

National Clean Diesel Campaign



Working
Together for
Cleaner Air



Through the regulatory programs and innovative partnerships of its National Clean Diesel Campaign (NCDC), the Environmental Protection Agency (EPA) sets standards for new diesel engines while curbing air pollution from the millions of diesel engines already in use.

Cleaning Up the Legacy Fleet

Because diesel engines can operate for 20 to 30 years, many older, dirtier diesel engines are still in use. EPA offers many strategies and programs to help make these engines cleaner. Through the Diesel Emissions Reduction Program authorized by the Energy Policy Act of 2005, EPA offers funding to assist its eligible partners in building diesel emission reduction programs that improve air quality and protect public health.

EPA recommends a wide range of emission reduction strategies to suit any type of diesel vehicle or equipment. These strategies include:

- Using cleaner fuels
- Reducing idling
- Retrofitting engines with verified technologies
- Repowering (replacing old engines with new, cleaner ones)
- Maintaining equipment properly
- Gaining operational efficiencies
- Replacing older equipment with certified, cleaner models

Regulating New Diesel Engines

EPA has established clean fuel and vehicle emission standards to dramatically reduce emissions from new diesel engines. EPA's *2008 Locomotive and Marine Diesel Rule*, *2007 Heavy-Duty Highway Engine Rule*, and *Clean Air Nonroad Diesel Rule* will prevent thousands of premature deaths, avoid millions of workdays lost, and generate more than \$150 billion per year in health benefits when fully implemented.

Collaboratives and Partnerships

EPA works with stakeholders in five key sectors and through Regional Clean Diesel Collaboratives. These initiatives help businesses, industry, environmental and community organizations, local governments, and many others take voluntary steps to reduce diesel emissions by providing information on funding, tools, and other resources.

Sector Partnerships	Regional Clean Diesel Collaboratives
■ Clean School Bus USA	■ Northeast Diesel Collaborative
■ SmartWay Transport	■ Mid-Atlantic Diesel Collaborative
■ Clean Ports USA	■ Southeast Diesel Initiative
■ Clean Construction USA	■ Midwest Clean Diesel Initiative
■ Clean Agriculture USA	■ Blue Skyways Collaborative
	■ Rocky Mountain Clean Diesel Collaborative
	■ West Coast Diesel Collaborative

www.epa.gov/cleandiesel

EPA's National Clean Diesel Campaign advances strategies to reduce diesel emissions and move toward cleaner air by working with fleet operators, manufacturers, air quality professionals, environmental and community organizations, and local officials.





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Impacts of Diesel Emissions

Human Health

Emissions from diesel exhaust can lead to serious health conditions, such as asthma and allergies, and can also worsen heart and lung disease, especially for vulnerable populations such as children and older individuals.

Environment

Diesel engines are a major source of pollution. They emit particulate matter, also known as soot; nitrogen oxides, which contribute to the production of ground-level ozone (smog) and acid rain; hydrocarbons; and air toxics. These emissions can damage plants, animals, crops, and water resources.

Global Climate

Climate change affects air quality, weather patterns, sea level, ecosystems, and agriculture. Reducing greenhouse gas (GHG) emissions from the transportation sector can help slow the growth of atmospheric GHGs, improve our nation's energy security, and strengthen our economy.

For more information about
EPA's National Clean Diesel Campaign,
please visit www.epa.gov/cleandiesel.



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Funding Your Clean Diesel Project

Did you know that funding is available to help finance clean diesel initiatives? For more information about funding, visit www.epa.gov/cleandiesel.

In FY 2008, EPA distributed more than \$50 million across the country to help qualifying entities reduce diesel emissions. EPA has awarded more than \$300 million through the American Recovery and Reinvestment Act of 2009 to support clean diesel projects under the following programs:

- **The National Clean Diesel Funding Assistance Program** funds efforts to deploy EPA-verified and -certified technologies. This competitive grant program is administered by EPA's regional offices.
- **The National Clean Diesel Emerging Technologies Program** fosters the deployment of innovative technologies through a national grant competition. To qualify as an emerging technology, a manufacturer must have an EPA-approved application and test plan for verification.
- **The SmartWay Clean Diesel Finance Program** issues competitive grants to establish national low-cost revolving loans or other financing programs that will provide funding to fleets to reduce diesel emissions.
- **The State Clean Diesel Grant Program** is an allocation process that makes funds directly available to states to establish programs that reduce diesel emissions from the existing fleet.

