

**New York State Metropolitan  
Transportation Authority****Detail Report - Control (Private)****Complete Inventory 2017****Description:****Industry:** 48 - Transportation and Warehousing**Address:** 2 Broadway  
4th Floor  
New York, New York US**Contact:**  
Projjal Dutta  
pdutta@mtahq.org**Website:** [www.mta.info/sustainability](http://www.mta.info/sustainability)

---

**Reporting Information**

---

Reporting Protocol: General Reporting Protocol 2.1 and associated updates and clarifications

Additional Reporting Standards: None

GWP Standard: AR5

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 <sub>2</sub> e (t)	CO <sub>2</sub> (t)	CH <sub>4</sub> (t of CO <sub>2</sub> e)	N <sub>2</sub> O (t of CO <sub>2</sub> e)	HFC (t of CO <sub>2</sub> e)	PFC (t of CO <sub>2</sub> e)	NF <sub>3</sub> (t of CO <sub>2</sub> e)	SF <sub>6</sub> (t of CO <sub>2</sub> e)
Stationary Combustion	103,202.28231	102,761.557081	48.376105	392.349123	0	0	0	0
Mobile Combustion	722,902.887669	715,728.621168	5,861.600004	1,312.666497	0	0	0	0
Fugitive	36,686.489863	0	0	0	36,686.489863	0	0	0
<b>Total</b>	862,791.659842	818,490.178249	5,909.97611	1,705.01562	36,686.489863	0	0	0
<b>NetTotal</b>	862,791.659842	818,490.178249	5,909.97611	1,705.01562	36,686.489863	0	0	0

Scope 2 - Location Based - Indirect Emissions	Total CO <sub>2</sub> e (t)	CO <sub>2</sub> (t)	CH <sub>4</sub> (t of CO <sub>2</sub> e)	N <sub>2</sub> O (t of CO <sub>2</sub> e)	HFC (t of CO <sub>2</sub> e)	PFC (t of CO <sub>2</sub> e)	NF <sub>3</sub> (t of CO <sub>2</sub> e)	SF <sub>6</sub> (t of CO <sub>2</sub> e)
Purchased Electricity - Location Based	1,061,262.467295	1,057,209.251033	1,802.502509	2,250.713753	0	0	0	0
Purchased Steam - Location Based	9,400.94329	9,389.33	5.19764	6.41565	0	0	0	0
<b>Total</b>	1,070,663.410585	1,066,598.581033	1,807.700149	2,257.129403	0	0	0	0
<b>NetTotal</b>	1,070,663.410585	1,066,598.581033	1,807.700149	2,257.129403	0	0	0	0

Scope 2 - Market Based - Indirect Emissions	Total CO <sub>2</sub> e (t)	CO <sub>2</sub> (t)	CH <sub>4</sub> (t of CO <sub>2</sub> e)	N <sub>2</sub> O (t of CO <sub>2</sub> e)	HFC (t of CO <sub>2</sub> e)	PFC (t of CO <sub>2</sub> e)	NF <sub>3</sub> (t of CO <sub>2</sub> e)	SF <sub>6</sub> (t of CO <sub>2</sub> e)
Purchased Electricity - Market Based	1,061,262.467295	1,057,209.251033	1,802.502509	2,250.713753	0	0	0	0
Purchased Steam - Market Based	9,400.94329	9,389.33	5.19764	6.41565	0	0	0	0
<b>Total</b>	1,070,663.410585	1,066,598.581033	1,807.700149	2,257.129403	0	0	0	0
<b>NetTotal</b>	1,070,663.410585	1,066,598.581033	1,807.700149	2,257.129403	0	0	0	0

Biogenic - Direct Emissions	Total CO <sub>2</sub> e (t)	CO <sub>2</sub> (t)	CH <sub>4</sub> (t of CO <sub>2</sub> e)	N <sub>2</sub> O (t of CO <sub>2</sub> e)	HFC (t of CO <sub>2</sub> e)	PFC (t of CO <sub>2</sub> e)	NF <sub>3</sub> (t of CO <sub>2</sub> e)	SF <sub>6</sub> (t of CO <sub>2</sub> e)
Stationary Biomass Combustion	1,033.050375	1,033.050375	0	0	0	0	0	0
Mobile Biomass Combustion	260.161273	260.161273	0	0	0	0	0	0
<b>Total</b>	1,293.211648	1,293.211648	0	0	0	0	0	0
<b>NetTotal</b>	1,293.211648	1,293.211648	0	0	0	0	0	0

Optional - Optional Emissions	Total CO <sub>2</sub> e (t)	CO <sub>2</sub> (t)	CH <sub>4</sub> (t of CO <sub>2</sub> e)	N <sub>2</sub> O (t of CO <sub>2</sub> e)	HFC (t of CO <sub>2</sub> e)	PFC (t of CO <sub>2</sub> e)	NF <sub>3</sub> (t of CO <sub>2</sub> e)	SF <sub>6</sub> (t of CO <sub>2</sub> e)
Scope 3	55,943.39335	55,941.59	0.6188	1.18455	0	0	0	0
<b>Total</b>	55,943.39335	55,941.59	0.6188	1.18455	0	0	0	0
<b>NetTotal</b>	55,943.39335	55,941.59	0.6188	1.18455	0	0	0	0

## Entity Emissions | Total in metric tons of gas

Scope 1 - Direct Emissions	Total CO <sub>2</sub> e (t)	CO <sub>2</sub> (t)	CH <sub>4</sub> (t)	N <sub>2</sub> O (t)	HFC (t of CO <sub>2</sub> e)	PFC (t of CO <sub>2</sub> e)	NF <sub>3</sub> (t)	SF <sub>6</sub> (t)
Stationary Combustion	103,202.28231	102,761.557081	1.727718	1.480563	0	0	0	0
Mobile Combustion	722,902.887669	715,728.621168	209.342857	4.953458	0	0	0	0
Fugitive	36,686.489863	0	0	0	36,686.489863	0	0	0
<b>Total</b>	862,791.659842	818,490.178249	211.070575	6.434021	36,686.489863	0	0	0

Scope 2 - Location Based - Indirect Emissions	Total CO <sub>2</sub> e (t)	CO <sub>2</sub> (t)	CH <sub>4</sub> (t)	N <sub>2</sub> O (t)	HFC (t of CO <sub>2</sub> e)	PFC (t of CO <sub>2</sub> e)	NF <sub>3</sub> (t)	SF <sub>6</sub> (t)
Purchased Electricity - Location Based	1,061,262.467295	1,057,209.251033	64.37509	8.493259	0	0	0	0
Purchased Steam - Location Based	9,400.94329	9,389.33	0.18563	0.02421	0	0	0	0
<b>Total</b>	<b>1,070,663.410585</b>	<b>1,066,598.581033</b>	<b>64.56072</b>	<b>8.517469</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

Scope 2 - Market Based - Indirect Emissions	Total CO <sub>2</sub> e (t)	CO <sub>2</sub> (t)	CH <sub>4</sub> (t)	N <sub>2</sub> O (t)	HFC (t of CO <sub>2</sub> e)	PFC (t of CO <sub>2</sub> e)	NF <sub>3</sub> (t)	SF <sub>6</sub> (t)
Purchased Electricity - Market Based	1,061,262.467295	1,057,209.251033	64.37509	8.493259	0	0	0	0
Purchased Steam - Market Based	9,400.94329	9,389.33	0.18563	0.02421	0	0	0	0
<b>Total</b>	<b>1,070,663.410585</b>	<b>1,066,598.581033</b>	<b>64.56072</b>	<b>8.517469</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

