



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: Reducing School Bus Emissions in California

The West Coast Collaborative (WCC) is pleased to announce the California Air Resources Board's (CARB's) completion of a United States Environmental Protection Agency (U.S. EPA) Diesel Emissions Reduction Act (DERA) State Clean Diesel Program grant to retrofit heavy-duty diesel school buses. This project was implemented using \$249,792 in DERA grant funding combined with \$170,208 in CARB matching funds.

What is the Project?

By partnering with local school bus owners, this project installed 22 Diesel Particulate Filters (DPF) on school buses operating throughout California.

Why is this project important?

The primary objective of this project is to improve the environmental health of children. Exposure to diesel exhaust is associated with decreased lung function and development. It can also exacerbate the symptoms of asthma, bronchitis and pneumonia. This project will reduce children's exposure to diesel emissions as well as the negative health effects associated with exposure. Expected unquantifiable benefits of the project include increased awareness of the need to improve air quality, particularly among parents, school officials and others concerned with child health and welfare.

What are the Environmental Benefits?

Over the remaining lifetime of the 22 affected engines, these upgrades are estimated to reduce emissions of fine particulate matter (PM2.5) by 1.5 tons, hydrocarbons (HC) by 3 tons, and carbon monoxide (CO) by 20 tons. 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?

CARB, a state agency tasked with protecting air quality in the State of California, led this project in partnership with the San Joaquin Valley Air Pollution Control District (SJVAPCD), and participating school bus fleets. CARB received the DERA grant award through the WCC, and distributed the grant funds to SJVAPCD, who administered the retrofit program. CARB 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 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 Dana Mayfield at US EPA (mayfield.dana@epa.gov / 415-972-3008). For more information on the WCC, please visit our website. www.westcoastcollaborative.org