

State of New Jersey

Department of Environmental Protection

CATHERINE R. McCABE Commissioner

PHILIP D. MURPHY Governor

SHEILA Y. OLIVER Lt. Governor

PROJECT SOLICITATION

OVERALL GOAL

The State of New Jersey, as a beneficiary of the Trust established pursuant to the national Volkswagen settlement, intends to use its allocation from the mitigation trust to efficiently implement projects that reduce oxides of nitrogen (NOx) emissions in a cost effective and technically feasible manner. The implemented projects must meet the criteria of the Consent Decree. New Jersey is issuing this solicitation for project ideas to ensure a broad range of project ideas are considered.

Submissions must contain all the information outlined in the "Project Proposals" section of this document.

ELIGIBLE PROJECTS

A general summary is below. Click here for comprehensive list and associated definitions.

Source Category	Emission Reduction Strategy	Allowed Expenditure Amount
1. Class 8 local freight trucks & port drayage trucks	Repower and replacement	Up to 40% for repower with diesel or alternative fuel or up to 75% (up to 100% if government owned) for repower with electric. Electric charging infrastructure costs are eligible expense.
		Up to 25% for replacement with diesel or alternative fuel or up to 75% (up to 100% if government owned) for electric replacement. Electric charging infrastructure costs are eligible expense.
2. Class 4-8 school bus, shuttle bus or transit bus	Repower and replacement	Same as row 1
3. Freight switching locomotives	Repower and replacement	Same as row 1
4. Ferries/Tugs	Repower	Same as row 1
5. Oceangoing vessels	Shorepower	Up to 25% for shore side infrastructure if non- government owned (up to 100% if government owned)

6.	Class 4-7 local freight trucks	Repower and replacement	Same as row 1.
7.	Airport ground support equipment	Repower and replacement	Up to 75% to repower or replace with electric (up to 100% if government owned). Electric charging infrastructure costs are eligible expense.
8.	Forklifts and Port Cargo Handling Equipment	Repower and replacement	Up to 75% to repower or replace with electric (up to 100% if government owned). Electric charging infrastructure costs are eligible expense.
9.	Electric vehicle charging stations or hydrogen fueling stations for light duty vehicles only		Up to 100% to purchase, install and maintain infrastructure if available to public at <i>government</i> <i>owned</i> property. Up to 80% to purchase, install and maintain infrastructure if available to public at <i>non-</i> <i>government owned</i> property. Up to 60% to purchase, install and maintain infrastructure at a workplace or multi-unit dwelling that is not available to the general public. Up to 33% to purchase, install and maintain infrastructure for publicly available hydrogen dispensing that is high volume or up to 25% for lower volume.

PROJECT PROPOSALS (Open with Adobe Reader)

Electronic submittals are preferred and should be sent to VWComments@dep.nj.gov however paper submittals will also be accepted and should be sent to:

NJDEP Division of Air Quality Mail code 401-02E Trenton, NJ 08625-0420 <u>Attn:</u> VW Settlement

All proposals must contain the following information; incomplete applications will not be considered. If your project is selected, you may be contacted for additional detailed information. Send questions to <u>VWComments@dep.nj.gov</u>

To enter information electronically use Adobe Reader

CONTACT	INFORMATION
00111101	

Organization Name	
Organization Address	
City, State Zip Code	
Contact Person	
Title/Position	
Phone	
E-mail	
	1

PROJECT NAME

PROJEC	T CATEC	GORY OR	CATEGO	ORIES (cho	ose from 1-9) in "Eligible	Projects" see	ction above)
1	2	3	4	5	6	7	8	9

PROJECT PRIORITYPriority #ofproposalsIf submitting more than one proposal, what is the sponsor's priority of this proposal?

PROJECT BUDGET

Provide total estimated project budget, include source and amount of cost share if applicable.

PROJECT DESCRIPTION (Briefly describe the project by completing the following questions)

Geographic area where emissions reductions will occur?

Estimated size of population benefitting from the emission reductions?

Estimated useful life of the project?

Number of engines/vehicles/vessels/equipment included in the project?

Estimated emission benefits should be expressed in tons per year (TPY) of emission reduced for NOx and for PM 2.5 over the lifetime of the project. Identify methodology used.

Estimated NOx benefits? TPY Methodology Used? Particulate matter (PM 2.5) benefits? TPY

Methodology Used?

Will the project benefit one or more communities that are disproportionately impacted by air pollution? If so, please describe.

Project partners, if any?

Explain how the project will provide cost effective and technically feasible emission reductions. Cost effectiveness should be expressed in dollars per ton per year of emissions reduced for NOx and for PM 2.5.

Estimated timeframe for implementation? Include a project timeline that identifies start and end dates, as well as the timeframe for key milestones.

Demonstrated success in implementing similar projects?

If your proposed project involves alternative fuels, provide a demonstration of current or future plans to provide adequate refueling infrastructure.

Has your organization been approved to receive and expend any other grant funds related to this project? If so, please provide details.

Please provide any additional information that supports this project.

Two additional pages have been provided as supplemental space to answer any of the questions above.

