

New Jersey's Diesel Demonstration Projects

NJDEP's Diesel Risk Reduction Program oversees and helps manage over \$10 million in voluntary demonstration projects to reduce diesel emissions using retrofit technologies such as diesel oxidation catalysts (DOCs), diesel particulate filters (DPFs) and idle reduction technologies. These technologies are being implemented across all diesel sectors including on-road vehicles, off-road construction vehicles, locomotives, and port-related equipment such as cranes and yard hostlers. NJDEP does not have a dedicated source of funding for these projects but does receive grants and settlement funds periodically. Projects funded must comply with applicable public bidding regulations. If you have a project that you think should receive consideration for future funding, please complete the Project Information Form ([link to form](#)) and return to StopTheSoot@dep.state.nj.us.

Ongoing Projects

Camden Retrofits

Using \$210,000 of enforcement settlement funds, NJDEP and the Northeast States for Coordinated Air Use Management (NESCAUM) completed retrofits of 10 on-road vehicles and 7 off-road vehicles with DOCs and DPFs. The vehicles are owned by the Camden County Municipal Utility Authority. An additional \$170,000 is allocated for retrofits of 14-18 vehicles from the County and City of Camden fleets.

Xanadu Construction

As part of a Coastal Area Facilities Review Act (CAFRA) permit for the development of the Xanadu shopping/entertainment complex at the Meadowlands, Jingoli Construction is reducing its diesel emissions by 35% for the duration of construction. 48 pieces of construction equipment have been retrofitted with DOCs, DPFs and closed crankcase ventilation systems.

Truckers Challenge

Using \$750,000 of USEPA grant funds, NJDEP partnered with the N.J. Motor Truck Association to develop a reimbursement program to allow truckers operating in N.J. to purchase Auxiliary Power Units, Bunk Heaters and tailpipe retrofits. The auxiliary power units and bunk heaters reduce emissions by providing heat, air-conditioning and electric power to truckers without the need to idle the main engine, resulting in large savings of fuel and money.

South Jersey Port Retrofits

Funding of \$500,000 from an enforcement settlement is being used to retrofit, re-power or replace cargo-handling equipment at the South Jersey Port in Camden.

N.J. Clean Construction Program for Construction Vehicles

\$600,000 in USEPA Clean Diesel grants will be used to fund retrofits on construction vehicles used in wastewater and drinking water projects funded by the N.J. Environmental Infrastructure Trust.

Completed Projects

Truck Stop Electrification in Paulsboro and Bordentown

Using funds from a variety of sources including enforcement settlements and federal Congestion Mitigation and Air Quality (CMAQ) grants, NJDEP worked with the N.J. Department of Transportation (NJDOT) and the Northeast States for Coordinated Air Use Management (NESCAUM) to bid and install truck stop electrification services at these sites along major highways. Paulsboro includes 98 IdleAire spaces and Bordentown includes 93 spaces. Rather than idling overnight, trucks “hook up” to overhead trusses that provide heat, air-conditioning, internet and related services while reducing emissions and fuel use by approximately 90%. These projects were funded in the amount of \$1.6 million.

Refuse Trucks Retrofitted with Diesel Oxidation Catalysts

Conoco Phillip’s Bayway Refinery funded the \$200,000 purchase and installation of 121 tailpipe retrofits (DOCs) on Waste Management refuse trucks.

NJ Transit Buses Retrofit with Diesel Particulate Filters

Using \$1 million in funds provided as part of an enforcement settlement, NJ Transit purchased and installed 350 diesel particulate filters for its fleet of buses.