Biogenic - Direct Emissions	Total CO <sub>2</sub> e (t)	CO <sub>2</sub> (t)	CH <sub>4</sub> (t)	N <sub>2</sub> O (t)	HFC (t of CO <sub>2</sub> e)	PFC (t of CO <sub>2</sub> e)	NF <sub>3</sub> (t)	SF <sub>6</sub> (t)
Stationary Biomass Combustion	1,033.050375	1,033.050375	0	0	0	0	0	0
Mobile Biomass Combustion	260.161273	260.161273	0	0	0	0	0	0
<b>Total</b>	<b>1,293.211648</b>	<b>1,293.211648</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

Optional - Optional Emissions	Total CO <sub>2</sub> e (t)	CO <sub>2</sub> (t)	CH <sub>4</sub> (t)	N <sub>2</sub> O (t)	HFC (t of CO <sub>2</sub> e)	PFC (t of CO <sub>2</sub> e)	NF <sub>3</sub> (t)	SF <sub>6</sub> (t)
Scope 3	55,943.39335	55,941.59	0.0221	0.00447	0	0	0	0
<b>Total</b>	<b>55,943.39335</b>	<b>55,941.59</b>	<b>0.0221</b>	<b>0.00447</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

## Simplified Estimation Methods (SEMs)

	Total Estimated CO <sub>2e</sub> (t)	Total Emissions (t of CO <sub>2e</sub> )	Estimated CO <sub>2e</sub> as a Percentage of Total*
Location Based	46,248.077068	1,934,748.282075	2.39039246070818%
Market Based	46,248.077068	1,934,748.282075	2.39039246070818%

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

## Facility Emissions | MTA Fugitive Emissions

Equity share - 100% | Entity controls the facility emissions - Yes  
2 Broadway, New York, New York, 10004, US

Scope 1 - Direct Emissions	Total CO <sub>2e</sub> (t)	CO <sub>2</sub> (t)	CH <sub>4</sub> (t)	N <sub>2</sub> O (t)	HFC (t of CO <sub>2e</sub> )	PFC (t of CO <sub>2e</sub> )	NF <sub>3</sub> (t)	SF <sub>6</sub> (t)
Fugitive	36,686.489863	0	0	0	36,686.489863	0	0	0
<b>Total</b>	<b>36,686.489863</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>36,686.489863</b>	<b>0</b>	<b>0</b>	<b>0</b>

## Source Emissions | Refrigerants

Updated 9/16/2020. Direct measurement from rolling stock A/C and SEM from the buildings

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 <sub>2e</sub> (t)
Fugitive	HFC-134a	N/A	All	Unspecified Technology	PreCalculated	Yes		N/A	N/A	N/A	N/A	7.951919	10,337.494375
Fugitive	R-407C	N/A	All	Unspecified Technology	PreCalculated	Yes		N/A	N/A	N/A	N/A	7.900008	12,829.61343
Fugitive	R-438A	N/A	All	Unspecified Technology	PreCalculated	Yes		N/A	N/A	N/A	N/A	6.565994	13,519.382058

## Facility Emissions | MTA Mobile Non-revenue Fuel

New York State Metropolitan  
Transportation Authority

Equity share - 100% | Entity controls the facility emissions - Yes  
 2 Broadway, New York, New York, 10004, US

Scope 1 - Direct Emissions	Total CO <sub>2</sub> e (t)	CO <sub>2</sub> (t)	CH <sub>4</sub> (t)	N <sub>2</sub> O (t)	HFC (t of CO <sub>2</sub> e)	PFC (t of CO <sub>2</sub> e)	NF <sub>3</sub> (t)	SF <sub>6</sub> (t)
Mobile Combustion	46,648.39268	46,487.748765	1.949151	0.400255	0	0	0	0
<b>Total</b>	46,648.39268	46,487.748765	1.949151	0.400255	0	0	0	0

Biogenic - Direct Emissions	Total CO <sub>2</sub> e (t)	CO <sub>2</sub> (t)	CH <sub>4</sub> (t)	N <sub>2</sub> O (t)	HFC (t of CO <sub>2</sub> e)	PFC (t of CO <sub>2</sub> e)	NF <sub>3</sub> (t)	SF <sub>6</sub> (t)
Mobile Biomass Combustion	260.161273	260.161273	0	0	0	0	0	0
<b>Total</b>	260.161273	260.161273	0	0	0	0	0	0

### Source Emissions | Diesel - MTAWD - Bulk

Gallons quantity and SEM updated 9/29/20

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 <sub>2</sub> e (t)
Mobile Combustion	CO <sub>2</sub>	Diesel Fuel	Diesel Medium and Heavy-Duty Trucks and Buses	Advanced Control	Emission Factor	No		All	1,106,592 gal	10.21 kg/gal	2019 Default Emission Factors - Table #2.1	11,298.30432	11,298.30432
Mobile Combustion	CH <sub>4</sub>	Diesel Fuel	Diesel Medium and Heavy-Duty Trucks and Buses	Advanced Control	PreCalculated	Yes		All	N/A	N/A	N/A	0.4537	12.7036
Mobile Combustion	N <sub>2</sub> O	Diesel Fuel	Diesel Medium and Heavy-Duty Trucks and Buses	Advanced Control	PreCalculated	Yes		All	N/A	N/A	N/A	0.0885	23.4525

## Source Emissions | Diesel - MTAWD - Fuel Card

SEM updated 9/16/20

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 Busses	Advanced Control	Emission Factor	No		All	1,067,279 gal	10.21 kg/gal	2019 Default Emission Factors - Table #2.1	10,896.91859	10,896.91859
Mobile Combustion	CH4	Diesel Fuel	Diesel Medium and Heavy-Duty Trucks and Busses	Advanced Control	PreCalculated	Yes		All	N/A	N/A	N/A	0.44	12.32
Mobile Combustion	N2O	Diesel Fuel	Diesel Medium and Heavy-Duty Trucks and Busses	Advanced Control	PreCalculated	Yes		All	N/A	N/A	N/A	0.09	23.85

## Source Emissions | E85 - MTAWD (Gasoline Portion)

SEM updated 9/29/2020

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		All	7,984.49 gal	8.78 kg/gal	2019 Default Emission Factors - Table #2.1	70.103815	70.103815
Mobile Combustion	CH4	Motor Gasoline	Gasoline Light Trucks (Vans, Pickup Trucks, SUVs)	Low Emission Vehicles	PreCalculated	Yes		All	N/A	N/A	N/A	0.003	0.084
Mobile Combustion	N2O	Motor Gasoline	Gasoline Light Trucks (Vans, Pickup Trucks, SUVs)	Low Emission Vehicles	PreCalculated	Yes		All	N/A	N/A	N/A	0.0006	0.159

## Source Emissions | E85 - MTAWD (Ethanol Portion CH4, N2O)

Updated 10/1.