Supplemental Page 1

Supplemental Page 2



Sysco Corporation Tax Department 1390 Enclave Parkway Houston TX 77077 T 281-584-1390 F 281-584-4126 sysco.com

Sysco Metro New York, LLC Diesel Emission Mitigation Program

Diesel Emission Mitigation Program Proposal Form's Attachments

- 1: Sysco Metro New York Vehicle Information
- 2: Environmental Protection Agency (EPA) Diesel Emission Quantifier Calculation Summary
- 3: EJSCREEN Standard Report
- 4: Short Haul Trucks EPA Quantifier Calculation
- 5: Transit Bus EPA Quantifier Calculation

New Jersey Volkswagen Environmental Mitigation Trust Program Vehicle information Sheet

Recipient Information

Organization Name	First Name	Last Name	Job Title	Address	Office Phone	Fax
				1390 Enclave		
			Director, Tax &	Parkway, Houston		
Sysco Metor New York, LLC	Eddie	Tantoco	Business Incentives	TX 77077	281-584-4097	281-584-4126

Project Information

				Total Estimated	Total Estimated PM (2.5)	Total Estimated
		Number of	Requested Funding	NOx Emission	Emission	CO2 Emission
Project Name	Target Fleet	Vehicles	Amount	Reductions	Reductions	Reductions
	Class 8 heavy duty				97.2% & 0.88	14.8% & 237.4
Sysco Diesel Truck Emission Reduction	trucks	15	\$280,000	91.3% & 13.1 tons	tons	tons

Current Vehicle Information							
Eligible Mitigation Action	Class/ Equipment	Engine Make	Engine Model	Engine Model Year	Vehicle Model	Vehicle Make	Vehicle VIN
Class 8 local freight/port drayage trucks	Class 8	CAT	C13	2005	A9500	STERLING	2FWBA3DE16AU93598
Class 8 local freight/port drayage trucks	Class 8	CAT	C13	2005	A9500	STERLING	2FWBA3DE36AU93599
Class 8 local freight/port drayage trucks	Class 8	CAT	C13	2005	A9500	STERLING	2FWBA3DE36AV86994
Class 8 local freight/port drayage trucks	Class 8	CAT	C13	2005	A9500	STERLING	2FWBA3DE56AV86995
Class 8 local freight/port drayage trucks	Class 8	CAT	C13	2005	A9500	STERLING	2FWBA3DE56AV87001
Class 8 local freight/port drayage trucks	Class 8	CAT	C13	2005	A9500	STERLING	2FWBA3DE76AV87002
Class 8 local freight/port drayage trucks	Class 8	CAT	C13	2005	A9500	STERLING	2FWBA3DE76AV86996
Class 8 local freight/port drayage trucks	Class 8	CUMMINS	ISC	2002	M7500	STERLING	2FWBBYBS72AJ49853
Class 8 local freight/port drayage trucks	Class 8	CUMMINS	ISC	2002	M7500	STERLING	2FWBBYBS73AK88852
Class 8 local freight/port drayage trucks	Class 8	CUMMINS	ISC	2002	M7500	STERLING	2FWBBYBS82AJ49845
Class 8 local freight/port drayage trucks	Class 8	CUMMINS	ISC	2002	M7500	STERLING	2FWBBYBS92AJ49840
Class 8 local freight/port drayage trucks	Class 8	CUMMINS	ISM	2002	AT9500	STERLING	2FWJA3A813AK88854
Class 8 local freight/port drayage trucks	Class 8	CUMMINS	ISM	1999	A9500	STERLING	2FWWHMCB3YAA95020
Class 8 local freight/port drayage trucks	Class 8	CUMMINS	ISM	1999	A9500	STERLING	2FWWHMCB3YAF27458
Class 8 local freight/port drayage trucks	Class 8	CAT	C13	2005	A9500	STERLING	2FWBA3DEXGAU93597

Emission Results and Health Benefits for Project: 2018 Sysco NJ Emission Reduction

Emission Results

Here are the combined results for all groups and upgrades entered for your project.¹

<u>Annual Results (short tons)²</u>	NO _x	PM2.5	HC	СО	CO ₂	Fuel ³
Baseline for Upgraded Vehicles	3.692	0.217	0.226	1.165	380.6	33,834
Amount Reduced After Upgrades	3.399	0.211	0.205	1.080	58.4	5,190
Percent Reduced After Upgrades	92.1%	97.2%	90.9%	92.6%	15.3%	15.3%
Lifetime Results (short tons) ²						
	14.355	0.909	0.923	4.508	1,600.3	142,250
Lifetime Results (short tons) ² Baseline for Upgraded Vehicles Amount Reduced After Upgrades	14.355 13.113	0.909 0.883	0.923 0.836	4.508 4.144	1,600.3 237.4	142,250 21,106

Lifetime Cost Effectiveness (\$/short ton reduced)

Capital Cost Effectiveness ⁴ (unit & labor costs only)	\$118,622	\$1,761,200	\$1,861,325	\$375,348	\$6,551	
Total Cost Effectiveness ⁴ (includes all project costs)	\$21,353	\$317,030	\$335,054	\$67,566	\$1,179	

¹ Emissions from the electrical grid are not included in the results.

² 1 short ton = 2000 lbs.

