

Federal Funding Summary for DERA and ARRA Projects in Ohio to Reduce Diesel Emissions

Diesel Emission Reduction Act (DERA 2019)

In September 2019, US EPA awarded a State Clean Diesel Grant #DS00E66505 to Ohio EPA for \$497,880, to support two projects, one for school bus replacements and one for tugboat engine replacements. Ohio EPA is using \$331,920 from the Volkswagen Mitigation Trust Fund to provide the required state match, to support these and two additional truck replacement projects described below.

Dayton Public Schools, Montgomery County, \$55,050 in DERA state allocation funds toward 25% of the cost to replace 15 model year 2002-2005 diesel school buses with 15 model year 2019-2020 new clean diesel school buses, #V19F-022. This grant is matched with \$275,325 pledged by Ohio EPA from Ohio's allocation from the Volkswagen Mitigation Trust. Contact Terrance Jackson, TJackson@dps.k12.oh.us or 937-542-3000.

Superior Marine Ways, Inc., Lawrence and Scioto Counties, \$442,830 in DERA state allocation funds for 40% of the cost to repower the propulsion and auxiliary engines of two diesel tugboats working Ohio River ports to new clean diesel engines, #V19F-025. Contact Meagan Wood, megbarnes@superiormarineinc.com or 740-894-6224.

Board of Madison Township Trustees, Lake County, \$27,100 in matching funds from Ohio's VW allocation for 25% of the cost to replace one model year 1996 medium duty diesel dump/plow truck with a model year 2019 new clean diesel truck, #V19F-023. Contact: Timothy Brown, tbrown@madisontownship.net or 440-428-7551.

Second Harvest Food Bank of North Central Ohio, Cuyahoga, Erie and Lorain Counties, \$29,495 in matching funds from Ohio's VW allocation, for 25% of the cost to replace one model year 2008 medium duty diesel delivery box truck with a model year 2019 new clean diesel truck, #V19F-024. Contact: Juliana Chase-Morefield, jmorefield@secondharvestfoodbank.org or 440-444-0694.

Diesel Emission Reduction Act (DERA 2017-2018)

In September 2017, USEPA awarded a State Clean Diesel Grant #DS 00E66504 to Ohio EPA for \$405,616, supplemented with an additional \$418,260 in 2018, to support two projects, one for a school bus replacement and one for tug boat replacements.

Madison Local Schools, Lake County, \$19,394 for 25% of the cost to replace one model year 2001 diesel school bus with one model year 2018 clean diesel bus. #D17F-039. This grant is supported with federal DERA funds. Contact Michael Vaccariello, 440-428-9328 or Michael.Vaccariello@madisonschools.net

The Great Lakes Towing Company, Cuyahoga County, \$804,482 for 40% of the engine components to replace eight aging tug boats that have unregulated emissions working Ohio ports on Lake Erie with four new tug boats with Tier 3 emission rated engines, #V17F-001. The new tugs incorporate diesel-electric hybrid technology and can run on batteries when not providing a ship assist service. The federal DERA funds supporting this grant are matched with \$1,427,182.64

pledged by Ohio EPA from Ohio's share of the Volkswagen Mitigation Trust Fund. The project is included in the Ohio's [Beneficiary Mitigation Plan](#) that was filed with the VW Settlement Trustee May 31, 2018. Contact Robert Zadkovich, 216-367-8130 or rjz@thegreatlakesgroup.com



Before



After

Diesel Emission Reduction Act (DERA 2014-2016)

In July 2014, USEPA awarded a State Clean Diesel Grant #DS00E-66503 to Ohio EPA for \$154,722 to retrofit eligible diesel school buses with emission control and idle reduction equipment in 2014-2015. In August 2015, US EPA awarded an additional \$244,031 to Ohio EPA to continue this effort, and in July 2016, an additional \$240,830 to assist school districts with the purchase of new lower emission buses to replace aging diesel buses. The total of \$637,288 in federal funds is matched with a total of \$374,147 in state civil penalty dollars collected by Ohio EPA for pollution violations, and awarded to local school districts for additional retrofits and replacements. These combined funds have been used to retrofit 121 school buses with diesel oxidation catalysts, 10 school buses with diesel particulate filters, and 41 buses with direct-fired heaters for idle reduction. Funds were also used to replace 24 school buses (ten with new propane buses and 14 with new clean diesel buses). These projects are located in 21 different priority counties for improving air quality. These combined projects reduced annual emissions of PM 2.5, NOx, CO, HC and CO2 by an estimated 38 tons, and lifetime emissions by an estimated more than 503 tons.

