



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 2019: Hawaii Public Works Vehicle & Transit Bus Replacements

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 grant to replace heavy-duty diesel vehicles. This project will be implemented using \$474,474 in DERA grant funding combined with \$316,494 in Volkswagen (VW) mitigation matching funds and \$2,511,239 in cost-share funds from participating fleets.

What is the project?

The HDOH will partner with three government agencies on separate diesel vehicle replacement projects:

- Board of Water Supply, City & County of Honolulu (BWS) to replace one MY2001 heavy-duty truck; and
- Highways Division, Hawaii Department of Transportation (HDOT) to replace a Zip Mobile / Road Zipper.
- DBEDT-HSEO clean vehicle assistance program to replace two (2) diesel transit buses with two (2) battery-electric buses.

Why is this project important?

HDOH CAB will partner with the above state agencies to replace heavy-duty diesel vehicles that operate near areas of Oahu with high population density. Honolulu, the largest city on Oahu, is currently on U.S. EPA's priority list for diesel particulate matter (DPM), where all of part of the population is exposed to more than 2.0 $\mu\text{g}/\text{m}^3$ of DPM. This project will reduce human health risk from toxic pollutants by reducing

exposure to heavy-duty diesel exhaust in the communities where these vehicles operate.

What are the environmental benefits?

Over the remaining lifetime of the 4 affected engines, these upgrades will reduce emissions of fine particulate matter (PM_{2.5}) by 0.7 tons, oxides of nitrogen (NO_x) by 4.7 tons, hydrocarbons (HC) by 0.4 tons, carbon monoxide (CO) by 4.0 tons, and carbon dioxide (CO₂) by 138 tons. Additionally, the reduction of PM_{2.5} 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 then distribute the DERA grant funds to their partnering state agencies and 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