

New York State Metropolitan
Transportation Authority

Detail Report - Control (Private)

Complete Inventory 2014

Description:

Industry: 48 - Transportation and Warehousing

Address: 2 Broadway
4th Floor
New York, New York US

Contact:
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Reporting Information

Reporting Protocol: General Reporting Protocol 2.0 and associated updates and clarifications

GWP Standard: SAR

Base Year:

Consolidation Methodology: Operational Control Only

Status: TCR Accepted

Verification Information

Verification Body: First Environment, Inc.

Level of Assurance: Reasonable

Entity Emissions | Total in metric tons of CO2e

Scope 1 - Direct Emissions	Total CO ₂ e (t)	CO ₂ (t)	CH ₄ (t of CO ₂ e)	N ₂ O (t of CO ₂ e)	HFC (t of CO ₂ e)	PFC (t of CO ₂ e)	NF ₃ (t of CO ₂ e)	SF ₆ (t of CO ₂ e)
Stationary Combustion	147,580.844764	146,911.453785	48.390394	621.000585	0	0	0	0
Mobile Combustion	748,232.051212	744,171.926531	1,125.760792	2,934.36389	0	0	0	0
Fugitive	7,369.214	0	0	0	7,369.214	0	0	0
Total	903,182.109976	891,083.380316	1,174.151186	3,555.364474	7,369.214	0	0	0
NetTotal	903,182.109976	891,083.380316	1,174.151186	3,555.364474	7,369.214	0	0	0

Scope 2 - Market Based - Indirect Emissions	Total CO ₂ e (t)	CO ₂ (t)	CH ₄ (t of CO ₂ e)	N ₂ O (t of CO ₂ e)	HFC (t of CO ₂ e)	PFC (t of CO ₂ e)	NF ₃ (t of CO ₂ e)	SF ₆ (t of CO ₂ e)
Purchased Electricity - Market Based	1,183,437.807355	1,181,286.022665	755.673968	1,396.110722	0	0	0	0
Purchased Steam - Market Based	14,806.85459	14,784.62856	7.32123	14.9048	0	0	0	0
Total	1,198,244.661945	1,196,070.651225	762.995198	1,411.015522	0	0	0	0
NetTotal	1,198,244.661945	1,196,070.651225	762.995198	1,411.015522	0	0	0	0

Biogenic - Direct Emissions	Total CO ₂ e (t)	CO ₂ (t)	CH ₄ (t of CO ₂ e)	N ₂ O (t of CO ₂ e)	HFC (t of CO ₂ e)	PFC (t of CO ₂ e)	NF ₃ (t of CO ₂ e)	SF ₆ (t of CO ₂ e)
Stationary Biomass Combustion	5,182.879905	5,182.879905	0	0	0	0	0	0
Mobile Biomass Combustion	298.9425	298.9425	0	0	0	0	0	0
Total	5,481.822405	5,481.822405	0	0	0	0	0	0
NetTotal	5,481.822405	5,481.822405	0	0	0	0	0	0

Optional - Optional Emissions	Total CO ₂ e (t)	CO ₂ (t)	CH ₄ (t of CO ₂ e)	N ₂ O (t of CO ₂ e)	HFC (t of CO ₂ e)	PFC (t of CO ₂ e)	NF ₃ (t of CO ₂ e)	SF ₆ (t of CO ₂ e)
Scope 3	61,306.4738	60,580.69541	62.84649	662.9319	0	0	0	0
Total	61,306.4738	60,580.69541	62.84649	662.9319	0	0	0	0
NetTotal	61,306.4738	60,580.69541	62.84649	662.9319	0	0	0	0

Entity Emissions | Total in metric tons of gas

Scope 1 - Direct Emissions	Total CO ₂ e (t)	CO ₂ (t)	CH ₄ (t)	N ₂ O (t)	HFC (t of CO ₂ e)	PFC (t of CO ₂ e)	NF ₃ (t)	SF ₆ (t)
Stationary Combustion	147,580.844764	146,911.453785	2.304304	2.003228	0	0	0	0
Mobile Combustion	748,232.051212	744,171.926531	53.607657	9.46569	0	0	0	0
Fugitive	7,369.214	0	0	0	7,369.214	0	0	0
Total	903,182.109976	891,083.380316	55.911961	11.468918	7,369.214	0	0	0

Scope 2 - Market Based - Indirect Emissions	Total CO ₂ e (t)	CO ₂ (t)	CH ₄ (t)	N ₂ O (t)	HFC (t of CO ₂ e)	PFC (t of CO ₂ e)	NF ₃ (t)	SF ₆ (t)
Purchased Electricity - Market Based	1,183,437.807355	1,181,286.022665	35.984475	4.503583	0	0	0	0
Purchased Steam - Market Based	14,806.85459	14,784.62856	0.34863	0.04808	0	0	0	0
Total	1,198,244.661945	1,196,070.651225	36.333105	4.551663	0	0	0	0

Biogenic - Direct Emissions	Total CO ₂ e (t)	CO ₂ (t)	CH ₄ (t)	N ₂ O (t)	HFC (t of CO ₂ e)	PFC (t of CO ₂ e)	NF ₃ (t)	SF ₆ (t)
Stationary Biomass Combustion	5,182.879905	5,182.879905	0	0	0	0	0	0
Mobile Biomass Combustion	298.9425	298.9425	0	0	0	0	0	0
Total	5,481.822405	5,481.822405	0	0	0	0	0	0

Optional - Optional Emissions	Total CO ₂ e (t)	CO ₂ (t)	CH ₄ (t)	N ₂ O (t)	HFC (t of CO ₂ e)	PFC (t of CO ₂ e)	NF ₃ (t)	SF ₆ (t)
Scope 3	61,306.4738	60,580.69541	2.99269	2.13849	0	0	0	0
Total	61,306.4738	60,580.69541	2.99269	2.13849	0	0	0	0

Simplified Estimation Methods (SEMs)

	Total Estimated CO ₂ e (t)	Total Emissions (t of CO ₂ e)	Estimated CO ₂ e as a Percentage of Total*
Location Based	0	0	N/A
Market Based	22,897.590598	2,106,908.594326	1.08678614059022%

*Total based on scope 1, scope 2 & biomass emissions

Facility Emissions | HFC, PFC, and SF6 Emissions

Equity share - 100% | Entity controls the facility emissions - Yes

347 Madison Ave, New York, New York, 10017, US

Scope 1 - Direct Emissions	Total CO ₂ e (t)	CO ₂ (t)	CH ₄ (t)	N ₂ O (t)	HFC (t of CO ₂ e)	PFC (t of CO ₂ e)	NF ₃ (t)	SF ₆ (t)
Fugitive	7,369.214	0	0	0	7,369.214	0	0	0
Total	7,369.214	0	0	0	7,369.214	0	0	0

Source Emissions | SEM for Fugitive Refrigerant Emissions

Activity Type	Gas	Fuel Type	End Use Sector	Technology	Calculation Method	SEM	Additional Information	Fuel	Fuel Quantity	Emission Factor (EF)	EF Reference	Gas Quantity	CO ₂ e (t)
Fugitive	HFC-134a	N/A	All	Unspecified Technology	PreCalculated	Yes		N/A				4.449	5,783.7
Fugitive	R-407C	N/A	All	Unspecified Technology	PreCalculated	Yes		N/A				1.039	1,585.514

Facility Emissions | MTA Facilities Non-traction Electricity and Heating (CT)

Equity share - 100% | Entity controls the facility emissions - Yes

347 Madison Ave, New York, New York, 10027, US

Scope 1 - Direct Emissions	Total CO ₂ e (t)	CO ₂ (t)	CH ₄ (t)	N ₂ O (t)	HFC (t of CO ₂ e)	PFC (t of CO ₂ e)	NF ₃ (t)	SF ₆ (t)
Stationary Combustion	3,316.696116	3,298.178825	0.055943	0.055943	0	0	0	0
Total	3,316.696116	3,298.178825	0.055943	0.055943	0	0	0	0

Scope 2 - Market Based - Indirect Emissions	Total CO ₂ e (t)	CO ₂ (t)	CH ₄ (t)	N ₂ O (t)	HFC (t of CO ₂ e)	PFC (t of CO ₂ e)	NF ₃ (t)	SF ₆ (t)
Purchased Electricity - Market Based	6,314.514889	6,266.515947	0.622772	0.112647	0	0	0	0
Total	6,314.514889	6,266.515947	0.622772	0.112647	0	0	0	0

Source Emissions | Facility Electricity - Eversource

Activity Type	Gas	Fuel Type	End Use Sector	Technology	Calculation Method	SEM	Additional Information	Fuel	Fuel Quantity	Emission Factor (EF)	EF Reference	Gas Quantity	CO ₂ e (t)
Purchased Electricity	CO ₂	NPCC New England	All	Unspecified Technology	Emission Factor	No		All	6,376,511.5 kWh	722.07 lb/MWh	2015 Default Emission Factors - Table #14.1	2,088.472235	2,088.472235
Purchased Electricity	CH ₄	NPCC New England	All	Unspecified Technology	Emission Factor	No		All	6,376,511.5 kWh	71.76 lb/GWh	2015 Default Emission Factors - Table #14.1	0.207554	4.358641
Purchased Electricity	N ₂ O	NPCC New England	All	Unspecified Technology	Emission Factor	No		All	6,376,511.5 kWh	12.98 lb/GWh	2015 Default Emission Factors - Table #14.1	0.037543	11.638199

Source Emissions | Facility Electricity - SNEW

Activity Type	Gas	Fuel Type	End Use Sector	Technology	Calculation Method	SEM	Additional Information	Fuel	Fuel Quantity	Emission Factor (EF)	EF Reference	Gas Quantity	CO2e (t)
Purchased Electricity	CO2	NPCC New England	All	Unspecified Technology	Emission Factor	No		All	212,284.5 kWh	722.07 lb/MWh	2015 Default Emission Factors - Table #14.1	69.528658	69.528658
Purchased Electricity	CH4	NPCC New England	All	Unspecified Technology	Emission Factor	No		All	212,284.5 kWh	71.76 lb/GWh	2015 Default Emission Factors - Table #14.1	0.00691	0.145106
Purchased Electricity	N2O	NPCC New England	All	Unspecified Technology	Emission Factor	No		All	212,284.5 kWh	12.98 lb/GWh	2015 Default Emission Factors - Table #14.1	0.00125	0.387455

Source Emissions | Facility Electricity - The United Illuminating Co.

