

Air Quality, Energy and Greenhouse Gases

APPENDIX I

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Appendix I. Air Quality, Energy, and Greenhouse Gases

I.1 ASSUMPTIONS AND EMISSION RATES

Table I-1. 2025 No Build Daily Total Auto Vehicle Miles Traveled

	New York NY	Bronx NY	The Rest of NYC	Westchester NY	Suburban CT
NEW YORK NY	907,818	143,631	580,397	290,109	702,868
QUEENS NY	1,541,080	407,473	10,717,871	285,973	900,677
BRONX NY	1,073,306	1,781,437	794,034	570,091	612,525
KINGS NY	1,026,527	157,452	6,016,769	180,028	667,167
RICHMOND NY	641,290	62,790	3,385,429	59,570	297,955
NASSAU NY	2,477,113	506,638	4,627,430	407,657	748,879
SUFFOLK NY	1,886,573	974,726	3,424,672	244,608	958,278
WESTCHESTER NY	2,371,899	1,456,011	1,066,896	12,335,610	1,356,832
ROCKLAND NY	1,077,628	327,408	607,439	717,203	224,356
PUTNAM NY	584,908	378,059	214,147	1,412,463	510,561
ORANGE NY	1,786,423	532,439	1,012,879	665,903	238,114
DUTCHESS NY	837,867	367,037	1,001,415	2,119,681	648,341
FAIRFIELD CT	1,369,442	378,671	1,225,183	1,062,801	14,818,592
BERGEN NJ	2,931,063	447,610	650,167	324,404	0
PASSAIC NJ	712,329	86,906	247,503	67,209	0
HUDSON NJ	1,142,143	144,429	578,982	147,015	0
ESSEX NJ	1,591,951	153,741	737,741	80,558	0
UNION NJ	1,004,723	60,415	498,385	12,481	0
MORRIS NJ	1,317,441	101,354	293,037	159,975	0
SOMERSET NJ	1,073,367	87,910	280,194	1,779	0
MIDDLESEX NJ	3,209,120	128,489	1,273,539	152,796	0
MONMOUTH NJ	3,647,254	92,593	1,646,103	32,866	0
OCEAN NJ	908,827	173,719	900,012	2,277	0
HUNTERDON NJ	345,000	849	69,095	5,062	0
WARREN NJ	241,540	0	36,104	8,854	0
SUSSEX NJ	378,638	60,016	38,499	6,593	0
NEW HAVEN CT	663,854	182,893	884,939	181,935	13,365,683
MERCER NJ	988,525	44,647	197,833	81,042	0
Total	37,737,647	9,239,343	43,006,692	21,616,543	36,050,828

Note: "New York, NY" refers to Manhattan and "The Rest of NYC" refers to Queens, Brooklyn (Kings County), and Staten Island (Richmond County); Suburban CT – to New Haven and Fairfield Co.

Table I-2. 2025 Build Daily Total Auto Vehicle Miles Traveled

	New York NY	Bronx NY	The Rest of NYC	Westchester NY	Suburban CT
NEW YORK NY	907,818	143,551	580,397	289,398	702,364
QUEENS NY	1,541,080	407,417	10,717,871	285,454	899,923
BRONX NY	1,069,680	1,783,804	792,864	565,364	596,375
KINGS NY	1,026,527	156,747	6,016,769	180,090	667,269
RICHMOND NY	641,290	62,705	3,385,429	59,567	297,955
NASSAU NY	2,477,113	506,595	4,627,430	407,656	748,887
SUFFOLK NY	1,886,573	974,741	3,424,672	244,606	958,224
WESTCHESTER NY	2,356,215	1,453,917	1,065,136	12,334,840	1,355,753
ROCKLAND NY	1,077,628	327,308	607,439	717,203	224,355
PUTNAM NY	584,908	378,060	214,147	1,412,461	510,559
ORANGE NY	1,786,423	532,449	1,012,879	665,901	238,114
DUTCHESS NY	837,867	367,036	1,001,415	2,119,677	648,340
FAIRFIELD CT	1,374,465	375,792	1,224,221	1,061,605	14,811,485
BERGEN NJ	2,931,063	446,913	650,167	324,407	0
PASSAIC NJ	712,329	86,866	247,503	67,206	0
HUDSON NJ	1,142,143	142,596	578,982	146,891	0
ESSEX NJ	1,591,951	152,811	737,741	80,429	0
UNION NJ	1,004,723	60,345	498,385	12,473	0
MORRIS NJ	1,317,441	101,365	293,037	159,933	0
SOMERSET NJ	1,073,367	87,818	280,194	1,779	0
MIDDLESEX NJ	3,209,120	127,343	1,273,539	152,278	0
MONMOUTH NJ	3,647,254	92,419	1,646,103	32,825	0
OCEAN NJ	908,827	173,734	900,012	2,277	0
HUNTERDON NJ	345,000	849	69,095	5,062	0
WARREN NJ	241,540	0	36,104	8,854	0
SUSSEX NJ	378,638	59,890	38,499	6,593	0
NEW HAVEN CT	651,202	181,846	881,589	181,562	13,363,405
MERCER NJ	988,525	44,652	197,833	80,806	0
Total	37,710,708	9,229,569	42,999,452	21,607,200	36,023,008