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 Cars	Flex Fuel Internal Combustion Engine	Not Reporting	No		Ethanol	45,245.44 gal	5.75 kg/gal	2019 Default Emission Factors - Table #2.1	0	0
Mobile Combustion	CH4	Alternative Fuels	Light Duty Cars	Flex Fuel Internal Combustion Engine	PreCalculated	Yes		Ethanol	N/A	N/A	N/A	0.0041	0.1148
Mobile Combustion	N2O	Alternative Fuels	Light Duty Cars	Flex Fuel Internal Combustion Engine	PreCalculated	Yes		Ethanol	N/A	N/A	N/A	0.00045	0.11925

## Source Emissions | E85 - MTAWD (Ethanol Portion CO2)

Updated 9/29/20

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 Trucks	Flex-Fuel Internal Combustion Engine	Emission Factor	No		Ethanol	45,245.44 gal	5.75 kg/gal	2019 Default Emission Factors - Table #2.1	260.161273	260.161273
Mobile Combustion	CH4	Alternative Fuels	Light Duty Trucks	Flex-Fuel Internal Combustion Engine	Not Reporting	No		Ethanol	604,026.61 mi	0.013 g/mi	2019 Default Emission Factors - Table #2.6	0	0
Mobile Combustion	N2O	Alternative Fuels	Light Duty Trucks	Flex-Fuel Internal Combustion Engine	Not Reporting	No		Ethanol	604,026.61 mi	0.014 g/mi	2019 Default Emission Factors - Table #2.6	0	0



## Source Emissions | Gasoline - MTAWD - Bulk

SEM updated 9/16/20

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		All	199,889 gal	8.78 kg/gal	2019 Default Emission Factors - Table #2.1	1,755.02542	1,755.02542
Mobile Combustion	CH4	Motor Gasoline	Gasoline Light Trucks (Vans, Pickup Trucks, SUVs)	Low Emission Vehicles	PreCalculated	Yes		All	N/A	N/A	N/A	0.075958	2.126819
Mobile Combustion	N2O	Motor Gasoline	Gasoline Light Trucks (Vans, Pickup Trucks, SUVs)	Low Emission Vehicles	PreCalculated	Yes		All	N/A	N/A	N/A	0.015991	4.237647

## Source Emissions | Gasoline - MTAWD - Fuel Card

SEM updated 9/16/20

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		All	2,558,929 gal	8.78 kg/gal	2019 Default Emission Factors - Table #2.1	22,467.39662	22,467.39662
Mobile Combustion	CH4	Motor Gasoline	Gasoline Light Trucks (Vans, Pickup Trucks, SUVs)	Low Emission Vehicles	PreCalculated	Yes		All	N/A	N/A	N/A	0.972393	27.227005
Mobile Combustion	N2O	Motor Gasoline	Gasoline Light Trucks (Vans, Pickup Trucks, SUVs)	Low Emission Vehicles	PreCalculated	Yes		All	N/A	N/A	N/A	0.204714	54.249295

## Facility Emissions | MTA Mobile Revenue Electricity

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

2 Broadway, New York, New York, 10027, US

Scope 2 - Location Based - Indirect Emissions	Total CO <sub>2</sub> e (t)	CO <sub>2</sub> (t)	CH <sub>4</sub> (t)	N <sub>2</sub> O (t)	HFC (t of CO <sub>2</sub> e)	PFC (t of CO <sub>2</sub> e)	NF <sub>3</sub> (t)	SF <sub>6</sub> (t)
Purchased Electricity - Location Based	817,847.5043	814,487.861505	53.45797	7.029508	0	0	0	0
<b>Total</b>	<b>817,847.5043</b>	<b>814,487.861505</b>	<b>53.45797</b>	<b>7.029508</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

Scope 2 - Market Based - Indirect Emissions	Total CO <sub>2</sub> e (t)	CO <sub>2</sub> (t)	CH <sub>4</sub> (t)	N <sub>2</sub> O (t)	HFC (t of CO <sub>2</sub> e)	PFC (t of CO <sub>2</sub> e)	NF <sub>3</sub> (t)	SF <sub>6</sub> (t)
Purchased Electricity - Market Based	817,847.5043	814,487.861505	53.45797	7.029508	0	0	0	0
<b>Total</b>	<b>817,847.5043</b>	<b>814,487.861505</b>	<b>53.45797</b>	<b>7.029508</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

## Source Emissions | Electricity (CT) - MNR - Eversource - Location Based

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 <sub>2</sub> e (t)
Purchased Electricity - Location Based	CO <sub>2</sub>	Regional Grid-Average	2017	Unspecified Technology	Emission Factor	No		NPCC New England	118,696,889 kWh	558.2 lb/MWh	2019 Default Emission Factors - Table #3.1	30,053.525524	30,053.525524
Purchased Electricity - Location Based	CH <sub>4</sub>	Regional Grid-Average	2017	Unspecified Technology	Emission Factor	No		NPCC New England	118,696,889 kWh	90 lb/GWh	2019 Default Emission Factors - Table #3.1	4.845606	135.676969
Purchased Electricity - Location Based	N <sub>2</sub> O	Regional Grid-Average	2017	Unspecified Technology	Emission Factor	No		NPCC New England	118,696,889 kWh	12 lb/GWh	2019 Default Emission Factors - Table #3.1	0.646081	171.211414

## Source Emissions | Electricity (CT) - MNR - Eversource - Market Based

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 - Market Based	CO2	Regional Grid-Average	2017	Unspecified Technology	Emission Factor	No		NPCC New England	118,696,889 kWh	558.2 lb/MWh	2019 Default Emission Factors - Table #3.1	30,053.525524	30,053.525524
Purchased Electricity - Market Based	CH4	Regional Grid-Average	2017	Unspecified Technology	Emission Factor	No		NPCC New England	118,696,889 kWh	90 lb/GWh	2019 Default Emission Factors - Table #3.1	4.845606	135.676969
Purchased Electricity - Market Based	N2O	Regional Grid-Average	2017	Unspecified Technology	Emission Factor	No		NPCC New England	118,696,889 kWh	12 lb/GWh	2019 Default Emission Factors - Table #3.1	0.646081	171.211414

## Source Emissions | Electricity (CT) - MNR - United Illuminating - Location Based

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 - Location Based	CO2	Regional Grid-Average	2017	Unspecified Technology	Emission Factor	No		NPCC New England	30,326,400 kWh	558.2 lb/MWh	2019 Default Emission Factors - Table #3.1	7,678.509893	7,678.509893
Purchased Electricity - Location Based	CH4	Regional Grid-Average	2017	Unspecified Technology	Emission Factor	No		NPCC New England	30,326,400 kWh	90 lb/GWh	2019 Default Emission Factors - Table #3.1	1.238026	34.664717
Purchased Electricity - Location Based	N2O	Regional Grid-Average	2017	Unspecified Technology	Emission Factor	No		NPCC New England	30,326,400 kWh	12 lb/GWh	2019 Default Emission Factors - Table #3.1	0.16507	43.743571

## Source Emissions | Electricity (CT) - MNR - United Illuminating - Market Based

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 - Market Based	CO2	Regional Grid-Average	2017	Unspecified Technology	Emission Factor	No		NPCC New England	30,326,400 kWh	558.2 lb/MWh	2019 Default Emission Factors - Table #3.1	7,678.509893	7,678.509893
Purchased Electricity - Market Based	CH4	Regional Grid-Average	2017	Unspecified Technology	Emission Factor	No		NPCC New England	30,326,400 kWh	90 lb/GWh	2019 Default Emission Factors - Table #3.1	1.238026	34.664717
Purchased Electricity - Market Based	N2O	Regional Grid-Average	2017	Unspecified Technology	Emission Factor	No		NPCC New England	30,326,400 kWh	12 lb/GWh	2019 Default Emission Factors - Table #3.1	0.16507	43.743571

