



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 2011: Agricultural Pump Electrification Project in the Sacramento Region

The Sacramento Metropolitan Air Quality Management District (SMAQMD) has completed its 2011 Diesel Emission Reduction Act (DERA) grant. SMAQMD received \$1,097,032 for the replacement of 150 diesel-powered agricultural irrigation pumps with zero-emission electric powered pumps.

What is the project?

EPA selected the Sacramento Metropolitan Air Quality Management District (SMAQMD) for \$1 million in funding to establish a voucher program that replaced 150 existing diesel agricultural irrigation pumps with electric agricultural pumps operating in the Sacramento Federal Nonattainment Area.

Why is this project important?

The replacement of 150 diesel engines with electric agricultural pumps significantly reduces diesel emissions to agricultural workers, nearby residents, and local communities. Diesel exhaust has been linked to lung cancer, the exacerbation of asthma, other respiratory diseases, and heart disease. The Sacramento area is designated as "serious" non-attainment for ozone. This project will also help reduce ozone precursors.

What are the estimated environmental benefits?

It is estimated the 150 agriculture pump replacements will reduce 513 tons of nitrogen oxides (NOx), 28 tons of particulate matter (PM), 31 tons of hydrocarbons (HC), and 10,129 tons of carbon dioxide (CO2) emissions over the life of the project resulting in annual health benefits of over \$1.6 million. The project will also conserve over 900,000 gallons of diesel fuel.

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.

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, please contact Tyler Cooley at U.S. EPA (cooley.tyler@epa.gov / 415-972-3937).