Alexander Local Schools, Athens County, \$11,708 to install diesel oxidation catalysts (DOCs) on seven buses, #B2015F-001. This grant is supported with federal DERA funds. Contact: Dan Phillips, 740-698-8831 ext. 41 dphillips@alexanderschools.org

Barnesville Exempted Village Schools, Belmont County, \$201,258 to replace 9 older diesel buses with 9 propane fueled 2016 buses. #D16F-028. This grant is supported with federal DERA funds. Contact: John Blattler, 740-425-3615 or john.blattler@bevsn.org

Black River Local Schools, Medina County, \$22,376 to replace one diesel bus with one new clean diesel bus. #D16F-001. This grant is supported with federal DERA funds. Contact Chris Clark, 419-736-3300 x101 or cclark@blackriver.k12.oh.us

Blanchester Local Schools, Clinton County, \$14,823 to install DOCs on nine buses. #2014S-008. This grant is supported with state civil penalties. Contact: Barbara Prater, praterb@blan.org 937-783-3714

Bloom-Vernon Local Schools, Scioto County, \$77,365 to replace four older diesel buses with new diesel buses, #D16F-051. This grant is supported with federal DERA funds. Contact: Adam Howe, adam.howe@mail.bv.k12.oh.us 740-778-2339

Bridgeport Exempted Village Schools, Belmont County, \$9,408 to install DOCs on 6 buses, #B2011S-035. This grant is supported with state civil penalties. Contact: Edward Minor, Ed.minor@omeresanet.net 740-635-0853, ext. 4200

Clear Fork Valley Local Schools, Richland County, \$34,564 to install DOCs and pre-heaters on eight buses, #B2014S-004. This grant is supported with federal DERA funds. Contact: Kelly Stanford stanfordk@clearfork.k12.oh.us , 419-886-3491

Columbus City Schools, Franklin County, \$151,082 to install diesel particulate filters (DPFs) on 10 buses and a filter cleaning system, #B2016F-001, This grant is supported with state civil penalties. Contact: Jeff Vrabel, jvrabelsr@columbus.k12.oh.us 614-365-5263

Dover City Schools, Tuscarawas County, \$19,307 to install DOCs and pre-heaters on five buses, #B2014S-003. This grant is supported with state civil penalties. Contact: Jim Cercone, cerconej@dovertornadoes.com 330-364-1906

James A. Garfield Local Schools, Portage County, \$14,155 to install DOCs on nine buses. #B2016F-004. This grant is supported with state civil penalties. Contact: Brenda Byich, BByich@jagschools.org 330-527-4250

Licking Valley Local Schools, Licking County, \$42,424 to replace two diesel buses with two new clean diesel fueled buses # D16F-004. This grant is supported with a combination of federal DERA funds and state civil penalties. Contact: Mickey Archer, 740 763-3775 or archerm@lickingvalley.k12.oh.us

Lima City Schools, Allen County, \$11,662 to install DOCs on seven buses. #B2015F-008. This grant is supported with federal DERA funds Contact: Randy Crossley, rcrosslely@limacityschools.org 419-996-3454

Maple Heights City Schools, Cuyahoga County, \$33,562 to install DOCs and pre-heaters on 8 buses, #B2015F-006. This grant is supported with federal DERA funds. Contact: Charinita McDonald, Charinita.mcdonald@mapleschools.com 216-510-6412

Minster Local Schools, Auglaize County, \$6,664 to install DOCs on four buses. #B2014S-005. This grant is supported with state civil penalties. Contact: Donald E. Patch, (419) 628-2324, ext. 2039 don.patch@minsterschools.org.

