



WEST COAST COLLABORATIVE

A public-private partnership to reduce diesel emissions

The goal of the West Coast Collaborative is to leverage federal funds to strategically reduce emissions from the most polluting diesel sources in impacted communities. The Collaborative seeks to improve air quality and public health by targeting the highest polluting engines with the most cost effective control strategies.

DERA 2014: Truck & School Bus Replacements in Southern California

The West Coast Collaborative (WCC) is pleased to announce the South Coast Air Quality Management District's (SCAQMD's) receipt of a United States Environmental Protection Agency (US EPA) Diesel Emissions Reduction Act (DERA) grant to replace heavy-duty diesel short haul trucks and school buses. This project will be implemented using \$1,160,056 in DERA grant funding combined with \$20,405,500 in matching funds from SCAQMD, the California Air Resources Board (CARB) and participating fleets.

What is the Project?

This project will replace 80 model year (MY) 1991–2003 Class 8a heavy-duty diesel short haul trucks and seven MY 1991–2003 Type D diesel school buses with MY 2015, or newer vehicles powered by compressed natural gas (CNG) engines.

Why is this project important?

Exposure to diesel exhaust has been associated with decreased lung function and retarded lung development and can also exacerbate the symptoms of asthma, bronchitis and pneumonia. This project will reduce human exposure to diesel emissions as well as the negative health effects associated with exposure. The target fleets will be comprised of goods movement vehicles and school buses operating in Riverside, San Bernardino, and Los Angeles. These cities are disproportionately impacted by heavy-duty diesel traffic along the major transport corridors (e.g., I-5, I-10, I-215, CA-60 and CA-101), as well as by goods movement operations at Ports of Long Beach and Los Angeles and nearby the Burlington Northern Santa Fe (BNSF) and Union Pacific (UP) rail yards.

What are the Environmental Benefits?

Over the remaining lifetime of the 87 affected engines, these upgrades are estimated to reduce emissions of oxides of nitrogen (NOx) by 813 tons, fine particulate matter (PM2.5) by 33 tons, hydrocarbons (HC) by 37 tons, carbon monoxide (CO) by 258 tons, and carbon dioxide (CO₂) by 6851 tons. On an annual basis, the associated PM2.5 emissions reductions are estimated to generate over \$2 dollars in monetary health benefits in the affected counties for every \$1 spent on the project. Additionally, the reduction of PM2.5 emissions will reduce black carbon (BC), which influences climate by directly absorbing light, reducing the reflectivity ("albedo") of snow and ice through deposition, and interacting with clouds. The project will also conserve over 4.2 million gallons of diesel fuel by employing CNG technology.

Who are the Partners on this project?

The project will be led by SCAQMD, a regional agency with jurisdiction over air quality in California's South Coast Air Basin, in partnership with CARB's Proposition 1B Goods Movement Emission Reduction Program and participating truck and school bus fleets. SCAQMD received the DERA grant award through the WCC, and will distribute the grant funds to participating truck and school bus fleets. SCAQMD will be responsible for data monitoring and reporting for the project.

What is the Collaborative?

The WCC is an ambitious partnership between leaders from federal, state, local, and tribal government, the private sector, and environmental groups committed to reducing diesel emissions along the West Coast. Partners come from all over Western North America, including: Alaska, Arizona, California, Hawaii, Idaho, Nevada, Oregon, Washington, the Pacific Islands, Canada and Mexico. The WCC is part of the US EPA National Clean Diesel Campaign (www.epa.gov/cleandiesel).

How can I find out more Information?

For more information on this project, please contact John Mikulin at US EPA (mikulin.john@epa.gov / 415-972-3956). For more information on the WCC, please visit our website. www.westcoastcollaborative.org