## Source Emissions | Electricity (LI) - LIRRD - PSEG Location Based

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 - Location Based	CO2	Regional Grid-Average	2017	Unspecified Technology	Emission Factor	No		NPCC Long Island	265,238,488 kWh	1178.3 lb/MWh	2019 Default Emission Factors - Table #3.1	141,761.623504	141,761.623504
Purchased Electricity - Location Based	CH4	Regional Grid-Average	2017	Unspecified Technology	Emission Factor	No		NPCC Long Island	265,238,488 kWh	126 lb/GWh	2019 Default Emission Factors - Table #3.1	15.159097	424.454729
Purchased Electricity - Location Based	N2O	Regional Grid-Average	2017	Unspecified Technology	Emission Factor	No		NPCC Long Island	265,238,488 kWh	16 lb/GWh	2019 Default Emission Factors - Table #3.1	1.924965	510.115661

## Source Emissions | Electricity (LI) - LIRRD - PSEG Market Based

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 - Market Based	CO2	Regional Grid-Average	2017	Unspecified Technology	Emission Factor	No		NPCC Long Island	265,238,488 kWh	1178.3 lb/MWh	2019 Default Emission Factors - Table #3.1	141,761.623504	141,761.623504
Purchased Electricity - Market Based	CH4	Regional Grid-Average	2017	Unspecified Technology	Emission Factor	No		NPCC Long Island	265,238,488 kWh	126 lb/GWh	2019 Default Emission Factors - Table #3.1	15.159097	424.454729
Purchased Electricity - Market Based	N2O	Regional Grid-Average	2017	Unspecified Technology	Emission Factor	No		NPCC Long Island	265,238,488 kWh	16 lb/GWh	2019 Default Emission Factors - Table #3.1	1.924965	510.115661

## Source Emissions | Electricity (NYC) - LIRRD - NYPA - Location Based

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 - Location Based	CO2	Regional Grid-Average	2017	Unspecified Technology	Emission Factor	No		NPCC Long Island	223,516,800 kWh	1178.3 lb/MWh	2019 Default Emission Factors - Table #3.1	119,462.694451	119,462.694451
Purchased Electricity - Location Based	CH4	Regional Grid-Average	2017	Unspecified Technology	Emission Factor	No		NPCC Long Island	223,516,800 kWh	126 lb/GWh	2019 Default Emission Factors - Table #3.1	12.77459	357.688522
Purchased Electricity - Location Based	N2O	Regional Grid-Average	2017	Unspecified Technology	Emission Factor	No		NPCC Long Island	223,516,800 kWh	16 lb/GWh	2019 Default Emission Factors - Table #3.1	1.62217	429.875095

## Source Emissions | Electricity (NYC) - LIRRD - NYPA Market Based

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 - Market Based	CO2	Regional Grid-Average	2017	Unspecified Technology	Emission Factor	No		NPCC Long Island	223,516,800 kWh	1178.3 lb/MWh	2019 Default Emission Factors - Table #3.1	119,462.69 4451	119,462.69 4451
Purchased Electricity - Market Based	CH4	Regional Grid-Average	2017	Unspecified Technology	Emission Factor	No		NPCC Long Island	223,516,800 kWh	126 lb/GWh	2019 Default Emission Factors - Table #3.1	12.77459	357.688522
Purchased Electricity - Market Based	N2O	Regional Grid-Average	2017	Unspecified Technology	Emission Factor	No		NPCC Long Island	223,516,800 kWh	16 lb/GWh	2019 Default Emission Factors - Table #3.1	1.62217	429.875095

## Source Emissions | Electricity (NYC) - MNR - NYPA Location Based

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 - Location Based	CO2	Regional Grid-Average	2017	Unspecified Technology	Emission Factor	No		NPCC Upstate NY	298,792,800 kWh	294.7 lb/MWh	2019 Default Emission Factors - Table #3.1	39,940.778 075	39,940.778 075
Purchased Electricity - Location Based	CH4	Regional Grid-Average	2017	Unspecified Technology	Emission Factor	No		NPCC Upstate NY	298,792,800 kWh	21 lb/GWh	2019 Default Emission Factors - Table #3.1	2.846136	79.691814
Purchased Electricity - Location Based	N2O	Regional Grid-Average	2017	Unspecified Technology	Emission Factor	No		NPCC Upstate NY	298,792,800 kWh	3 lb/GWh	2019 Default Emission Factors - Table #3.1	0.406591	107.746585

## Source Emissions | Electricity (NYC) - MNR - NYPA Market Based

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 - Market Based	CO2	Regional Grid-Average	2017	Unspecified Technology	Emission Factor	No		NPCC Upstate NY	298,792,800 kWh	294.7 lb/MWh	2019 Default Emission Factors - Table #3.1	39,940.778075	39,940.778075
Purchased Electricity - Market Based	CH4	Regional Grid-Average	2017	Unspecified Technology	Emission Factor	No		NPCC Upstate NY	298,792,800 kWh	21 lb/GWh	2019 Default Emission Factors - Table #3.1	2.846136	79.691814
Purchased Electricity - Market Based	N2O	Regional Grid-Average	2017	Unspecified Technology	Emission Factor	No		NPCC Upstate NY	298,792,800 kWh	3 lb/GWh	2019 Default Emission Factors - Table #3.1	0.406591	107.746585

## Source Emissions | Electricity (NYC) - NYCTA - NYPA Location Based

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 - Location Based	CO2	Regional Grid-Average	2017	Unspecified Technology	Emission Factor	No		NPCC NYC/Westchester	1,620,269,651 kWh	635.8 lb/MWh	2019 Default Emission Factors - Table #3.1	467,276.648178	467,276.648178
Purchased Electricity - Location Based	CH4	Regional Grid-Average	2017	Unspecified Technology	Emission Factor	No		NPCC NYC/Westchester	1,620,269,651 kWh	22 lb/GWh	2019 Default Emission Factors - Table #3.1	16.168742	452.72478
Purchased Electricity - Location Based	N2O	Regional Grid-Average	2017	Unspecified Technology	Emission Factor	No		NPCC NYC/Westchester	1,620,269,651 kWh	3 lb/GWh	2019 Default Emission Factors - Table #3.1	2.204828	584.279546

## Source Emissions | Electricity (NYC) - NYCTA - NYPA Market Based

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 - Market Based	CO2	Regional Grid-Average	2017	Unspecified Technology	Emission Factor	No		NPCC NYC/We stcheste r	1,620,269,651 kWh	635.8 lb/MWh	2019 Default Emission Factors - Table #3.1	467,276.648178	467,276.648178
Purchased Electricity - Market Based	CH4	Regional Grid-Average	2017	Unspecified Technology	Emission Factor	No		NPCC NYC/We stcheste r	1,620,269,651 kWh	22 lb/GWh	2019 Default Emission Factors - Table #3.1	16.168742	452.72478
Purchased Electricity - Market Based	N2O	Regional Grid-Average	2017	Unspecified Technology	Emission Factor	No		NPCC NYC/We stcheste r	1,620,269,651 kWh	3 lb/GWh	2019 Default Emission Factors - Table #3.1	2.204828	584.279546

