

Clean Fuel Advanced Technology Success Story: City of Winston-Salem

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 to reduce transportation-related emission in NC counties that do not meet national air quality standards. The City of Winston-Salem received \$12,000 to purchase 4 neighborhood electric vehicles (NEVs). NEVs can be recharged using 110-volt outlets and are legal on roads up to 35 mph.

On the Road to Success:

- In April 2006, the City of Winston-Salem began a Vehicle Fuel Management and Vehicle Acquisition Program which was created in order to reduce fuel consumption, improve fuel efficiency, lower emissions, and control costs.
- The city purchased 4 GEMeS NEVs to replace older gas-powered parking enforcement vehicles. These vehicles spend a significant amount of time idling, which produce emissions that are avoided with electric vehicles.
- The city began using the electric vehicles in November 2007.
- The GEM cars operate on six 12-volt batteries that are recharged with a standard outlet. They have a top speed of 25 mph, can travel 30-40 miles on a single charge.

Additional Accomplishments

- The city first began using alternative fuel vehicles in 1999 when it purchased natural gas vehicles and a CNG fueling station.

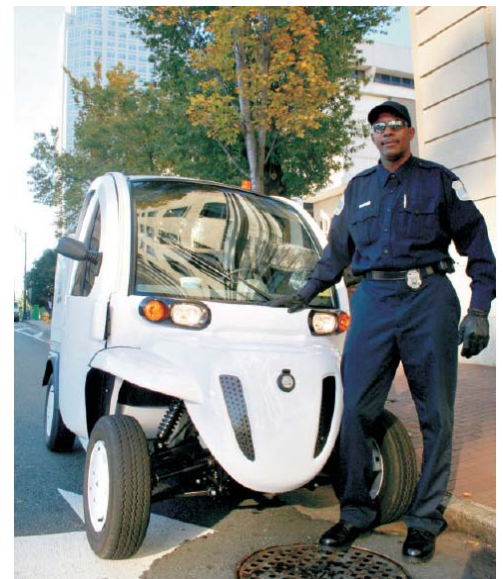
Contact

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CFAT Impact by the numbers

4 NEVs
Emissions Reductions:

9 kg/year NO_x
12 kg/year VOCs
219 kg/year CO
5204 kg/year CO₂



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

www.cleantransportation.org

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