



## WEST COAST COLLABORATIVE

A public-private partnership to reduce diesel emissions

The goal of the Collaborative is to leverage significant federal funds to reduce emissions from the most polluting diesel sources in the most affected communities. The Collaborative seeks to significantly improve air quality and public health by targeting the highest polluting engines with the most cost effective control strategies.

# DERA 2009/2010: Flex-Grid System for Alternative Maritime Power at the Port of Los Angeles

In May 2010, under the Diesel Emissions Reductions Act, the West Coast Collaborative awarded the City of Los Angeles Harbor Department (Port of Los Angeles) \$1,212,838 for infrastructure needed to connect ocean-going vessels to shore-side power. The project will be implemented with over \$1.7 million in cost-share funding.

### What is the Project?

The City of Los Angeles Harbor Department (Port of Los Angeles), in partnership with American President Line (APL), will install shore-side infrastructure that will facilitate the powering of APL container vessels with electricity generated by the Flex-Grid system developed by Clean Air Logix. The Flex-Grid system is a non-grid based shore power system fueled by liquefied natural gas. The primary objective of this project is to accelerate the implementation of shore-side electric power at the APL terminal in advance of the Port's installation of a large-scale, grid-based Alternative Maritime Power (AMP) system at that location, scheduled for February 2013. The installed infrastructure will be completely re-usable in the new AMP system. The Port will provide over \$1.7 million as a voluntary cost share, and APL will provide \$5.5 million to retrofit five vessels for shore power capability.

### Why is this project important?

Marine vessels can be a significant source of pollutant emissions within an airshed, especially emissions of NOx and particulate matter (PM) that can result in adverse public health and environmental consequences. This project will provide long-term environmental health benefits to local communities and the South Coast Air Basin.

### What are the estimated environmental benefits?

This shorepower project will demonstrate a 61 ton reduction in oxides of nitrogen emissions (NOx) and a 2 ton reduction in particulate matter emissions (PM) over the 18 month project period. The installed infrastructure and vessel retrofits will continue to yield environmental benefits well beyond the end of the project, after the AMP system is installed.

### 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](http://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](http://www.westcoastcollaborative.org). For more information about this project or about the Marine Vessels & Ports Sector Workgroup, please contact Francisco Doñez at [donez.francisco@epa.gov](mailto:donez.francisco@epa.gov) or 213-244-1834.