## Source Emissions | Electricity (NYC) - NYCTA - PSEG - Location Based

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 - Location Based	CO2	Regional Grid-Average	2017	Unspecified Technology	Emission Factor	No		NPCC NYC/We stcheste r	15,766,764 kWh	635.8 lb/MWh	2019 Default Emission Factors - Table #3.1	4,547.045999	4,547.045999
Purchased Electricity - Location Based	CH4	Regional Grid-Average	2017	Unspecified Technology	Emission Factor	No		NPCC NYC/We stcheste r	15,766,764 kWh	22 lb/GWh	2019 Default Emission Factors - Table #3.1	0.157337	4.405442
Purchased Electricity - Location Based	N2O	Regional Grid-Average	2017	Unspecified Technology	Emission Factor	No		NPCC NYC/We stcheste r	15,766,764 kWh	3 lb/GWh	2019 Default Emission Factors - Table #3.1	0.021455	5.685595



## Source Emissions | Electricity (NYC) - NYCTA - PSEG - Market Based

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 - Market Based	CO2	Regional Grid-Average	2017	Unspecified Technology	Emission Factor	No		NPCC NYC/We stcheste r	15,766,764 kWh	635.8 lb/MWh	2019 Default Emission Factors - Table #3.1	4,547.045999	4,547.045999
Purchased Electricity - Market Based	CH4	Regional Grid-Average	2017	Unspecified Technology	Emission Factor	No		NPCC NYC/We stcheste r	15,766,764 kWh	22 lb/GWh	2019 Default Emission Factors - Table #3.1	0.157337	4.405442
Purchased Electricity - Market Based	N2O	Regional Grid-Average	2017	Unspecified Technology	Emission Factor	No		NPCC NYC/We stcheste r	15,766,764 kWh	3 lb/GWh	2019 Default Emission Factors - Table #3.1	0.021455	5.685595

## Source Emissions | Electricity (NYS) - MNR - NYSEG - Location Based

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 - Location Based	CO2	Regional Grid-Average	2017	Unspecified Technology	Emission Factor	No		NPCC Upstate NY	28,180,803 kWh	294.7 lb/MWh	2019 Default Emission Factors - Table #3.1	3,767.035881	3,767.035881
Purchased Electricity - Location Based	CH4	Regional Grid-Average	2017	Unspecified Technology	Emission Factor	No		NPCC Upstate NY	28,180,803 kWh	21 lb/GWh	2019 Default Emission Factors - Table #3.1	0.268435	7.516176
Purchased Electricity - Location Based	N2O	Regional Grid-Average	2017	Unspecified Technology	Emission Factor	No		NPCC Upstate NY	28,180,803 kWh	3 lb/GWh	2019 Default Emission Factors - Table #3.1	0.038348	10.162177

## Source Emissions | Electricity (NYS) - MNR - NYSEG - Market Based

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 - Market Based	CO2	Regional Grid-Average	2017	Unspecified Technology	Emission Factor	No		NPCC Upstate NY	28,180,803 kWh	294.7 lb/MWh	2019 Default Emission Factors - Table #3.1	3,767.035881	3,767.035881
Purchased Electricity - Market Based	CH4	Regional Grid-Average	2017	Unspecified Technology	Emission Factor	No		NPCC Upstate NY	28,180,803 kWh	21 lb/GWh	2019 Default Emission Factors - Table #3.1	0.268435	7.516176
Purchased Electricity - Market Based	N2O	Regional Grid-Average	2017	Unspecified Technology	Emission Factor	No		NPCC Upstate NY	28,180,803 kWh	3 lb/GWh	2019 Default Emission Factors - Table #3.1	0.038348	10.162177

## Facility Emissions | MTA Mobile Revenue Fuel

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

2 Broadway, New York, New York, 10017, US

Scope 1 - Direct Emissions	Total CO2e (t)	CO2 (t)	CH4 (t)	N2O (t)	HFC (t of CO2e)	PFC (t of CO2e)	NF3 (t)	SF6 (t)
Mobile Combustion	599,610.502994	598,055.0382	12.643816	4.533728	0	0	0	0
<b>Total</b>	599,610.502994	598,055.0382	12.643816	4.533728	0	0	0	0

## Source Emissions | Diesel - BUSES - Bulk

Fuel quantity updated 9/16/20 to reflect current total in EMS. 805,321 gallons removed and reclassified as NYCT mobile non-rev diesel.

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		All	43,631,782 gal	10.21 kg/gal	2019 Default Emission Factors - Table #2.1	445,480.49 422	445,480.49 422
Mobile Combustion	CH4	Diesel Fuel	Diesel Medium and Heavy-Duty Trucks and Buses	Advanced Control	Emission Factor	No		All	135,079,619 mi	0.0051 g/mi	2019 Default Emission Factors - Table #2.4	0.688906	19.28937
Mobile Combustion	N2O	Diesel Fuel	Diesel Medium and Heavy-Duty Trucks and Buses	Advanced Control	Emission Factor	No		All	135,079,619 mi	0.0048 g/mi	2019 Default Emission Factors - Table #2.4	0.648382	171.821275

## Source Emissions | Diesel - LIRRD - Bulk

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		All	7,981,297 gal	10.21 kg/gal	2019 Default Emission Factors - Table #2.1	81,489.042 37	81,489.042 37
Mobile Combustion	CH4	Diesel Fuel	Non-Highway	Locomotives	Emission Factor	No		All	7,981,297 gal	0.8 g/gal	2019 Default Emission Factors - Table #2.7	6.385038	178.781053
Mobile Combustion	N2O	Diesel Fuel	Non-Highway	Locomotives	Emission Factor	No		All	7,981,297 gal	0.26 g/gal	2019 Default Emission Factors - Table #2.7	2.075137	549.911363

## Source Emissions | Diesel - MNCRR - Bulk

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		All	6,962,341 gal	10.21 kg/gal	2019 Default Emission Factors - Table #2.1	71,085.50161	71,085.50161
Mobile Combustion	CH4	Diesel Fuel	Non-Highway	Locomotives	Emission Factor	No		All	6,962,341 gal	0.8 g/gal	2019 Default Emission Factors - Table #2.7	5.569873	155.956438
Mobile Combustion	N2O	Diesel Fuel	Non-Highway	Locomotives	Emission Factor	No		All	6,962,341 gal	0.26 g/gal	2019 Default Emission Factors - Table #2.7	1.810209	479.705295

## Facility Emissions | MTA Mobile Revenue Natural Gas

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

2 Broadway, New York, New York, 10004, US

Scope 1 - Direct Emissions	Total CO2e (t)	CO2 (t)	CH4 (t)	N2O (t)	HFC (t of CO2e)	PFC (t of CO2e)	NF3 (t)	SF6 (t)
Mobile Combustion	76,643.991995	71,185.834203	194.74989	0.019475	0	0	0	0
<b>Total</b>	76,643.991995	71,185.834203	194.74989	0.019475	0	0	0	0