Note: "New York, NY" refers to Manhattan and "The Rest of NYC" refers to Queens, Brooklyn (Kings County), and Staten Island (Richmond County); Suburban CT – to New Haven and Fairfield Co.



Table I-3. 2025 Build-No Build Daily Total Auto Vehicle Miles Traveled

	New York NY	Bronx NY	The Rest of NYC	Westchester NY	Suburban CT
NEW YORK NY	0	-80	0	-711	-504
QUEENS NY	0	-56	0	-519	-754
BRONX NY	-3,627	2,367	-1,170	-4,726	-16,150
KINGS NY	0	-705	0	62	101
RICHMOND NY	0	-84	0	-3	0
NASSAU NY	0	-43	0	-1	8
SUFFOLK NY	0	16	0	-1	-54
WESTCHESTER NY	-15,684	-2,095	-1,760	-770	-1,079
ROCKLAND NY	0	-100	0	0	0
PUTNAM NY	0	0	0	-2	-2
ORANGE NY	0	11	0	-2	0
DUTCHESS NY	0	-1	0	-3	-1
FAIRFIELD CT	5,023	-2,879	-962	-1,196	-7,107
BERGEN NJ	0	-697	0	2	0
PASSAIC NJ	0	-39	0	-3	0
HUDSON NJ	0	-1,833	0	-125	0
ESSEX NJ	0	-930	0	-129	0
UNION NJ	0	-70	0	-8	0
MORRIS NJ	0	11	0	-42	0
SOMERSET NJ	0	-93	0	0	0
MIDDLESEX NJ	0	-1,146	0	-518	0
MONMOUTH NJ	0	-174	0	-41	0
OCEAN NJ	0	15	0	0	0
HUNTERDON NJ	0	0	0	0	0
WARREN NJ	0	0	0	0	0
SUSSEX NJ	0	-126	0	0	0
NEW HAVEN CT	-12,652	-1,047	-3,349	-372	-2,278
MERCER NJ	0	5	0	-235	0
Total	-26,939	-9,774	-7,240	-9,344	-27,820

Note: "New York, NY" refers to Manhattan and "The Rest of NYC" refers to Queens, Brooklyn (Kings County), and Staten Island (Richmond County); Suburban CT – to New Haven and Fairfield Co.



Table I-4. MOVES Emission Rates for New York County

Pollutant ID	Pollutant	Emission Rate	Units
2	CO	2.547327	Grams/Mile
3	NOx	0.284682	Grams/Mile
87	VOC	0.092719	Grams/Mile
91	Total Energy	0.007919	mmBtu/Mile
98	CO ₂ Equivalent	606.3553	Grams/Mile
100	PM ₁₀	0.123217	Grams/Mile
110	PM _{2.5}	0.024270	Grams/Mile

