, is continuing to make great strides in the clean transportation space. With about 291 vehicles on biodiesel, 22 hybrid vehicles and 4 electric vehicles (EVs), Concord is a clean transportation leader. Since 2003, the City of Concord's administration has placed a lot of emphasis on providing for both the citizens and environment. The alternative fuel vehicle technologies have proven to be effective for the city by creating a positive change for both the residents as well as the environment.

Organization Details

Fleet Name	City of Concord
Number of Vehicles	Over 1000
% of Fleet Alt Fuel Vehicles	38%
Emissions Reductions	11.7 Tons CO ₂ /year
CFAT Supported Infrastructure	2 Electric Vehicles 6 Charging Stations



EV Parking Only Signage at one of the 6 Electric Vehicle Charging Stations in City of Concord.

The City of Concord, with support from the NC Clean Energy Technology Center, is furthering its environmental goals by replacing 2 gasoline vehicles with EVs and installing 6 level 2 EV charging stations across the city.

Project Spotlight

The two new Ford Focus electric vehicles replace an older Dodge Intrepid and Ford Crown Victoria, and will reduce gasoline consumption by 1,111 gallons/year when driven an average of 10,000 miles a year. The investment in the charging stations addresses a growing interest from consumers in electric vehicles. Five of the six charging stations will be accessible to the public and initially free of charge.

The City of Concord's administration views the installation of the charging stations as serving city resident's needs, encouraging the shift to cleaner vehicles and reducing emissions. The two Ford Focus electric vehicles purchased with the help of the grant from the NC Clean Tech Energy Center will serve as a crew courtesy vehicle and a pool vehicle for city employees. Progressing towards its goal of clean environment for its residents, the City of Concord's administration has also invested in an all-electric low speed Firefly vehicle used by the parking enforcement officer. Aside from the reduced expenditures on fuel, the City of Concord has also seen an increased life of the vehicles using alternative fuels, therefore reducing vehicle replacement costs.



A newly installed Level 2 Electric Vehicle Charger in the City of Concord.



"The NC and Charlotte Region's Plug in Electric Vehicle Readiness Plans were very useful in completing our charger installation project successfully. The direction on siting and other considerations saved significant time and money."

Daniel Nuckolls, Director of Fleet Services

Clean Fuels Advanced Technology Project 2013-2015

This project was one of over 50 supported by the 2013-2015 phase of the Clean Fuel Advanced Technology (CFAT) project funded 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 sub awards, and recognition of exemplary activities.

The N.C. Clean Energy Technology Center 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 Centralina Clean Fuels Coalition, 704-372-2416

NC Clean Energy Technology Center
Transportation Program
cleantransportation@ncsu.edu

This document is supported through the Clean Fuel Advanced Technology project sponsored by the N.C. Dept of Transportation.