



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 2013 – The Lummi Nation of the Lummi Reservation in Washington State– Lummi Marine Engine Repower Project

The EPA funded The Lummi Nation of the Lummi Reservation (Washington State) \$272,036 under the Diesel Emission Reduction Act (DERA), in February 2014 from FY 2013 funding, to repower (14) diesel engines on (13) marine fishing fleet vessels with new, low-emission diesel engines. These vessels are used throughout the year in fisheries targeting salmon, halibut, crab, and shrimp. The project will be implemented with over \$410,306 in leveraged funding.

What is the Project?

The Lummi fishing fleet has (37) marine vessels powered with diesel engines in the Lummi fleet. Fourteen (14) diesel engines from the (13) fishing vessels are included for funding in this project.

Why is this project important?

Repowered marine vessels are some of the most effective and cost-effective targets for NOx and PM 2.5 reduction. The Lummi Reservation is located in Whatcom County, in Washington State. It is ranked among the 80th percentile of the worst counties in the United States for the number of people living in areas where cancer risk from HAPs (Hazardous Air Pollutants) exceeds 1 in 10,000, of which

Diesel Emissions has been a high contributing factor..The average year of diesel engines in the Lummi fishing fleet is 1992. Older engines such as these have poor performance, low fuel-efficiency, and high emissions. Repowering these marine vessels is one of the most efficient and cost-effective techniques for cleaner air and a healthier environment.

What are the estimated environmental benefits?

Repowering the fishing fleet vessels will achieve an annual NOx emissions reduction of 6.7 tons, and 0.456 tons in PM2.5 annual emissions reduction. Over the 25-year lifetime of the repowered engines, diesel emission will be reduced by 47% (169 tons) for NOx and by 60% (11.394 tons) for PM2.5.

What is the Collaborative?

The West Coast Collaborative is an ambitious partnership between leaders from federal, state, and local government, the private sector, and environmental groups committed to reducing diesel emissions along the West Coast. Partners come from all over Western North America, including California, Oregon, Washington, Alaska, Arizona, Idaho, Nevada, Hawaii, Canada and Mexico. The Collaborative is part of the National Clean Diesel Campaign (www.epa.gov/cleandiesel).

How can I find out more about the Collaborative?

For more information on the West Coast Collaborative, please visit our website at www.westcoastcollaborative.org.

For more information about this project or about the Marine Vessels and Ports Sector, please contact Dan Brown at brown.dan@epa.gov.