Table I-5. MOVES Emission Rates for Queens County

Pollutant ID	Pollutant	Emission Rate	Units
2	CO	2.67197	Grams/Mile
3	NOx	0.259107	Grams/Mile
87	VOC	0.102312	Grams/Mile
91	Total Energy	0.006543	mmBtu/Mile
98	CO ₂ Equivalent	501.9474	Grams/Mile
100	PM ₁₀	0.088899	Grams/Mile
110	PM _{2.5}	0.018836	Grams/Mile

Table I-6. MOVES Emission Rates for Bronx County

Pollutant ID	Pollutant	Emission Rate	Units
2	CO	2.611998	Grams/Mile
3	NOx	0.255195	Grams/Mile
87	VOC	0.088712	Grams/Mile
91	Total Energy	0.006764	mmBtu/Mile
98	CO ₂ Equivalent	517.8064	Grams/Mile
100	PM ₁₀	0.092057	Grams/Mile
110	PM _{2.5}	0.019281	Grams/Mile

Table I-7. MOVES Emission Rates for Kings County

Pollutant ID	Pollutant	Emission Rate	Units
2	CO	2.871156	Grams/Mile
3	NOx	0.273938	Grams/Mile
87	VOC	0.108797	Grams/Mile
91	Total Energy	0.007739	mmBtu/Mile
98	CO ₂ Equivalent	592.9476	Grams/Mile
100	PM ₁₀	0.120274	Grams/Mile
110	PM _{2.5}	0.023718	Grams/Mile

Table I-8. MOVES Emission Rates for Richmond County

Pollutant ID	Pollutant	Emission Rate	Units
2	CO	2.78104	Grams/Mile
3	NOx	0.237974	Grams/Mile
87	VOC	0.110452	Grams/Mile
91	Total Energy	0.005905	mmBtu/Mile
98	CO ₂ Equivalent	452.8934	Grams/Mile
100	PM ₁₀	0.069459	Grams/Mile
110	PM _{2.5}	0.015571	Grams/Mile

Table I-9. MOVES Emission Rates for Westchester County

Pollutant ID	Pollutant	Emission Rate	Units
2	CO	2.499322	Grams/Mile
3	NOx	0.252054	Grams/Mile
87	VOC	0.088234	Grams/Mile
91	Total Energy	0.005042	mmBtu/Mile
98	CO ₂ Equivalent	386.0669	Grams/Mile
100	PM ₁₀	0.044439	Grams/Mile
110	PM _{2.5}	0.012624	Grams/Mile

Table I-10. MOVES Emission Rates for Fairfield County

Pollutant ID	Pollutant	Emission Rate	Units
2	CO	2.609259	Grams/Mile
3	NOx	0.300959	Grams/Mile
87	VOC	0.084129	Grams/Mile
91	Total Energy	0.00565	mmBtu/Mile
98	CO ₂ Equivalent	433.6284	Grams/Mile
100	PM ₁₀	0.054628	Grams/Mile
110	PM _{2.5}	0.016698	Grams/Mile

Table I-11. MOVES Emission Rates for New Haven County

Pollutant ID	Pollutant	Emission Rate	Units
2	CO	2.610499	Grams/Mile
3	NOx	0.305239	Grams/Mile
87	VOC	0.084338	Grams/Mile
91	Total Energy	0.005665	mmBtu/Mile
98	CO ₂ Equivalent	434.8389	Grams/Mile
100	PM ₁₀	0.054053	Grams/Mile
110	PM _{2.5}	0.016730	Grams/Mile



Table I-12. Annual Number of Trains and Train Miles

Weekday new trains to PSA	102
Weekday number of new trains	80
Weekday number of diverted trains from GCS	22
Annual travel days per year	252
Annual number of new trains	20,160
Annual number of diverted trains	5,544
Route miles for new train	45
Route miles for diverted train	3
Cars per train	8
Total miles	7,390,656

Table I-13. Emission Rates from Electricity Generation by Pollutant

Pollutant	Emission Rate	Unit	Source
CO ₂	596.4	lb/MWh	eGRID, NYCW Subregion
VOC	1.05	mg/MJ	GREET, Electricity, U.S. Mix, Urban Emissions
CO	8.44	mg/MJ	GREET, Electricity, U.S. Mix, Urban Emissions
NO _x	20.08	mg/MJ	GREET, Electricity, U.S. Mix, Urban Emissions
PM ₁₀	2.36	mg/MJ	GREET, Electricity, U.S. Mix, Urban Emissions
PM _{2.5}	1.75	mg/MJ	GREET, Electricity, U.S. Mix, Urban Emissions
SO _x	76.37	mg/MJ	GREET, Electricity, U.S. Mix, Urban Emissions



