



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 2019: Northwest Seaport Alliance – Husky Terminal Shore Power Project

Under the Diesel Emission Reduction Act (DERA), the EPA awarded the Northwest Seaport Alliance a \$1,000,000 grant with Fiscal Year 2019 funding. This grant will fund the installation of infrastructure to supply ocean-going vessels with shore power, supporting reduced emissions and improved air quality in Tacoma, Washington. The project will be implemented with a cost share of \$3,000,000 and \$1,312,215 in additional leveraged funds for a total project cost of \$5,312,215.

What is the Project?

The Northwest Seaport Alliance will install marine shore power connection systems at two ship berths to provide auxiliary power to category 3 container vessels while at berth. The shore power infrastructure will be used by a diverse fleet of container vessels that visit the Husky Terminal. Shore power is a key component of the Northwest Seaport Alliance's strategy for reducing air pollutants and greenhouse gas emissions. This project supports reduced diesel emissions and improved air quality within the Tacoma-Pierce County PM_{2.5} maintenance zones.

Why is this Project Important?

In the EPA's 2011 National Air Toxics Assessment Pierce County, Washington was identified as an area where all or part of the population is exposed to more than 2.0µg/m³ of diesel particulate matter emissions and is on the EPA 2018 National Priority Area list. This shore power 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 installation of these shore power connection systems is projected to reduce the annual diesel emissions from container vessel idling at the Husky Terminal by 41 tons of nitrogen oxides (NO_x), 0.68 tons of particulate matter 2.5 (PM_{2.5}), 0.79 tons of sulfur oxides (SO_x), and 2,039 tons of carbon dioxide (CO₂). This will result in estimated cumulative emission reductions of 1,230 tons NO_x, 20.4 tons PM_{2.5}, 23.7 tons SO_x, and 61,170 tons CO₂, over a 30-year useful life of the electrical distribution infrastructure.

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