

US EPA ARCHIVE DOCUMENT



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

Diesel Emission Reduction Act (DERA) 2008-2011: Grant Benefits in USEPA Regions 9 and 10

In the 2008-2011 fiscal years, the United States Environmental Protection Agency (USEPA) awarded over \$97 Million in Diesel Emissions Reduction Act (DERA) & American Recovery and Reinvestment Act grant funds through the West Coast Collaborative (WCC). These awards are intended to assist states, cities, tribes, and non-profits in reducing diesel emissions, maximize ghg and black carbon emission reductions, and protecting public health throughout the western U.S. States and territories. WCC clean diesel grants include awards to Alaska, American Samoa, Arizona, California, Commonwealth of the Northern Mariana Islands, Guam, Hawaii, Idaho, Nevada, , Oregon and Washington.

DERA Grant Totals for USEPA Regions 9 & 10¹

Grant Funding = \$97,564,368
Matching Funds = \$119,068,002
Engines Upgraded = 17,048

Emission Reductions	Grant Lifetime
Nitrogen Oxides (NOx)	38,895 tons
Particulate Matter (PM)	1,725 tons

WCC Clean Diesel Grant Project Descriptions

DERA Combined Fiscal Years 2008

Region 10 – Pacific Northwest

Alaska Department of Environmental Conservation-\$196,880 to test and evaluate Organic Rankine Cycle Engines Operating on Recovered Heat from Diesel Engines.

City of Portland- \$393,814 to install verified retrofit exhaust emission control technologies on nonroad construction diesel fleets in Multnomah County.

Idaho Department of Environmental Quality- \$500,000 to install verified retrofit exhaust emission control technologies on heavy-duty diesel school bus engines in Treasure Valley, Idaho. \$196,880 to retrofit 83.5 buses with CCV and 83 DOC using EPA/CARB on-road verified technologies.

Oregon Department of Environmental Quality- to install advanced exhaust controls on select municipal vehicles in the city of Portland and Multnomah County fleets.

¹ DERA grant project data from WCC Grant Tracking Database (October 2011).

Washington Department of Ecology- \$288,740 to install diesel oxidation catalysts (DOC), closed crankcase ventilation (CCV) filters, and diesel particulate filters on 241 public works and public service vehicles in 18 fleets.

Region 9 – Pacific Southwest

CALSTART - \$895,827 to retrofit and replace diesel vehicles and off road equipment at 7 air ports across California.

City of Phoenix Public Transit Department- \$553,604 to repower and add a DPF to 10 transit bus engines.

Clark County Department of Air Quality & Environmental Management- \$393,814 to retrofit 69 non-road diesel engines with DOCs., DPFs, and Closed Crankcase filtration systems.

Department of Health, State of Hawaii-\$196,880 to support the use of verified diesel emission reduction technology in Hawaii.

Kern County Superintendent of Schools- \$540,000 to replace six 1987-89 model year school buses with CNG buses.

Nevada Division of Environmental Protection-\$295,320 to retrofit school buses with Diesel Oxidation Catalysts and Closed Crankcase Ventilation systems.

Sacramento Metropolitan Air Quality Management District-\$553,360 to replace 21 existing trucks and 3-4 school buses with hybrids.

South Coast Air Quality Management District- \$1,000,000 to retrofit 700 1999-2002 model year long haul heavy-duty diesel trucks with diesel particulate filters.

State of Arizona Department of Environmental Quality- \$423,292 to Promote Anti-Idling Technology Along the Arizona-Sonora Border.

American Recovery and Reinvestment Act Funding 2009

Region 10 – Pacific Northwest

Alaska Department of Environmental Conservation-\$1,730,000 to retrofit equipment and replace engines on two locomotives, and replace three fleet vehicles, and fund heat a recovery project in Goodnews Bay, Alaska.

Cascade Sierra Solutions- \$907,072 to retrofit heavy-duty diesel- powered vehicles with verified aerodynamic technologies in ID, OR, and WA.

City of Portland- \$1,552,261 to install verified diesel particulate filters, partial flow filters and diesel oxidation catalysts on construction equipment.

Idaho Department of Environmental Quality- \$1,730,000 to retrofit 350 school buses or publicly owned vehicles with Level 1 technologies, and to retrofit 75 school buses with anti-idling technology, and to replace 14 school buses in publicly owned fleets.

Oregon Department of Environmental Quality-\$1,730,000 to retrofit public municipal vehicles, transit vehicles, and construction equipment, and repower two marine vessels.

Port of Tacoma-\$1,488,080 to install a shore-side electrical connection system and alternative maritime power at the Totem Ocean Trailer Express Terminal (TOTE) Terminal in Tacoma.

