



WEST COAST COLLABORATIVE
A public-private partnership to reduce diesel emissions



American Recovery and Reinvestment Act: Repowering Switch Yard Locomotives in Southern California

The California Air Resources Board received \$8,888,888 under the American Recovery and Reinvestment Act of 2009 (ARRA) by the U.S. EPA to repower a minimum of eight switch yard locomotives that operate in the South Coast Air Basin with new Tier 3 nonroad engines

What is a switch locomotive?

This project repowers a minimum of eight older existing switch locomotives with new Tier 3 non-road engines, also known as a generator set switch locomotive. Switch locomotives typically operate in and around railyards to put trains together and move railcars locally between railyards. The railroads that own the affected locomotives, must operate them in the South Coast Air Basin.

Why is this project important for air quality?

As switch locomotives are required to use CARB diesel fuel in California, the resulting generator set switch locomotives will reduce the emissions of nitrogen oxides (NO_x) and particulate matter (PM) by up to 90 percent. The levels of PM and ozone in the South Coast Air Basin have consistently been the highest in the country. NO_x is a component involved in the creation of ozone. The expected amount of reduction in NO_x and PM emissions will significantly reduce health

risks, especially cancer, of residents in the country's 2nd largest urban area. This repower project will reduce fuel usage by 20 percent or more per year, thereby reducing carbon dioxide emissions.

How does this project relate to the Recovery Act Funding Priorities?

- **Job Preservation and Creation** This project is estimated to create or preserve jobs related to the manufacturing and installation of locomotive engines.
- **Ameliorate the Current Economic Condition** There is a close tie-in with suppliers to the manufacturers and the locomotive industry.
- **Increase Economic Efficiency** The project will invest in manufacturers and the health of the population in the region. In addition, investing in diesel emission reduction will provide a health benefit that outweighs the costs.

How do I find out more about ARRA?

For more information regarding the American Recovery and Reinvestment Act, please visit the Recovery Homepage www.recovery.gov, and www.epa.gov/otag/eparecovery/

What Is the West Coast Collaborative and How Do I Find Out More?

The West Coast Collaborative is a partnership between leaders from federal, state, and local government, the private sector, and environmental groups committed to reducing diesel emissions along the West Coast. The West Coast Collaborative is part of the National Clean Diesel Campaign: www.epa.gov/cleandiesel

For more information about the California Air Resources Board, please visit www.arb.ca.gov/homepage.htm