



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 2013: Refuse Truck & Agricultural Tractor Replacements in California

The West Coast Collaborative (WCC) is pleased to announce the Sacramento Metropolitan Air Quality Management District's (SMAQMD's) receipt of a United States Environmental Protection Agency (U.S. EPA) Diesel Emissions Reduction Act (DERA) National Clean Diesel Funding Assistance Program grant to replace heavy-duty diesel refuse trucks and agricultural tractors. This project will be implemented using \$527,312 in DERA grant funding combined with \$649,943 in SMAQMD matching funds and \$1,539,630 from truck and tractor owners.

What is the Project?

This project will be implemented through a partnership between SMAQMD, Atlas Disposal Industries and participating farmers to replace two diesel-fueled refuse trucks and two diesel-fueled short-haul trucks with compressed natural gas (CNG) trucks running on renewable natural gas (RNG) from food waste. In addition, eight heavy-duty diesel agricultural tractors will be replaced with equipment that meets, or exceeds U.S. EPA's Tier 4 exhaust emission standards for nonroad compression-ignition engines.

Why is this project important?

The Sacramento Ozone Non-attainment Region includes all of Sacramento and Yolo counties and portions of Placer, El Dorado, Solano and Sutter counties. The vehicle and equipment replacements executed under this project will reduce emissions substantially compared to the existing, diesel-powered on-highway trucks and uncontrolled agricultural equipment currently operating in the project area. These reductions will improve local air quality, and will reduce the negative health effects and health care costs of the regional population.

What are the Environmental Benefits?

Over the remaining lifetime of the 12 affected equipment, these upgrades are estimated to reduce emissions of nitrogen oxides (NOx) by 62.82 tons, fine particulate matter (PM2.5) by 3.37 tons, hydrocarbons (HC) by 4.11 tons, carbon monoxide (CO) by 30.75 tons, and carbon dioxide (CO₂) by 2,742 tons. The estimated amount of diesel fuel saved is 247,000 gallons for the lifetime of this project. Additionally, the reduction of PM2.5 emissions will also 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.

Who are the Partners on this project?

The project will be led by SMAQMD, a regional air pollution control agency, in partnership with Atlas Disposal Industries and participating farms. SMAQMD received the DERA grant award through the WCC, and will distribute funds to Atlas Disposal Industries and participating farms. SMAQMD 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, and local 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 U.S. EPA National Clean Diesel Campaign (www.epa.gov/cleandiesel).

How can I find out more information?

For more information on this project, please contact Tyler Cooley at U.S. EPA (cooley.tyler@epa.gov / 415-972-3937). For more information on the WCC, please visit our website. www.westcoastcollaborative.org