 3 In gallons; fuels other than ULSD have been converted to ULSD-equivalent gallons.

⁴ Cost effectiveness estimates include only the costs which you have entered.

	2001 Short Haul Truck: Short Haul - Combination Class 8	3 years
	2005 Short Haul Truck: Short Haul - Combination Class 8	5 years
	2005 Short Haul Truck: Short Haul - Combination Class 8	5 years
	2005 Short Haul Truck: Short Haul - Combination Class 8	5 years
	2005 Short Haul Truck : Short Haul - Combination Class 8	5 years
	2002 Short Haul Truck : Short Haul - Combination Class 8	3 years
	2002 Short Haul Truck : Short Haul - Combination Class 8	3 years
<u>Remaining Life</u>	2005 Short Haul Truck: Short Haul - Combination Class 8	5 years
	2001 Short Haul Truck : Short Haul - Combination Class 8	3 years
	2005 Short Haul Truck : Short Haul - Combination Class 8	5 years
	2001 Short Haul Truck : Short Haul - Combination Class 8	3 years
	2005 Short Haul Truck : Short Haul - Combination Class 8	5 years
	2005 Short Haul Truck: Short Haul - Combination Class 8	5 years
	1999 Short Haul Truck : Short Haul - Combination Class 8	3 years
	1999 Short Haul Truck : Short Haul - Combination Class 8	3 years

Sysco Metro New York	12/4/2018	Detailed Report from the Diesel
Sysco Metro New Tork	12/4/2018	Emissions Quantifier

United States Environmental Protection Agency (EPA)

