



New Mexico Clean Diesel Program

Funded Through the American
Recovery and Reinvestment Act

\$1,655,262 in Grant Funds Awarded

The New Mexico Environment Department, through a competitive bid process, awarded a total of \$1,655,262 to replace and retrofit heavy-duty on- and off- road diesel-fueled vehicles in New Mexico.

The projects helped to create or preserve jobs, boost local economies, reduce diesel emissions and protect human health and the environment.



Recipients of ARRA/DERA funding and projects:

Capone Enterprises/All American Waste Removal - \$200,000

All American Waste Removal was able to partially fund the replacement of one refuse hauler with one that meets the 2010 emissions standards for on-road heavy-duty diesel-fueled trucks

City of Albuquerque - \$642,699

The City of Albuquerque used funds to retrofit city-owned vehicles with 33 diesel particulate filters, 20 closed crank case ventilation systems, 53 fuel operated heaters, and 7 auxiliary power units.

East/West Transport - \$10,153

East/West Transport installed one auxiliary power unit.

New Mexico Department of Transportation - \$70,698

The NMDOT replaced one existing state- owned truck with a 2012 model that meets the most current emission standards for on-road heavy-duty diesel-fueled trucks.

San Miguel County - \$499,712

San Miguel County replaced four county-owned vehicles with 4 2011 models that meet the most current emissions standards for on-road heavy-duty diesel-fueled trucks and retrofitted 10 vehicles with fuel operated heaters.

Taos County - \$232,000

Taos County replaced two existing county owned trucks with one 2011 and one 2012 models that meet the most current emissions standards for on-road heavy-duty diesel-fueled trucks and retrofitted 12 vehicles with fuel operated heaters.



Capone Enterprises/All American Waste Removal



City of Albuquerque



Press Event September 14, 2011 At
New Mexico State Fair



City of Albuquerque

Poster Presentation at New Mexico State Fair

City of Albuquerque Diesel Emissions Reduction Project

Emissions from diesel engines found in trucks — especially the microscopic particulate matter known as “soot” — cause serious health problems for adults and have extremely harmful effects on children and the elderly.

The American Reinvestment and Recovery Act (ARRA) provided \$642,699 in grant funds via the U.S. Environmental Protection Agency’s (EPA) Diesel Emission Reduction Act (DERA) that allowed the City of Albuquerque to reduce diesel air emissions. With these funds the City installed and retrofitted clean diesel technologies on City garbage and boom trucks.

Idle Reduction Strategies



Pony Pack



An Auxiliary Power Unit system called Pony Pack was installed on six City boom trucks and one fire engine. The Pony Packs eliminate the need for engine idling while workers are using the booms which reduces engine emissions and fuel consumption. Since installation, fuel consumption by the more heavily used trucks has improved 17.8% compared to the same time period last year from 7.2 M.P.G. to 8.5 M.P.G.

Espar Fuel and Engine Block Heaters



Long-duration truck idling is costly to the City, and to the environment. Solid Waste garbage truck engine idling consumes thousands of gallons of diesel fuel and emits tons of carbon dioxide, oxides of nitrogen, and particulate matter. Unnecessary idling increases engine maintenance costs, shortens engine life, and elevates noise levels.

The City installed Espar Sure Start Systems on 53 Solid Waste trucks. The Espar heaters preheat the engine and vehicle fuel tanks to eliminate the need for long idle times upon startup to warm an engine start over in the coldest and harshest environments.

These things are cool and really saved me during the cold days. These were the only units that started and left the yard in zero degree temps, I'm so glad you turned us on to them - Thanks...
Martin Vargas, Solid Waste Management Vehicle Maintenance Supervisor

Retrofit Technologies

Closed Crankcase Ventilation System

In many older diesel engines, crankcase emissions, also known as “blow-by” are released directly from the engine into the atmosphere through a vent or the “road draft tube.” Closed Crankcase Ventilation (CCV) systems capture the oil in blow-by gas, return it to the crankcase, then redirect these gaseous emissions back to the intake system for combustion instead of emitting them into the air. The City installed CCV systems on 53 2001 and 2004 model year Solid Waste garbage trucks.



Low NO₂ Filter System

NO₂ is emitted from cars, trucks, buses, power plants, and off-road equipment. In addition to contributing to the formation of ground level ozone, acid rain, and fine particle pollution, NO₂ is linked with a number of adverse effects on the human respiratory system.

To help reduce NO₂ emissions the City installed 33 Low NO₂ Filter (LNF) systems on older Solid Waste garbage trucks. The LNF system consists of a catalyzed flow-through filter, a catalyzed wall-flow diesel particulate filter, and a backpressure monitor.



Project Funded by the
American Reinvestment
and Recovery Act



East/West Transport



East/West Transport Climacab system with Espar Fuel Operated Cab Heater



New Mexico Department of Transportation



San Miguel County



San Miguel County Press Event May 5, 2011



San Miguel County Press Event Handout

San Miguel County Clean Diesel Project



New Vehicles



2011 6X4 International Dump Truck



2011 4X2 Peterbilt Dump Truck



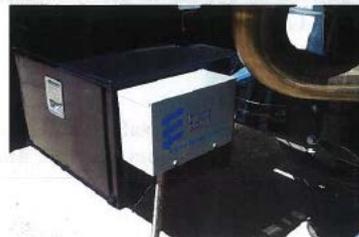
2011 Peterbilt Transport



2011 6X4 Peterbilt Dump Truck

10 diesel-fueled fired engine heaters were installed on Public Works diesel vehicles.

Total Cost for Vehicles, Heaters and Administration \$503,363.24



Taos County



09.30.2011



Taos County Press Event September 30, 2011



Taos County Heater Project

