



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 cost-effective control strategies.

DERA 2022: Fire Truck Replacement

Under the 2022 Diesel Emissions Reduction Act (DERA) State/Territory Clean Diesel Program, the U.S. Environmental Protection Agency’s (EPA) West Coast Collaborative provided a \$552,549 grant to the State of Washington to scrap eight (8) diesel fire trucks and replace them with eight (8) electric fire trucks and associated charging infrastructure.

What is this project?

This project will serve as a model program for the State of Washington fire districts to electrify their fleets. Fire trucks are present in every community and typically run regular, short-distance circuits from their fire stations to incidents, training, events, etc., before returning to a fire station. Fire stations place a high demand on their fire trucks, drive significant miles, and spend considerable time idling in communities. The short-distance circuits allow for a regular return to charging infrastructure

In addition to reducing community exposure to diesel emissions, this project will reduce firefighter exposure to indoor diesel emissions caused by starting and running vehicles inside the fire station.

Where is this project located?

Projects selected for funding will be fire stations throughout the State of Washington.

What are the environmental & health benefits?

Activity	Annual Reductions	Lifetime Reductions
*Replace eight (8) diesel powered Fire trucks with electric fire trucks	Fuel = 11,974 gal CO2 = 134.6 tons PM2.5 = 0.056 tons HC = 0.056 tons CO = 0.212 tons NOx = 0.60 tons	Fuel = 59,870 gal CO2 = 673.2 tons PM2.5 = 0.264 tons HC = 0.286 tons CO = 1.06 tons NOx = 3.00 tons

* Fire truck annual emission reduction estimates are based on research provided by Everett Fire Department and 2022 survey results from Washington fire truck operators. Emission estimates assume 90% operation on battery and 10% operation on fossil-fueled backup generator.

How was this project funded?

Through the West Coast Collaborative, EPA provided \$552,549 in funding to the State of Washington. EPA allocates DERA funds to eligible U.S. states and territories to establish diesel emissions reduction programs.

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 Ryan Schlenker at the EPA at schlenker.ryan@epa.gov.