

PHILIP D. MURPHY
Governor

Department of Environmental Protection

CATHERINE R. McCABE

Commissioner

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)

	Class 4-7 local freight trucks	Repower and replacement	Same as row 1.
s	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.
(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.
f	Electric vehicle charging stations or hydrogen fueling stations for light duty wehicles only		Up to 100% to purchase, install and maintain infrastructure if available to public at <i>government owned</i> property. Up to 80% to purchase, install and maintain infrastructure if available to public at <i>non-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 Attn: VW Settlement

To enter information electronically use Adobe Reader

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

PROJECT NAME

PROJECT CATEGORY OR CATEGORIES (choose from 1-9 in "Eligible Projects" section above)

1 2 3 4 5 6 7 8 9

PROJECT PRIORITY Priority # of proposals

If 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? Please see narrative

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.

reduction	now the project will provide cost effective and technically feasible emission as. Cost effectiveness should be expressed in dollars per ton per year of emissions for NOx and for PM 2.5.
	d timeframe for implementation? Include a project timeline that identifies start and a, as well as the timeframe for key milestones.
Demonst	rated success in implementing similar projects?
	roposed project involves alternative fuels, provide a demonstration of current or ans to provide adequate refueling infrastructure.
•	organization been approved to receive and expend any other grant funds related to ect? If so, please provide details.
Please pr	ovide any additional information that supports this project.

Supplemental Page 1	

Supplemental Page 2	

Fleet Spreadsheet

See Attached

United Airlines, Inc.

