Clean Fuel Advanced Technology Success Story: City of Hickory

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 for the Clean Fuel Advanced Technology Project to reduce transportation-related emission in NC counties that do not meet national air quality standards. The City of Hickory was awarded $20,082 to purchase a Honda Civic GX, which runs on natural gas. Natural gas is a clean-burning domestic fuel that is compressed (CNG) to be used in light-duty and heavy-duty vehicle applications.

CFAT Impact by the numbers

Emissions Reductions per Year:

8 kg NOx
14 kg VOC
241 kg CO
4,868 kg CO2

On the Road to Success:

- The dedicated natural gas vehicle is used by the Public Utilities (Water and Wastewater) Department as a meter reader vehicle, averaging 12,000 miles per year.
- The vehicle is refueled at the CNG refueling station owned and operated by the City of Hickory. The station was developed by the City with grant funds provided by the NC Division of Air Quality and has a credit card system enabling more widespread CNG fueling access.
- The EPA rates the Honda Civic GX engine as the world's cleanest internal combustion engine. It releases 98.6% less NOx, 99.9% of VOC emissions, 97.7% of CO emissions, and 65.7% of CO2 emissions per mile, as compared to the light duty Tier 1 vehicle it replaced.

Additional Accomplishments

- The city owns 8 CNG vehicles and was recently Awarded funding to purchase a CNG road sweeper.
- The City of Hickory also provides B20 biodiesel for approximately 103 off-road pieces of equipment and 90 on-road vehicles.

Contact

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For more information about Clean Transportation projects at the North Carolina Solar Center visit

www.cleantransportation.org