I.2 EMISSIONS AND ENERGY CONSUMPTION CALCULATIONS

Table I-14. Daily Emissions from Roadways

		VMT		Daily Emissions in grams			Daily Emission in Metric Tons		
		No Build	Build	No Build	Build	Build-No Build	No Build	Build	Build-No Build
New York	VMT	37,737,647	37,710,708						
	CO2e			22,882,421,325	22,866,086,602	-16,334,723	22,882.421	22,866.087	-16.335
	CO			96,130,142	96,061,519	-68,623	96.130	96.062	-0.069
	VOC			3,499,008	3,496,510	-2,498	3.499	3.497	-0.002
	PM ₁₀			4,649,901	4,646,582	-3,319	4.650	4.647	-0.003
	PM _{2.5}			915,910	915,256	-654	0.916	0.915	-0.001
	NOx			10,743,245	10,735,576	-7,669	10.743	10.736	-0.008
Queens	VMT	18,525,863	18,522,436						
	CO2e			9,299,008,773	9,297,288,935	-1,719,839	9,299.009	9,297.289	-1.720
	CO			49,500,551	49,491,396	-9,155	49.501	49.491	-0.009
	VOC			1,895,423	1,895,073	-351	1.895	1.895	0.000
	PM ₁₀			1,646,925	1,646,620	-305	1.647	1.647	0.000
	PM _{2.5}			348,944	348,880	-65	0.349	0.349	0.000
	NOx			4,800,181	4,799,293	-888	4.800	4.799	-0.001
Bronx	VMT	9,239,343	9,229,569						
	CO2e			4,784,191,384	4,779,130,514	-5,060,870	4,784.191	4,779.131	-5.061
	CO			24,133,146	24,107,617	-25,529	24.133	24.108	-0.026
	VOC			819,639	818,772	-867	0.820	0.819	-0.001
	PM ₁₀			850,543	849,643	-900	0.851	0.850	-0.001
	PM _{2.5}			178,143	177,955	-188	0.178	0.178	0.000
	NOx			2,357,837	2,355,342	-2,494	2.358	2.355	-0.002
Kings	VMT	18,123,356	18,119,932						
	CO2e			10,746,200,537	10,744,170,112	-2,030,425	10,746.201	10,744.170	-2.030
	CO			52,034,982	52,025,151	-9,832	52.035	52.025	-0.010
	VOC			1,971,769	1,971,396	-373	1.972	1.971	0.000
	PM ₁₀			2,179,762	2,179,351	-412	2.180	2.179	0.000
	PM _{2.5}			429,844	429,763	-81	0.430	0.430	0.000
	NOx			4,964,674	4,963,736	-938	4.965	4.964	-0.001
Richmond	VMT	6,357,473	6,357,083						
	CO2e			2,879,258,017	2,879,081,451	-176,566	2,879.258	2,879.081	-0.177
	CO			17,680,385	17,679,300	-1,084	17.680	17.679	-0.001
	VOC			702,198	702,155	-43	0.702	0.702	0.000
	PM ₁₀			441,584	441,557	-27	0.442	0.442	0.000
	PM _{2.5}			98,991	98,985	-6	0.099	0.099	0.000
	NOx			1,512,912	1,512,820	-93	1.513	1.513	0.000

Table I-14. Daily Emissions from Roadways (continued)

