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 2019: Battery-Electric Heavy-Duty Truck Replacements

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 trucks. This project will be implemented using $2,289,581 in DERA grant funding combined with $1,770,977 from the California Air Resources Board (CARB), and $4,739,023 in cost-share funds from participating fleets.

What is the Project?

This project will replace 21 engine model year 2010, or newer Class 8 diesel trucks in the South Coast Air Basin. These vehicles will be replaced with 2023, or newer heavy-duty battery-electric trucks certified to CARB's zero emission vehicle standards. The 2010+ trucks will then be scrapped.

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 short-haul goods movement trucks operating in California's Los Angeles and San Bernardino Counties. These counties are disproportionately impacted by heavy-duty diesel traffic along the major transport corridors, as well as by goods movement operations at ports, rail yards, warehouses, and distribution centers.

What are the Environmental Benefits?

Over the remaining lifetime of the 21 affected engines, these upgrades are estimated to reduce emissions of oxides of nitrogen (NOx) by 17.2 tons, hydrocarbons (HC) by 0.9 tons, fine particulate matter (PM2.5) by 0.022 tons carbon monoxide (CO) by 8.7 tons, and carbon dioxide (CO_2) by 6,396 tons. 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 approximately 568,575 gallons of diesel fuel by switching the battery-electric power.

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 Hybrid and Zero-Emission Truck and Bus Voucher Incentive Project, Clean Energy Fuels and participating trucking fleets. SCAQMD received the DERA grant award through the WCC and will distribute the grant funds to participating truck 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 Lauren Badertscher at US EPA (badertscher.lauren@epa.gov / 415-947-4213). For more information on the WCC, please visit our website. www.westcoastcollaborative.org