

Utah Clean Diesel Program Accomplishments

Fiscal Year Funding	Project Name	Federal U.S. Environmental Protection Agency Grant Funding	State/Local/Other Funding	Project	Annual Emission Reductions (tons)				Lifetime Emission Reductions (tons)			
					NOx	PM	HC	CO	NOx	PM	HC	CO
					2008	UT Clean School Bus Project	\$2,693,000	\$300,000	Retrofitted over 1,204 diesel school buses with diesel oxidation catalysts (DOC) and closed crankcase ventilation systems on school buses; and Replaced 27 diesel school buses with newer, cleaner models.	0	23.76	65.51
2009	Clean Diesel for Agriculture Project (American Recovery and Reinvestment Act)	\$750,000	\$406,000	Replaced 9 agricultural vehicles and equipment, repowered 22 engines in agricultural vehicles and equipment, and installed 32 auxiliary power units on agricultural vehicles.	18.34	1.96	1.69	6.62	208.06	5.39	3.38	25.72
2009	Utah Clean Trucking Initiative	\$352,941	\$235,294	Install Auxiliary Power Units on 58 long-haul trucks.	15.43	0.3601	0	0	385.7	9.002	0	0
2010	FY10 Utah Clean Diesel Project	\$352,941	\$327,567	Repowered five of North Salt Lake City's diesel maintenance trucks to compressed natural gas (CNG) engines; and Replaced two diesel delivery trucks with new CNG delivery trucks.	4.373	0.1548	0.1148	0.7574	52.84	1.978	1.437	9.313
2011	FY11 State Clean Diesel Project	\$282,458	\$490,066	Replaced an unregulated construction grader with a new, Tier 4 grader; and Replaced a Tier 2 rubber tire loader with a new, Tier 4 rubber tire loader; and Repowered a 1992 box truck to an engine with more stringent emissions standards.	1.503	0.1186	0.1515	0.8585	0	0	0.2373	6.047
2011	FY11 National Clean Diesel Project	\$772,056	\$644,005	Installed of Auxiliary Power Units on 10 long-haul trucks; and Installed engine pre-heaters on 11 school buses; and Retrofitted 13 long-haul trucks with diesel particulate filters; and Retrofitted 12 long-haul trucks with diesel oxidation catalysts, 11 of which were combined with APUs, and three of those combined with aerodynamic kits (trailer skirts); and Replaced one long-haul truck, 13 non-road tractors, and two gensets with newer, cleaner models.	13.363	1.1	0.915	4.836	407.678	29.012	25.015	116.7348
2012	FY12 State Clean Diesel Grant	\$190,119	\$126,746	Retrofitted 24 Utah Department of Transportation (UDOT) snow plows with diesel oxidation catalysts; and Replaced a diesel campus shuttle bus with a new CNG shuttle bus.	0.052	0.03	0.032	0.276	1.508	0.466	0.491	4.475
2013	FY13 State Clean Diesel Grant	\$113,331	\$124,572	Retrofitted 20 UDOT snow plows with diesel oxidation catalysts; and Replaced a diesel short-haul local delivery truck with a new CNG short-haul truck.	0.052	0.023	0.022	0.201	1.508	0.0376	0.373	3.527
2013	FY13 National Clean Diesel Grant	\$488,309	\$181,268	Replaced one diesel short-haul truck with a new CNG short-haul truck, replaced one dumpster/tender with current model year equipment; and Retrofitted 18 Class 8, long-haul trucks with diesel particulate filters, six of which were bundled with idle-reduction technologies-five engine pre-heaters and one APU.	2.01	0.882	0.697	3.52	52.1	18.2	14.5	73.3
2014	FY14 State Clean Diesel Grant and matching CARROT funding	\$122,293	\$81,529	Replaced two diesel school buses with newer, cleaner models; and Retrofitted five UDOT maintenance vehicles and one nonroad piece of equipment with diesel particulate filters; and Retrofitted 14 city/county vehicles with diesel oxidation catalysts.	0.292	0.079	0.199	0.558	0.877	446	1.098	3.115
2014	FY14 National Clean Diesel Grant	\$500,000	\$38,962	Retrofitted two Class 8, long-haul trucks and 25 UDOT maintenance trucks with diesel particulate filters.	0	0.246	0.177	0.892	0	4.344	3.124	15.808
2015	FY15 State Clean Diesel Grant	\$181,789	\$125,000	Replacing two UDOT maintenance trucks and three diesel school buses with newer, cleaner models.	1.128	0.087	0.159	0.381	4.152	0.367	0.601	1.539
2015	FY15 National Clean Diesel Grant	\$500,000	\$1,440,000	Replacing 15 diesel school buses with newer, cleaner models.	2.561	0.064	0.131	0.6	74.27	1.856	3.799	17.4
2016	FY16 State Clean Diesel Grant	\$200,312	\$190,707	Repowering one diesel shuttle bus to all-electric.	0.01	0.001	0.002	0.007	0.083	0.012	0.017	0.056
2016	FY16 National Clean Diesel Grant	\$1,009,814	\$2,223,982	Retrofitting five city/county vehicles with diesel oxidation catalysts as well as five short-haul trucks with a combination of diesel oxidation catalysts and engine pre-heaters for idle-reduction; and Replacing 21 diesel school buses and one refuse hauler with newer, cleaner models; and Installing engine pre-heaters for idle-reduction on 24 school buses.	2.5	0.262	0.563	1.674	10.954	1.114	2.165	6.525
Totals		\$8,509,363	\$6,935,698	Totals	139.194	32.2375	74.113	397.6729	2044.59	585.4378	143.34	5262.3998