Volkswagen Mitigation Trust Fund New Jersey Project Proposal

Existing				Replacement				DEQ Tool Information					
Number	Location	Equipment Type	Model Year Submittal	Replacement Model Year	Replacement Fuel Type	Rej	placement Cost	Fundir	ng Request	Annual NOx Reductions	Annual PM2.5 Reductions	Total Cost Effectiveness (NOx)	Total Cost Effectiveness (PM 2.5)
1	EWR	Pushback Tractor	1995-1999	2019	All-Electric	\$	190,000	\$	142,500	0.822	0.106	\$ 173,442	\$ 1,348,632
2	EWR	Utility Loader	1995-1999	2019	All-Electric	\$	128,000	\$	96,000	0.461	0.041	\$ 208,234	\$ 2,317,269
3	EWR	Utility Loader	1995-1999	2019	All-Electric	\$	128,000	\$	96,000	0.461	0.041	\$ 208,234	\$ 2,317,269
4	EWR	Forklift	Pre-1990	2019	All-Electric	\$	68,000	\$	51,000	0.639	0.320	\$ 79,828	\$ 159,184
5	EWR	Pushback Tractor	1995-1999	2019	All-Electric	\$	180,000	\$	135,000	0.816	0.099	\$ 27,580	\$ 227,287
6	EWR	Pushback Tractor	1995-1999	2019	All-Electric	\$	180,000	\$	135,000	0.816	0.099	\$ 27,580	\$ 227,287
7	EWR EWR	Pushback Tractor	1995-1999 1995-1999	2019 2019	All-Electric	\$	180,000 180,000	\$	135,000	0.816	0.099	\$ 27,580 \$ 27,580	
<u>8</u> 9	EWR	Pushback Tractor Pushback Tractor	1995-1999	2019	All-Electric All-Electric	\$	180,000	\$	135,000 135,000	0.816 0.816	0.099 0.099	\$ 27,580 \$ 27,580	\$ 227,287 \$ 227,287
10	EWR	Pushback Tractor	1995-1999	2019	All-Electric	\$	180,000	\$	135,000	0.816	0.099	\$ 27,580	\$ 227,287
11	EWR	Towbarless Tractor	2000 or newer	2019	All-Electric	\$	438,995	\$	329,246	0.813	0.096	\$ 405,013	\$ 3,441,856
12	EWR	Cargo Tractor	1995-1999	2019	All-Electric	\$	180,000	\$	135,000	0.819	0.102	\$ 54,965	\$ 439,761
13	EWR	Cargo Tractor	1995-1999	2019	All-Electric	\$	180,000	\$	135,000	0.819	0.102	\$ 54,965	\$ 439,761
14	EWR	Cargo Tractor	1995-1999	2019	All-Electric	\$	180,000	\$	135,000	0.819	0.102	\$ 54,965	\$ 439,761
15	EWR	Ground Power Unit	1995-1999	2019	All-Electric	\$	69,951	\$	52,463	0.464	0.045	\$ 113,076	\$ 1,170,517
16	EWR	Ground Power Unit	1995-1999	2019	All-Electric	\$	69,951	\$	52,463	0.819	0.103	\$ 32,040	\$ 256,347
17	EWR	Ground Power Unit	1995-1999	2019	All-Electric	\$	100,467	\$	75,350	0.819	0.103	\$ 32,040	
18	EWR	Ground Power Unit	1995-1999	2019	All-Electric	\$	69,951	\$	52,463	0.816	0.099	\$ 32,154	\$ 264,981
19	EWR	Ground Power Unit	1990-1994	2019	All-Electric	\$	69,951	\$	52,463	0.816	0.099	\$ 32,154	\$ 264,981
