



The West Coast Collaborative is a public-private partnership focused on reducing diesel emissions throughout western North America & U.S. Pacific Islands. The Collaborative seeks to significantly improve air quality & public health by providing funding assistance to upgrade high-polluting diesel engines, vehicles & equipment with cost-effective emission control technologies.

West Coast Collaborative's Diesel Emission Reduction Act Grants & Summary of 2016—2018 Grants

The West Coast Collaborative, through United States Environmental Protection Agency's (EPA) Region's 9 and 10, provides Diesel Emissions Reduction Act (DERA) grants to assist states, cities, tribes and non-profits to reduce diesel emissions under the EPA's Clean Diesel National, State and Tribal Programs. These emission reductions generate significant public health benefits by reducing human exposure to harmful diesel exhaust within affected communities. Further, these clean diesel investments advance new diesel emission reduction technologies and provide domestic economic development opportunities and domestic jobs.

A summary of the Collaborative's total DERA funding, affected engines and emission reductions to date are included below. Additionally, a summary of the 2016—2018 DERA National, State and Tribal projects in the western states and U.S. Pacific Island communities is provided. To learn more about any of these projects, visit the Collaborative's Projects website: westcoastcollaborative.org/projects-list.htm

Total Grant Funding¹: \$374,148,838

EPA DERA Funding = \$142,807,744

Additional Matched & Leveraged Funding = \$231,341,094

Total Diesel Engines Cleaned Up²:

Upgraded or Retrofitted Vehicles & Equipment = 10,400

Total Anticipated Lifetime Emission Reductions³:

Nitrogen Oxides (NO_x) = 44,000 tons

Fine Particulate Matter (PM_{2.5}) = 4,330 tons

Carbon Monoxide (CO) = 2,540 tons

Hydrocarbons (HC) = 10,250 tons

Carbon Dioxide (CO₂) = 650,000 tons

¹ DERA grant data includes fiscal years 2007—2018.

² All old diesel engine upgrade replacement projects must be scrapped or rendered inoperable under the DERA program.

³ Additional reductions have occurred since not all grants have accurately quantified their actual emissions reduced.

Fiscal Year 2018 DERA Grants

Region 9 Pacific Southwest

American Samoa Power Authority- \$102,708 State Program to replace old diesel with four battery-electric trucks and install three electric vehicle charging stations.

Arizona Maricopa County Air Quality Department- \$414,882 State Program to replace: 12 school buses with eight propane and four new diesel buses; and six old with new diesel trucks.

Bay Area Air Quality Management District- \$1,160,311 National Program to replace six material handlers at the Port of Richmond with five new diesel and one battery-electric.

Cajon Valley Union School District- \$1,000,000 National Program to replace five old diesel with battery-electric school buses. Vehicle-to-grid infrastructure will also be provided through other funding sources.

California Air Resources Board- \$435,149 State Program to replace five old diesel school buses with battery-electric.

Hawaii Department of Health- \$411,578 State Program to replace two old diesel transit buses with battery-electric.

Los Angeles World Airports- \$674,865 National Program to replace three diesel shuttle buses with battery-electric buses that transport employees from parking lots to the Los Angeles International Airport.

Nevada Division of Environmental Protection- \$412,457 State Program to replace five old diesel school buses with three battery-electric and two new diesel buses.

Port of Los Angeles- \$824,000 National Program to replace a diesel sweeper with a new diesel engine and four diesel auxiliary engines, two of which are on tugboats, with new engines.

San Joaquin Valley Air Pollution Control District Agricultural Tractors- \$1,578,850 National Program to replace 100 diesel agricultural tractors with new cleaner engines.

San Joaquin Valley Air Pollution Control District Heavy-Duty Trucks- \$2,200,000 National Program to replace 105 heavy-duty trucks with newer diesel engines.

South Coast Air Quality Management District Drayage Trucks- \$1,601,523 National Program to replace 16 diesel drayage with the California Air Resources Board's Optional Low NO_x engine emissions standard of 0.02 g/bhp-hr fueled by natural gas.

South Coast Air Quality Management District Switcher Locomotive- \$719,500 National Program to replace one Tier 2 diesel switcher locomotive operating at the Port of Long Beach with a new locomotive and transfer the Tier 2 to displace a Tier 0 or older locomotive engine located within the Mojave Desert Air Quality Management District.