		VMT		Daily Emissions in grams			Daily Emission in Metric Tons		
		No Build	Build	No Build	Build	Build-No Build	No Build	Build	Build-No Build
Westchester	VMT	21,616,543	21,607,200						
	CO ₂ e			8,345,431,719	8,341,824,458	-3,607,261	8,345.432	8,341.824	-3.607
	CO			54,026,707	54,003,354	-23,353	54.027	54.003	-0.023
	VOC			1,907,311	1,906,486	-824	1.907	1.906	-0.001
	PM ₁₀			960,623	960,208	-415	0.961	0.960	0.000
	PM _{2.5}			272,886	272,768	-118	0.273	0.273	0.000
	NO _x			5,448,541	5,446,186	-2,355	5.449	5.446	-0.002
Fairfield	VMT	20,263,920	20,244,215						
	CO ₂ e			8,787,011,716	8,778,467,194	-8,544,522	8,787.012	8,778.467	-8.545
	CO			52,873,819	52,822,405	-51,415	52.874	52.822	-0.051
	VOC			1,704,774	1,703,116	-1,658	1.705	1.703	-0.002
	PM ₁₀			1,106,973	1,105,896	-1,076	1.107	1.106	-0.001
	PM _{2.5}			338,357	338,028	-329	0.338	0.338	0.000
	NO _x			6,098,608	6,092,678	-5,930	6.099	6.093	-0.006
New Haven	VMT	15,786,908	15,778,793						
	CO ₂ e			6,864,761,001	6,861,232,188	-3,528,813	6,864.761	6,861.232	-3.529
	CO			41,211,701	41,190,516	-21,185	41.212	41.191	-0.021
	VOC			1,331,441	1,330,757	-684	1.331	1.331	-0.001
	PM ₁₀			853,337	852,898	-439	0.853	0.853	0.000
	PM _{2.5}			264,119	263,983	-136	0.264	0.264	0.000
	NO _x			4,818,785	4,816,308	-2,477	4.819	4.816	-0.002
Total Region	VMT	147,651,054	147,569,937						
	CO ₂ e			74,588,284,472	74,547,281,453	-41,003,019	74,588.284	74,547.281	-41.003
	CO			387,591,433	387,381,258	-210,175	387.591	387.381	-0.210
	VOC			13,831,562	13,824,265	-7,298	13.832	13.824	-0.007
	PM ₁₀			12,689,649	12,682,756	-6,893	12.690	12.683	-0.007
	PM _{2.5}			2,847,195	2,845,618	-1,577	2.847	2.846	-0.002
	NO _x			40,744,783	40,721,939	-22,844	40.745	40.722	-0.023



Table I-15. Annual Emissions from Roadways

		Daily VMT		Annual Emission in Metric Tons		
		No Build	Build	No Build	Build	Build-No Build
New York	VMT	37,737,647	37,710,708			
	CO _{2e}			6,590,137.3	6,585,432.9	-4,704.400
	CO			27,685.5	27,665.7	-19.763
	VOC			1,007.7	1,007.0	-0.719
	PM ₁₀			1,339.2	1,338.2	-0.956
	PM _{2.5}			263.8	263.6	-0.188
	NO _x			3,094.1	3,091.8	-2.209
Queens	VMT	18,525,863	18,522,436			
	CO _{2e}			2,678,114.5	2,677,619.2	-495.314
	CO			14,256.2	14,253.5	-2.637
	VOC			545.9	545.8	-0.101
	PM ₁₀			474.3	474.2	-0.088
	PM _{2.5}			100.5	100.5	-0.019
	NO _x			1,382.5	1,382.2	-0.256
Bronx	VMT	9,239,343	9,229,569			
	CO _{2e}			1,377,847.1	1,376,389.6	-1,457.531
	CO			6,950.3	6,943.0	-7.352
	VOC			236.1	235.8	-0.250
	PM ₁₀			245.0	244.7	-0.259
	PM _{2.5}			51.3	51.3	-0.054
	NO _x			679.1	678.3	-0.718
Kings	VMT	18,123,356	18,119,932			
	CO _{2e}			3,094,905.8	3,094,321.0	-584.762
	CO			14,986.1	14,983.2	-2.832
	VOC			567.9	567.8	-0.107
	PM ₁₀			627.8	627.7	-0.119
	PM _{2.5}			123.8	123.8	-0.023
	NO _x			1,429.8	1,429.6	-0.270
Richmond	VMT	6,357,473	6,357,083			
	CO _{2e}			829,226.3	829,175.5	-50.851
	CO			5,092.0	5,091.6	-0.312
	VOC			202.2	202.2	-0.012
	PM ₁₀			127.2	127.2	-0.008
	PM _{2.5}			28.5	28.5	-0.002
	NO _x			435.7	435.7	-0.027
Westchester	VMT	21,616,543	21,607,200			
	CO _{2e}			2,403,484.3	2,402,445.4	-1,038.891
	CO			15,559.7	15,553.0	-6.726
	VOC			549.3	549.1	-0.237
	PM ₁₀			276.7	276.5	-0.120
	PM _{2.5}			78.6	78.6	-0.034
	NO _x			1,569.2	1,568.5	-0.678