Emission Results Details

Target Fleet	Short Haul -	Short Haul -	Short Haul -	Short Haul -	Short Haul -	Short Haul -	Short Haul -	Short Haul -	Short Haul -	Short Haul -	Short Haul -	Short Haul -	Short Haul -	Short Haul -	Short Haul -
	Combination	Combination	Combination	Combination	Combination	Combination	Combination	Combination	Combination	Combination	Combination	Combination	Combination	Combination	Combination
Class/Equipment	Class 8	Class 8	Class 8	Class 8	Class 8	Class 8	Class 8	Class 8	Class 8	Class 8	Class 8	Class 8	Class 8	Class 8	Class 8
Number of Vehicles	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Model Year	2001	2005	2005	2005	2005	2002	2002	2005	2001	2005	2001	2005	2005	1999	1999
Retrofit Year	2019	2019	2019	2019	2019	2019	2019	2019	2019	2019	2019	2019	2019	2019	2019
	Vehicle	Vehicle	Vehicle	Vehicle	Vehicle	Vehicle	Vehicle	Vehicle	Vehicle	Vehicle	Vehicle	Vehicle	Vehicle	Vehicle	Vehicle
Technology Description	Replacement -	Replacement -	Replacement -	Replacement -	Replacement -	Replacement -	Replacement -	Replacement -	Replacement -	Replacement -	Replacement -	Replacement -	Replacement -	Replacement -	Replacement -
	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel
Fuel Type	ULSD	ULSD	ULSD	ULSD	ULSD	ULSD	ULSD	ULSD	ULSD	ULSD	ULSD	ULSD	ULSD	ULSD	ULSD
Fuel Volume	2012		2061	4258	1723	1920	2681	2305	2447	1925	2382	3189	3072	965	1053
Calculated Fuel Volume	2012	1841	2061	4258	1723	1920	2681	2305	2447	1925	2382	3189	3072	965	1053
Vehicle Miles Traveled/Year		-			-										
(VMT)	10675	15010	14094	29645	16635	20490	16255	13163	15980	30266	13526	14728	19326	7583	7807
Idling Hours/Year	67		127	169	59	121	128	89	99	256	115	41	85	141	68
		127	127	105	33		120	00	55	230	115	1-	00		
Number of Vehicles Retrofitted	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
New Model Year	2019	2019	2019	2019	2019	2019	2019	2019	2019	2019	2019	2019	2019	2019	2019
Unit Cost	\$103,699		\$103,699	\$103,699	\$103,699	\$103,699	\$103,699	\$103,699	\$103,699	\$103,699	\$103,699	\$103,699	\$103,699	\$103,699	\$103,699
Annual Baseline of Vehicles (NOx,	\$105,055	Ş103,0 <i>3</i> ,	\$103,055	\$105,055	\$105,055	\$103,055	\$105,055	Ş103,0 <i>3</i> ,	\$105,055	Ş103,0 <i>3</i> ,	Ş103,055	\$105,055	Ş103,0 <i>3</i> ,	\$103,055	\$105,055
short tons)	0.234120108	0.163119183	0.153656214	0.316973469	0.175593964	0.448067824	0.360977086	0.141628249	0.350243935	0.328906575	0.301837847	0.154751624	0.20504299	0.182411728	0.17449598
Lifetime Baseline of Vehicles	0.234120108	0.103119185	0.133030214	0.310973409	0.175555504	0.448007824	0.300377080	0.141028249	0.330243933	0.328900373	0.301837847	0.134731024	0.20304233	0.182411728	0.17449598
	0 702260225	0.015505015	0.70001000	1.584867346	0.077000000	1 244202472	1 002021250	0 700141247	1 050721005	1 044522070	0.00551254	0 772750121	1 025214051	0 547005400	0.523487941
(NOx, short tons)	0.702360325		0.768281068 88.90%		0.877969822 88.90%	1.344203473 94.60%	1.082931259	0.708141247	1.050731805 94.60%	1.644532876 88.90%	0.90551354 94.60%	0.773758121 88.90%	1.025214951	0.547235183	94.60%
Percent Reduced (NOx, %)	94.60%	88.90%	88.90%	88.90%	88.90%	94.60%	94.60%	88.90%	94.60%	88.90%	94.60%	88.90%	88.90%	94.70%	94.60%
Baseline of Vehicles Retrofitted															
per year (NOx, short tons/year)	0.0044	0.1.631	0 4 5 3 7	0.247	0.4756	0.4404	0.264	0.1.116	0.0500	0.2200	0 2010	0.4540	0.205	0.4024	0 1745
	0.2341	0.1631	0.1537	0.317	0.1756	0.4481	0.361	0.1416	0.3502	0.3289	0.3018	0.1548	0.205	0.1824	0.1745
Amount Reduced per Year(NOx,	0.2245	0.1.15	0.4266	0.2010	0.4564	0 4220	0.2445	0.4350	0 2212	0.0004	0 2055	0.4276	0.4022	0 4 7 9 7	0.4654
short tons)	0.2215	0.145	0.1366	0.2818	0.1561	0.4239	0.3415	0.1259	0.3313	0.2924	0.2855	0.1376	0.1823	0.1727	0.1651
Lifetime Baseline of Vehicles															
Retrofitted (NOx, short tons)	0.7024	0.8156	0.7683	1.5849	0.878	1.3442	1.0829	0.7081	1.0507	1.6445	0.9055	0.7738	1.0252	0.5472	0.5235
Lifetime Amount Reduced (NOx,															
short tons)	0.6644	0.7251	0.683	1.4089	0.7805	1.2716	1.0245	0.6295	0.994	1.462	0.8566	0.6879	0.9114	0.5182	0.4952
Lifetime Amount Emitted After															
Retrofit, Retrofitted Vehicles															
(NOx, short tons)	0.0379	0.0905	0.0853	0.1759	0.0975	0.0726	0.0585	0.0786	0.0567	0.1825	0.0489	0.0859	0.1138	0.029	0.0283
Capital Cost Effectiveness															
(\$/short ton), Retrofitted															
Vehicles (NOx)	156,071.45	143,020.33	151,828.28	73,600.35	132,859.69	81,548.96	101,223.78	164,722.50	104,325.76	70,930.05	121,056.60	150,753.56	113,777.89	200,101.61	209,400.04
Annual Baseline of Vehicles															
(PM2.5, short tons)	0.00996855	0.013001381	0.012286898	0.024844513	0.013576288	0.019048333	0.015472053	0.011173674	0.014907869	0.026215014	0.01297018	0.011905486	0.015940094	0.008133899	0.007504503
Lifetime Baseline of Vehicles															
(PM2.5, short tons)	0.02990565		0.061434491	0.124222564	0.067881439	0.057144998	0.046416159	0.055868372	0.044723607	0.13107507	0.03891054	0.059527432	0.079700471	0.024401697	0.02251351
Percent Reduced (PM2.5, %)	97.40%	97.10%	97.10%	97.10%	97.10%	97.40%	97.40%	97.10%	97.40%	97.10%	97.40%	97.10%	97.10%	97.50%	97.40%
Baseline of Vehicles Retrofitted															
per year (PM2.5, short tons/year)															
	0.01	0.013	0.0123	0.0248	0.0136	0.019	0.0155	0.0112	0.0149	0.0262	0.013	0.0119	0.0159	0.0081	0.0075

Sysco Metro New York	12/4/2018	Detailed Report from the Diesel Emissions Quantifier	
Sysco Metro New York	12/4/2018	•	

United States Environmental Protection Agency (EPA)

