



ACHD Diesel Projects

Project	Equipment Retrofitted	Funding Amount & Source	Year
Penn Hills School District	75 School Buses retrofitted with Diesel Oxidation Catalysts	\$185,000 ACHD Clean Air Fund	2005
Deer Lakes School District	10 School Buses; DOCs	\$10,650 ACHD Clean Air Fund	2006
City of Clairton	11 Municipal Vehicles; DOCs	\$135,000 ACHD Clean Air Fund (\$40,000 final cost)	2008
Port Authority of Allegheny County	9 Transit Bus repowers 2 New Hybrid buses	\$1,007,500 EPA ARRA Stimulus	2009
CSXT Transportation	1 Repowered switcher locomotive	\$875,000 EPA ARRA Stimulus	2009
Constructors Association of Western PA	40 Construction Vehicles	\$1,231,939 EPA ARRA Stimulus	2009
Multi Serv Inc.	8 Dump Trucks retrofitted with active DPFs	\$300,500 EPA ARRA Stimulus (\$214,000 final cost)	2009
City of Pittsburgh	33 Refuse Trucks retrofitted with passive DPFs	\$433,000 EPA ARRA Stimulus via the PA DEP (\$311,000 final cost)	2009
"Build it with Clean Diesel" fund - <i>Managed by MARAMA</i>	Construction equipment owned and operated by small businesses in Allegheny County. Four retrofits and 2 engine upgrades.	\$920,000 ACHD Clean Air Fund made available. Approximately \$375,000 spent.	2011 - 2017
Neville Island Clean Diesel	On-road, off-road, and stationary diesel equipment operating in and around Neville Island. 26 pieces of off-road equipment were retrofitted with DPFs.	\$750,000 ACHD Clean Air Fund was made available. \$616,000 was spent.	2014 - 2016
Downtown Diesel Study	Characterizing the Spatial Variation in Diesel Particulate Matter in Downtown Pittsburgh.	\$865,000 ACHD Clean Air Fund was made available to the Graduate School of Public Health.	2014 - 2016



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Project Partner	Equipment Retrofitted	PM Reduced (tpy)	CO Reduced (tpy)	HC Reduced (tpy)	NOx Reduced (tpy)
Penn Hills School District	75 School Buses retrofitted with Diesel Oxidation Catalysts	0.04	0.5	0.22	na
Dear Lakes School District	10 School Buses; DOCs and CCVFs	0.04	0.65	0.19	na
City of Clairton	11 Municipal Vehicles; DOCs	0.01	0.02	0.01	na
Port Authority of Allegheny County	9 Transit Bus repowers 2 New Hybrid buses	0.10	1.5	0.00	4.8
CSXT Transportation*	1 Repowered switcher locomotive	0.50	na	na	16.6
Constructors Association of Western PA	39 Construction Vehicles	9.4	72	11.3	69
Multi Serv Inc.	8 Dump Trucks retrofitted with active DPFs	0.02	0.2	0.03	na
City of Pittsburgh	33 Refuse Trucks retrofitted with passive DPFs	0.09	0.4	0.1	na
Small Business Contractors Retrofit Project	3 Cranes and one Service vehicle retrofitted with DPFs; One tractor and one bulldozer fitted with engine upgrades	0.17	0.9	0.4	1.3
Neville Island Clean Diesel		3.9	13.9	1.8	na
Total		14.1	89.2	13.7	90.4

*The CSXT project also reduced CO2 emissions by 72 tpy.



ACHD Diesel Projects

Non-ACHD Diesel Projects

Project	Project Manager	Equipment Retrofitted	Funding Amount & Source	Year
Pittsburgh Healthy Schools	Group Against Smog and Pollution (GASP), Clean Water Action (CWA)	55 school buses with DPFs and CCVFs	\$600,000 Heinz Endowments, DEP	2004
City of Pittsburgh Waste Haulers	GASP, CWA	15% of City of Pittsburgh waste haulers (remainder completed by ACHD)	\$100,000 EPA	2008

Local Regulations

- **2004:** School Bus Idling Regulation *Article XXI §2105.91*
- **2005:** On-Road Idling Regulation *Article XXI §2105.92*
- **2010:** Off-Road Idling Regulation *Article XXI §2105.93*

Clean Construction

- City of Pittsburgh Clean Air Act of 2011
 - Publicly funded projects budgeted at \$2,500,000 or more must utilize equipment with pollution controls installed
- UPMC
 - Language adopted in 2011 for bid specifications, requiring clean construction equipment on site.