Activity Type	Gas	Fuel Type	End Use Sector	Technology	Calculation Method	SEM	Additional Information	Fuel	Fuel Quantity	Emission Factor (EF)	EF Reference	Gas Quantity	CO2e (t)
Purchased Electricity	CO2	NPCC New England	All	Unspecified Technology	Emission Factor	No		All	11,508,647.6 kWh	722.07 lb/MWh	2015 Default Emission Factors - Table #14.1	3,769.379382	3,769.379382
Purchased Electricity	CH4	NPCC New England	All	Unspecified Technology	Emission Factor	No		All	11,508,647.6 kWh	71.76 lb/GWh	2015 Default Emission Factors - Table #14.1	0.374604	7.866694
Purchased Electricity	N2O	NPCC New England	All	Unspecified Technology	Emission Factor	No		All	11,508,647.6 kWh	12.98 lb/GWh	2015 Default Emission Factors - Table #14.1	0.067759	21.005206

Source Emissions | Facility Electricity - Third Taxing District

Activity Type	Gas	Fuel Type	End Use Sector	Technology	Calculation Method	SEM	Additional Information	Fuel	Fuel Quantity	Emission Factor (EF)	EF Reference	Gas Quantity	CO2e (t)
Purchased Electricity	CO2	NPCC New England	All	Unspecified Technology	Emission Factor	No		All	1,017,116.6 kWh	722.07 lb/MWh	2015 Default Emission Factors - Table #14.1	333.131961	333.131961
Purchased Electricity	CH4	NPCC New England	All	Unspecified Technology	Emission Factor	No		All	1,017,116.6 kWh	71.76 lb/GWh	2015 Default Emission Factors - Table #14.1	0.033107	0.695246
Purchased Electricity	N2O	NPCC New England	All	Unspecified Technology	Emission Factor	No		All	1,017,116.6 kWh	12.98 lb/GWh	2015 Default Emission Factors - Table #14.1	0.005988	1.856408

Source Emissions | Facility Electricity - Wallingford Electric

Activity Type	Gas	Fuel Type	End Use Sector	Technology	Calculation Method	SEM	Additional Information	Fuel	Fuel Quantity	Emission Factor (EF)	EF Reference	Gas Quantity	CO2e (t)
Purchased Electricity	CO2	NPCC New England	All	Unspecified Technology	Emission Factor	No		All	18,330.5 kWh	722.07 lb/MWh	2015 Default Emission Factors - Table #14.1	6.003712	6.003712
Purchased Electricity	CH4	NPCC New England	All	Unspecified Technology	Emission Factor	No		All	18,330.5 kWh	71.76 lb/GWh	2015 Default Emission Factors - Table #14.1	0.000597	0.01253
Purchased Electricity	N2O	NPCC New England	All	Unspecified Technology	Emission Factor	No		All	18,330.5 kWh	12.98 lb/GWh	2015 Default Emission Factors - Table #14.1	0.000108	0.033456

Source Emissions | Natural Gas

Activity Type	Gas	Fuel Type	End Use Sector	Technology	Calculation Method	SEM	Additional Information	Fuel	Fuel Quantity	Emission Factor (EF)	EF Reference	Gas Quantity	CO2e (t)
Stationary Combustion	CO2	Natural Gas	Commercial	Boilers	Emission Factor	No	Heat Content: 1026 Btu/scf;	Unspecified (Weighted U.S. Average)	621,594.2 therm	53.06 kg/MMBtu	2015 Default Emission Factors - Table #12.1	3,298.178825	3,298.178825
Stationary Combustion	CH4	Natural Gas	Commercial	Boilers	Emission Factor	No	Heat Content: 1026 Btu/scf;	Unspecified (Weighted U.S. Average)	621,594.2 therm	0.9 g/MMBtu	2015 Default Emission Factors - Table #12.8	0.055943	1.174813
Stationary Combustion	N2O	Natural Gas	Commercial	Boilers	Emission Factor	No	Heat Content: 1026 Btu/scf;	Unspecified (Weighted U.S. Average)	621,594.2 therm	0.9 g/MMBtu	2015 Default Emission Factors - Table #12.8	0.055943	17.342478

Facility Emissions | MTA Facilities Non-traction Electricity and Heating (NYS)

Equity share - 100% | Entity controls the facility emissions - Yes

347 Madison Ave, New York, New York, 10017, US

Scope 1 - Direct Emissions	Total CO ₂ e (t)	CO ₂ (t)	CH ₄ (t)	N ₂ O (t)	HFC (t of CO ₂ e)	PFC (t of CO ₂ e)	NF ₃ (t)	SF ₆ (t)
Stationary Combustion	144,264.148647	143,613.27496	2.248361	1.947284	0	0	0	0
Total	144,264.148647	143,613.27496	2.248361	1.947284	0	0	0	0

Scope 2 - Market Based - Indirect Emissions	Total CO ₂ e (t)	CO ₂ (t)	CH ₄ (t)	N ₂ O (t)	HFC (t of CO ₂ e)	PFC (t of CO ₂ e)	NF ₃ (t)	SF ₆ (t)
Purchased Electricity - Market Based	244,573.798793	244,257.26025	5.518935	0.647229	0	0	0	0
Purchased Steam - Market Based	14,806.85459	14,784.62856	0.34863	0.04808	0	0	0	0
Total	259,380.653383	259,041.88881	5.867565	0.695309	0	0	0	0

Biogenic - Direct Emissions	Total CO ₂ e (t)	CO ₂ (t)	CH ₄ (t)	N ₂ O (t)	HFC (t of CO ₂ e)	PFC (t of CO ₂ e)	NF ₃ (t)	SF ₆ (t)
Stationary Biomass Combustion	5,182.879905	5,182.879905	0	0	0	0	0	0
Total	5,182.879905	5,182.879905	0	0	0	0	0	0

Source Emissions | Facility Electricity - CHGE

Activity Type	Gas	Fuel Type	End Use Sector	Technology	Calculation Method	SEM	Additional Information	Fuel	Fuel Quantity	Emission Factor (EF)	EF Reference	Gas Quantity	CO2e (t)
Purchased Electricity	CO2	NPCC Upstate NY	All	Unspecified Technology	Emission Factor	No		All	7,513,648 kWh	545.79 lb/MWh	2015 Default Emission Factors - Table #14.1	1,860.127343	1,860.127343
Purchased Electricity	CH4	NPCC Upstate NY	All	Unspecified Technology	Emission Factor	No		All	7,513,648 kWh	16.3 lb/GWh	2015 Default Emission Factors - Table #14.1	0.055553	1.166605
Purchased Electricity	N2O	NPCC Upstate NY	All	Unspecified Technology	Emission Factor	No		All	7,513,648 kWh	7.24 lb/GWh	2015 Default Emission Factors - Table #14.1	0.024675	7.649224

Source Emissions | Facility Electricity - ConEd

For all electricity consumed within NYC, MTA will use customize emission factors developed by the NYC Mayor's Office of Long Term Planning & Sustainability.

Activity Type	Gas	Fuel Type	End Use Sector	Technology	Calculation Method	SEM	Additional Information	Fuel	Fuel Quantity	Emission Factor (EF)	EF Reference	Gas Quantity	CO2e (t)
Purchased Electricity	CO2	NPCC NYC/Westchester	All	Unspecified Technology	Emission Factor	No		All	3,754,007 kWh	622.42 lb/MWh	2015 Default Emission Factors - Table #14.1	1,059.851148	1,059.851148
Purchased Electricity	CH4	NPCC NYC/Westchester	All	Unspecified Technology	Emission Factor	No		All	3,754,007 kWh	13.0161 lb/GWh	Custom Emission Factor	0.022164	0.465437
Purchased Electricity	N2O	NPCC NYC/Westchester	All	Unspecified Technology	Emission Factor	No		All	3,754,007 kWh	1.34923 lb/GWh	Custom Emission Factor	0.002297	0.712212

Source Emissions | Facility Electricity - NYPA

For all electricity consumed within NYC, MTA will use customize emission factors developed by the NYC Mayor's Office of Long Term Planning & Sustainability.