Emission Results Details

Target Fleet	Short Haul - Combination	Short Haul - Combination	Short Haul - Combination	Short Haul - Combination	Short Haul - Combination	Short Haul - Combination	Short Haul - Combination	Short Haul - Combination	Short Haul - Combination	Short Haul - Combination	Short Haul - Combination	Short Haul - Combination	Short Haul - Combination	Short Haul - Combination	Short Haul - Combination
Class/Equipment	Class 8		Class 8		Class 8	Class 8		Class 8	Class 8	Class 8	Class 8		Class 8	Class 8	Class 8
· · ·	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Model Year	2001	2005	2005	2005	2005	2002	2002	2005	2001	2005	2001	2005	2005	1999	1999
Retrofit Year	2019	2019	2019	2019	2019	2019	2019	2019	2019	2019	2019	2019	2019	2019	2019
Amount Reduced per		1		1		1	· · · · · ·			1	1	1		1	· / · · · · · · · · · · · · · · · · · ·
Year(PM2.5, short tons)	0.0097	0.0126	0.0119	0.0241	0.0132	0.0186	0.0151	0.0108	0.0145	0.0255	0.0126	0.0116	0.0155	0.0079	0.0073
Lifetime Baseline of Vehicles Retrofitted (PM2.5, short tons)	0.0299	0.065	0.0614	0.1242	0.0679	0.0571	0.0464	0.0559	0.0447	0.1311	0.0389	0.0595	0.0797	0.0244	0.0225
Lifetime Amount Reduced	0.0200			0.12.		0.007 -				0.1311	0.0000		0.0757	0.02	1.0220
(PM2.5, short tons)	0.0291	0.0631	0.0597	0.1206	0.0659	0.0557	0.0452	0.0542	0.0436	0.1273	0.0379	0.0578	0.0774	0.0238	0.0219
Lifetime Amount Emitted After		,													/ / / / /
Retrofit, Retrofitted Vehicles	1	· ·	1	· ·	1		'	1							'
(PM2.5, short tons)	0.0008	0.0019	0.0018	0.0036	0.002	0.0015	0.0012	0.0016	0.0012	0.0038	0.001	0.0017	0.0023	0.0006	0.0006
Capital Cost Effectiveness	1	,		-			,								י [
(\$/short ton), Retrofitted	1	· ·	1	· ·	1		'	1							'
Vehicles (PM2.5)	3,560,101.44	1,642,842.15	1,738,373.42	859,715.69	1,573,273.74	1,863,105.26	2,293,751.72	1,911,566.10	2,380,558.11	814,770.39	2,736,203.26	1,794,065.07	1,339,968.07	4,358,629.18	4,729,033.52
Annual Baseline of Vehicles (HC,		Γ '	ſ	Γ	1		· [· · · · · · · · · · · · · · · · · ·	Ī į	T	Γ	Т	Т	Γ	Т	Γ Ι'
· · · · ·	0.011605744	0.012434403	0.011764819	0.023615987	0.012839298	0.022142592	0.018129885	0.010646734	0.017350451	0.025071656	0.015235663	0.011238053	0.01510575	0.009889608	0.008822422
Lifetime Baseline of Vehicles (HC,															1
short tons)			0.058824093		0.064196491	0.066427775		0.053233672	0.052051354	0.12535828	0.045706989	0.056190263	0.075528751	0.029668824	0.026467265
Percent Reduced (HC, %)	92.40%	89.60%	89.60%	89.60%	89.60%	92.30%	92.40%	89.60%	92.30%	89.60%	92.40%	89.60%	89.60%	92.50%	92.40%
Baseline of Vehicles Retrofitted per year (HC, short tons/year)	0.0116	0.0124	0.0118	0.0236	0.0128	0.0221	0.0181	0.0106	0.0174	0.0251	0.0152	0.0112	0.0151	0.0099	0.0088
Amount Reduced per Year(HC,				,											
	0.0107	0.0111	0.0105	0.0212	0.0115	0.0204	0.0168	0.0095	0.016	0.0225	0.0141	0.0101	0.0135	0.0091	0.0082
Lifetime Baseline of Vehicles	1	· · · ·		-			,					1		1	
Retrofitted (HC, short tons)	0.0348	0.0622	0.0588	0.1181	0.0642	0.0664	0.0544	0.0532	0.0521	0.1254	0.0457	0.0562	0.0755	0.0297	0.0265
Lifetime Amount Reduced (HC,	1	, i i i i i i i i i i i i i i i i i i i		· · ·			· '	1							
/	0.0322	0.0557	0.0527	0.1058	0.0575	0.0613	0.0503	0.0477	0.048	0.1123	0.0422	0.0503	0.0677	0.0274	0.0245
Lifetime Amount Emitted After	1	,	1	· ·	1		'	1							
Retrofit, Retrofitted Vehicles (HC,	-	· '			1		1	1							
	0.0026	0.0065	0.0061	0.0123	0.0067	0.0051	0.0041	0.0055	0.004	0.013	0.0035	0.0058	0.0079	0.0022	0.002
Capital Cost Effectiveness	1	· ·	1	· ·	1		'	1							
(\$/short ton), Retrofitted	2 222 256 73	1 061 526 83	1,967,484.51	980,145.27	1 002 022 05	1 601 200 78	2 062 413 62	2 174 103 11	2 150 111 26	17 222 220	2 4EE 207 21	2 050 707 25	1 522 226 80	2 770 613 80	4 240 270 25
Vehicles (HC) Annual Baseline of Vehicles (CO,	3,223,356.73	1,861,536.83	1,967,484.51	980,145.27	1,802,832.05	1,691,309.78	2,063,413.62	2,174,103.11	2,158,444.26	923,237.71	2,455,387.21	2,059,707.25	1,532,336.89	3,778,613.80	4,240,270.25
short tons)	0.075508503	0.050860383	0.04803401	0.097521	0.053440274	0.144615824	0.116064417	0.043801096	0.112978666	0.102551406	0.096933863	0.046911778	0.062674219	0.057544064	0.056016675
Lifetime Baseline of Vehicles (CO,	-	0.0300000000000000000000000000000000000	0.04003401	0.057521	0.03344027	0.14401302 .	0.11000-1.1.	0.043001030	0.112370000	0.102331.00	0.050555555	0.040311775	0.002077210	0.03734900.	0.030010073
short tons)	0.226525508	0.254301914	0.240170048	0.487604999	0.267201368	0.433847472	0.348193252	0.219005479	0.338935998	0.51275703	0.290801588	0.234558889	0.313371094	0.172632193	0.168050024
	95.10%		89.50%		89.50%	95.10%			95.10%	89.50%	95.00%	89.50%	89.50%	94.80%	95.00%
Baseline of Vehicles Retrofitted per year (CO, short tons/year)	0.0755	0.0509	0.048	0.0975	0.0534	0.1446	0.1161	0.0438	0.113	0.1026	0.0969	0.0469	0.0627	0.0575	0.056
<u>ا</u> ا	0.0755	0.0303	0.040	0.0375	0.0334	0.1440	0.1101	0.0438	0.115	0.1020	0.0909	0.0403	0.0027	0.0373	0.030