20	EWR	Ground Power Unit	1995-1999	2019	All-Electric	\$	69,951	\$	52,463	1.248	0.192	\$ 42,054	\$ 273,801
21	EWR	Ground Power Unit	1995-1999	2019	All-Electric	\$	69,951	\$	52,463	0.816	0.099	\$ 92,361	\$ 761,158
22	EWR	Cargo Tractor	Pre-1990	2019	All-Electric	\$	52,837	\$	39,628	1.274	0.224	\$ 31,115	\$ 177,292
23	EWR	Cargo Tractor	Pre-1990	2019	All-Electric	\$	52,837	\$	39,628	1.308	0.266	\$ 30,288	\$ 148,946
24	EWR	Cargo Tractor	Pre-1990	2019	All-Electric	\$	52,837	\$	39,628	1.326	0.287	\$ 29,891	\$ 137,921
25	EWR	Belt Loader	2000 or newer	2019	All-Electric	\$	57,540	\$	43,155	0.460	0.040	\$ 22,229	\$ 253,770
26	EWR	Belt Loader	2000 or newer	2019	All-Electric	\$	57,540	\$	43,155	0.460	0.040	\$ 22,229	\$ 253,770
27	EWR	Belt Loader	2000 or newer	2019	All-Electric	\$	57,540	\$	43,155	0.460	0.040	\$ 22,229	\$ 253,770
28 29	EWR EWR	Belt Loader	2000 or newer	2019	All-Electric	\$	57,540 89,300	\$	43,155	0.460	0.040	\$ 22,229 \$ 48,528	\$ 253,770
30	EWR	Freight Tractor Freight Tractor	2000 or newer 2000 or newer	2019 2019	All-Electric All-Electric	\$	89,300	\$	66,975 66,975	0.460 0.460	0.040 0.040	\$ 48,528 \$ 48,528	\$ 554,007 \$ 554,007
31	EWR	Freight Tractor	2000 of flewer	2019	All-Electric	\$	89,300	\$	66,975	0.460	0.040	\$ 48,528	\$ 554,007
32	EWR	Cargo Loader	2000 or newer	2019	All-Electric	\$	374,000	\$	280,500	0.460	0.040	\$ 667,334	\$ 7,618,373
33	EWR	Freight Tractor	2000 or newer	2019	All-Electric	\$	89,300	\$	66,975	0.813	0.096	\$ 82,387	\$ 700,140
34	EWR	Belt Loader	1995-1999	2019	All-Electric	\$	57,540	\$	43,155	0.461	0.041	\$ 9,859	\$ 987,374
35	EWR	Belt Loader	1995-1999	2019	All-Electric	\$	57,540	\$	43,155	0.461	0.041	\$ 9,859	\$ 109,708
36	EWR	Belt Loader	1995-1999	2019	All-Electric	\$	57,540	\$	43,155	0.461	0.041	\$ 9,859	\$ 109,708
37	EWR	Belt Loader	1995-1999	2019	All-Electric	\$	57,540	\$	43,155	0.461	0.041	\$ 9,859	
38	EWR	Belt Loader	1995-1999	2019	All-Electric	\$	57,540	\$	43,155	0.461	0.041	\$ 9,859	\$ 109,708
39	EWR	Belt Loader	1995-1999	2019	All-Electric	\$	57,540	\$	43,155	0.461	0.041	\$ 9,859	\$ 109,708
40	EWR	Belt Loader	1995-1999	2019	All-Electric	\$	57,540	\$	43,155	0.461	0.041	\$ 9,859	\$ 109,708
41	EWR	Belt Loader	1995-1999	2019	All-Electric	\$	57,540	\$	43,155	0.461	0.041	\$ 9,859	\$ 109,708
42	EWR	Belt Loader	1995-1999	2019	All-Electric	\$	57,540	\$	43,155	0.461	0.041	\$ 9,859	\$ 109,708
43	EWR	High-Speed Tractor	1995-1999	2019	All-Electric	\$	54,000	\$	40,500	0.819	0.103	\$ 24,459	\$ 195,694

