

Status Report

National Clean Diesel Funding Assistance Program
Grant Project submitted EPA Region III on April 28, 2009
Metropolitan Washington Region
June 2009

“Reducing Emissions from Heavy Duty Diesel Equipment in the Metropolitan Washington Region”

Funding Requested: \$3,774,636
Total Project Cost: \$5,001,621
Project Period: 6/1/09 – 9/30/10

The Metropolitan Washington Council of Governments (MWCOG) is partnering with 12 equipment owner operators to reduce emissions from heavy duty diesel fleets in the Washington metropolitan region. The owner/operators that have agreed to participate in this project include: Washington Metropolitan Area Transit Authority (WMATA); Washington Area Sewer and Water Authority (DCWASA); Montgomery County, Maryland; Fairfax County, Virginia; Prince William County, Virginia; and private fleet owner/operators Pleasants Construction, CJ Miller, LaFarge, Beuchert, GDS Rentals, Chaney Construction, and Facchina Construction.

Emission reductions will be achieved through the application of one of following solutions: Diesel Particulate Filters, Emissions Repowers, Vehicle Replacement, and Vehicle Idling Reduction. The project will involve the following categories of diesel emission controls: Diesel Retrofits for Transit Buses (total of 130 transit buses); Nonroad Engine Particulate Filters and Retrofits (50 nonroad diesel construction equipment); Nonroad Engine Repowers (14 nonroad diesel construction equipment); On-Road Engine Repower (3 heavy duty dump trucks); Vehicle Replacements (one plug-in electric hybrid school bus, two diesel powered ambulances, and one launch assist hybrid refuse hauler). For the Idle Reduction category, 87 heavy duty on-road trucks (class 8) will be equipped with battery heater air conditioning units. A total of 443 nonroad construction vehicles will be equipped with automatic shutdown units.

The result will significantly reduce annual NOx and fine particle emissions in the region, improving the health of residents and providing needed reductions for the region to meet the ozone and fine particle standard. A total of 789 pieces of heavy duty diesel on-road and off-road equipment will be retrofitted to reduce diesel emissions. The emissions reduction is estimated at 572 tons per year of NOx and 40 tons per year of fine particles.

The company owners of the equipment will be sharing in the costs of the project by contributing the cost of transporting the equipment and provide a cost share for engine repowers. MWCOG will administer the project and, with the help of the Maryland Department of the Environment, Virginia Dept. of Environmental Quality and Virginia Dept. of Transportation, will monitor and verify the project's progress. Grant awards will be made in June. The retrofit technologies must be installed by Sept. 30, 2010.

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