

Ohio Diesel Emission Reduction Program

United Postal Service

Key Project Information

Equipment: Delivery Trucks
Project: New trucks equipped with Selective Catalytic Reduction (SCR) systems
Number of Trucks: 20
Project Year: 2013
Funding Agency: Ohio EPA- Diesel Emission Reduction Grant Program



Ohio EPA Diesel Emission Reduction Grant (DERG) program is intended to reduce Ohioans' exposure to diesel exhaust emissions and to help improve air quality in counties and areas of the state that do not meet national standards. In 2012, the Agency awarded approximately \$10 million for clean diesel projects to both public sector and private sector fleets. Eligible projects included: Replacement of diesel vehicles or equipment with new vehicles or equipment that meet higher emission standards; Removing the diesel engine from a piece of equipment and replacing it with a new, rebuilt or remanufactured engine that meets higher emission standards; Adding verified emission reduction technologies such as diesel oxidation catalysts and diesel particulate filters to existing vehicles and equipment; and Adding verified anti-idle technologies such as auxiliary power units and direct-fired heaters to existing diesel vehicles and equipment.

Estimate Project Benefits:

- **CO₂ Reduced-** 6340 tons
- **NO_x Reduced-** 806 tons
- **PM Reduced-** 35 tons
- **Diesel Savings-** 7,500,000 gal
- **Fuel Cost Savings-** \$33,750,000

Ohio EPA awarded United Parcel Service (UPS) funds for the early retirement and replacement of twenty 1997-1998 Class 8 short haul delivery trucks. These delivery trucks operate along Interstate 71 highway, from Cleveland to Columbus to Cincinnati, traveling over 100,000 miles a year. The new delivery trucks are equipped with Selective Catalytic Reduction (SCR) systems. SCR technology is one of the most cost-effective and fuel-efficient technologies available to help reduce emissions. SCR can reduce NOx emissions up to 90 percent while simultaneously reducing HC and CO emissions by 50-90 percent, and PM emissions by 30-50 percent.

UPS operates a US ground fleet of over 60,000 vehicles and has set a new automotive goal to improve the miles per gallon (MPG) performance of its entire U.S. package delivery fleet by 20 percent by 2020. Fuel efficiency levels will be improved through improved alternative fuel and vehicle technology,

effective vehicle maintenance procedures, fuel conservation efforts, sophisticated routing technology and operational initiatives such as minimizing engine idling.



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