Be a Part of the Success

Since 2000, EPA has awarded more than 600 grants for diesel emission reduction projects nationwide through the National Clean Diesel Campaign. These projects have reduced harmful diesel emissions and are helping to keep our air clean.

Who Can Apply for Funding?

- U.S. regional, local, or port agencies with jurisdiction over transportation or air quality
- Nonprofit air quality organizations or institutions that promote transportation or air quality
- School districts, federally recognized Indian tribes, municipalities, metropolitan planning organizations, cities, and counties

Which Engines and Vehicles Qualify?

- Buses
- Medium- or heavy-duty trucks
- Marine engines
- Locomotives
- Nonroad engines; stationary engines; or vehicles used in construction, cargo handling (including at a port or airport), agriculture, mining, or energy production

**For more information about
EPA's National Clean Diesel Campaign,
visit www.epa.gov/cleandiesel.**





National Clean Diesel Campaign

Tools and Resources

Need help identifying strategies and technologies to reduce diesel emissions? Check out the National Clean Diesel Campaign's web site at www.epa.gov/cleandiesel for free online tools. They can help you identify fleets and verified technologies, design programs, calculate emission reductions, and more.

Clean Diesel Helpline. Answers about clean diesel funding and technologies are typically provided within one business day. Call 1-877-NCDC-FACTS (1-877-623-2322) or e-mail cleandiesel@epa.gov.

Verified Technology Lists. Technologies must be certified or verified by EPA or California Air Resources Board (CARB) to be eligible for funding under the diesel emission reduction grant programs. For the most up-to-date lists, visit these links:

- **EPA's Verified Diesel Retrofit Technology List**
www.epa.gov/cleandiesel/verification/verif-list.htm
- **CARB's Verified Diesel Retrofit Technology List**
www.arb.ca.gov/diesel/verdev/vt/cvt.htm
- **EPA's Verified Idle Reduction Technology List**
www.epa.gov/smartway
- **EPA's Emerging Technology List**
www.epa.gov/cleandiesel/verification/emerg-list.htm
- **EPA's Certified Engine List**
www.epa.gov/otaq/certdata.htm

Emission Reduction Calculators. EPA's Diesel Emissions Quantifier and SmartWay Emissions Models help fleet managers calculate emission reductions associated with different technologies and practices.

- **Diesel Emissions Quantifier**
www.epa.gov/cleandiesel/quantifier
- **SmartWay Emissions Models**
www.epa.gov/smartway

State and Local Toolkit. Discover dozens of examples and procedures to help state, regional, and local governments improve air quality and public health through diesel engine emission reduction efforts. The Toolkit includes information on building support, funding, and program design and evaluation. Register to receive e-mail updates on technologies, funding, policy, and other issues related to reducing emissions from heavy-duty diesel engines, as well as information on upcoming webinars.

- **State and Local Toolkit**

www.epa.gov/cleandiesel/slt

- **Diesel Retrofits: Quantifying and Using Their Benefits in State Implementation Plans and Conformity**

www.epa.gov/cleandiesel/documents/420b06005.pdf

- **E-mail Updates**

www.epa.gov/cleandiesel

SmartWay Trucker Portal. This is a one-stop resource for truck owners who seek information about loans and grants for eligible clean diesel projects.

- **Truckers: Clean Diesel Grants and Loans**

www.epa.gov/smartway

Case Studies. EPA grantees share their successes and lessons learned regarding clean diesel technologies:

- **Clean School Bus USA**

www.epa.gov/cleandiesel/schoolbus/casestudies.htm

- **SmartWay Transport Partnership**

www.epa.gov/smartway

- **Clean Ports USA**

www.epa.gov/cleandiesel/ports/casestudies.htm

- **Clean Construction USA**

www.epa.gov/cleandiesel/construction/casestudies.htm



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