



## Clean Air Fleets (2003–ongoing)

### I. Introduction/Background

The Clean Air Fleets (CAF) program evolved from recommendations made by a 2002 joint Regional Air Quality Council (RAQC) and Air Quality Control Commission (AQCC) stakeholder group convened to consider programs to reduce diesel emissions in the Denver metro region. Today, the program is a successful public-private initiative to help on- and off-road diesel operators voluntarily reduce diesel emissions while saving money. To accomplish this goal, CAF offers funding for retrofit technologies and advances in diesel emissions mitigation as well as providing education and outreach assistance to diesel owners and operators on current diesel-related issues.

### II. Program Partners

School Districts	Public Works Fleets	Private Fleets
<ul style="list-style-type: none"> <li>● Adams County School District 14</li> <li>● Adams County School District 50</li> <li>● Adams Twelve Five Star Schools</li> <li>● Aurora Public Schools</li> <li>● Boulder Valley Schools</li> <li>● Brighton 27J</li> <li>● Cherry Creek Schools</li> <li>● Colo. Springs School District 11</li> <li>● Colo. Springs School District 20</li>   <li>● Denver Public Schools</li> <li>● Douglas County School District</li> <li>● Englewood Schools</li> <li>● Jefferson County Public Schools</li> <li>● Littleton Public Schools</li> <li>● Mapleton Public Schools-Adams County 1</li> <li>● St. Vrain Valley School District RE-1J</li> <li>● Thompson Valley Schools</li> </ul>	<ul style="list-style-type: none"> <li>● City of Arvada Public Works</li> <li>● City of Aurora Public Works</li> <li>● City of Boulder Public Works</li> <li>● Boulder County Public Works</li> <li>● City of Brighton Public Works</li> <li>● City of Broomfield Public Works</li> <li>● City of Castle Rock Public Works</li> <li>● Colorado Department of Transportation</li> <li>● Colorado Department of Personnel Division of Central Services</li> <li>● City and County of Denver Public Works</li> <li>● City of Englewood Public Works</li> <li>● Foothills Parks and Recreation</li> <li>● Lakewood Public Works</li> <li>● City of Littleton Public Works</li> <li>● City of Louisville Public Works</li> <li>● City of Thornton Public Works</li> </ul>	<ul style="list-style-type: none"> <li>● American Furniture Warehouse</li> <li>● Brannan Sand and Gravel</li> <li>● CAST Transport</li> <li>● Furniture Row</li> <li>● Magellan</li> <li>● National Rental Car</li> <li>● Pacific Shipping and Trucking Co.</li> <li>● 10 independent owners and operators</li> </ul>

### III. Funding

To date the program has expended approximately \$5 million. A majority of funding comes through federal Congestion Mitigation and Air Quality (CMAQ) grant funds, administered by the Colorado Department of Transportation (CDOT) and Denver Regional Council of Governments (DRCOG), U.S. Environmental Protection Agency (EPA) grant funds and state Supplemental Environmental Project (SEP) funds. Current program funding includes:

- CMAQ funding for 2009 - 2011 for New Energy Fleets – approximately \$6 million
- EPA DERA funding for 2008 - 2010 for Colorado Retrofit and Idling Partnership - \$455,000

- EPA ARRA funding for 2009 - 2010 for Rocky Mountain Diesel Stimulus Project – \$1.3 million

#### **IV. Implementation Status**

Current efforts serve local government, school district, private, off-road, and over-the road fleets. The RAQC partners with Denver metro fleets on the following projects:

*New Energy Fleets (2008 – present)* – Funded by CMAQ, NEF provides funding for local fleets for diesel retrofit technologies, alternative fuels infrastructure, and hybrid/electric vehicles. Staff is currently working with partners to schedule and coordinate efforts.

*Diesel Emissions and Idling Reduction Partnership (2008 – present)* – Funded by the EPA Diesel Emissions Reduction Act, this program enables a variety of fleets to install cost-efficient emissions control and idle reduction technologies. Staff actively works with fleets to install equipment and identify opportunities to create awareness and provide education on diesel emissions and air quality issues.

*Rocky Mountain Diesel Stimulus Project - (2009 – present)* – Funding from EPA's American Recovery and Reinvestment Act (ARRA) program will aid over-the-road and school district's fleets to purchase technologies that will increase fuel economy and reduce unnecessary idling. Additionally, the grant provides funding for engine re-powers and retrofit technologies.

*EPA Region 8 Rocky Mountain Clean Diesel Collaborative (2006 – ongoing)* –The Collaborative is a collection of federal, state, local and non-profit partners that share resources to develop retrofit, alternative fuels and idle reduction projects that reduce harmful diesel emissions.

#### **V. Accomplishments**

*Clean Air Fleets Program (2002 – 2005)* – The original Clean Air Fleets was implemented as a pilot program to educate fleet personnel and install diesel retrofit technologies. The project successfully installed 69 pieces of diesel retrofit equipment and funded 19 biodiesel grants.

*Clean Yellow Fleets for Blue Skies (2003 – 2008)* – Successfully installed approximately 1,100 pieces of diesel retrofit equipment on over 800 school buses throughout the metro Denver region and encouraged the use of over 1,000,000 gallons of biodiesel fuel by participating school districts. The program additionally implemented "best maintenance practice" trainings and educational outreach to reduce idling.

*Diesel Initiative for Retrofit Technology (2003 – 2007)* – Focused on reducing diesel emissions through the installation of diesel retrofit equipment on off-road fleets working in 'sensitive' areas throughout the metro-region. The D.I.R.T. project successfully installed 42 pieces of retrofit equipment on 21 off-road vehicles.

*EPA Auxiliary Power Unit Project (2007 – 2008)* – The RAQC worked with 9 owners and operators to install 10 Auxiliary Power Units (APUs) on over-the-road fleets to reduce unnecessary idling.

*Colorado Retrofit Project (2007 - 2008)* – Expanded RAQC's retrofit and education efforts to a majority of school and public works fleets in the Denver metro area as well as a number of private fleets. Over 1,000 pieces of emissions reduction equipment were installed.

*Diesel Conferences (2002, 2006, 2009)* - Working with public and private partners, the RAQC hosted conferences in 2002 and 2006 and a workshop in 2009 focusing on diesel issues.

#### **VI. Resources**

RAQC staff recently revamped the Clean Air Fleets website. The site, [www.cleanairfleets.org](http://www.cleanairfleets.org), provides the latest information on advances in diesel engine, emission control, idling reduction technology, and alternative fuels as well as funding opportunities and project updates.