Activity Type	Gas	Fuel Type	End Use Sector	Technology	Calculation Method	SEM	Additional Information	Fuel	Fuel Quantity	Emission Factor (EF)	EF Reference	Gas Quantity	CO2e (t)
Purchased Electricity	CO2	NPCC NYC/Westchester	All	Unspecified Technology	Emission Factor	No		All	714,896,255.2 kWh	674.587 lb/MWh	Custom Emission Factor	218,749.709527	218,749.709527
Purchased Electricity	CH4	NPCC NYC/Westchester	All	Unspecified Technology	Emission Factor	No		All	714,896,255.2 kWh	13.0161 lb/GWh	Custom Emission Factor	4.220749	88.635721
Purchased Electricity	N2O	NPCC NYC/Westchester	All	Unspecified Technology	Emission Factor	No		All	714,896,255.2 kWh	1.34923 lb/GWh	Custom Emission Factor	0.437517	135.630375

Source Emissions | Facility Electricity - NYSEG

Activity Type	Gas	Fuel Type	End Use Sector	Technology	Calculation Method	SEM	Additional Information	Fuel	Fuel Quantity	Emission Factor (EF)	EF Reference	Gas Quantity	CO2e (t)
Purchased Electricity	CO2	NPCC Upstate NY	All	Unspecified Technology	Emission Factor	No		All	7,330,555.7 kWh	545.79 lb/MWh	2015 Default Emission Factors - Table #14.1	1,814.799827	1,814.799827
Purchased Electricity	CH4	NPCC Upstate NY	All	Unspecified Technology	Emission Factor	No		All	7,330,555.7 kWh	16.3 lb/GWh	2015 Default Emission Factors - Table #14.1	0.054199	1.138178
Purchased Electricity	N2O	NPCC Upstate NY	All	Unspecified Technology	Emission Factor	No		All	7,330,555.7 kWh	7.24 lb/GWh	2015 Default Emission Factors - Table #14.1	0.024074	7.462828

Source Emissions | Facility Electricity - ORU

Activity Type	Gas	Fuel Type	End Use Sector	Technology	Calculation Method	SEM	Additional Information	Fuel	Fuel Quantity	Emission Factor (EF)	EF Reference	Gas Quantity	CO2e (t)
Purchased Electricity	CO2	NPCC Upstate NY	All	Unspecified Technology	Emission Factor	No		All	5,209,881.1 kWh	545.79 lb/MWh	2015 Default Emission Factors - Table #14.1	1,289.791894	1,289.791894
Purchased Electricity	CH4	NPCC Upstate NY	All	Unspecified Technology	Emission Factor	No		All	5,209,881.1 kWh	16.3 lb/GWh	2015 Default Emission Factors - Table #14.1	0.03852	0.808911
Purchased Electricity	N2O	NPCC Upstate NY	All	Unspecified Technology	Emission Factor	No		All	5,209,881.1 kWh	7.24 lb/GWh	2015 Default Emission Factors - Table #14.1	0.017109	5.303888

Source Emissions | Facility Electricity - PSEG-LI (Long Island)

Activity Type	Gas	Fuel Type	End Use Sector	Technology	Calculation Method	SEM	Additional Information	Fuel	Fuel Quantity	Emission Factor (EF)	EF Reference	Gas Quantity	CO2e (t)
Purchased Electricity	CO2	NPCC Long Island	All	Unspecified Technology	Emission Factor	No		All	28,957,660 kWh	1336.11 lb/MWh	2015 Default Emission Factors - Table #14.1	17,549.790487	17,549.790487
Purchased Electricity	CH4	NPCC Long Island	All	Unspecified Technology	Emission Factor	No		All	28,957,660 kWh	81.49 lb/GWh	2015 Default Emission Factors - Table #14.1	1.07037	22.477776
Purchased Electricity	N2O	NPCC Long Island	All	Unspecified Technology	Emission Factor	No		All	28,957,660 kWh	10.28 lb/GWh	2015 Default Emission Factors - Table #14.1	0.135028	41.858584

Source Emissions | Facility Electricity - PSEG-LI (NYC)

For all electricity consumed within NYC, MTA will use customize emission factors developed by the NYC Mayor's Office of Long Term Planning & Sustainability.

Activity Type	Gas	Fuel Type	End Use Sector	Technology	Calculation Method	SEM	Additional Information	Fuel	Fuel Quantity	Emission Factor (EF)	EF Reference	Gas Quantity	CO2e (t)
Purchased Electricity	CO2	NPCC NYC/Westchester	All	Unspecified Technology	Emission Factor	No		All	5,349,009 kWh	622.42 lb/MWh	2015 Default Emission Factors - Table #14.1	1,510.160564	1,510.160564
Purchased Electricity	CH4	NPCC NYC/Westchester	All	Unspecified Technology	Emission Factor	No		All	5,349,009 kWh	13.0161 lb/GWh	Custom Emission Factor	0.031581	0.663192
Purchased Electricity	N2O	NPCC NYC/Westchester	All	Unspecified Technology	Emission Factor	No		All	5,349,009 kWh	1.34923 lb/GWh	Custom Emission Factor	0.003274	1.014816

Source Emissions | Facility Electricity - Villages

Activity Type	Gas	Fuel Type	End Use Sector	Technology	Calculation Method	SEM	Additional Information	Fuel	Fuel Quantity	Emission Factor (EF)	EF Reference	Gas Quantity	CO2e (t)
Purchased Electricity	CO2	NPCC Long Island	All	Unspecified Technology	Emission Factor	No		All	698,010.8 kWh	1336.11 lb/MWh	2015 Default Emission Factors - Table #14.1	423.029461	423.029461
Purchased Electricity	CH4	NPCC Long Island	All	Unspecified Technology	Emission Factor	No		All	698,010.8 kWh	81.49 lb/GWh	2015 Default Emission Factors - Table #14.1	0.025801	0.541816
Purchased Electricity	N2O	NPCC Long Island	All	Unspecified Technology	Emission Factor	No		All	698,010.8 kWh	10.28 lb/GWh	2015 Default Emission Factors - Table #14.1	0.003255	1.008982

Source Emissions | Heating Fuel - 4B5 (Biofuel Portion CH4, N2O)

Activity Type	Gas	Fuel Type	End Use Sector	Technology	Calculation Method	SEM	Additional Information	Fuel	Fuel Quantity	Emission Factor (EF)	EF Reference	Gas Quantity	CO2e (t)
Stationary Combustion	CO2	Petroleum Products	Commercial	Natural Gas/Diesel Oil Boilers	Not Reporting	No	Heat Content: 0.146 MMBtu/gal;	Distillate Fuel Oil No. 4	17,762.2 gal	10.96 kg/gal	2015 Default Emission Factors - Table #12.1	0	0
Stationary Combustion	CH4	Petroleum Products	Commercial	Natural Gas/Diesel Oil Boilers	Emission Factor	No	Heat Content: 0.146 MMBtu/gal;	Distillate Fuel Oil No. 4	17,762.2 gal	0.7 g/MMBtu	2015 Default Emission Factors - Table #12.7	0.001815	0.038121
Stationary Combustion	N2O	Petroleum Products	Commercial	Natural Gas/Diesel Oil Boilers	Emission Factor	No	Heat Content: 0.146 MMBtu/gal;	Distillate Fuel Oil No. 4	17,762.2 gal	0.4 g/MMBtu	2015 Default Emission Factors - Table #12.7	0.001037	0.321567

Source Emissions | Heating Fuel - 4B5 (Biofuel Portion CO2)

Activity Type	Gas	Fuel Type	End Use Sector	Technology	Calculation Method	SEM	Additional Information	Fuel	Fuel Quantity	Emission Factor (EF)	EF Reference	Gas Quantity	CO2e (t)
Stationary Biomass Combustion - Biomass	CO2	Biomass Fuels - Liquid	Commercial	Unspecified Technology	Emission Factor	No	Heat Content: 0.128 MMBtu/gal;	Biodiese l (100%)	355,244 gal	9.45 kg/gal	2015 Default Emission Factors - Table #12.1	3,357.0558	3,357.0558
Stationary Combustion	CH4	Biomass Fuels - Liquid	Commercial	Unspecified Technology	Not Reporting	No	Heat Content: 0.128 MMBtu/gal;	Biodiese l (100%)	355,244 gal	10 g/MMBtu	2015 Default Emission Factors - Table #12.9	0	0
Stationary Combustion	N2O	Biomass Fuels - Liquid	Commercial	Unspecified Technology	Not Reporting	No	Heat Content: 0.128 MMBtu/gal;	Biodiese l (100%)	355,244 gal	0.6 g/MMBtu	2015 Default Emission Factors - Table #12.9	0	0

Source Emissions | Heating Fuel - 4B5 (Diesel Portion)

