

Compressed Natural Gas-Fueled Refuse Haulers

Dane and Racine Counties, Wisconsin

Key Project Information:

Equipment: Class 8 Refuse Haulers

Project: Replace with CNG-Fueled Refuse Haulers

Location: Wisconsin

Number of Vehicles: 4

Project Year: 2013

Funding Agency: US EPA — National Clean Diesel Funding Assistance Program



The inhalation of diesel emissions can trigger adverse health problems, including chest pain, coughing, throat irritation and congestion and can worsen bronchitis, emphysema and asthma. Emissions from older diesel trucks can contribute to air pollution by producing particulate matter (PM) and nitrogen oxides (NOx) that can be harmful to not only the driver, but also to the surrounding communities and environment.

In 2012, Leonardo Academy was awarded a grant from the Environmental Protection Agency's (EPA) National Clean Diesel Funding Assistance Program to assist two Midwest refuse haulers in replacing older diesel vehicles with new compressed natural gas (CNG) vehicles.

Lifetime Emissions Reductions:

Nitrous Oxides = 26 Short Tons

Particulate Matter = 2 Short Tons

Carbon Monoxide = 12 Short Tons

Carbon Dioxide = 336 Short Tons

- ❖ Waste Management is the leading provider of waste management services in North America. With 21,000 collection and transfer vehicles, the company has the largest trucking fleet in the waste industry. For this project, Waste Management replaced two diesel refuse haulers providing residential service throughout Racine County, Wisconsin with CNG alternatives.
- ❖ Advanced Disposal conducts waste hauling services throughout the eastern United States and the Bahamas. Providing services to over 250,000 commercial customers and 2.4 million residential customers, Advanced Disposal has over 2,900 trucks operating daily. For this project, Advanced Disposal replaced two diesel refuse haulers operating in Dane County, Wisconsin, with CNG vehicles.