United Airlines, Inc.

Volkswagen Mitigation Trust Fund New Jersey Project Proposal

		Existing			Replacement					DEQ Tool Information				
			Model Year	Replacement	Replacement	Repla	acement	Fundir	ng Request	Annual NOx	Annual	Total Cost	Total Cost	
Number	Location	Equipment Type	Submittal	Model Year	Fuel Type		Cost		.gqa.cc.	Reductions	PM2.5	Effectiveness	Effectiveness	
											Reductions	(NOx)	(PM 2.5)	
44	EWR	High-Speed Tractor	1995-1999	2019	All-Electric	\$	54,000	\$	40,500	0.819	0.103	\$ 24,459	\$ 195,694	
45	EWR	Cargo Tractor	1995-1999	2019	All-Electric	\$	50,179	\$	37,634	0.822	0.106	\$ 6,544	\$ 50,882	
46	EWR	Cargo Tractor	1995-1999	2019	All-Electric	\$	50,179	\$	37,634	0.822	0.106	\$ 6,544	\$ 50,882	
47	EWR	Cargo Tractor	1995-1999	2019	All-Electric	\$	50,179	\$	37,634	0.822	0.106	\$ 6,544	\$ 50,882	
48	EWR	Cargo Tractor	1995-1999	2019	All-Electric	\$	50,179	\$	37,634	0.822	0.106	\$ 6,544		
49	EWR	Cargo Tractor	1995-1999	2019	All-Electric	\$	50,179	\$	37,634	0.822	0.106	\$ 6,544	\$ 50,882	
50	EWR	Cargo Tractor	1995-1999	2019	All-Electric	\$	50,179	\$	37,634	0.822	0.106	\$ 6,544		
51	EWR	Cargo Tractor	1995-1999	2019	All-Electric	\$	50,179	\$	37,634	0.822	0.106	\$ 6,544	\$ 50,882	
52	EWR	Cargo Tractor	1995-1999	2019	All-Electric	\$	52,837	\$	39,628	0.822	0.106	\$ 12,058	\$ 93,760	
53	EWR	Cargo Tractor	1995-1999	2019	All-Electric	\$	52,837	\$	39,628	0.822	0.106	\$ 12,058		
54	EWR	Cargo Tractor	1995-1999	2019	All-Electric	\$	52,837	\$	39,628	0.822	0.106	\$ 12,058	\$ 93,760	
55	EWR	Cargo Tractor	1995-1999	2019	All-Electric	\$	52,837	\$	39,628	0.822	0.106	\$ 12,058	\$ 93,760	
56	EWR	Cargo Tractor	1995-1999	2019	All-Electric	\$	52,837	\$	39,628	0.825	0.109	\$ 8,010		
57	EWR	Cargo Tractor	1995-1999	2019	All-Electric	\$	52,837	\$	39,628	0.825	0.109	\$ 8,010	\$ 60,593	
58	EWR	Cargo Tractor	1995-1999	2019	All-Electric	\$	52,837	\$	39,628	0.825	0.109	\$ 8,010	\$ 60,593	
59	EWR	Cargo Tractor	1995-1999	2019	All-Electric	\$	52,837	\$	39,628	0.825	0.109	\$ 8,010		
60	EWR	Cargo Tractor	1995-1999	2019	All-Electric	\$	52,837	\$	39,628	0.825	0.109	\$ 8,010	\$ 60,593	
61	EWR	Cargo Tractor	1995-1999	2019	All-Electric	\$	52,837	\$	39,628	0.825	0.109	\$ 8,010		
62	EWR	Cargo Tractor	1990-1994	2019	All-Electric	\$	52,837	\$	39,628	1.248	0.192	\$ 3,971	\$ 25,851	
63	EWR	Cargo Tractor	1990-1994	2019	All-Electric	\$	52,837	\$	39,628	1.248	0.192	\$ 3,971	\$ 25,851	
64	EWR	Cargo Tractor	1990-1994	2019	All-Electric	\$	52,837	\$	39,628	1.248	0.192	\$ 3,971	\$ 25,851	
65	EWR	Cargo Tractor	1990-1994	2019	All-Electric	\$	52,837	\$	39,628	1.248	0.192	\$ 3,971	\$ 25,851	
66	EWR	Cargo Tractor	1990-1994	2019	All-Electric	\$	52,837	\$	39,628	1.248	0.192	\$ 3,971	\$ 25,851	
67	EWR	Cargo Tractor	1990-1994	2019	All-Electric	\$	52,837	\$	39,628	1.248	0.192	\$ 3,971	\$ 25,851	
68	EWR	Cargo Tractor	1990-1994	2019	All-Electric	\$	52,837	\$	39,628	1.248	0.192	\$ 3,971	\$ 25,851	
69	EWR	Cargo Tractor	1990-1994	2019	All-Electric	\$	52,837	\$	39,628	1.248	0.192	\$ 3,971	\$ 25,851	
70	EWR	Cargo Tractor	Pre-1990	2019	All-Electric	\$	52,837	\$	39,628	0.819	0.102	\$ 48,402	\$ 387,254	
71	EWR	Cargo Tractor	Pre-1990	2019	All-Electric	\$	52,837	\$	39,628	1.287	0.240	\$ 7,700	\$ 41,371	
72	EWR	Cargo Tractor	Pre-1990	2019	All-Electric	\$	52,837	\$	39,628	1.287	0.240	\$ 7,700	\$ 41,371	
73	EWR	Cargo Tractor	Pre-1990	2019	All-Electric	\$	52,837	\$	39,628	1.287	0.240	\$ 7,700	\$ 41,371	
74	EWR	Cargo Tractor	Pre-1990	2019	All-Electric	\$	52,837	\$	39,628	1.287	0.240	\$ 7,700		
75	EWR	Cargo Tractor	Pre-1990	2019	All-Electric	\$	52,837	\$	39,628	1.282	0.234	\$ 30,904	\$ 169,240	
76	EWR	Cargo Tractor	Pre-1990	2019	All-Electric	\$	52,837	\$	39,628	1.291	0.245	\$ 30,696	\$ 161,888	
77	EWR	Forklift	1995-1999	2019	All-Electric	\$	205,000	\$	153,750	0.463	0.044	\$ 332,087	\$ 3,519,145	
78	EWR	Utility Loader	1995-1999	2019	All-Electric	\$	128,000	\$	96,000	0.461	0.041	\$ 208,234	\$ 2,317,269	

Total: \$ 6,844,077 \$ 5,133,058 63.96 8.991 \$ 80,258 \$ 570,911