Sysco Metro New York	12/4/2018	Detailed Report from the Diesel Emissions Quantifier	
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United States Environmental Protection Agency (EPA)

Emission Results Details

Target Fleet	Short Haul -														
	Combination														
Class/Equipment	Class 8														
Number of Vehicles	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Model Year		2005				2002							2005		1999
Retrofit Year	2019	2019	2019	2019	2019	2019	2019	2019	2019	2019	2019	2019	2019	2019	2019
Amount Reduced per Year(CO,															
short tons)	0.0718	0.0455	0.043	0.0873	0.0478	0.1375	0.1103	0.0392	0.1074	0.0918	0.0921	0.042	0.0561	0.0546	0.0532
Lifetime Baseline of Vehicles															
Retrofitted (CO, short tons)	0.2265	0.2543	0.2402	0.4876	0.2672	0.4338	0.3482	0.219	0.3389	0.5128	0.2908	0.2346	0.3134	0.1726	0.1681
Lifetime Amount Reduced (CO,															
short tons)	0.2154	0.2276	0.215	0.4364	0.2391	0.4126	0.3308	0.196	0.3223	0.4589	0.2763	0.2099	0.2805	0.1637	0.1596
Lifetime Amount Emitted After															
Retrofit, Retrofitted Vehicles (CO,															
short tons)	0.0111	0.0267	0.0252	0.0512	0.0281	0.0213	0.0174	0.023	0.0166	0.0538	0.0145	0.0246	0.0329	0.009	0.0084
Capital Cost Effectiveness															
(\$/short ton), Retrofitted															
Vehicles (CO)	481,367.69	455,619.08	482,428.20	237,620.21	433,623.54	251,337.32	313,495.00	529,049.80	321,718.74	225,964.34	375,365.36	493,968.93	369,736.73	633,642.71	649,549.69
Annual Baseline of Vehicles (CO2,															
short tons)	22.635	20.71125	23.18625	47.9025	19.38375	21.6	30.16125	25.93125	27.52875	21.65625	26.7975	35.87625	34.56	10.85625	11.84625
Lifetime Baseline of Vehicles	c7.005	100 55 605	445 00405	220 5425	0.0 04 075		00 40075	100 05 005	00 50005	100 00105	00.0005	170 00105	172.0	22 5 6 0 7 5	25 52075
(CO2, short tons)		103.55625				64.8			82.58625		80.3925	179.38125	172.8		35.53875
Percent Reduced (CO2, %)	17.20%	18.80%	16.80%	8.10%	20.10%	18.00%	12.90%	15.00%	14.10%	18.00%	14.50%	10.80%	11.30%	35.90%	32.90%
Baseline of Vehicles Retrofitted															
per year (CO2, short tons/year)	22.625	20 7442	22 4062	47.0005	10 2020	24.6	20.4.642	25 0242	27 5207	24 6562	26 7075	25.0762	24.50	10.0563	11.0462
	22.635	20.7113	23.1862	47.9025	19.3838	21.6	30.1613	25.9313	27.5287	21.6563	26.7975	35.8763	34.56	10.8563	11.8462
Amount Reduced per Year(CO2,	2 9025	3.8925	3.8925	3.8925	3.8925	3.8925	3.8925	3.8925	3.8925	3.8925	3.8925	3.8925	3.8925	2 9025	3.8925
short tons)	3.8925	3.8925	3.8925	3.8925	3.8925	3.8925	3.8925	3.8925	5.6925	3.8925	3.8925	3.8925	3.8925	3.8925	3.8925
Lifetime Baseline of Vehicles Retrofitted (CO2, short tons)	67.905	103.5563	115.9312	239.5125	96.9188	64.8	90.4838	129.6563	82.5862	108.2813	80.3925	179.3813	172.8	32.5687	35.5387
Lifetime Amount Reduced (CO2,	07.905	103.3303	115.5512	239.3123	90.9188	04.8	30.4838	129.0505	82.3802	108.2815	80.3923	179.3813	172.0	32.3087	55.5587
short tons)	11.6775	19.4625	19.4625	19.4625	19.4625	11.6775	11.6775	19.4625	11.6775	19.4625	11.6775	19.4625	19.4625	11.6775	11.6775
Lifetime Amount Emitted After	11.0773	13.4023	13.4023	13.4023	13.4023	11.0775	11.0775	13.4023	11.0//5	15.4025	11.0773	13.4023	13.4023	11.0775	11.0775
Retrofit, Retrofitted Vehicles															
(CO2, short tons)	56.2275	84.0938	96.4688	220.05	77.4563	53.1225	78.8063	110.1938	70.9087	88.8188	68.715	159.9188	153.3375	20.8912	23.8612
Capital Cost Effectiveness	50.2275	0.0000	30.4000	220.00		55.1225	, 0.0005	110.1990	, 0.5007	00.0100	00.715	133.3100	100.0070	20.0312	23.3012
(\$/short ton), Retrofitted															
Vehicles (CO2)	8,880.24	5,328.14	5,328.14	5,328.14	5,328.14	8,880.24	8,880.24	5,328.14	8,880.24	5,328.14	8,880.24	5,328.14	5,328.14	8.880.24	8,880.24
Venicies (COZ)	0,000.24	5,520.14	5,520.14	5,520.14	5,520.14	0,000.24	0,000.24	5,520.14	0,000.24	5,520.17	0,000.24	3,320.14	3,320.14	0,000.24	0,000.24