## Source Emissions | CNG - BUSES - ConEd & 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)
Mobile Combustion	CO2	Alternative Fuels	Buses	Internal Combustion Engine	Emission Factor	No		Compressed Natural Gas (CNG)	13,415,993 therm	0.05444 kg/scf	2019 Default Emission Factors - Table #2.1	71,185.834203	71,185.834203
Mobile Combustion	CH4	Alternative Fuels	Buses	Internal Combustion Engine	Emission Factor	No		Compressed Natural Gas (CNG)	19,474,989 mi	10 g/mi	2019 Default Emission Factors - Table #2.6	194.74989	5,452.99692
Mobile Combustion	N2O	Alternative Fuels	Buses	Internal Combustion Engine	Emission Factor	No		Compressed Natural Gas (CNG)	19,474,989 mi	0.001 g/mi	2019 Default Emission Factors - Table #2.6	0.019475	5.160872

## Facility Emissions | MTA Stationary Non-revenue Electricity

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

2 Broadway, New York, New York, 10004, US

Scope 2 - Location 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 - Location Based	243,414.962994	242,721.389528	10.91712	1.463751	0	0	0	0
<b>Total</b>	243,414.962994	242,721.389528	10.91712	1.463751	0	0	0	0

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	243,414.962994	242,721.389528	10.91712	1.463751	0	0	0	0
<b>Total</b>	243,414.962994	242,721.389528	10.91712	1.463751	0	0	0	0

## Source Emissions | Electricity (CT) - MNR - Eversource Location Based

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 - Location Based	CO2	Regional Grid-Average	2017	Unspecified Technology	Emission Factor	No		NPCC New England	5,494,666 kWh	558.2 lb/MWh	2019 Default Emission Factors - Table #3.1	1,391.225046	1,391.225046
Purchased Electricity - Location Based	CH4	Regional Grid-Average	2017	Unspecified Technology	Emission Factor	No		NPCC New England	5,494,666 kWh	90 lb/GWh	2019 Default Emission Factors - Table #3.1	0.224311	6.280701
Purchased Electricity - Location Based	N2O	Regional Grid-Average	2017	Unspecified Technology	Emission Factor	No		NPCC New England	5,494,666 kWh	12 lb/GWh	2019 Default Emission Factors - Table #3.1	0.029908	7.925646

## Source Emissions | Electricity (CT) - MNR - Eversource Market Based

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 - Market Based	CO2	Regional Grid-Average	2017	Unspecified Technology	Emission Factor	No		NPCC New England	5,494,666 kWh	558.2 lb/MWh	2019 Default Emission Factors - Table #3.1	1,391.225046	1,391.225046
Purchased Electricity - Market Based	CH4	Regional Grid-Average	2017	Unspecified Technology	Emission Factor	No		NPCC New England	5,494,666 kWh	90 lb/GWh	2019 Default Emission Factors - Table #3.1	0.224311	6.280701
Purchased Electricity - Market Based	N2O	Regional Grid-Average	2017	Unspecified Technology	Emission Factor	No		NPCC New England	5,494,666 kWh	12 lb/GWh	2019 Default Emission Factors - Table #3.1	0.029908	7.925646

## Source Emissions | Electricity (CT) - MNR - South Norwalk Location Based

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 - Location Based	CO2	Regional Grid-Average	2017	Unspecified Technology	Emission Factor	No		NPCC New England	203,466 kWh	558.2 lb/MWh	2019 Default Emission Factors - Table #3.1	51.516688	51.516688
Purchased Electricity - Location Based	CH4	Regional Grid-Average	2017	Unspecified Technology	Emission Factor	No		NPCC New England	203,466 kWh	90 lb/GWh	2019 Default Emission Factors - Table #3.1	0.008306	0.232573
Purchased Electricity - Location Based	N2O	Regional Grid-Average	2017	Unspecified Technology	Emission Factor	No		NPCC New England	203,466 kWh	12 lb/GWh	2019 Default Emission Factors - Table #3.1	0.001107	0.293485

## Source Emissions | Electricity (CT) - MNR - South Norwalk Market Based

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 - Market Based	CO2	Regional Grid-Average	2017	Unspecified Technology	Emission Factor	No		NPCC New England	203,466 kWh	558.2 lb/MWh	2019 Default Emission Factors - Table #3.1	51.516688	51.516688
Purchased Electricity - Market Based	CH4	Regional Grid-Average	2017	Unspecified Technology	Emission Factor	No		NPCC New England	203,466 kWh	90 lb/GWh	2019 Default Emission Factors - Table #3.1	0.008306	0.232573
Purchased Electricity - Market Based	N2O	Regional Grid-Average	2017	Unspecified Technology	Emission Factor	No		NPCC New England	203,466 kWh	12 lb/GWh	2019 Default Emission Factors - Table #3.1	0.001107	0.293485

## Source Emissions | Electricity (CT) - MNR - Third Taxing District Location Based

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 - Location Based	CO2	Regional Grid-Average	2017	Unspecified Technology	Emission Factor	No		NPCC New England	28,172 kWh	558.2 lb/MWh	2019 Default Emission Factors - Table #3.1	7.133025	7.133025
Purchased Electricity - Location Based	CH4	Regional Grid-Average	2017	Unspecified Technology	Emission Factor	No		NPCC New England	28,172 kWh	90 lb/GWh	2019 Default Emission Factors - Table #3.1	0.00115	0.032202
Purchased Electricity - Location Based	N2O	Regional Grid-Average	2017	Unspecified Technology	Emission Factor	No		NPCC New England	28,172 kWh	12 lb/GWh	2019 Default Emission Factors - Table #3.1	0.000153	0.040636

## Source Emissions | Electricity (CT) - MNR - Third Taxing District Market Based

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 - Market Based	CO2	Regional Grid-Average	2017	Unspecified Technology	Emission Factor	No		NPCC New England	28,172 kWh	558.2 lb/MWh	2019 Default Emission Factors - Table #3.1	7.133025	7.133025
Purchased Electricity - Market Based	CH4	Regional Grid-Average	2017	Unspecified Technology	Emission Factor	No		NPCC New England	28,172 kWh	90 lb/GWh	2019 Default Emission Factors - Table #3.1	0.00115	0.032202
Purchased Electricity - Market Based	N2O	Regional Grid-Average	2017	Unspecified Technology	Emission Factor	No		NPCC New England	28,172 kWh	12 lb/GWh	2019 Default Emission Factors - Table #3.1	0.000153	0.040636



## Source Emissions | Electricity (CT) - MNR - United Illuminating Location Based

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 - Location Based	CO2	Regional Grid-Average	2017	Unspecified Technology	Emission Factor	No		NPCC New England	18,384,506 kWh	558.2 lb/MWh	2019 Default Emission Factors - Table #3.1	4,654.87533	4,654.87533
Purchased Electricity - Location Based	CH4	Regional Grid-Average	2017	Unspecified Technology	Emission Factor	No		NPCC New England	18,384,506 kWh	90 lb/GWh	2019 Default Emission Factors - Table #3.1	0.750517	21.014486
Purchased Electricity - Location Based	N2O	Regional Grid-Average	2017	Unspecified Technology	Emission Factor	No		NPCC New England	18,384,506 kWh	12 lb/GWh	2019 Default Emission Factors - Table #3.1	0.100069	26.518279

