



WEST COAST COLLABORATIVE

A public-private partnership to reduce diesel emissions

The goal of the 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 2020: Northwest Seaport Alliance - Electrical Terminal Tractors Project

Under the Diesel Emission Reduction Act (DERA), the U.S. Environmental Protection Agency (EPA) awarded the Northwest Seaport Alliance a \$782,482 grant with Fiscal Year 2020 funding. This grant will fund the replacement of six (6) diesel tractors with six (6) fully battery-electric, zero emission, terminal tractors, supporting reduced emissions and improved air quality in Tacoma, Washington. The project will be implemented with a cost share of \$956,367 and \$16,224 in additional leveraged funds for a total project cost of \$1,755,073.

What is the Project?

The Northwest Seaport Alliance will purchase six (6) fully battery-electric, zero emission, terminal tractors, charging units, and charging pedestals to replace six (6) existing diesel tractors that are a mix of Tier 2 and Tier 3 nonroad diesel engines. These pieces of port cargo handling equipment operate at the South Intermodal Yard Facility moving containerized cargo to and from railcars. This project will contribute to achieving the emissions reductions goals the NWSA has set via the Northwest Ports Clean Air Strategy (NWPCAS) for reducing air pollutants and greenhouse gas emissions, and improved air quality within the Tacoma-Pierce County PM2.5 maintenance zones.

Why is this Project Important?

In the EPA's 2014 National Air Toxics Assessment Pierce County, Washington was identified as an area where all or part of the population is exposed to diesel particulate matter concentrations above the 80th percentile and is on the EPA 2020 National Priority Area list. This electrical terminal tractors project will result in reductions of diesel particulate matter emissions at the Port of Tacoma, helping the region to remain in attainment of the federal standards. This project maximizes health benefits by reducing diesel emissions generated in the movement of goods in Tacoma's commercial and port district, an area that is disproportionately impacted by emissions from diesel fleets.

What are the Estimated Environmental Benefits?

The replacement of these diesel terminal tractors with battery electric equipment is projected to reduce the annual diesel emissions from by 5.37 tons of nitrogen oxides (NOx), 1.41 tons of particulate matter 2.5 (PM_{2.5}), 0.43 tons of hydrocarbons (HC), 3.26 tons of carbon monoxide (CO), and 259 tons of carbon dioxide (CO₂), as well as reduce annual fuel consumption by 22,998 gallons. This will result in estimated cumulative emission reductions of 32.21 tons NOx, 8.44 tons PM_{2.5}, 2.56 tons HC, 19.57 CO, and 1,552 tons CO₂, over the lifetime of these vehicles.

How is this Project Funded?

The West Coast Collaborative is a partnership between leaders from federal, tribal, state, and local government, the private sector, and environmental groups committed to reducing diesel emissions along the West Coast and is part of the National Clean Diesel Campaign: www.epa.gov/cleandiesel

Where can I find more information?

For more information on the West Coast Collaborative, please visit our website at: www.westcoastcollaborative.org. For more information about this project, please contact Sarah Frederick at Frederick.Sarah@epa.gov