SEPA United States Environmental Protection

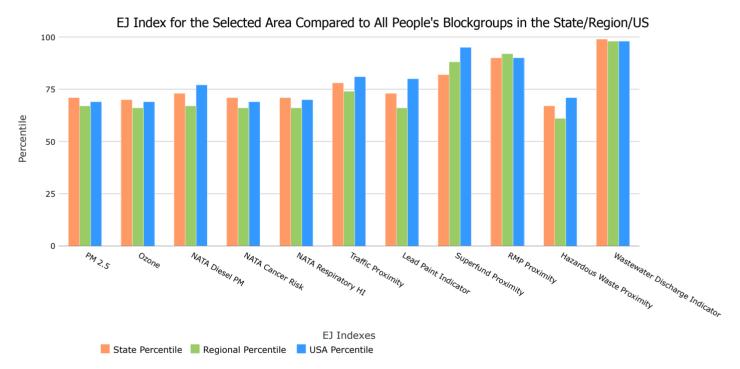


EJSCREEN Report (Version 2018) 4 mile Ring Centered at 40.697744,-74.058657 NEW JERSEY, EPA Region 2 Approximate Population: 631,226

Input Area (sq. miles): 50.26

(The study area contains 33 blockgroup(s) with zero population.)

Selected Variables	Percentile in State	Percentile in EPA Region	Percentile in USA
EJ Indexes			
EJ Index for Particulate Matter (PM 2.5)	71	67	69
EJ Index for Ozone	70	66	69
EJ Index for NATA* Diesel PM	73	67	77
EJ Index for NATA* Air Toxics Cancer Risk	71	66	69
EJ Index for NATA* Respiratory Hazard Index	71	66	70
EJ Index for Traffic Proximity and Volume	78	74	81
EJ Index for Lead Paint Indicator	73	66	80
EJ Index for Superfund Proximity	82	88	95
EJ Index for RMP Proximity	90	92	90
EJ Index for Hazardous Waste Proximity	67	61	71
EJ Index for Wastewater Discharge Indicator	99	98	98



This report shows the values for environmental and demographic indicators and EJSCREEN indexes. It shows environmental and demographic raw data (e.g., the estimated concentration of ozone in the air), and also shows what percentile each raw data value represents. These percentiles provide perspective on how the selected block group or buffer area compares to the entire state, EPA region, or nation. For example, if a given location is at the 95th percentile nationwide, this means that only 5 percent of the US population has a higher block group value than the average person in the location being analyzed. The years for which the data are available, and the methods used, vary across these indicators. Important caveats and uncertainties apply to this screening-level information, so it is essential to understand the limitations on appropriate interpretations and applications of these indicators. Please see EJSCREEN documentation for discussion of these issues before using reports.



Sites reporting to EPA

Superfund NPL

Hazardous Waste Treatment, Storage, and Disposal Facilities (TSDF)

Selected Variables		State Average	Percentile in State	EPA Region Average	Percentile in EPA Region	USA Average	Percentile in USA
Environmental Indicators							
Particulate Matter (PM 2.5 in µg/m ³)	10	9.43	86	9.21	87	9.53	59
Ozone (ppb)	41.4	43.6	7	41.9	34	42.5	40
NATA* Diesel PM (µg/m³)	4.87	1.31	99	1.88	90-95th	0.938	95-100th
NATA* Air Toxics Cancer Risk (risk per MM)	63	42	99	44	80-90th	40	95-100th
NATA* Respiratory Hazard Index	3.8	2.1	95	2.4	80-90th	1.8	95-100th
Traffic Proximity and Volume (daily traffic count/distance to road)	3600	660	96	1800	88	600	96
Lead Paint Indicator (% pre-1960s housing)	0.59	0.41	68	0.51	55	0.29	81
Superfund Proximity (site count/km distance)	0.58	0.43	76	0.28	86	0.12	96
RMP Proximity (facility count/km distance)	1.7	0.71	87	0.57	92	0.72	87
Hazardous Waste Proximity (facility count/km distance)	110	4.9	100	34	89	4.3	99
Wastewater Discharge Indicator (toxicity-weighted concentration/m distance)	3.2	0.66	99	1.1	95	30	97
Demographic Indicators							
Demographic Index	44%	34%	69	37%	64	36%	67
Minority Population	58%	43%	67	44%	65	38%	72
Low Income Population	30%	25%	68	30%	58	34%	-
Linguistically Isolated Population	11%	7%	78	8%	74	4%	85
Population with Less Than High School Education		11%	69	13%	60	13%	
Population under Age 5	7%	6%	63	6%	62	6%	58
Population over Age 64	11%	15%	36	15%	35	14%	38

