



WEST COAST COLLABORATIVE

A public-private partnership to reduce diesel emissions

The goal of the 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 engines with the most cost effective control strategies.

DERA 2011: Hawaii Street Sweeper Replacement

The West Coast Collaborative (WCC) is pleased to announce the Hawaii Department of Health (HDOH) Clean Air Branch's (CAB's) completion of its project to replace a heavy-duty diesel street sweeper operating on the Island of Oahu. This project was implemented using \$176,732 in U.S. Environmental Protection Agency (U.S. EPA) Diesel Emissions Reduction Act (DERA) grant funding.

What is the project?

Replaced one 2002 model year Class 7 (26,001-33,000 lbs) street sweeper with a 2011 model year Class 5 (16,001-19,500 lbs) street sweeper.

Why is this project important?

HDOH CAB partnered with the Hawaii Department of Transportation Airport Division (HDOT-A) whose fleet operates in close proximity to areas of Oahu with high population density. This project will reduce human health risk from toxic pollutants by reducing exposure to heavy-duty diesel truck exhaust in the communities where the fleets operate.

What are the environmental benefits?

Over the remaining lifetime of the affected engine, this upgrade will reduce emissions of fine particulate matter (PM2.5) by 0.03 tons, oxides of nitrogen (NOx) 0.5 tons, hydrocarbons (HC) by 0.06 tons, carbon monoxide (CO) by 0.2 tons and carbon dioxide (CO₂) by 67 tons. Additionally, the reduction of PM2.5 emissions will reduce black carbon (BC), which influences climate by directly absorbing light, reducing the reflectivity of albedo through deposition, and interacting with clouds.

How was this project funded?

The WCC provided \$176,732 in DERA grant funds to enable the implementation of this project on the Island of Oahu in the State of Hawaii.

Who were the partners on this project?

The project was led by HDOH CAB, the governing clean air agency in the State of Hawaii, which received the DERA grant award through the WCC. HDOH CAB then distributed the DERA grant funds to HDOT-A, which operates the project fleet. HDOH CAB was responsible for data monitoring and reporting for the project with significant administrative support provided by the Rewarding Internships for Sustainable Employment (RISE) program.

What is the West Coast Collaborative?

The WCC 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. Partners come from all over Western North America, including: Alaska, Arizona, Hawaii, Idaho, Nevada, California, Oregon, Washington, Canada, Mexico and the Pacific Islands. The Collaborative 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 about this project, please contact John Mikulin at U.S. EPA (mikulin.john@epa.gov / 415-972-3956). For more information on the WCC, please visit our website at www.westcoastcollaborative.org