Puget Sound Clean Air Agency- \$2,534,511 to repower 3 locomotive switcher engines operating in the Puget Sound region.

State of Oregon-\$482,476 to repower four pilot launch boats and one towboat with certified engine technology.

Washington Department of Ecology-\$1,730,000 to install partial flow filters and diesel oxidation catalysts on cargo handling equipment at ports in Washington State.

Region 9 – Pacific Southwest

Arizona Department of Environmental Quality- \$1,730,000 to install electric systems to prevent heavy-duty truck engine idling along the Arizona-Mexico border and rest stops in southern Arizona.

Bay Area Air Quality Management District- \$2,000,000 to retrofit 81 trucks with Diesel Particulate Filters (DPFs) and replace 22 trucks that operate at and around the Port of Oakland.

California Air Resources Board- \$1,730,000 to retrofit school buses with verified Level 3 CARB diesel particulate filters, in partnership with local air districts within CA.

California Department of Transportation- \$951,431 to install Level 3 CARB verified diesel particulate filters on 46 Caltrans-owned construction equipment.

City of Long Beach, Harbor Department- \$4,008,250 to implement a large-scale diesel emission reduction project involving equipment replacements, engine repowers, and/or engine retrofits for 112 pieces of cargo handling equipment.

City of Los Angeles Harbor Department- \$1,991,750 in funding to replace, repower, and/or retrofit a total of 24 pieces of equipment, currently in operation at the port.

City of Phoenix Department of Public Works- \$829,697 to retrofit 44 diesel trucks with diesel particulate filters, and 1 truck diesel oxidation catalysts, and to replace an aging refuse hauler with a hydraulic launch assist refuse hauler.

Department of Health, State of Hawaii- \$1,730,000 to partner with Department of Education and University of Hawaii to replace 12 vehicles.

Nevada Division of Environmental Protection- \$1,730,000 to replace 17 school buses in operation in Nevada.

San Diego County Air Pollution Control District-\$1,563,652 to retrofit, replace, and repower 125 high-polluting school buses with newer, cleaner engines and filters.

San Joaquin Valley Air Pollution Control District-\$4,000,000 to replace 73 school buses model year ranging from 1977 to 1980. \$2,000,000 in funding to repower 30 agricultural off-road vehicles with new engines that meet or exceed EPA's tier 3 emission standards for non-road diesel engines.

State of Arizona Department of Environmental Quality-\$235,200 to retrofit 30 school buses with DOCs and some DPFs/DMFs in Pinal County school district.

DERA Combined Fiscal Years 2009-2010

Region 10 – Pacific Northwest

Alaska Department of Environmental Conservation - \$352,941 to repower older Tier 1 and Tier 2 marine engines.

Cascade Sierra Solutions, OR & WA - \$847,941 to replace 21 trucks with hybrid electric trucks and replace an additional 21 trucks with clean diesel trucks.

Idaho Department of Environmental Quality - \$235,294 to retrofit 202 buses with diesel oxidation catalyst (DOC) and close crank case systems.

Oregon Department of Environmental Quality- \$482,476 to repower engines on 4 pilot launch boats and 1 towboat. \$352,941 to install advanced exhaust controls on 166 refuse hauler trucks used in residential collection services throughout the Portland metropolitan area.

Pacific Northwest Pollution Prevention Resource Center, WA - \$875,972 to outfit 2,058 dry van trailers with advanced trailer side skirts that increase vehicle fuel economy.

Washington State Department of Ecology - \$875,972 to install engine pre-heater and cabin heaters on 230 public school buses in 11 Washington State school districts. \$352,941 to install verified retrofit exhaust control technologies, certified engine rebuild and repower technologies, vehicle and equipment replacement, and idle reduction technologies on 46 publicly and privately owned heavy-duty diesel engines.

Region 9 – Pacific Southwest

Arizona Department of Commerce - \$610,828 to replace 8 heavy-duty trucks with compressed natural gas (CNG) trucks, replace 2 heavy-duty trucks with new clean diesel trucks, replace 2 medium-duty trucks with all-electric trucks, and retrofit 97 trailers and tractors with more fuel efficient tires.

Arizona Department of Environmental Quality - \$235,200 to retrofit 30 school buses with diesel particulate filters (DPFs) in Pinal County school district.

California Air Resources Board (CARB) - \$3,949,496 to repower 4 switch yard locomotives with new Tier 3 engines. \$705,882 to replace 9 heavy-duty dump trucks and 11 wreckers and trash trucks with new vehicles.

Hawaii Department of Health - \$470,400 to replace older diesel-fueled equipment and vehicles owned and operated by Honolulu Board of Water Supply.