Activity Type	Gas	Fuel Type	End Use Sector	Technology	Calculation Method	SEM	Additional Information	Fuel	Fuel Quantity	Emission Factor (EF)	EF Reference	Gas Quantity	CO2e (t)
Stationary Combustion	CO2	Petroleum Products	Commercial	Natural Gas/Diesel Oil Boilers	Emission Factor	No	Heat Content: 0.146 MMBtu/gal;	Distillate Fuel Oil No. 4	337,481.8 gal	10.96 kg/gal	2015 Default Emission Factors - Table #12.1	3,698.800528	3,698.800528
Stationary Combustion	CH4	Petroleum Products	Commercial	Natural Gas/Diesel Oil Boilers	Emission Factor	No	Heat Content: 0.146 MMBtu/gal;	Distillate Fuel Oil No. 4	337,481.8 gal	0.7 g/MMBtu	2015 Default Emission Factors - Table #12.7	0.034491	0.724303
Stationary Combustion	N2O	Petroleum Products	Commercial	Natural Gas/Diesel Oil Boilers	Emission Factor	No	Heat Content: 0.146 MMBtu/gal;	Distillate Fuel Oil No. 4	337,481.8 gal	0.4 g/MMBtu	2015 Default Emission Factors - Table #12.7	0.019709	6.109771

Source Emissions | Heating Fuel - 6B5 (Biofuel Portion CH4, N2O)

Activity Type	Gas	Fuel Type	End Use Sector	Technology	Calculation Method	SEM	Additional Information	Fuel	Fuel Quantity	Emission Factor (EF)	EF Reference	Gas Quantity	CO2e (t)
Stationary Combustion	CO2	Petroleum Products	Commercial	Boilers	Not Reporting	No	Heat Content: 0.15 MMBtu/gal;	Residual Fuel Oil No. 6	40,863.9 gal	11.27 kg/gal	2015 Default Emission Factors - Table #12.1	0	0
Stationary Combustion	CH4	Petroleum Products	Commercial	Boilers	Emission Factor	No	Heat Content: 0.15 MMBtu/gal;	Residual Fuel Oil No. 6	40,863.9 gal	1.4 g/MMBtu	2015 Default Emission Factors - Table #12.8	0.008581	0.18021
Stationary Combustion	N2O	Petroleum Products	Commercial	Boilers	Emission Factor	No	Heat Content: 0.15 MMBtu/gal;	Residual Fuel Oil No. 6	40,863.9 gal	0.3 g/MMBtu	2015 Default Emission Factors - Table #12.8	0.001839	0.570051

Source Emissions | Heating Fuel - 6B5 (Biofuel Portion CO2)

Activity Type	Gas	Fuel Type	End Use Sector	Technology	Calculation Method	SEM	Additional Information	Fuel	Fuel Quantity	Emission Factor (EF)	EF Reference	Gas Quantity	CO2e (t)
Stationary Biomass Combustion - Biomass	CO2	Biomass Fuels - Liquid	Commercial	Unspecified Technology	Emission Factor	No	Heat Content: 0.128 MMBtu/gal;	Biodiesel (100%)	40,863.9 gal	9.45 kg/gal	2015 Default Emission Factors - Table #12.1	386.163855	386.163855
Stationary Combustion	CH4	Biomass Fuels - Liquid	Commercial	Unspecified Technology	Not Reporting	No	Heat Content: 0.128 MMBtu/gal;	Biodiesel (100%)	40,863.9 gal	10 g/MMBtu	2015 Default Emission Factors - Table #12.9	0	0
Stationary Combustion	N2O	Biomass Fuels - Liquid	Commercial	Unspecified Technology	Not Reporting	No	Heat Content: 0.128 MMBtu/gal;	Biodiesel (100%)	40,863.9 gal	0.6 g/MMBtu	2015 Default Emission Factors - Table #12.9	0	0

Source Emissions | Heating Fuel - 6B5 (Diesel Portion)

Activity Type	Gas	Fuel Type	End Use Sector	Technology	Calculation Method	SEM	Additional Information	Fuel	Fuel Quantity	Emission Factor (EF)	EF Reference	Gas Quantity	CO2e (t)
Stationary Combustion	CO2	Petroleum Products	Commercial	Boilers	Emission Factor	No	Heat Content: 0.15 MMBtu/gal;	Residual Fuel Oil No. 6	776,413.2 gal	11.27 kg/gal	2015 Default Emission Factors - Table #12.1	8,750.176764	8,750.176764
Stationary Combustion	CH4	Petroleum Products	Commercial	Boilers	Emission Factor	No	Heat Content: 0.15 MMBtu/gal;	Residual Fuel Oil No. 6	776,413.2 gal	1.4 g/MMBtu	2015 Default Emission Factors - Table #12.8	0.163047	3.423982
Stationary Combustion	N2O	Petroleum Products	Commercial	Boilers	Emission Factor	No	Heat Content: 0.15 MMBtu/gal;	Residual Fuel Oil No. 6	776,413.2 gal	0.3 g/MMBtu	2015 Default Emission Factors - Table #12.8	0.034939	10.830964

Source Emissions | Heating Fuel - B3 (Biofuel Portion CH4, N2O)

Activity Type	Gas	Fuel Type	End Use Sector	Technology	Calculation Method	SEM	Additional Information	Fuel	Fuel Quantity	Emission Factor (EF)	EF Reference	Gas Quantity	CO2e (t)
Stationary Combustion	CO2	Petroleum Products	Commercial	Natural Gas/Diesel Oil Boilers	Not Reporting	No	Heat Content: 0.138 MMBtu/gal;	Distillate Fuel Oil No. 2	119.4 gal	10.21 kg/gal	2015 Default Emission Factors - Table #12.1	0	0
Stationary Combustion	CH4	Petroleum Products	Commercial	Natural Gas/Diesel Oil Boilers	Emission Factor	No	Heat Content: 0.138 MMBtu/gal;	Distillate Fuel Oil No. 2	119.4 gal	0.7 g/MMBtu	2015 Default Emission Factors - Table #12.7	0.000012	0.000242
Stationary Combustion	N2O	Petroleum Products	Commercial	Natural Gas/Diesel Oil Boilers	Emission Factor	No	Heat Content: 0.138 MMBtu/gal;	Distillate Fuel Oil No. 2	119.4 gal	0.4 g/MMBtu	2015 Default Emission Factors - Table #12.7	0.000007	0.002043

Source Emissions | Heating Fuel - B3 (Biofuel Portion CO2)

Activity Type	Gas	Fuel Type	End Use Sector	Technology	Calculation Method	SEM	Additional Information	Fuel	Fuel Quantity	Emission Factor (EF)	EF Reference	Gas Quantity	CO2e (t)
Stationary Biomass Combustion - Biomass	CO2	Biomass Fuels - Liquid	Commercial	Unspecified Technology	Emission Factor	No	Heat Content: 0.128 MMBtu/gal;	Biodiesel (100%)	119.4 gal	9.45 kg/gal	2015 Default Emission Factors - Table #12.1	1.12833	1.12833
Stationary Combustion	CH4	Biomass Fuels - Liquid	Commercial	Unspecified Technology	Not Reporting	No	Heat Content: 0.128 MMBtu/gal;	Biodiesel (100%)	119.4 gal	10 g/MMBtu	2015 Default Emission Factors - Table #12.9	0	0
Stationary Combustion	N2O	Biomass Fuels - Liquid	Commercial	Unspecified Technology	Not Reporting	No	Heat Content: 0.128 MMBtu/gal;	Biodiesel (100%)	119.4 gal	0.6 g/MMBtu	2015 Default Emission Factors - Table #12.9	0	0

Source Emissions | Heating Fuel - B3 (Diesel Portion)

Activity Type	Gas	Fuel Type	End Use Sector	Technology	Calculation Method	SEM	Additional Information	Fuel	Fuel Quantity	Emission Factor (EF)	EF Reference	Gas Quantity	CO2e (t)
Stationary Combustion	CO2	Petroleum Products	Commercial	Natural Gas/Diesel Oil Boilers	Emission Factor	No	Heat Content: 0.138 MMBtu/gal;	Distillate Fuel Oil No. 2	3,862.1 gal	10.21 kg/gal	2015 Default Emission Factors - Table #12.1	39.432041	39.432041
Stationary Combustion	CH4	Petroleum Products	Commercial	Natural Gas/Diesel Oil Boilers	Emission Factor	No	Heat Content: 0.138 MMBtu/gal;	Distillate Fuel Oil No. 2	3,862.1 gal	0.7 g/MMBtu	2015 Default Emission Factors - Table #12.7	0.000373	0.007835
Stationary Combustion	N2O	Petroleum Products	Commercial	Natural Gas/Diesel Oil Boilers	Emission Factor	No	Heat Content: 0.138 MMBtu/gal;	Distillate Fuel Oil No. 2	3,862.1 gal	0.4 g/MMBtu	2015 Default Emission Factors - Table #12.7	0.000213	0.066088

Source Emissions | Heating Fuel - B5 (Biofuel Portion CH4, N2O)

Activity Type	Gas	Fuel Type	End Use Sector	Technology	Calculation Method	SEM	Additional Information	Fuel	Fuel Quantity	Emission Factor (EF)	EF Reference	Gas Quantity	CO2e (t)
Stationary Combustion	CO2	Petroleum Products	Commercial	Natural Gas/Diesel Oil Boilers	Not Reporting	No	Heat Content: 0.138 MMBtu/gal;	Distillate Fuel Oil No. 2	152,225.6 gal	10.21 kg/gal	2015 Default Emission Factors - Table #12.1	0	0
Stationary Combustion	CH4	Petroleum Products	Commercial	Natural Gas/Diesel Oil Boilers	Emission Factor	No	Heat Content: 0.138 MMBtu/gal;	Distillate Fuel Oil No. 2	152,225.6 gal	0.7 g/MMBtu	2015 Default Emission Factors - Table #12.7	0.014705	0.308805
Stationary Combustion	N2O	Petroleum Products	Commercial	Natural Gas/Diesel Oil Boilers	Emission Factor	No	Heat Content: 0.138 MMBtu/gal;	Distillate Fuel Oil No. 2	152,225.6 gal	0.4 g/MMBtu	2015 Default Emission Factors - Table #12.7	0.008403	2.604884