Region 10 Pacific Northwest

These grants have not yet been awarded. Once they are fully funded, additional details will be posted on the Collaborative's Projects website: westcoastcollaborative.org/projects-list.htm.

National Program

The EPA Region 10 anticipates awarding three DERA National Program fiscal year 2018 grants totaling \$2,216,937. These grants will fund a variety of diesel emission reduction activities involving the retrofit and/or replacement of old diesel-powered vehicles used for short- and long-haul freight, refuse and recycling hauling and school buses with cleaner diesel engines, electric-capable refrigerated truck trailers and propane fueled engines. These projects will be implemented with combined non-EPA matched and leveraged funding exceeding \$4,000,000 by project partners. The total EPA and other partner investments includes \$6,216,937 to fund diesel emission reductions in Region 10. Cumulative emission reductions are expected to exceed 49.9 tons of NO_x, 5.8 tons of PM_{2.5}, 4.8 tons of HC, 20.4 tons of CO and by 2,329 tons of CO₂ over the lifetime of these projects.

State Program

Under the fiscal year 2018 DERA State Program, the EPA Region 10 anticipates awarding four grants totaling \$1,652,162. These grants will fund a variety of diesel emission reductions involving the retrofit and/or replacement of old diesel-powered vehicles used for transit, energy generation and construction. These projects will be implemented with combined non-EPA matched and leveraged funding exceeding \$3,500,000. The total EPA and other partner investments includes over \$5,152,162 to fund diesel emission reductions in Region 10. These investments are projected to reduce diesel emissions of NO_x by 53 tons, PM_{2.5} by 11.5 tons, HC by 17.8 tons, CO by 51.3 tons and CO₂ by 2,390 tons over the lifetime of these projects.

Fiscal Year 2017 DERA Grants

Region 9 Pacific Southwest

American Samoa Power Authority- \$82,960 State Program to replace old diesel-powered stationary generators with a solar powered battery storage energy system on Ofu Island to ensure the Island is operating on 100% renewable energy.

Arizona Maricopa County Air Quality Department- \$372,072 State Program to replace five diesel public works vehicles and six diesel school buses with newer diesel engines.

Bay Area Air Quality Management District- \$639,670 National Program to replace one diesel switcher locomotive with a newer locomotive at the Port of Oakland.

California Air Resources Board- \$573,305 State Program to retrofit 44 old diesel school buses with diesel particulate filters.

City of Phoenix- \$692,252 National Program to replace 17 municipal diesel vehicles with newer diesel vehicles.

Guam Environmental Protection Agency- \$83,637 State Program to replace four diesel public works vehicles with newer diesel vehicles and replace one transit bus with a battery-electric bus.

Hawaii Department of Health- \$339,263 State Program to replace two diesel transit buses with battery-electric.

Nevada Division of Environmental Protection- \$348,002 State Program to replace six diesel vehicles and six diesel school buses with newer diesel engines.

Port of Long Beach- \$2,423,448 National Program to replace 11 diesel marine engines (one of which is on a hybrid tugboat) and three rubber-tired gantry cranes to all-electric engines.

San Joaquin Valley Air Pollution Control District Agricultural Tractors- \$1,239,959 National Program to replace 92 diesel agricultural tractors with new cleaner diesel engines.

San Joaquin Valley Air Pollution Control District Heavy-Duty Trucks- \$1,150,000 National Program to replace 52 heavy-duty trucks with newer diesel engines.

South Coast Air Quality Management District- \$1,050,000 National Program to replace ten diesel 2012 or newer model year engine drayage trucks with the California Air Resources Board's Optional Low NO_x engine emissions standard of 0.02 g/bhp-hr fueled by natural gas. The +2012 trucks will be transferred to Washington State to replace ten 1995-2006 model year engine heavy-duty trucks, which will be scrapped.

Region 10 Pacific Northwest

Alaska Energy Authority- \$335,024 State Program to replace stationary diesel generators with newer, more fuel-efficient diesel engines.

Columbia Corridor Association- \$353,584 National Program to replace ten heavy-duty port drayage trucks with cleaner diesel trucks and scrap two additional trucks.

Idaho Department of Environmental Quality- \$340,614 State Program to replace two school buses with cleaner diesel buses and install retrofit devices that will reduce diesel emissions on ten school buses, eight construction vehicles, eight city government vehicles, 11 agricultural tractors and three private vehicles.

Lummi Tribe- \$781,909 Tribal Program to repower 11 marine fishery vessels with new diesel engines.

