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 2020: Hawaii Transit Bus Zero-Emission Replacement Project

The West Coast Collaborative (WCC) is pleased to announce the Hawaii Department of Health (HDOH) Clean Air Branch's (CAB's) receipt of a United States Environmental Protection Agency (US EPA) Diesel Emissions Reduction Act (DERA) State Clean Diesel Program grant to replace transit buses. This project will be implemented using $494,592 in DERA grant funding combined with $329,728 in Volkswagen (VW) mitigation matching funds and $1,007,503 in matching funds from participating fleets.

What is the project?

This project will be implemented through a partnership between HDOH CAB, the Hawaii State Energy Office (HSEO), and participating fleets to replace 3 older, medium- /heavy-duty vehicles with fully battery-electric vehicles.

Why is this project important?

HDOH CAB will partner with the Hawaii State Energy Office to replace heavy-duty diesel vehicles operating near areas of Oahu with high population density. This project will reduce human health risk from toxic pollutants by reducing exposure to heavy-duty diesel exhaust in the communities where these buses operate. Exposure to diesel exhaust has been associated with decreased lung function and delayed lung development; it can also exacerbate the symptoms of asthma, bronchitis and pneumonia. This project will reduce exposure to diesel emissions as well as the negative health effects associated with exposure.

What are the environmental benefits?

Over the remaining lifetime of the 3 affected engines, these upgrades will reduce emissions of fine particulate matter (PM2.5) by 0.3 tons, oxides of nitrogen (NOx) by 20 tons, hydrocarbons (HC) by 1.2 tons, carbon monoxide (CO) by 8 tons, and carbon dioxide (CO_2) by 2,396 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.

Who were the partners on this project?

The project will be 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 will partner with HSEO to then distribute the DERA grant funds to the participating fleets. HDOH CAB will be responsible for data monitoring and reporting for the project.

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 US EPA National Clean Diesel Campaign.
www.epa.gov/cleandiesel

How can I find out more information?

For more information about 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 at www.westcoastcollaborative.org