Source Emissions | Heating Fuel - B5 (Biofuel Portion CO2)

Activity Type	Gas	Fuel Type	End Use Sector	Technology	Calculation Method	SEM	Additional Information	Fuel	Fuel Quantity	Emission Factor (EF)	EF Reference	Gas Quantity	CO2e (t)
Stationary Biomass Combustion - Biomass	CO2	Biomass Fuels - Liquid	Commercial	Unspecified Technology	Emission Factor	No	Heat Content: 0.128 MMBtu/gal;	Biodiese l (100%)	152,225.6 gal	9.45 kg/gal	2015 Default Emission Factors - Table #12.1	1,438.5319 2	1,438.5319 2
Stationary Combustion	CH4	Biomass Fuels - Liquid	Commercial	Unspecified Technology	Not Reporting	No	Heat Content: 0.128 MMBtu/gal;	Biodiese l (100%)	152,225.6 gal	10 g/MMBtu	2015 Default Emission Factors - Table #12.9	0	0
Stationary Combustion	N2O	Biomass Fuels - Liquid	Commercial	Unspecified Technology	Not Reporting	No	Heat Content: 0.128 MMBtu/gal;	Biodiese l (100%)	152,225.6 gal	0.6 g/MMBtu	2015 Default Emission Factors - Table #12.9	0	0

Source Emissions | Heating Fuel - B5 (Diesel Portion)

Activity Type	Gas	Fuel Type	End Use Sector	Technology	Calculation Method	SEM	Additional Information	Fuel	Fuel Quantity	Emission Factor (EF)	EF Reference	Gas Quantity	CO2e (t)
Stationary Combustion	CO2	Petroleum Products	Commercial	Natural Gas/Diesel Oil Boilers	Emission Factor	No	Heat Content: 0.138 MMBtu/gal;	Distillate Fuel Oil No. 2	2,892,287.3 gal	10.21 kg/gal	2015 Default Emission Factors - Table #12.1	29,530.253333	29,530.253333
Stationary Combustion	CH4	Petroleum Products	Commercial	Natural Gas/Diesel Oil Boilers	Emission Factor	No	Heat Content: 0.138 MMBtu/gal;	Distillate Fuel Oil No. 2	2,892,287.3 gal	0.7 g/MMBtu	2015 Default Emission Factors - Table #12.7	0.279395	5.867294
Stationary Combustion	N2O	Petroleum Products	Commercial	Natural Gas/Diesel Oil Boilers	Emission Factor	No	Heat Content: 0.138 MMBtu/gal;	Distillate Fuel Oil No. 2	2,892,287.3 gal	0.4 g/MMBtu	2015 Default Emission Factors - Table #12.7	0.159654	49.49282

Source Emissions | Kerosene

Activity Type	Gas	Fuel Type	End Use Sector	Technology	Calculation Method	SEM	Additional Information	Fuel	Fuel Quantity	Emission Factor (EF)	EF Reference	Gas Quantity	CO2e (t)
Stationary Combustion	CO2	Petroleum Products	Commercial	Unspecified Technology	Emission Factor	Yes	Heat Content: 0.135 MMBtu/gal;	Kerosene	19,274 gal	10.15 kg/gal	2015 Default Emission Factors - Table #12.1	195.6311	195.6311
Stationary Combustion	CH4	Petroleum Products	Commercial	Unspecified Technology	Emission Factor	Yes	Heat Content: 0.135 MMBtu/gal;	Kerosene	19,274 gal	10 g/MMBtu	2015 Default Emission Factors - Table #12.9	0.02602	0.546418
Stationary Combustion	N2O	Petroleum Products	Commercial	Unspecified Technology	Emission Factor	Yes	Heat Content: 0.135 MMBtu/gal;	Kerosene	19,274 gal	0.6 g/MMBtu	2015 Default Emission Factors - Table #12.9	0.001561	0.48397

Source Emissions | Natural Gas - CHGE

Activity Type	Gas	Fuel Type	End Use Sector	Technology	Calculation Method	SEM	Additional Information	Fuel	Fuel Quantity	Emission Factor (EF)	EF Reference	Gas Quantity	CO2e (t)
Stationary Combustion	CO2	Natural Gas	Commercial	Boilers	Emission Factor	No	Heat Content: 1026 Btu/scf;	Unspecified (Weighted U.S. Average)	24,968 MMBtu	53.06 kg/MMBtu	2015 Default Emission Factors - Table #12.1	1,324.80208	1,324.80208
Stationary Combustion	CH4	Natural Gas	Commercial	Boilers	Emission Factor	No	Heat Content: 1026 Btu/scf;	Unspecified (Weighted U.S. Average)	24,968 MMBtu	0.9 g/MMBtu	2015 Default Emission Factors - Table #12.8	0.022471	0.471895
Stationary Combustion	N2O	Natural Gas	Commercial	Boilers	Emission Factor	No	Heat Content: 1026 Btu/scf;	Unspecified (Weighted U.S. Average)	24,968 MMBtu	0.9 g/MMBtu	2015 Default Emission Factors - Table #12.8	0.022471	6.966072

Source Emissions | Natural Gas - ConEd

Activity Type	Gas	Fuel Type	End Use Sector	Technology	Calculation Method	SEM	Additional Information	Fuel	Fuel Quantity	Emission Factor (EF)	EF Reference	Gas Quantity	CO2e (t)
Stationary Combustion	CO2	Natural Gas	Commercial	Boilers	Emission Factor	No	Heat Content: 1026 Btu/scf;	Unspecified (Weighted U.S. Average)	8,732,936 therm	53.06 kg/MMBtu	2015 Default Emission Factors - Table #12.1	46,336.958416	46,336.958416
Stationary Combustion	CH4	Natural Gas	Commercial	Boilers	Emission Factor	No	Heat Content: 1026 Btu/scf;	Unspecified (Weighted U.S. Average)	8,732,936 therm	0.9 g/MMBtu	2015 Default Emission Factors - Table #12.8	0.785964	16.505249
Stationary Combustion	N2O	Natural Gas	Commercial	Boilers	Emission Factor	No	Heat Content: 1026 Btu/scf;	Unspecified (Weighted U.S. Average)	8,732,936 therm	0.9 g/MMBtu	2015 Default Emission Factors - Table #12.8	0.785964	243.648914

Source Emissions | Natural Gas - National Grid

Activity Type	Gas	Fuel Type	End Use Sector	Technology	Calculation Method	SEM	Additional Information	Fuel	Fuel Quantity	Emission Factor (EF)	EF Reference	Gas Quantity	CO2e (t)
Stationary Combustion	CO2	Natural Gas	Commercial	Boilers	Emission Factor	No	Heat Content: 1026 Btu/scf;	Unspecified (Weighted U.S. Average)	10,127,633 therm	53.06 kg/MMBtu	2015 Default Emission Factors - Table #12.1	53,737.220698	53,737.220698
Stationary Combustion	CH4	Natural Gas	Commercial	Boilers	Emission Factor	No	Heat Content: 1026 Btu/scf;	Unspecified (Weighted U.S. Average)	10,127,633 therm	0.9 g/MMBtu	2015 Default Emission Factors - Table #12.8	0.911487	19.141226
Stationary Combustion	N2O	Natural Gas	Commercial	Boilers	Emission Factor	No	Heat Content: 1026 Btu/scf;	Unspecified (Weighted U.S. Average)	10,127,633 therm	0.9 g/MMBtu	2015 Default Emission Factors - Table #12.8	0.911487	282.560961

Source Emissions | Steam - ConEd

Uses Con Edison steam coefficients. Back up attached.

