



## WEST COAST COLLABORATIVE

Public-private partnership to reduce diesel emissions

# 2004 Collaborative Demonstration Projects

*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.*

*The West Coast Collaborative is pleased to announce 8 new diesel projects totaling nearly \$1.2 million in Environmental Protection Agency funding and over \$9.5 million in matching funds from Collaborative partners.*

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## CALIFORNIA PROJECTS

### Marine Ferry Fuel Additive Evaluation Project

EPA is providing \$71,000 to the San Francisco Bay Area Water Transit Authority and its partners, the Blue and Gold Fleet and the Lubrizol Corporation, to evaluate the use of "PuriNox" in Bay Area marine ferries. PuriNOx is a fuel additive that can reduce nitrogen oxide emissions\* by up to 20% and particulate matter emissions by up to 50% in on-road applications.

### Locomotive Idle Reduction Project

EPA is providing a \$75,000 grant to the San Joaquin Valley Unified Air Pollution Control District that will allow Burlington Northern and Santa Fe Railway Company and Union Pacific Railroad to retrofit several switcher locomotives in the San Joaquin Valley. Each company will contribute \$45,000 to install locomotive microprocessor technology that switches engines off when they are not needed to reduce nitrogen oxides, sulfur dioxide and diesel particulate emissions. The project will reduce nitrogen oxide emissions approximately 2.5 tons annually.

### I-5 Truck Idle Reduction Initiative

EPA's SmartWay Transport Partnership is providing \$100,000 to the South Coast Air Quality Management District for the I-5 Corridor Truck Idle Reduction Initiative. This is one of three projects under this initiative that will leverage over \$6 million in matching funds from various non-profit and government partners as part of the West Coast Collaborative and the West Coast Governors' Global Warming Initiative. South Coast Air Quality Management District is providing \$100,000 in matching funds.

### San Diego-Tijuana Diesel Emissions Reduction Project

EPA is providing \$150,000 to the San Diego County Air Pollution Control District for a diesel emissions reduction demonstration project. The project will investigate the costs and effectiveness of diesel retrofit technologies on heavy-duty diesel vehicles that operate in the San Diego-Tijuana border region.

### Sacramento Truck Idle Reduction Project

EPA is providing a \$200,000 grant to the Sacramento Municipal Utility District to install battery and grid powered electric air conditioners into trucks and to install needed infrastructure at truck stops. These installations will enable truck operators to use electrical energy for needed in-truck appliances, instead of idling during rest periods. The fleets agreed to reinvest the annual fuel cost savings resulting from the first year of operation of the equipment, estimated at \$2,500 per truck. By year's end, the system will be in operation on at least 46 trucks. Sacramento Municipal Utility District, the Electric Power Research Institute, the Sacramento Metropolitan Air Quality Management District, the California Energy Commission, the Department of Energy and industry partners are contributing a total of \$332,000 in matching funds.

## OREGON PROJECTS

### I-5 Truck Idle Reduction Initiative

EPA's SmartWay Transport Partnership is providing \$200,000 to Oregon State University for the I-5 Corridor Truck Idle Reduction Initiative. This is one of three projects under this initiative that will leverage over \$6 million in matching funds from various non-profit and government partners as part of the West Coast Collaborative and the West Coast Governors' Global Warming Initiative. For this project, The Climate Trust is providing \$2 million, the Oregon Business Energy Tax Credit Program is providing \$2.3 million, and the Oregon Office of Energy Loan Program is providing \$1.4 million in matching funds.

### Oregon Truck Idle Reduction Project

Lane Regional Air Pollution Authority is investing \$860,000 for the "Everybody Wins" Project that will reduce diesel emissions from idling long-haul trucks. The project provides infrastructure to purchase, install and maintain small auxiliary engines that use up to 90 percent less diesel and emit 75 percent less air pollution than idling trucks.

## WASHINGTON PROJECTS

### Princess Cruises Shore Power Project

EPA is providing \$50,000 to the Port of Seattle for a \$1.5 - 1.8 million shore power project. By hooking two cruise ships, the Diamond Princess and the Sapphire Princess, up to the Seattle electric grid, this project will reduce the air emissions from dockside cruise ships in Seattle by more than a third.

### I-5 Truck Idle Reduction Initiative

EPA's SmartWay Transport Partnership is providing \$100,000 to the Washington Department of Ecology for the I-5 Corridor Truck Idle Reduction Initiative. This is one of three projects under this initiative that will leverage over \$6 million in matching funds from various non-profit and government partners as part of the West Coast Collaborative and the West Coast Governors' Global Warming Initiative. For this project, the Climate Trust is providing \$200,000 and Washington Department of Ecology is providing \$100,000 in matching funds.

### \* Health and Environmental Impacts of diesel emissions

**Nitrogen oxides (NOx):** contribute to ozone (smog) and impair lung function.

**Particulate matter (PM):** exacerbates existing respiratory and cardiovascular illnesses. Particles smaller than 2.5µ (microns) are especially harmful because they may lodge into the lungs' inner recesses and cause infection and compromise the immune system.