

# New Mexico Clean Diesel Program

Diesel Emissions Reduction Projects  
2008 Through 2012



# New Mexico Association of Food Banks

## Tractor/Trailer Aerodynamic Fairing Technology

- Aerodynamic technologies minimize drag and improve air flow over the entire tractor-trailer vehicle.

## Low Rolling Resistance Tires

- Certain tire models can reduce NOx emissions and fuel use by 3 percent or more.

## Idling Reduction Technologies

- Reduces unnecessary main engine idling of the vehicle or equipment.
- Trailer refrigeration unit (TRU) dock outlets, used to plug in TRUs overnight in place of running diesel engine for refrigeration of goods in trailer.

# Aerodynamic Fairings and Low Rolling Resistance Tires



**176 Low Rolling  
Resistance Tires**  
All Axles - Entire  
Fleet Statewide

**3 Cab Fairings**  
Statewide

**Aerodynamic Fairings**  
6 Trailer & 2 Box  
Trucks Statewide

# Trailer Refrigeration Unit Docks Outlets



5—City of Albuquerque  
1—Gallup

# School Bus Projects

**Diesel oxidation catalysts (DOCs)** - exhaust after-treatment devices that reduce emission from diesel engines. Typically packaged with the engine muffler, DOCs are widely used as a retrofit technology because they require little or no maintenance. Engine manufacturers have used DOCs in a variety of applications for many years.

**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.

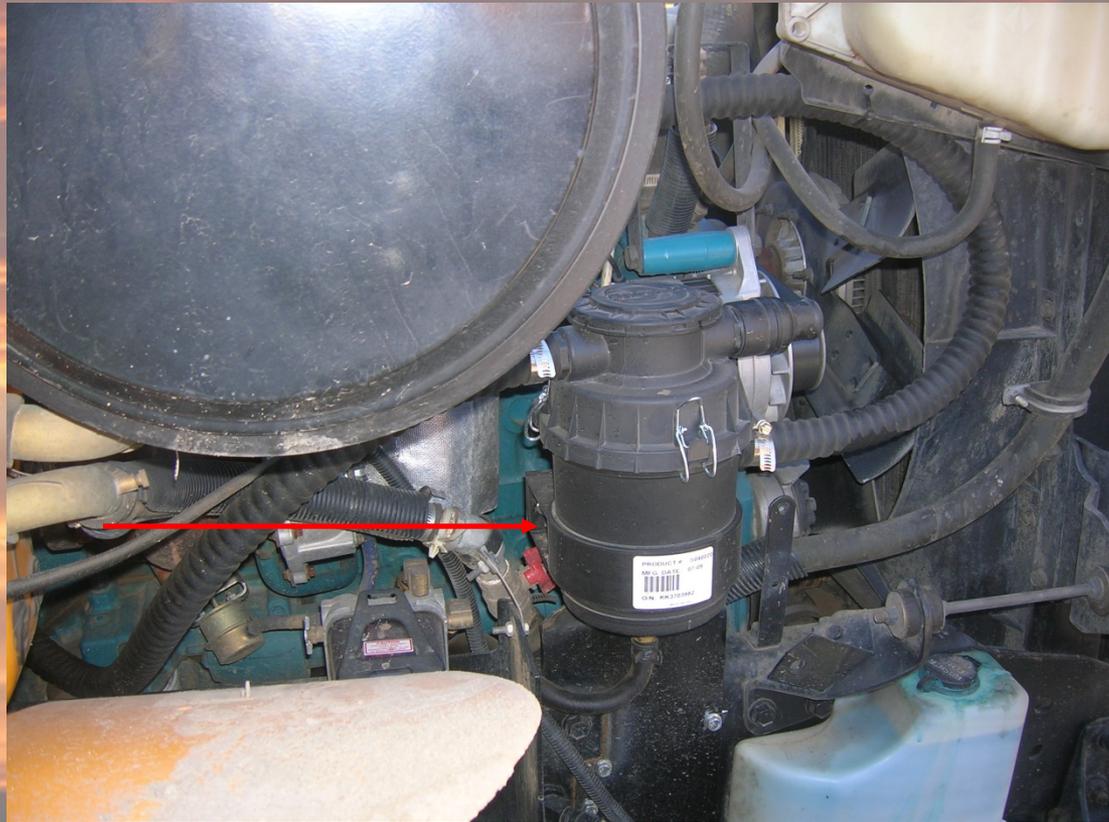
**Fuel Operated Heaters (FOH)** - allows school bus operators to refrain from extended idling of the main propulsion engine in the morning .

# School Bus Fuel Operated Heaters



**25—Bloomfield School District**  
**55—Central Consolidated School District**  
**95— Gallup\McKinley County School District**

# Closed Crankcase Ventilation System



55- Farmington School District

# Diesel Oxidation Catalyst



33- Farmington School District

# Early Vehicle Replacements

## Early vehicle replacement projects:

- Takes older dirtier diesel fueled vehicles out of service prior to normal replacement. \*
- Replacement vehicle is cleaner, meets the most current emissions standards.

\* Old vehicle must be disabled by inserting hole in engine block and cutting vehicle's frame.

# Taos County



2012 International 7500 6x4 Dump Truck

# 1994 Ford L8000 Disabled



# City of Deming



2011 John Deere 310SJ

# 1985 580 Super E Case Backhoe Disabled

