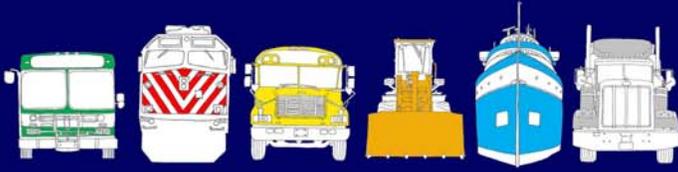


US EPA ARCHIVE DOCUMENT

# Project Report: Greater Lansing Area Clean Cities School and Transit Buses

EPA Funding Source:

American Recovery and Reinvestment Act



Funding Breakdown: **\$1,073,528** U.S. EPA  
**\$611,042** Match/Leveraged Funds

## Project Location: Mid- and Western Michigan



Funding for this project comes from the American Recovery and Reinvestment Act (**\$1,073,528**) and from cost-share and leveraged funds from affected fleets (**\$611,042**).

## Addressing School and Transit Buses

Greater Lansing Area Clean Cities, with partners Dean Transportation, its subsidiary Dean Management Services, and Grand Ledge Public Schools retrofitted public school and transit/motorcoach buses with an array of exhaust control devices and idle reduction equipment.

- 48 buses received Diesel Oxidation Catalysts (DOCs) and Closed-Crankcase Ventilation (CCV) systems
- 198 buses received DOCs
- 5 buses received DOCs and Fuel Operated Heaters (FOHs)
- 60 buses received FOHs
- 4 buses were replaced with hybrid-electric buses
- 6 buses were replaced with newer, cleaner diesel buses

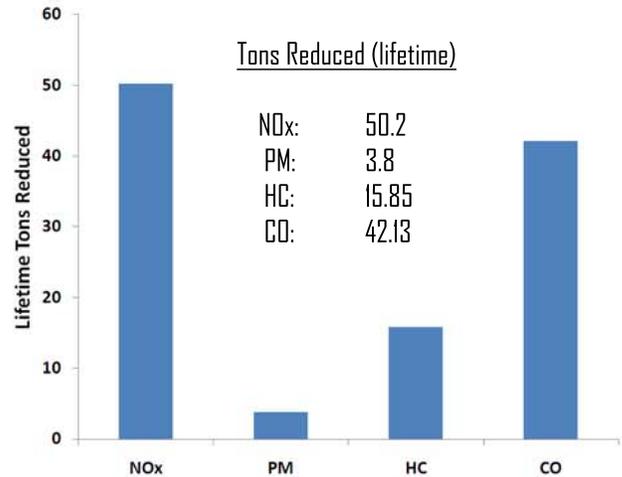
By utilizing an array of technologies on a large number of vehicles, Greater Lansing Area Clean Cities was able to generate significant emissions reductions while reducing unnecessary idling.

These actions will help reduce school children's exposure to diesel particulate matter, which can exacerbate asthma and other cardiopulmonary conditions.



Reducing emissions and unnecessary idling from school buses helps protect children's health

## Emissions Reductions



## Health Benefits

Emissions from diesel engines contain pollutants that affect respiratory health. These pollutants can increase incidents of asthma, and can exacerbate existing cardiopulmonary conditions.

This project will **save \$950,000 in health costs** as a result of reduction of PM. This represents monetary savings from: lost work days, hospital and health care bills, and other costs that will not be spent as a result of the pollution reduced from the installation of Diesel Oxidation Catalysts, Fuel Operated Heaters, and/or Closed Crankcase Ventilation systems on school and transit buses plus the replacement of 10 school buses with newer, cleaner vehicles.

You can visit EPA's Diesel Emissions Quantifier at: <http://www.epa.gov/cleandiesel/quantifier>

*The Midwest Clean Diesel Initiative is a public-private partnership to reduce diesel emissions in the Midwest. Find out more at [www.epa.gov/midwestcleandiesel](http://www.epa.gov/midwestcleandiesel)*