Activity Type	Gas	Fuel Type	End Use Sector	Technology	Calculation Method	SEM	Additional Information	Fuel	Fuel Quantity	Emission Factor (EF)	EF Reference	Gas Quantity	CO2e (t)
Purchased Steam	CO2	PreCalculated	PreCalculated	PreCalculated	PreCalculated	Yes		PreCalculated				14,784.62856	14,784.62856
Purchased Steam	CH4	PreCalculated	PreCalculated	PreCalculated	PreCalculated	Yes		PreCalculated				0.34863	7.32123
Purchased Steam	N2O	PreCalculated	PreCalculated	PreCalculated	PreCalculated	Yes		PreCalculated				0.04808	14.9048

Facility Emissions | MTA Ground-based Non-Revenue Fleet

Equity share - 100% | Entity controls the facility emissions - Yes

347 Madison Ave, New York, New York, 10017, US

Scope 1 - Direct Emissions	Total CO ₂ e (t)	CO ₂ (t)	CH ₄ (t)	N ₂ O (t)	HFC (t of CO ₂ e)	PFC (t of CO ₂ e)	NF ₃ (t)	SF ₆ (t)
Mobile Combustion	44,035.941839	43,511.081319	2.16422	1.54649	0	0	0	0
Total	44,035.941839	43,511.081319	2.16422	1.54649	0	0	0	0

Biogenic - Direct Emissions	Total CO ₂ e (t)	CO ₂ (t)	CH ₄ (t)	N ₂ O (t)	HFC (t of CO ₂ e)	PFC (t of CO ₂ e)	NF ₃ (t)	SF ₆ (t)
Mobile Biomass Combustion	298.9425	298.9425	0	0	0	0	0	0
Total	298.9425	298.9425	0	0	0	0	0	0

Source Emissions | Bulk Gasoline

Activity Type	Gas	Fuel Type	End Use Sector	Technology	Calculation Method	SEM	Additional Information	Fuel	Fuel Quantity	Emission Factor (EF)	EF Reference	Gas Quantity	CO ₂ e (t)
Mobile Combustion	CO ₂	Motor Gasoline	Gasoline Light Trucks (Vans, Pickup Trucks, SUVs)	Low Emission Vehicles	Emission Factor	No	Heat Content: 5.25 MMBtu/bbl;	All	227,516 gal	8.78 kg/gal	2015 Default Emission Factors - Table #13.1	1,997.59048	1,997.59048
Mobile Combustion	CH ₄	Motor Gasoline	Gasoline Light Trucks (Vans, Pickup Trucks, SUVs)	Low Emission Vehicles	PreCalculated	Yes	Heat Content: 5.25 MMBtu/bbl;	All	0	0.0148 g/mi		0.09868	2.07228
Mobile Combustion	N ₂ O	Motor Gasoline	Gasoline Light Trucks (Vans, Pickup Trucks, SUVs)	Low Emission Vehicles	PreCalculated	Yes	Heat Content: 5.25 MMBtu/bbl;	All	0	0.0157 g/mi		0.07051	21.8581

Source Emissions | Bulk ULSD #2

Activity Type	Gas	Fuel Type	End Use Sector	Technology	Calculation Method	SEM	Additional Information	Fuel	Fuel Quantity	Emission Factor (EF)	EF Reference	Gas Quantity	CO2e (t)
Mobile Combustion	CO2	Diesel Fuel	Diesel Medium and Heavy-Duty Trucks and Buses	Advanced Control	Emission Factor	No	Heat Content: 5.8 MMBtu/bbl;	All	988,304 gal	10.21 kg/gal	2015 Default Emission Factors - Table #13.1	10,090.58384	10,090.58384
Mobile Combustion	CH4	Diesel Fuel	Diesel Medium and Heavy-Duty Trucks and Buses	Advanced Control	PreCalculated	Yes	Heat Content: 5.8 MMBtu/bbl;	All	0	0.0051 g/mi	2015 Default Emission Factors - Table #13.4	0.49847	10.46787
Mobile Combustion	N2O	Diesel Fuel	Diesel Medium and Heavy-Duty Trucks and Buses	Advanced Control	PreCalculated	Yes	Heat Content: 5.8 MMBtu/bbl;	All	0	0.0048 g/mi	2015 Default Emission Factors - Table #13.4	0.3562	110.422

Source Emissions | Fuel card E-85 (Ethanol Portion CH4, N2O)

Activity Type	Gas	Fuel Type	End Use Sector	Technology	Calculation Method	SEM	Additional Information	Fuel	Fuel Quantity	Emission Factor (EF)	EF Reference	Gas Quantity	CO2e (t)
Mobile Combustion	CO2	Motor Gasoline	Gasoline Light Trucks (Vans, Pickup Trucks, SUVs)	Low Emission Vehicles	Not Reporting	No	Heat Content: 5.25 MMBtu/bbl;	All	0	8.78 kg/gal	2015 Default Emission Factors - Table #13.1	0	0
Mobile Combustion	CH4	Motor Gasoline	Gasoline Light Trucks (Vans, Pickup Trucks, SUVs)	Low Emission Vehicles	PreCalculated	Yes	Heat Content: 5.25 MMBtu/bbl;	All	0	0.0148 g/mi		0.01477	0.31017
Mobile Combustion	N2O	Motor Gasoline	Gasoline Light Trucks (Vans, Pickup Trucks, SUVs)	Low Emission Vehicles	PreCalculated	Yes	Heat Content: 5.25 MMBtu/bbl;	All	0	0.0157 g/mi		0.01055	3.2705

Source Emissions | Fuel card E-85 (Ethanol Portion CO2)

Activity Type	Gas	Fuel Type	End Use Sector	Technology	Calculation Method	SEM	Additional Information	Fuel	Fuel Quantity	Emission Factor (EF)	EF Reference	Gas Quantity	CO2e (t)
Mobile Biomass Combustion - Biomass	CO2	Alternative Fuels	Light Duty Vehicles	Unspecified Technology	Emission Factor	No	Heat Content: 3.53 MMBtu/bbl;	Ethanol	51,990 gal	5.75 kg/gal	2015 Default Emission Factors - Table #13.1	298.9425	298.9425
Mobile Combustion	CH4	Alternative Fuels	Light Duty Vehicles	Unspecified Technology	Not Reporting	No	Heat Content: 3.53 MMBtu/bbl;	Ethanol	0	0.055 g/mi	2015 Default Emission Factors - Table #13.6	0	0
Mobile Combustion	N2O	Alternative Fuels	Light Duty Vehicles	Unspecified Technology	Not Reporting	No	Heat Content: 3.53 MMBtu/bbl;	Ethanol	0	0.067 g/mi	2015 Default Emission Factors - Table #13.6	0	0

Source Emissions | Fuel card E-85 Gasoline Portion

Activity Type	Gas	Fuel Type	End Use Sector	Technology	Calculation Method	SEM	Additional Information	Fuel	Fuel Quantity	Emission Factor (EF)	EF Reference	Gas Quantity	CO2e (t)
Mobile Combustion	CO2	Motor Gasoline	Gasoline Light Trucks (Vans, Pickup Trucks, SUVs)	Low Emission Vehicles	Emission Factor	No	Heat Content: 5.25 MMBtu/bbl;	All	9,174.7 gal	8.78 kg/gal	2015 Default Emission Factors - Table #13.1	80.553866	80.553866
Mobile Combustion	CH4	Motor Gasoline	Gasoline Light Trucks (Vans, Pickup Trucks, SUVs)	Low Emission Vehicles	PreCalculated	Yes	Heat Content: 5.25 MMBtu/bbl;	All	0	0.0148 g/mi		0.00398	0.08358
Mobile Combustion	N2O	Motor Gasoline	Gasoline Light Trucks (Vans, Pickup Trucks, SUVs)	Low Emission Vehicles	PreCalculated	Yes	Heat Content: 5.25 MMBtu/bbl;	All	0	0.0157 g/mi		0.00284	0.8804

Source Emissions | Fuel card Gasoline

Activity Type	Gas	Fuel Type	End Use Sector	Technology	Calculation Method	SEM	Additional Information	Fuel	Fuel Quantity	Emission Factor (EF)	EF Reference	Gas Quantity	CO2e (t)
Mobile Combustion	CO2	Motor Gasoline	Gasoline Light Trucks (Vans, Pickup Trucks, SUVs)	Low Emission Vehicles	Emission Factor	No	Heat Content: 5.25 MMBtu/bbl;	All	2,319,325.16 gal	8.78 kg/gal	2015 Default Emission Factors - Table #13.1	20,363.674 905	20,363.674 905
Mobile Combustion	CH4	Motor Gasoline	Gasoline Light Trucks (Vans, Pickup Trucks, SUVs)	Low Emission Vehicles	PreCalculated	Yes	Heat Content: 5.25 MMBtu/bbl;	All	0	0.0148 g/mi		1.00597	21.12537
Mobile Combustion	N2O	Motor Gasoline	Gasoline Light Trucks (Vans, Pickup Trucks, SUVs)	Low Emission Vehicles	PreCalculated	Yes	Heat Content: 5.25 MMBtu/bbl;	All	0	0.0157 g/mi		0.71884	222.8404

Source Emissions | Fuel card ULSD #2

Activity Type	Gas	Fuel Type	End Use Sector	Technology	Calculation Method	SEM	Additional Information	Fuel	Fuel Quantity	Emission Factor (EF)	EF Reference	Gas Quantity	CO2e (t)
Mobile Combustion	CO2	Diesel Fuel	Diesel Medium and Heavy-Duty Trucks and Buses	Advanced Control	Emission Factor	No	Heat Content: 5.8 MMBtu/bbl;	All	1,075,286.8 gal	10.21 kg/gal	2015 Default Emission Factors - Table #13.1	10,978.678 228	10,978.678 228
Mobile Combustion	CH4	Diesel Fuel	Diesel Medium and Heavy-Duty Trucks and Buses	Advanced Control	PreCalculated	Yes	Heat Content: 5.8 MMBtu/bbl;	All	0	0.0051 g/mi	2015 Default Emission Factors - Table #13.4	0.54235	11.38935
Mobile Combustion	N2O	Diesel Fuel	Diesel Medium and Heavy-Duty Trucks and Buses	Advanced Control	PreCalculated	Yes	Heat Content: 5.8 MMBtu/bbl;	All	0	0.0048 g/mi	2015 Default Emission Factors - Table #13.4	0.38755	120.1405

