



Massachusetts
Department
of
ENVIRONMENTAL
PROTECTION

f a c t s h e e t

MassDEP Waste Collection Vehicle Retrofit Program

The Massachusetts Department of Environmental Protection (MassDEP) is offering grants to municipalities and private waste haulers to equip selected diesel waste collection vehicles (WCVs) with pollution control devices that will reduce the vehicles' tailpipe pollutants - bringing cleaner air to the state's waste workers and communities. Funding is available to retrofit both waste and recycling trucks. Applications must be submitted to MassDEP by 5:00 p.m. on Friday, July 31, 2009. Pollution control devices must be installed in trucks by September 30, 2010.

Funds for these grants are being provided by the American Recovery and Reinvestment Act (ARRA) of 2009, through the U.S. Diesel Emissions Reduction Act (DERA). These funds have allowed MassDEP to expand its Diesel WCV Retrofit Program, which started in 2008. The 2008 WCV retrofit grants, which were supported by DERA funding from other sources, were available only to municipalities. In 2008, nine Massachusetts municipalities were awarded funds to retrofit 41 waste collection vehicles.

Why should I retrofit my WCVs?

Diesel WCVs are among the most heavily polluting vehicles on Massachusetts roads. Some of the pollutants these vehicles emit include:

- Diesel fine particulate matter (PM), which the U.S. Environmental Protection Agency has identified as likely to cause cancer
- Hydrocarbons (HC), which help form ground level smog, and which are associated with increased hospital admissions for respiratory distress, including bronchitis
- Carbon monoxide (CO), which can cause headaches and nausea

The effects of these pollutants are compounded because WCVs spend almost 70 percent of their time idling or moving slowly through urban and suburban neighborhoods - exposing residents and workers to toxic pollutants.

What is a diesel retrofit and what will it do?

A diesel retrofit is an enhanced exhaust filtering system that reduces diesel vehicle pollutants and is installed in place of or along side a vehicle's muffler. Retrofit devices have been installed in over 500,000 vehicles worldwide. They only take a few hours to install, but reduce pollution for the life of the vehicle.

The three retrofit devices that available for installation include diesel oxidation catalysts (DOCs), diesel flow-through filters (FTFs), and diesel particulate filters (DPFs). Depending on the device you select, your retrofit could reduce PM, HC and CO by up to 90 percent.

Which vehicles are eligible for retrofits under this program?

In order to receive a retrofit device, your WCV must:

- Be registered in Massachusetts
- Pick up residential waste and/or recycling on a regular basis
- Be powered by diesel fuel
- Operate on a 1985 or newer engine
- *Not* have original engine manufacturer (OEM) pollution control equipment (generally 2007 and newer model years)

MassDEP's retrofit device vendors can help you determine whether your engine has OEM equipment.

Who will perform the retrofits?

Shuster Corporation and Southworth Milton, Inc., the two retrofit vendors under state contract with MassDEP, are tasked with purchasing and installing the retrofit equipment.

Each vendor will meet with you to assess your engines' suitability for retrofits and bid on the parts and labor costs. MassDEP will select the vendor that will install the retrofits on your vehicles, based on the vendor's cost bid. Private haulers and municipalities will not be involved in the payment process; all transactions take place between MassDEP and the vendors.

For more information

For assistance with the retrofit program, contact MassDEP's Diesel Reduction Program Coordinator at **617-556-1101**.

For information on retrofit technologies, visit:

- Manufacturers of Emission Controls Association's website at: http://www.meca.org/cs/root/diesel_retrofit_subsite/what_is_retrofit/what_is_retrofit
- The Natural Resources Defense Council's website at: <http://www.nrdc.org/air/transportation/retrofit/retrofit.pdf>
- Fact Sheet on DOCs by the U.S. Environmental Protection Agency: <http://www.epa.gov/otaq/retrofit/documents/f03016.pdf>
- Fact Sheet on DPFs by the U.S. Environmental Protection Agency: <http://www.epa.gov/otaq/retrofit/documents/f03017.pdf>

Massachusetts Department of
Environmental Protection
One Winter Street
Boston, MA 02108-4746

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Ian A. Bowles, Secretary

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