



WEST COAST COLLABORATIVE

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.

Alaska Fish Oil Biodiesel Development Project

The West Coast Collaborative is pleased to announce that EPA has selected the Alaska Fish Oil Biodiesel Development Project for \$200,000 in EPA funding. The project will be implemented with \$210,000 in leveraged funds from the Alaska Energy Authority and industry partners.

What is the Alaska Fish Oil Biodiesel Development Project?

Alaska has limited viable sources of biodiesel due to very limited waste cooking oil, nonexistent agricultural oil crops, and high import transportation costs for biodiesel produced elsewhere. This project will design, construct and demonstrate the economic viability of a self-contained "portable" fish waste processing facility to extract fish oil suitable for use as boiler fuel, supplementary engine fuel, and as feedstock for the production of biodiesel. It will also continue and complete an ongoing effort to adapt commercial biodiesel production technology, develop storage and handling logistics, and demonstrate use of biodiesel produced from Alaska-origin fish oil in rural coastal communities heavily dependent on commercial fisheries.

Why is this project important?

The Alaska commercial seafood processing industry produces about 8,000,000 gallons of fish oil per year, primarily from the processing of fish waste materials not otherwise of significant commercial value. A further 13,000,000 gallons of fish oil is estimated to be available from state fish harvests but not recovered, as significant volumes of fish waste are not processed before being discharged into regional waters. Fish oil is widely utilized in the Alaska seafood industry as an alternative boiler fuel and, to a much lesser extent, as a supplementary engine fuel in select stationary engines.

What are the estimated environmental benefits?

The project will result in over 50 tons per year reduction of criteria pollutant discharges and a net production of 84,000 gallons per year of fish oil (equivalent to 76,000 gallons per year of petroleum diesel). Additional benefits are anticipated from the displacement of fuel transport emissions, reduced or mitigated fuel spill impacts, and improved water quality.

How is this project funded?

Through EPA, the Collaborative is providing \$200,000 in support of this project. In addition, \$210,000 will be provided in leveraged support from the Alaska Energy Authority and industry partners.

Who are the partners on this project?

The project relies upon close partnership between Alaska Energy Authority, the Alaska Regional Office of the National Park Service, Alaska Department of Environmental Conservation Air Quality Division, the Arctic Energy Technology Development Laboratory of the University of Alaska at Fairbanks, and the Fisheries Industry Technology Laboratory in Kodiak, also of the University of Alaska. One or more industry partners will make funding and in-kind contributions for acquiring the mobile fish oil extraction facility and will own and operate the facility.

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, please contact Peter Murchie (murchie.peter@epa.gov, 503-326-6554) or visit our website at www.westcoastcollaborative.org.