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.

SFPUC FOG-to-Biodiesel Demonstration Project

The West Coast Collaborative (WCC) is pleased to announce the completion of the San Francisco Public Utilities Commission's (SFPUC's) Fats Oils & Grease (FOG)-to-Biodiesel Project. This project was implemented using $172,064 in U.S. EPA grant funding combined with nearly $4 Million in leveraged funds from other participating partners.

What is the SFPUC FOG-to-Biodiesel Project?

The SFPUC project: 1) researched FOG-to-biodiesel technologies; 2) quantified greenhouse gas (GHG) emission reductions associated with the demonstration project technology; 3) conducted a socioeconomic analysis of the demonstration project technology; 4) communicated the project to other wastewater agencies, 5) identified priority public owned treatment works (POTWs) for implementation; and 6) developed a business model that identified the revenues and costs associated with the demonstration project technology.

Why is this project Important?

- To demonstrate technologies that can be used to convert brown grease into biodiesel at a commercial scale and therefore reduce reliance on fossil fuels.
- To demonstrate the feasibility of co-locating a FOG recovery facility at a wastewater treatment plant (WWTP).
- And to demonstrate the feasibility of business model that can be used to develop a program that could be easily replicated at other WWTPs.

What are the Environmental Benefits?

The SFPUC FOG project reduces greenhouse gas (GHG) emissions, keeps oils and grease out of landfills, and reduces sanitary sewer overflows. This project reduces 470 tons of carbon dioxide (CO_2) emissions per year by incorporating 506,000 gallons per year of reclaimed waste grease into the anaerobic methane digester at the SFPUC's Oceanside WWTP. This process increases the SFPUC's production of renewable bio-methane energy for the City & County of San Francisco.

How was this project funded?

Through U.S. EPA, the WCC provided $172,064 to support this project. In addition, other project partners provided funding assistance totaling $4,069,796. The breakdown of non-U.S. EPA funding contributions is as follows: SFPUC = $2,022,505, California Energy Commission (CEC) Public Interest Energy Research (PIER) Program = $995,791, U.S. Department of Energy (DOE) = $951,500, and URS Corporation = $100,000.

Who are the Partners on this project?

The project is led by SFPUC, with partners at the DOE, CEC PIER Program, URS Corporation, Pacific Biodiesel Technologies, and Black Gold Biofuels. The project team developed a toolkit that will allow other municipalities to replicate and implement FOG reclamation projects across the nation.

What is the WCC?

The WCC 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, the Pacific Islands, Canada, and Mexico. The WCC is part of the U.S. EPA National Clean Diesel Campaign (NCDC). www.epa.gov/cleandiesel

How can I find out more Information?

For more information, please contact John Mikulin (mikulin.john@epa.gov / 415-972-3956), or visit our website. www.westcoastcollaborative.org