Honolulu Clean Cities, HI - \$300,000 to convert 60 paratransit buses from ultra-low sulfur diesel (ULSD) to B20 biodiesel fuel, and to install DPF retrofits on 4 pieces of construction equipment.

Morongo Band of Mission Indians, CA - \$250,000 to retrofit 4 school buses, 1 construction vehicle, 1 utility vehicle, 1 charter bus, and replace 2 school buses with CNG buses.

Nevada Division of Environmental Protection - \$705,882 to install fuel operated heaters on at least 150 school buses operating in 17 different Nevada school districts.

Port of Long Beach (City of Long Beach Harbor Department), CA - \$1,648,035 to repower 3 harbor vessels and 1 piece of cargo-handling equipment, as well as to retrofit 4 pieces of cargo-handling equipment.

Port of Los Angeles (City of Los Angeles Harbor Department), CA - \$1,212,838 for infrastructure needed to connect ocean-going vessels (OGVs) to shore-side power.

Port of San Francisco (San Francisco Port Commission), CA - \$1,000,000 to install a shore-to-ship electrical connection system for berthed cruise ships.

San Joaquin Valley Air Pollution Control District (SJVAPCD), CA - \$1,796,474 to replace approximately 48 on-road heavy-duty trucks with new clean diesel trucks.

Soboba Band of Luiseño Indians, CA - \$78,000 to retrofit 6 school buses with DPFs.

South Coast Air Quality Management District (SCAQMD), CA - \$1,065,465 to replace 43 pre-1994 diesel school buses with CNG powered school buses.

DERA Fiscal Year 2011

Region 10 – Pacific Northwest

Alaska Department of Environmental Conservation – \$188,742 to partner with Alaska Energy Authority and Alaska Village Electric Cooperative, Inc. for the completion of heat recovery projects in four Alaskan villages.

Idaho Department of Environmental Quality – \$189,271 to install fuel-operated heaters on 32 heavy duty diesel school buses.

Makah Tribe of the Makah Indian Reservation – \$750,000 to repower nine uncertified commercial marine vessels to Tier 2 standards.

Oregon Department of Environmental Quality – \$502,522 to repower two auxiliary engines on the dredge *Oregon* to Tier 2 standards. \$286,046 to repower two propulsion engines on the Captain Bob towboat to Tier 2 standards.

Puget Sound Clean Air Agency – \$650,000 to repower the tugboat Eagle with two new Tier 2 propulsion engines and two Tier 3 auxiliary engines.

Tanana Chief Conference – \$59,000 to replace a stationary gen-set engine with a new engine that meets Tier 3 emission standards.

Tulalip Tribe of the Tulalip Reservation – \$576,525 to repower 13 tribal marine vessels with new low- emission engines.

Washington State Department of Ecology – \$400,000 to retrofit 153 privately owned non-road construction equipment and heavy-duty on-road construction trucks with diesel oxidation catalyst. \$288,740 to replace 11 pre-1994 heavy duty diesel school buses to meet or exceed the 2007 on-road emission standards.

Region 9 – Pacific Southwest

American Samoa Power Authority – \$47,117 to fund the cost differential for the purchase of ULSD and use in 19 new diesel generators that provide power to the island.

Bay Area Air Quality Management – \$1,557,987 to replace 43 heavy-duty drayage trucks that operate at various ports around the San Francisco Bay Area.

California Air Resources Board (CARB) – \$317,185 to retrofit 26 heavy duty school buses with certified diesel particulate filters.

Commonwealth of Northern Mariana Island (CNMI) Commonwealth Utilities Corporation – \$47,118 to increase fuel efficiency through replacing fuel pumps and injectors in the Island's diesel power plant generators.

Guam Environmental Protection Agency – \$47,186 to fund the cost differential for their School Bus Retrofit Initiative is the first territory-wide effort to reduce diesel emissions from the government fleet of buses in Guam.

Hawaii Department of Public Health - \$189,000 to assist the Hawaii Department of Transportation with the installation of diesel particulate filters (DPFs) on three Class 7 trucks, and the replacement one Class 8a truck. All projects will occur on Oahu, the most populated island in the State of Hawaii.

Nevada Division of Environmental Protection – \$189,951 to install fuel operated heaters on at least 50 school buses operating in Washoe County.

Port of Long Beach (City of Long Beach Harbor Department), CA – \$2,373,248 to retrofit 35 top handlers with CARB-verified level 3 diesel particulate filters, replace of one yard truck, repower one workboat and one crewboat.

Salt River Pima Maricopa Indian Community – \$150,000 to retrofit seven pieces of heavy-duty equipment with diesel particulate filters.

San Joaquin Valley Air Pollution Control District (SJVAPCD), CA – \$2,000,000 to repower two older locomotives with newer, cleaner engines.