Facility Emissions | MTA Ground-based Revenue Fleet

Equity share - 100% | Entity controls the facility emissions - Yes

347 Madison Ave, New York, New York, 10017, US

Scope 1 - Direct Emissions	Total CO ₂ e (t)	CO ₂ (t)	CH ₄ (t)	N ₂ O (t)	HFC (t of CO ₂ e)	PFC (t of CO ₂ e)	NF ₃ (t)	SF ₆ (t)
Mobile Combustion	704,196.109374	700,660.845212	51.443437	7.9192	0	0	0	0
Total	704,196.109374	700,660.845212	51.443437	7.9192	0	0	0	0

Source Emissions | LIRR passenger trains - ULSD #2

Activity Type	Gas	Fuel Type	End Use Sector	Technology	Calculation Method	SEM	Additional Information	Fuel	Fuel Quantity	Emission Factor (EF)	EF Reference	Gas Quantity	CO ₂ e (t)
Mobile Combustion	CO ₂	Diesel Fuel	Non-Highway	Locomotives	Emission Factor	No	Heat Content: 5.8 MMBtu/bbl;	All	7,409,531 gal	10.21 kg/gal	2015 Default Emission Factors - Table #13.1	75,651.31151	75,651.31151
Mobile Combustion	CH ₄	Diesel Fuel	Non-Highway	Locomotives	Emission Factor	No	Heat Content: 5.8 MMBtu/bbl;	All	7,409,531 gal	0.8 g/gal	2015 Default Emission Factors - Table #13.7	5.927625	124.480121
Mobile Combustion	N ₂ O	Diesel Fuel	Non-Highway	Locomotives	Emission Factor	No	Heat Content: 5.8 MMBtu/bbl;	All	7,409,531 gal	0.26 g/gal	2015 Default Emission Factors - Table #13.7	1.926478	597.208199

Source Emissions | MNR passenger trains - ULSD #2

Activity Type	Gas	Fuel Type	End Use Sector	Technology	Calculation Method	SEM	Additional Information	Fuel	Fuel Quantity	Emission Factor (EF)	EF Reference	Gas Quantity	CO2e (t)
Mobile Combustion	CO2	Diesel Fuel	Non-Highway	Locomotives	Emission Factor	No	Heat Content: 5.8 MMBtu/bbl;	All	7,222,691 gal	10.21 kg/gal	2015 Default Emission Factors - Table #13.1	73,743.67511	73,743.67511
Mobile Combustion	CH4	Diesel Fuel	Non-Highway	Locomotives	Emission Factor	No	Heat Content: 5.8 MMBtu/bbl;	All	7,222,691 gal	0.8 g/gal	2015 Default Emission Factors - Table #13.7	5.778153	121.341209
Mobile Combustion	N2O	Diesel Fuel	Non-Highway	Locomotives	Emission Factor	No	Heat Content: 5.8 MMBtu/bbl;	All	7,222,691 gal	0.26 g/gal	2015 Default Emission Factors - Table #13.7	1.8779	582.148895

Source Emissions | MTA Bus - CNG

Activity Type	Gas	Fuel Type	End Use Sector	Technology	Calculation Method	SEM	Additional Information	Fuel	Fuel Quantity	Emission Factor (EF)	EF Reference	Gas Quantity	CO2e (t)
Mobile Combustion	CO2	Alternative Fuels	Buses	Unspecified Technology	Emission Factor	No	Heat Content: 1027 Btu/scf;	Compressed Natural Gas (CNG)	2,264,252 therm	0.054 kg/scf	2015 Default Emission Factors - Table #13.1	11,905.511977	11,905.511977
Mobile Combustion	CH4	Alternative Fuels	Buses	Unspecified Technology	Emission Factor	No	Heat Content: 1027 Btu/scf;	Compressed Natural Gas (CNG)	6,487,363 mi	1.966 g/mi	2015 Default Emission Factors - Table #13.6	12.754156	267.837269
Mobile Combustion	N2O	Alternative Fuels	Buses	Unspecified Technology	Emission Factor	No	Heat Content: 1027 Btu/scf;	Compressed Natural Gas (CNG)	6,487,363 mi	0.175 g/mi	2015 Default Emission Factors - Table #13.6	1.135289	351.939443

Source Emissions | MTA Bus - ULSD #2

Activity Type	Gas	Fuel Type	End Use Sector	Technology	Calculation Method	SEM	Additional Information	Fuel	Fuel Quantity	Emission Factor (EF)	EF Reference	Gas Quantity	CO2e (t)
Mobile Combustion	CO2	Diesel Fuel	Diesel Medium and Heavy-Duty Trucks and Buses	Advanced Control	Emission Factor	No	Heat Content: 5.8 MMBtu/bbl;	All	10,409,100 gal	10.21 kg/gal	2015 Default Emission Factors - Table #13.1	106,276.91	106,276.91
Mobile Combustion	CH4	Diesel Fuel	Diesel Medium and Heavy-Duty Trucks and Buses	Advanced Control	Emission Factor	No	Heat Content: 5.8 MMBtu/bbl;	All	29,882,812 mi	0.0051 g/mi	2015 Default Emission Factors - Table #13.4	0.152402	3.200449
Mobile Combustion	N2O	Diesel Fuel	Diesel Medium and Heavy-Duty Trucks and Buses	Advanced Control	Emission Factor	No	Heat Content: 5.8 MMBtu/bbl;	All	29,882,812 mi	0.0048 g/mi	2015 Default Emission Factors - Table #13.4	0.143437	44.465624

Source Emissions | NYCT Bus - CNG

Activity Type	Gas	Fuel Type	End Use Sector	Technology	Calculation Method	SEM	Additional Information	Fuel	Fuel Quantity	Emission Factor (EF)	EF Reference	Gas Quantity	CO2e (t)
Mobile Combustion	CO2	Alternative Fuels	Buses	Unspecified Technology	Emission Factor	No	Heat Content: 1027 Btu/scf;	Compressed Natural Gas (CNG)	9,768,389 therm	0.054 kg/scf	2015 Default Emission Factors - Table #13.1	51,362.512	51,362.512
Mobile Combustion	CH4	Alternative Fuels	Buses	Unspecified Technology	Emission Factor	No	Heat Content: 1027 Btu/scf;	Compressed Natural Gas (CNG)	13,380,288 mi	1.966 g/mi	2015 Default Emission Factors - Table #13.6	26.305646	552.41857
Mobile Combustion	N2O	Alternative Fuels	Buses	Unspecified Technology	Emission Factor	No	Heat Content: 1027 Btu/scf;	Compressed Natural Gas (CNG)	13,380,288 mi	0.175 g/mi	2015 Default Emission Factors - Table #13.6	2.34155	725.880624

Source Emissions | NYCT Bus - ULSD #2

Activity Type	Gas	Fuel Type	End Use Sector	Technology	Calculation Method	SEM	Additional Information	Fuel	Fuel Quantity	Emission Factor (EF)	EF Reference	Gas Quantity	CO2e (t)
Mobile Combustion	CO2	Diesel Fuel	Diesel Medium and Heavy-Duty Trucks and Buses	Advanced Control	Emission Factor	No	Heat Content: 5.8 MMBtu/bbl;	All	37,386,966 gal	10.21 kg/gal	2015 Default Emission Factors - Table #13.1	381,720.92286	381,720.92286
Mobile Combustion	CH4	Diesel Fuel	Diesel Medium and Heavy-Duty Trucks and Buses	Advanced Control	Emission Factor	No	Heat Content: 5.8 MMBtu/bbl;	All	103,030,380 mi	0.0051 g/mi	2015 Default Emission Factors - Table #13.4	0.525455	11.034554
Mobile Combustion	N2O	Diesel Fuel	Diesel Medium and Heavy-Duty Trucks and Buses	Advanced Control	Emission Factor	No	Heat Content: 5.8 MMBtu/bbl;	All	103,030,380 mi	0.0048 g/mi	2015 Default Emission Factors - Table #13.4	0.494546	153.309205

Facility Emissions | MTA Traction Power Electricity

Equity share - 100% | Entity controls the facility emissions - Yes

347 Madison Ave, New York, New York, 10027, US

Scope 2 - Market Based - Indirect Emissions	Total CO2e (t)	CO2 (t)	CH4 (t)	N2O (t)	HFC (t of CO2e)	PFC (t of CO2e)	NF3 (t)	SF6 (t)
Purchased Electricity - Market Based	932,549.493673	930,762.246467	29.842767	3.743707	0	0	0	0
Total	932,549.493673	930,762.246467	29.842767	3.743707	0	0	0	0

Source Emissions | LIRR - Traction Electricity - NYPA

For all electricity consumed within NYC, MTA will use customize emission factors developed by the NYC Mayor's Office of Long Term Planning & Sustainability.