## Source Emissions | Electricity (CT) - MNR - United Illuminating Market Based

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 - Market Based	CO2	Regional Grid-Average	2017	Unspecified Technology	Emission Factor	No		NPCC New England	18,384,506 kWh	558.2 lb/MWh	2019 Default Emission Factors - Table #3.1	4,654.87533	4,654.87533
Purchased Electricity - Market Based	CH4	Regional Grid-Average	2017	Unspecified Technology	Emission Factor	No		NPCC New England	18,384,506 kWh	90 lb/GWh	2019 Default Emission Factors - Table #3.1	0.750517	21.014486
Purchased Electricity - Market Based	N2O	Regional Grid-Average	2017	Unspecified Technology	Emission Factor	No		NPCC New England	18,384,506 kWh	12 lb/GWh	2019 Default Emission Factors - Table #3.1	0.100069	26.518279

## Source Emissions | Electricity (CT) - MNR - Wallingford Location Based

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 - Location Based	CO2	Regional Grid-Average	2017	Unspecified Technology	Emission Factor	No		NPCC New England	13,723 kWh	558.2 lb/MWh	2019 Default Emission Factors - Table #3.1	3.474603	3.474603
Purchased Electricity - Location Based	CH4	Regional Grid-Average	2017	Unspecified Technology	Emission Factor	No		NPCC New England	13,723 kWh	90 lb/GWh	2019 Default Emission Factors - Table #3.1	0.00056	0.015686
Purchased Electricity - Location Based	N2O	Regional Grid-Average	2017	Unspecified Technology	Emission Factor	No		NPCC New England	13,723 kWh	12 lb/GWh	2019 Default Emission Factors - Table #3.1	0.000075	0.019794

## Source Emissions | Electricity (CT) - MNR - Wallingford Market Based

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 - Market Based	CO2	Regional Grid-Average	2017	Unspecified Technology	Emission Factor	No		NPCC New England	13,723 kWh	558.2 lb/MWh	2019 Default Emission Factors - Table #3.1	3.474603	3.474603
Purchased Electricity - Market Based	CH4	Regional Grid-Average	2017	Unspecified Technology	Emission Factor	No		NPCC New England	13,723 kWh	90 lb/GWh	2019 Default Emission Factors - Table #3.1	0.00056	0.015686
Purchased Electricity - Market Based	N2O	Regional Grid-Average	2017	Unspecified Technology	Emission Factor	No		NPCC New England	13,723 kWh	12 lb/GWh	2019 Default Emission Factors - Table #3.1	0.000075	0.019794

## Source Emissions | Electricity (LI) - LIRRD - PSEG Location Based

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 - Location Based	CO2	Regional Grid-Average	2017	Unspecified Technology	Emission Factor	No		NPCC Long Island	42,063,161 kWh	1178.3 lb/MWh	2019 Default Emission Factors - Table #3.1	22,481.435624	22,481.435624
Purchased Electricity - Location Based	CH4	Regional Grid-Average	2017	Unspecified Technology	Emission Factor	No		NPCC Long Island	42,063,161 kWh	126 lb/GWh	2019 Default Emission Factors - Table #3.1	2.404023	67.312658
Purchased Electricity - Location Based	N2O	Regional Grid-Average	2017	Unspecified Technology	Emission Factor	No		NPCC Long Island	42,063,161 kWh	16 lb/GWh	2019 Default Emission Factors - Table #3.1	0.305273	80.897299

## Source Emissions | Electricity (LI) - LIRRD - PSEG Market Based

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 - Market Based	CO2	Regional Grid-Average	2017	Unspecified Technology	Emission Factor	No		NPCC Long Island	42,063,161 kWh	1178.3 lb/MWh	2019 Default Emission Factors - Table #3.1	22,481.435624	22,481.435624
Purchased Electricity - Market Based	CH4	Regional Grid-Average	2017	Unspecified Technology	Emission Factor	No		NPCC Long Island	42,063,161 kWh	126 lb/GWh	2019 Default Emission Factors - Table #3.1	2.404023	67.312658
Purchased Electricity - Market Based	N2O	Regional Grid-Average	2017	Unspecified Technology	Emission Factor	No		NPCC Long Island	42,063,161 kWh	16 lb/GWh	2019 Default Emission Factors - Table #3.1	0.305273	80.897299

## Source Emissions | Electricity (LI) - LIRRD - Village of Freeport Location Based

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 - Location Based	CO2	Regional Grid-Average	2017	Unspecified Technology	Emission Factor	No		NPCC Long Island	502,064 kWh	1178.3 lb/MWh	2019 Default Emission Factors - Table #3.1	268.337406	268.337406
Purchased Electricity - Location Based	CH4	Regional Grid-Average	2017	Unspecified Technology	Emission Factor	No		NPCC Long Island	502,064 kWh	126 lb/GWh	2019 Default Emission Factors - Table #3.1	0.028694	0.803441
Purchased Electricity - Location Based	N2O	Regional Grid-Average	2017	Unspecified Technology	Emission Factor	No		NPCC Long Island	502,064 kWh	16 lb/GWh	2019 Default Emission Factors - Table #3.1	0.003644	0.965587

## Source Emissions | Electricity (LI) - LIRRD - Village of Freeport Market Based

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 - Market Based	CO2	Regional Grid-Average	2017	Unspecified Technology	Emission Factor	No		NPCC Long Island	502,064 kWh	1178.3 lb/MWh	2019 Default Emission Factors - Table #3.1	268.337406	268.337406
Purchased Electricity - Market Based	CH4	Regional Grid-Average	2017	Unspecified Technology	Emission Factor	No		NPCC Long Island	502,064 kWh	126 lb/GWh	2019 Default Emission Factors - Table #3.1	0.028694	0.803441
Purchased Electricity - Market Based	N2O	Regional Grid-Average	2017	Unspecified Technology	Emission Factor	No		NPCC Long Island	502,064 kWh	16 lb/GWh	2019 Default Emission Factors - Table #3.1	0.003644	0.965587

## Source Emissions | Electricity (LI) - LIRRD - Village of Greenport Location Based

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 - Location Based	CO2	Regional Grid-Average	2017	Unspecified Technology	Emission Factor	No		NPCC Long Island	26,339 kWh	1178.3 lb/MWh	2019 Default Emission Factors - Table #3.1	14.077366	14.077366
Purchased Electricity - Location Based	CH4	Regional Grid-Average	2017	Unspecified Technology	Emission Factor	No		NPCC Long Island	26,339 kWh	126 lb/GWh	2019 Default Emission Factors - Table #3.1	0.001505	0.04215
Purchased Electricity - Location Based	N2O	Regional Grid-Average	2017	Unspecified Technology	Emission Factor	No		NPCC Long Island	26,339 kWh	16 lb/GWh	2019 Default Emission Factors - Table #3.1	0.000191	0.050656

## Source Emissions | Electricity (LI) - LIRRD - Village of Greenport Market Based

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 - Market Based	CO2	Regional Grid-Average	2017	Unspecified Technology	Emission Factor	No		NPCC Long Island	26,339 kWh	1178.3 lb/MWh	2019 Default Emission Factors - Table #3.1	14.077366	14.077366
Purchased Electricity - Market Based	CH4	Regional Grid-Average	2017	Unspecified Technology	Emission Factor	No		NPCC Long Island	26,339 kWh	126 lb/GWh	2019 Default Emission Factors - Table #3.1	0.001505	0.04215
Purchased Electricity - Market Based	N2O	Regional Grid-Average	2017	Unspecified Technology	Emission Factor	No		NPCC Long Island	26,339 kWh	16 lb/GWh	2019 Default Emission Factors - Table #3.1	0.000191	0.050656