Northern Local Schools, Perry County, \$8,180 to install DOCs and pre-heaters on two buses, #B2014S-006. This grant is supported with federal DERA funds. Contact: Mike Washburn, nomwashburn@seovec.org 740-743-1533

Northwest Local Schools, Stark County, \$22,926 to replace one older diesel bus with a 2016 propane fueled bus. #D16F-006. This grant is supported with federal DERA funds. Contact: Raymond Gesaman, 330-854-3301 or gesaman.r@northwest.sparcc.org

Norwalk City Schools, Huron County, \$14,457 to install DOCs on nine buses. #B2015F-004. This grant is supported with federal DERA funds. Contact: Dustin Brown, brownd@norwalktruckers.net (419) 660-1822

Piqua City Schools, Miami County, \$89,368 to replace four older diesel buses with new diesel buses. #D16F-015. This grant is supported with federal DERA funds. Contact: Curt South, 937-773-4321 or south@piqua.org

River Valley Local Schools, Marion County, \$12,564 to install DOCs and preheaters on 3 buses, #B2015S-002. This grant is supported with federal DERA funds. Contact: Sandra Griscom, sgriscom@rvk12.org 740-725-5410

Seneca East Local Schools, Seneca County, \$6,670 to install DOCs on four buses. #B2015S-01. This grant is supported with federal DERA funds. Contact: Tammy Feasel tfeasel@se-tigers.com

Shawnee Local Schools, Allen County, \$13,346 to install DOCs on eight buses. #B2015F-005. This grant is supported with federal DERA funds. Contact: Mike Wilson, mikew@limashawnee.com 419-998-8052

Springfield Local Schools, Lucas County, \$14,668 to install DOCs on nine buses, #B2015F-003. This grant is supported with federal DERA funds. Contact Nick Liggett, nickliggett@sismail.net 419-867-5612

Streetsboro City Schools, Portage County, \$11,108 to install DOCs on seven buses. #B2016F-02. This grant is supported with state civil penalties. Contact: Beth Kinder, beth@rockets.sparcc.org 330-626-4909

Tuslaw Local Schools, Stark County, \$20,972 to replace one older diesel bus with a 2016 diesel bus. #D16F-063. This grant is supported with federal DERA funds. Contact: Linda Earp, 330-837-7813 or learp@tuslawschools.org

Zane Trace Local Schools, Ross County, \$23,817 to install DOCs on 7 buses and pre-heaters on 6 buses. #B2014S-002. This grant is supported with state civil penalties. Contact: Dustin Britton, dbritton@ztlisd.org 740-775-7287

Zanesville City Schools, Muskingum County, \$34,110 to install DOCs and preheaters on 9 buses, #B2014F-001. This grant is supported with state civil penalties. Contact: Bryan Karling, bkarling@zanesville.k12.oh.us

Diesel Emissions Reduction Act (DERA 2012-2013)

USEPA awarded a State Clean Diesel Grant #DS00E-66502 to Ohio EPA for \$394,152 over two years. These funds were then awarded to a public-private partnership between the Cincinnati Public Schools and First Student, Inc. to pay a portion of the engine component costs to replace 23 model year 1997-2002 diesel school buses with cleaner model year 2013 buses.

<http://www.epa.gov/cleandiesel/prgstate-alloc.htm>

The federal funds were matched with \$283,995.52 in state civil penalties collected by Ohio EPA for violations of Ohio's pollution control laws. These state funds were awarded to seven Ohio school districts to install diesel oxidation catalysts onto 90 school buses to reduce emissions, and direct-fired heaters onto 56 school buses to reduce idling and save fuel. School districts receiving state match funding include Beachwood City Schools, Bellbrook-Sugarcreek Schools, Hamilton Local Schools, Huber Heights City Schools, Mayfield City Schools, Northeastern Local Schools (Clark County), and Perrysburg Exempted Village Schools. Specifics about each project may be found in the alphabetical list of Ohio EPA's Clean School Bus grant awards posted at <http://epa.ohio.gov/Portals/42/documents/AlphabetRecipients.pdf>.