Activity Type	Gas	Fuel Type	End Use Sector	Technology	Calculation Method	SEM	Additional Information	Fuel	Fuel Quantity	Emission Factor (EF)	EF Reference	Gas Quantity	CO2e (t)
Purchased Electricity	CO2	NPCC NYC/Westchester	All	Unspecified Technology	Emission Factor	No		All	217,610,400 kWh	674.587 lb/MWh	Custom Emission Factor	66,586.181483	66,586.181483
Purchased Electricity	CH4	NPCC NYC/Westchester	All	Unspecified Technology	Emission Factor	No		All	217,610,400 kWh	13.0161 lb/GWh	Custom Emission Factor	1.284772	26.980215
Purchased Electricity	N2O	NPCC NYC/Westchester	All	Unspecified Technology	Emission Factor	No		All	217,610,400 kWh	1.34923 lb/GWh	Custom Emission Factor	0.133178	41.285123

Source Emissions | LIRR - Traction Electricity - PSEG-LI

Activity Type	Gas	Fuel Type	End Use Sector	Technology	Calculation Method	SEM	Additional Information	Fuel	Fuel Quantity	Emission Factor (EF)	EF Reference	Gas Quantity	CO2e (t)
Purchased Electricity	CO2	NPCC Long Island	All	Unspecified Technology	Emission Factor	No		All	357,290,378 kWh	1336.11 lb/MWh	2015 Default Emission Factors - Table #14.1	216,535.841528	216,535.841528
Purchased Electricity	CH4	NPCC Long Island	All	Unspecified Technology	Emission Factor	No		All	357,290,378 kWh	81.49 lb/GWh	2015 Default Emission Factors - Table #14.1	13.206626	277.339156
Purchased Electricity	N2O	NPCC Long Island	All	Unspecified Technology	Emission Factor	No		All	357,290,378 kWh	10.28 lb/GWh	2015 Default Emission Factors - Table #14.1	1.666022	516.466773

Source Emissions | MNR - Traction Electricity - CLP

Activity Type	Gas	Fuel Type	End Use Sector	Technology	Calculation Method	SEM	Additional Information	Fuel	Fuel Quantity	Emission Factor (EF)	EF Reference	Gas Quantity	CO2e (t)
Purchased Electricity	CO2	NPCC New England	All	Unspecified Technology	Emission Factor	No		All	105,349,568 kWh	722.07 lb/MWh	2015 Default Emission Factors - Table #14.1	34,504.704922	34,504.704922
Purchased Electricity	CH4	NPCC New England	All	Unspecified Technology	Emission Factor	No		All	105,349,568 kWh	71.76 lb/GWh	2015 Default Emission Factors - Table #14.1	3.42911	72.011315
Purchased Electricity	N2O	NPCC New England	All	Unspecified Technology	Emission Factor	No		All	105,349,568 kWh	12.98 lb/GWh	2015 Default Emission Factors - Table #14.1	0.62026	192.280571

Source Emissions | MNR - Traction Electricity - NYPA

For all electricity consumed within NYC, MTA will use customize emission factors developed by the NYC Mayor's Office of Long Term Planning & Sustainability.

Activity Type	Gas	Fuel Type	End Use Sector	Technology	Calculation Method	SEM	Additional Information	Fuel	Fuel Quantity	Emission Factor (EF)	EF Reference	Gas Quantity	CO2e (t)
Purchased Electricity	CO2	NPCC NYC/Westchester	All	Unspecified Technology	Emission Factor	No		All	302,656,800 kWh	674.587 lb/MWh	Custom Emission Factor	92,609.363394	92,609.363394
Purchased Electricity	CH4	NPCC NYC/Westchester	All	Unspecified Technology	Emission Factor	No		All	302,656,800 kWh	13.0161 lb/GWh	Custom Emission Factor	1.786886	37.524611
Purchased Electricity	N2O	NPCC NYC/Westchester	All	Unspecified Technology	Emission Factor	No		All	302,656,800 kWh	1.34923 lb/GWh	Custom Emission Factor	0.185226	57.420157

Source Emissions | MNR - Traction Electricity - NYSEG

Activity Type	Gas	Fuel Type	End Use Sector	Technology	Calculation Method	SEM	Additional Information	Fuel	Fuel Quantity	Emission Factor (EF)	EF Reference	Gas Quantity	CO2e (t)
Purchased Electricity	CO2	NPCC Upstate NY	All	Unspecified Technology	Emission Factor	No		All	35,113,248 kWh	545.79 lb/MWh	2015 Default Emission Factors - Table #14.1	8,692.862999	8,692.862999
Purchased Electricity	CH4	NPCC Upstate NY	All	Unspecified Technology	Emission Factor	No		All	35,113,248 kWh	16.3 lb/GWh	2015 Default Emission Factors - Table #14.1	0.259612	5.451853
Purchased Electricity	N2O	NPCC Upstate NY	All	Unspecified Technology	Emission Factor	No		All	35,113,248 kWh	7.24 lb/GWh	2015 Default Emission Factors - Table #14.1	0.115312	35.746829

Source Emissions | NYCT - Traction Electricity - NYPA

For all electricity consumed within NYC, MTA will use customize emission factors developed by the NYC Mayor's Office of Long Term Planning & Sustainability.

Activity Type	Gas	Fuel Type	End Use Sector	Technology	Calculation Method	SEM	Additional Information	Fuel	Fuel Quantity	Emission Factor (EF)	EF Reference	Gas Quantity	CO2e (t)
Purchased Electricity	CO2	NPCC NYC/Westchester	All	Unspecified Technology	Emission Factor	No		All	1,655,254,713 kWh	674.587 lb/MWh	Custom Emission Factor	506,488.158287	506,488.158287
Purchased Electricity	CH4	NPCC NYC/Westchester	All	Unspecified Technology	Emission Factor	No		All	1,655,254,713 kWh	13.0161 lb/GWh	Custom Emission Factor	9.772626	205.225156
Purchased Electricity	N2O	NPCC NYC/Westchester	All	Unspecified Technology	Emission Factor	No		All	1,655,254,713 kWh	1.34923 lb/GWh	Custom Emission Factor	1.013018	314.03552

Source Emissions | NYCT - Traction Electricity - PSEG-LI (NYC)

For all electricity consumed within NYC, MTA will use customize emission factors developed by the NYC Mayor's Office of Long Term Planning & Sustainability.

Activity Type	Gas	Fuel Type	End Use Sector	Technology	Calculation Method	SEM	Additional Information	Fuel	Fuel Quantity	Emission Factor (EF)	EF Reference	Gas Quantity	CO2e (t)
Purchased Electricity	CO2	NPCC NYC/Westchester	All	Unspecified Technology	Emission Factor	No		All	17,468,440 kWh	674.587 lb/MWh	Custom Emission Factor	5,345.133854	5,345.133854
Purchased Electricity	CH4	NPCC NYC/Westchester	All	Unspecified Technology	Emission Factor	No		All	17,468,440 kWh	13.0161 lb/GWh	Custom Emission Factor	0.103134	2.165808
Purchased Electricity	N2O	NPCC NYC/Westchester	All	Unspecified Technology	Emission Factor	No		All	17,468,440 kWh	1.34923 lb/GWh	Custom Emission Factor	0.010691	3.314119

Facility Emissions | NYCT Paratransit Ground-Based Fleet

Equity share - 100% | Entity controls the facility emissions - Yes

347 Madison Ave, New York, New York, 10017, US

Optional - Optional Emissions	Total CO ₂ e (t)	CO ₂ (t)	CH ₄ (t)	N ₂ O (t)	HFC (t of CO ₂ e)	PFC (t of CO ₂ e)	NF ₃ (t)	SF ₆ (t)
Scope 3	61,306.4738	60,580.69541	2.99269	2.13849	0	0	0	0
Total	61,306.4738	60,580.69541	2.99269	2.13849	0	0	0	0

Source Emissions | Fuel card CNG

Activity Type	Gas	Fuel Type	End Use Sector	Technology	Calculation Method	SEM	Additional Information	Fuel	Fuel Quantity	Emission Factor (EF)	EF Reference	Gas Quantity	CO2e (t)
Scope 3 (Optional)	CO2	N/A	All	Unspecified Technology	PreCalculated	No		N/A				144.8604	144.8604
Scope 3 (Optional)	CH4	N/A	All	Unspecified Technology	PreCalculated	Yes		N/A				0.00716	0.15036
Scope 3 (Optional)	N2O	N/A	All	Unspecified Technology	PreCalculated	Yes		N/A				0.00511	1.5841

Source Emissions | Fuel card Gasoline

Activity Type	Gas	Fuel Type	End Use Sector	Technology	Calculation Method	SEM	Additional Information	Fuel	Fuel Quantity	Emission Factor (EF)	EF Reference	Gas Quantity	CO2e (t)
Scope 3 (Optional)	CO2	N/A	All	Unspecified Technology	PreCalculated	No		N/A				20,323.83864	20,323.83864
Scope 3 (Optional)	CH4	N/A	All	Unspecified Technology	PreCalculated	Yes		N/A				1.004	21.084
Scope 3 (Optional)	N2O	N/A	All	Unspecified Technology	PreCalculated	Yes		N/A				0.71743	222.4033

Source Emissions | Fuel card ULSD #2

Activity Type	Gas	Fuel Type	End Use Sector	Technology	Calculation Method	SEM	Additional Information	Fuel	Fuel Quantity	Emission Factor (EF)	EF Reference	Gas Quantity	CO2e (t)
Scope 3 (Optional)	CO2	N/A	All	Unspecified Technology	PreCalculated	No		N/A				40,111.99637	40,111.99637
Scope 3 (Optional)	CH4	N/A	All	Unspecified Technology	PreCalculated	Yes		N/A				1.98153	41.61213
Scope 3 (Optional)	N2O	N/A	All	Unspecified Technology	PreCalculated	Yes		N/A				1.41595	438.9445