WEST COAST COLLABORATIVE
A public-private partnership to reduce diesel emissions

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

DERA 2019: Zero-Emission Electric Heavy-Duty Trucks in San Joaquin Valley

Under the 2019 Diesel Emissions Reduction Act (DERA) National Clean Diesel Program, the U.S. Environmental Protection Agency's (EPA) West Coast Collaborative provided a $2,364,974 grant to the San Joaquin Valley Unified Air Pollution Control District to purchase 17 zero-emission electric trucks that will operate in California's Central Valley, San Joaquin Valley.

What is this project?

EPA's Pacific Southwest Region 9 provided a grant to the San Joaquin Valley Unified Air Pollution Control District (SJVUAPCD) to scrap 17 existing diesel-fueled engine model year 1996-2009 Class 7-8 medium- and heavy-duty trucks. These trucks will be replaced with 17 zero-emission, electric motor trucks that will operate 100% of the time within the San Joaquin Valley Air Basin. These trucks will achieve 100% emission reductions of air pollutants. San Joaquin Valley does not currently meet Federal health-based ambient air quality standards for ozone and fine particulate matter; this project will help the Valley achieve these standards.

Who will operate these trucks?

The San Joaquin Valley is home to the largest agricultural region in the nation. Goods movement is vital to the Valley residents and the region's economy. Trucks targeted for funding will typically be owned by companies located in California that are transporting products within the Valley to local businesses and residences. These trucks may contribute to a variety of vocational applications involving both long-haul and local delivery. Each replacement truck will be of similar type, gross vehicle weight rating and horsepower rating as the old diesel truck.

What are the environmental & health benefits?

These 17 electric trucks are estimated to reduce lifetime emissions of NO_x by 14 tons, fine particulate matter by 1.28 tons, hydrocarbons by 1.94 tons, carbon monoxide by 7.15 tons and carbon dioxide by 2,276 tons. This project will reduce approximately 33,728 gallons of diesel fuel annually and provide an anticipated annual health benefit of $1,500,000 in the form of reduced health care costs, missed days of work and school, and reduced mortality from air pollution, as calculated by EPA's Diesel Emission Quantifier.

How was this project funded?

The EPA, through the West Coast Collaborative, provided $2,364,974 in a DERA National Program grant funds to SJVUAPCD to enable the implementation of this project. Leveraged CA-state and truck owner funding includes an additional $2,709,866.

What is the West Coast Collaborative?

The West Coast Collaborative is an ambitious partnership between leaders from federal, state, local and tribal governments, the private sector and environmental groups committed to reducing diesel emissions along the West Coast. The West Coast Collaborative is part of EPA's National Clean Diesel Campaign. More information can be found at www.epa.gov/cleandiesel and www.westcoastcollaborative.org.

How can I find out more information?

Contact Trina Martynowicz at the EPA at martynowicz.trina@epa.gov.