These projects resulted in an annual reduction of more than seven tons of air pollutants from Ohio skies, estimated using USEPA's Diesel Emissions Quantifier (485.0 pounds of fine particulates, 7,581.0 pounds of nitrogen oxides, 1,222.4 pounds of hydrocarbons, and 5,172.4 pounds of carbon monoxide). These benefits are expected to continue every year that the buses remain on the road. Most of these emissions benefits occurred in counties not meeting federal air quality standards for fine particulates, where seven of the eight projects were located.

Diesel Emissions Reduction Act (DERA 2008-2011)

USEPA awarded a State Clean Diesel Grant #DS00E-66501 to Ohio EPA for \$1,294,403 over four years. These federal funds were then awarded to 39 local school districts and county developmental disability programs in Ohio, to install verified emission control equipment (diesel oxidation catalysts, diesel particulate filters, and closed crankcase ventilation systems) onto 435 school buses, and direct fired heaters for idle reduction onto 159 school buses. Seventy-eight percent of the federal funds were spent on school buses operating in counties not meeting federal air quality standards for fine particulates.

<http://www.epa.gov/cleandiesel/prgstate-alloc.htm#2008-2011>

The federal funds were matched with \$1,586,605.57 in state civil penalties collected by Ohio EPA for violations of Ohio's pollution control laws. These state funds were awarded to 45 local school districts and county developmental disability programs, to install emission controls onto 440 school buses and idle reduction equipment onto 336 school buses. Specifics about each project may be found in the alphabetical list of Ohio EPA's Clean School Bus grant awards posted at <http://epa.ohio.gov/Portals/42/documents/AlphabetRecipients.pdf>.

The combined federal and state funds retrofitted 875 school buses with emission controls and 495 with idle reduction equipment, removing nearly 64 tons of air pollution from Ohio skies

each year that these buses remain on the road and reducing the exposure of Ohio schoolchildren, school bus drivers and maintenance workers to the harmful pollutants in diesel exhaust.

American Recovery and Reinvestment Act (ARRA 2009)

Ohio EPA used \$1,730,000 in ARRA funds to award sub-grants to 25 public school districts in Ohio to reduce emissions from diesel school buses. A total of 512 school buses were retrofitted with verified emission control equipment. Verified idle-reduction equipment (direct fired heaters) was also installed onto 82 buses. Of the 512 buses retrofitted, 37 were retrofitted with diesel particulate filters (DPFs), 46 with DPFs with closed crankcase filtration systems, 280 with diesel oxidation catalysts (DOCs) with closed crankcase filtration systems and 146 with DOCs alone.

These projects resulted in an annual reduction of more than 13 tons of air pollutants from Ohio skies, estimated using USEPA's Diesel Emissions Quantifier (1,592.80 pounds of fine particulates, 2,986.0 pounds of nitrogen oxides, 6,098.10 pounds of hydrocarbons, and 15,963.40 pounds of carbon monoxide). Most of these emissions benefits occurred in counties not meeting federal air quality standards for fine particulates, where 24 of the 25 projects were located. Specifics about each project may be found in the alphabetical list of Ohio EPA's Clean School Bus grant awards posted at <http://epa.ohio.gov/Portals/42/documents/AlphabetRecipients.pdf>

The ARRA funds supported 4,123.05 hours of installation work in Ohio by commercial vendors of diesel emission control equipment, for eight jobs retained. This figure does not include additional hours logged by school district personnel and Ohio EPA staff, or by employees at factories where the emission control equipment was manufactured.

The above information summarizes federal grants awarded to Ohio EPA from USEPA, with 100% of the federal funds passed directly to local grant recipients in Ohio. Many local governments, school districts and other entities in Ohio have also applied directly and received funding from USEPA, information at <http://www.epa.gov/cleandiesel/grantfund.htm>, and the US Department of Energy Clean Cities program, information at <http://www1.eere.energy.gov/cleancities/>. Summary information about a wide range of federal and state incentive programs for alternative fuels is compiled at http://www.afdc.energy.gov/laws/fed_summary.

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