Table I-15. Annual Emissions from Roadways (continued)

		Daily VMT		Annual Emission in Metric Tons		
		No Build	Build	No Build	Build	Build-No Build
Fairfield	VMT	20,263,920	20,244,215			
	CO ₂ e			2,530,659.4	2,528,198.6	-2,460.822
	CO			15,227.7	15,212.9	-14.807
	VOC			491.0	490.5	-0.477
	PM ₁₀			318.8	318.5	-0.310
	PM _{2.5}			97.4	97.4	-0.095
	NO _x			1,756.4	1,754.7	-1.708
New Haven	VMT	15,786,908	15,778,793			
	CO ₂ e			1,977,051.2	1,976,034.9	-1,016.298
	CO			11,869.0	11,862.9	-6.101
	VOC			383.5	383.3	-0.197
	PM ₁₀			245.8	245.6	-0.126
	PM _{2.5}			76.1	76.0	-0.039
	NO _x			1,387.8	1,387.1	-0.713
Total Region	VMT	147,651,054	147,569,937			
	CO ₂ e			21,481,425.9	21,469,617.1	-11,808.870
	CO			111,626.3	111,565.8	-60.530
	VOC			3,983.5	3,981.4	-2.102
	PM ₁₀			3,654.6	3,652.6	-1.985
	PM _{2.5}			820.0	819.5	-0.454
	NO _x			11,734.5	11,727.9	-6.579

Table I-16. Rail Energy Expenditure and Greenhouse Gas Emissions

	Increment	No Build	Build
Total Car Miles	7,390,656	58,115,268	65,505,924
Total kWh	40,648,608	319,633,974	360,282,582
Total Btu	138,693,050,496	1,090,591,119,288	1,229,284,169,784
Total lb CO ₂ e	24,242,830	190,629,702	214,872,532
Total MT CO ₂ e	10,997	86,470	97,466

Table I-17. Annual Emissions from Rail

Pollutant	Emission Rate (mg/MJ)	No Build Emissions (Metric Ton/Year)	Build Emissions (Metric Ton/year)
CO	8.44	9.71	10.95
VOC	1.05	1.21	1.36
PM ₁₀	2.36	2.72	3.06
PM _{2.5}	1.75	2.01	2.27
NO _x	20.08	23.11	26.04



Table I-18. Annual Emissions from Roads, Rail and Total

	Pollutant	No Build Emissions (Metric Ton/Year)	Build Emissions (Metric Ton/year)	Build-No Build (Metric Ton/year)
Roads	CO2e	21,481,425.93	21,469,617.06	-11,808.87
	CO	111,626.33	111,565.80	-60.53
	VOC	3,983.49	3,981.39	-2.10
	PM ₁₀	3,654.62	3,652.63	-1.99
	PM _{2.5}	819.99	819.54	-0.45
Rail	NOx	11,734.50	11,727.92	-6.58
	CO	86,469.63	97,466.18	10,996.55
	CO2e	9.71	10.95	1.24
	VOC	1.21	1.36	0.15
	PM ₁₀	2.72	3.06	0.35
	PM _{2.5}	2.01	2.27	0.26
	NOx	23.11	26.04	2.94
Total	CO2e	21,567,895.56	21,567,083.24	-812.32
	CO	111,636.04	111,576.75	-59.30
	VOC	3,984.70	3,982.75	-1.95
	PM ₁₀	3,657.33	3,655.69	-1.64
	PM _{2.5}	822.01	821.81	-0.20
	NOx	11,757.60	11,753.96	-3.64