Metropolitan Contractor Improvement Partnership- \$648,097 National Program to replace seven diesel trucks (five drayage and two dump trucks), two loaders and one non-road construction equipment with cleaner diesel vehicles and install diesel particulate filters on two diesel trucks.

Oregon Department of Environmental Quality- \$355,373 State Program to replace up to 21 diesel school buses with newer ones.

Puget Sound Clean Air Agency- \$650,000 National Program to replace 12-19 engines on six to eight harbor vessels with cleaner diesel engines.

Tulalip Tribe- \$392,100 Tribal Program to repower eight marine fish vessels with diesel engines.

Washington Department of Ecology- \$249,493 State Program to replace one diesel harbor patrol vessel and seven old school buses with cleaner diesel engines and install verified idle reduction technologies on eight school buses.

Fiscal Year 2016 DERA Grants

Region 9 Pacific Southwest

American Samoa Power Authority- \$70,715 State Program to replace old diesel-powered stationary generators with a solar powered battery storage energy system on Ta'u Island to ensure the Island is operating on 100% renewable energy.

Arizona Maricopa County Air Quality Department- \$217,069 State Program to replace three diesel school buses with cleaner ones and install 19 diesel oxidation catalyst retrofits on diesel public works vehicles.

Bay Area Air Quality Management District- \$1,420,263 National Program to replace three switcher locomotives operating at the Ports of San Francisco and Richmond with new diesel engines.

California Air Resources Board- \$539,412 State Program to retrofit 41 old diesel school buses with diesel particulate filters.

Gila River Indian Community- \$154,000 Tribal Program to replace two school buses with newer cleaner diesel buses.

Hawaii Department of Health- \$194,787 State Program to replace two old diesel transit buses with new diesel engines.

Morongo Band of Mission Indians- \$167,458 Tribal Program to replace one refuse hauler and one dump truck with cleaner diesel vehicles.

Nevada Division of Environmental Protection- \$193,627 State Program to replace three old diesel vehicles with newer vehicles and one nonroad tractor with a cleaner one.

Port of Long Beach- \$1,469,818 National Program to replace five diesel yard tractors with electric automated guided vehicles.

Port of Los Angeles- \$800,000 National Program to replace 16 yard tractors with new diesel engines and repower two heavy lifts with newer diesel engines.

San Joaquin Valley Air Pollution Control District- \$900,000 National Program to replace 41 heavy-duty trucks with newer diesel engines.

South Coast Air Quality Management District- \$523,809 National Program to replace one diesel switcher locomotive operating at the Port of Long Beach with a cleaner diesel engine.

Region 10 Pacific Northwest

Alaska Energy Authority- \$286,241 State Program to replace four stationary diesel generators with newer, more fuel-efficient diesel engines.

Chalkyitsik Village Council- \$212,343 Tribal Program to replace two stationary diesel generators with newer, more fuel-efficient diesel engines.

Columbia Corridor Association- \$572,522 National Program to replace ten heavy-duty trucks with cleaner diesel trucks and install 43 truck stop electrification units for long-haul heavy-duty trucks to shut off their engines and prevent idling.

Confederated Tribes of the Colville Reservation- \$99,290 Tribal Program to install 18 truck stop electrification units for heavy-duty trucks to plug into these zero-emission systems.

Idaho Department of Environmental Quality- \$800,000 State Program to install: diesel particulate filters on 25 construction equipment, city government and private business vehicles; and diesel oxidation catalysts on 19 pieces of construction vehicles, city government vehicles, agricultural tractors and private vehicles.

Lummi Nation- \$300,606 Tribal Program to repower six marine fishery vessels with new diesel engines.

Metropolitan Contractor Improvement Partnership- \$237,673 National Program to: replace four diesel trucks and two non-road construction equipment with cleaner diesel vehicles; repower one non-road diesel excavator with a cleaner diesel engine; and install a diesel particulate filter on a heavy-duty truck.

Oregon Department of Environmental Quality- \$307,862 State Program to replace up to 10 diesel school buses with newer diesel buses.

Puget Sound Clean Air Agency- \$800,000 National Program to replace 29 heavy-duty drayage trucks with cleaner diesel engines.

Washington Department of Ecology- \$327,908 State Program to replace 13 drayage and one yard truck with cleaner diesel engines and install verified idle reduction technologies on 11 school buses.