*The National-Scale Air Toxics Assessment (NATA) is EPA's ongoing, comprehensive evaluation of air toxics in the United States. EPA developed the NATA to prioritize air toxics, emission sources, and locations of interest for further study. It is important to remember that NATA provides broad estimates of health risks over geographic areas of the country, not definitive risks to specific individuals or locations. More information on the NATA analysis can be found at: https://www.epa.gov/national-air-toxics-assessment.

For additional information, see: www.epa.gov/environmentaljustice

EJSCREEN is a screening tool for pre-decisional use only. It can help identify areas that may warrant additional consideration, analysis, or outreach. It does not provide a basis for decisionmaking, but it may help identify potential areas of EJ concern. Users should keep in mind that screening tools are subject to substantial uncertainty in their demographic and environmental data, particularly when looking at small geographic areas. Important caveats and uncertainties apply to this screening-level information, so it is essential to understand the limitations on appropriate interpretations and applications of these indicators. Please see EJSCREEN documentation for discussion of these issues before using reports. This screening tool does not

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provide data on every environmental impact and demographic factor that may be relevant to a particular location. EJSCREEN outputs should be supplemented with additional information and local knowledge before taking any action to address potential EJ concerns.

Attached is the EPA Quantifier detail in reference to "additional information supports our project" regarding Short Haul Truck projects producing 12 times greater emissions reduction than Public Transit Buses

Emission Results and Health Benefits for Project: Short Haul Truck Default

Emission Results

<u>Annual Results (short tons)²</u>	NO _x	PM2.5	нс	CO	CO ₂	Fuel ³
Baseline for Upgraded Vehicles	0.239	0.001	0.005	0.020	60.9	5,415
Amount Reduced After Upgrades	0.203	0.001	0.002	0.009	8.7	774
Percent Reduced After Upgrades	84.7%	42.9%	46.3%	46.7%	14.3%	14.3%
Lifetime Results (short tons) ² Baseline for Upgraded Vehicles	1.914	0.010	0.037	0.158	487.4	,
Baseline for Upgraded Vehicles Amount Reduced After Upgrades	1.914 1.621	0.010	0.037	0.158	487.4 69.7	43,320
Percent Reduced After Upgrades	84.7%	42.9%	46.3%	46.7%	14.3%	14.3%
<u>Lifetime Cost Effectiveness (\$/shor</u>	t ton reduce	<u>d)</u>				
Capital Cost Effectiveness ⁴ (unit & labor costs only)	\$61,325	\$22,284,693	\$5,855,558	\$1,350,564	\$1,427	

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¹ Emissions from the electrical grid are not included in the results.

 2 1 short ton = 2000 lbs.

Total Cost Effectiveness⁴

(includes all project costs)

³ In gallons; fuels other than ULSD have been converted to ULSD-equivalent gallons.

\$15,331

⁴ Cost effectiveness estimates include only the costs which you have entered.

<u>Remaining Life</u>	Short Haul Combo:	Short Haul - Combination	Class 8	8 years
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\$5,571,117 \$1,463,875

\$357

\$337,638

Emission Results and Health Benefits for Project: Public Transit Bus Default

Emission Results

Here are the combined results for all groups and upgrades entered for your project.¹

Annual Results (short tons) ²	NO _x	PM2.5	нс	CO	CO ₂	Fuel ³
Baseline for Upgraded Vehicles	0.243	0.002	0.009	0.034	69.0	6,131
Amount Reduced After Upgrades	0.194	0.001	0.005	0.020	11.5	1,022
Percent Reduced After Upgrades	79.7%	48.8%	58.3%	58.3%	16.7%	16.7%
<i>Lifetime Results (short tons)</i> ² Baseline for Upgraded Vehicles	1.944	0.013	0.068	0.271	551.8	49,048
Amount Reduced After Upgrades	1.549	0.006	0.040	0.158	92.0	8,176
Percent Reduced After Upgrades	79.7%	48.8%	58.3%	58.3%	16.7%	16.7%
Lifetime Cost Effectiveness (\$/shore	rt ton reduce	<u>rd)</u>				
Capital Cost Effectiveness ⁴ (unit & labor costs only)	\$193,644	\$48,006,646	\$7,565,344	\$1,899,689	\$3,262	
Total Cost Effectiveness ⁴ (includes all project costs)	\$193,644	\$48,006,646	\$7,565,344	\$1,899,689	\$3,262	

¹ Emissions from the electrical grid are not included in the results.

² 1 short ton = 2000 lbs.

³ In gallons; fuels other than ULSD have been converted to ULSD-equivalent gallons.

⁴ Cost effectiveness estimates include only the costs which you have entered.

<u>Remaining Life</u>	Transit Bus: Transit Bus Transit Buses	8 years
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