In Progress:				Anticipated Emissions Reductions:								
2016	Targeted Air Shed Grant	\$2,477,250	\$2,376,500	Replacing 33 diesel school buses for Cache, Logan, and Provo school districts with newer, cleaner models.	7.025	0.541	1.04	2.197	130.66	10.76	18.618	40.8662
2017-2018	FY17-18 State Clean Diesel Grant	\$760,967	\$2,142,500	Replacing four diesel school buses with electric models.					1.336	0.094	0.264	0.628
2017	FY17 National Clean Diesel Grant	\$2,300,000	\$5,865,750	Replacing 31 diesel school buses and 45 Class 5-8 local deliver trucks with newer, cleaner models.					335	25	42	130
2017	FY17 Targeted Air Shed Grant	\$3,184,875	\$4,747,500	Replacing 61 Class 5-8 diesel delivery trucks in the Logan PM2.5 Nonattainment Area with newer, cleaner models.	5.482	0.514	0.737	2.748	104.158	9.766	14.003	52.212
2018	FY18 National Clean Diesel Grant	\$2,398,599	TBD	Replace 40 Class 8 diesel trucks					135.674	11.698	10.287	42.261
				Replace 43 Class 5-7 diesel trucks					39.393	4.326	6.631	23.444
				Replace 15 Class 8 diesel trucks	4.426	0.368	0.319	1.34	13.277	1.105	0.958	4.02
				Replace 20 Class 5-7 diesel trucks	6.067	0.352	0.531	2.225	18.202	1.057	1.593	6.676
2019	FY19 National Clean Diesel Grant	\$2,400,000	TBD	Replace 13 nonroad 51-300 hp diesel equipment	3.456	0.224	0.101	1.327	10.366	0.673	0.305	3.981
				Replace five nonroad 301+ hp diesel equipment	5.524	0.292	0.089	2.131	16.571	0.877	0.268	6.392
Total Awards In Progress		\$13,521,691	\$15,132,250	Anticipated Emissions Reduction Totals	31.98	2.291	2.817	11.968	804.637	65.356	94.927	310.4802
Grand Totals		\$22,031,054	\$22,067,948	Total Emissions Reductions	171.174	34.5285	76.93	409.6409	2849.227	650.7938	238.26	5572.88