## Source Emissions | Electricity (LI) - LIRRD - Village of Rockville Location Based

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 - Location Based	CO2	Regional Grid-Average	2017	Unspecified Technology	Emission Factor	No		NPCC Long Island	364,242 kWh	1178.3 lb/MWh	2019 Default Emission Factors - Table #3.1	194.675885	194.675885
Purchased Electricity - Location Based	CH4	Regional Grid-Average	2017	Unspecified Technology	Emission Factor	No		NPCC Long Island	364,242 kWh	126 lb/GWh	2019 Default Emission Factors - Table #3.1	0.020817	0.582888
Purchased Electricity - Location Based	N2O	Regional Grid-Average	2017	Unspecified Technology	Emission Factor	No		NPCC Long Island	364,242 kWh	16 lb/GWh	2019 Default Emission Factors - Table #3.1	0.002643	0.700523

## Source Emissions | Electricity (LI) - LIRRD - Village of Rockville Market Based

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 - Market Based	CO2	Regional Grid-Average	2017	Unspecified Technology	Emission Factor	No		NPCC Long Island	364,242 kWh	1178.3 lb/MWh	2019 Default Emission Factors - Table #3.1	194.675885	194.675885
Purchased Electricity - Market Based	CH4	Regional Grid-Average	2017	Unspecified Technology	Emission Factor	No		NPCC Long Island	364,242 kWh	126 lb/GWh	2019 Default Emission Factors - Table #3.1	0.020817	0.582888
Purchased Electricity - Market Based	N2O	Regional Grid-Average	2017	Unspecified Technology	Emission Factor	No		NPCC Long Island	364,242 kWh	16 lb/GWh	2019 Default Emission Factors - Table #3.1	0.002643	0.700523

## Source Emissions | Electricity (NYC) - MTAWD - ConEd Location Based

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 - Location Based	CO2	Regional Grid-Average	2017	Unspecified Technology	Emission Factor	No		NPCC NYC/We stcheste r	2,639,427 kWh	635.8 lb/MWh	2019 Default Emission Factors - Table #3.1	761.195892	761.195892
Purchased Electricity - Location Based	CH4	Regional Grid-Average	2017	Unspecified Technology	Emission Factor	No		NPCC NYC/We stcheste r	2,639,427 kWh	22 lb/GWh	2019 Default Emission Factors - Table #3.1	0.026339	0.737491
Purchased Electricity - Location Based	N2O	Regional Grid-Average	2017	Unspecified Technology	Emission Factor	No		NPCC NYC/We stcheste r	2,639,427 kWh	3 lb/GWh	2019 Default Emission Factors - Table #3.1	0.003592	0.951794

## Source Emissions | Electricity (NYC) - MTAWD - ConEd Market Based

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 - Market Based	CO2	Regional Grid-Average	2017	Unspecified Technology	Emission Factor	No		NPCC NYC/We stcheste r	2,639,427 kWh	635.8 lb/MWh	2019 Default Emission Factors - Table #3.1	761.195892	761.195892
Purchased Electricity - Market Based	CH4	Regional Grid-Average	2017	Unspecified Technology	Emission Factor	No		NPCC NYC/We stcheste r	2,639,427 kWh	22 lb/GWh	2019 Default Emission Factors - Table #3.1	0.026339	0.737491
Purchased Electricity - Market Based	N2O	Regional Grid-Average	2017	Unspecified Technology	Emission Factor	No		NPCC NYC/We stcheste r	2,639,427 kWh	3 lb/GWh	2019 Default Emission Factors - Table #3.1	0.003592	0.951794

## Source Emissions | Electricity (NYC) - MTAWD - NYPA Location Based

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 - Location Based	CO2	Regional Grid-Average	2017	Unspecified Technology	Emission Factor	No		NPCC NYC/We stcheste r	725,693,191 kWh	635.8 lb/MWh	2019 Default Emission Factors - Table #3.1	209,285.83 1952	209,285.83 1952
Purchased Electricity - Location Based	CH4	Regional Grid-Average	2017	Unspecified Technology	Emission Factor	No		NPCC NYC/We stcheste r	725,693,191 kWh	22 lb/GWh	2019 Default Emission Factors - Table #3.1	7.241724	202.76828
Purchased Electricity - Location Based	N2O	Regional Grid-Average	2017	Unspecified Technology	Emission Factor	No		NPCC NYC/We stcheste r	725,693,191 kWh	3 lb/GWh	2019 Default Emission Factors - Table #3.1	0.987508	261.689582

## Source Emissions | Electricity (NYC) - MTAWD - NYPA Market Based

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 - Market Based	CO2	Regional Grid-Average	2017	Unspecified Technology	Emission Factor	No		NPCC NYC/We stcheste r	725,693,191 kWh	635.8 lb/MWh	2019 Default Emission Factors - Table #3.1	209,285.83 1952	209,285.83 1952
Purchased Electricity - Market Based	CH4	Regional Grid-Average	2017	Unspecified Technology	Emission Factor	No		NPCC NYC/We stcheste r	725,693,191 kWh	22 lb/GWh	2019 Default Emission Factors - Table #3.1	7.241724	202.76828
Purchased Electricity - Market Based	N2O	Regional Grid-Average	2017	Unspecified Technology	Emission Factor	No		NPCC NYC/We stcheste r	725,693,191 kWh	3 lb/GWh	2019 Default Emission Factors - Table #3.1	0.987508	261.689582



## Source Emissions | Electricity (NYC) - MTAWD - PSEG Location Based

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 - Location Based	CO2	Regional Grid-Average	2017	Unspecified Technology	Emission Factor	No		NPCC NYC/We stcheste r	4,531,266 kWh	635.8 lb/MWh	2019 Default Emission Factors - Table #3.1	1,306.791612	1,306.791612
Purchased Electricity - Location Based	CH4	Regional Grid-Average	2017	Unspecified Technology	Emission Factor	No		NPCC NYC/We stcheste r	4,531,266 kWh	22 lb/GWh	2019 Default Emission Factors - Table #3.1	0.045218	1.266096
Purchased Electricity - Location Based	N2O	Regional Grid-Average	2017	Unspecified Technology	Emission Factor	No		NPCC NYC/We stcheste r	4,531,266 kWh	3 lb/GWh	2019 Default Emission Factors - Table #3.1	0.006166	1.634003

## Source Emissions | Electricity (NYC) - MTAWD - PSEG Market Based

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 - Market Based	CO2	Regional Grid-Average	2017	Unspecified Technology	Emission Factor	No		NPCC NYC/We stcheste r	4,531,266 kWh	635.8 lb/MWh	2019 Default Emission Factors - Table #3.1	1,306.791612	1,306.791612
Purchased Electricity - Market Based	CH4	Regional Grid-Average	2017	Unspecified Technology	Emission Factor	No		NPCC NYC/We stcheste r	4,531,266 kWh	22 lb/GWh	2019 Default Emission Factors - Table #3.1	0.045218	1.266096
Purchased Electricity - Market Based	N2O	Regional Grid-Average	2017	Unspecified Technology	Emission Factor	No		NPCC NYC/We stcheste r	4,531,266 kWh	3 lb/GWh	2019 Default Emission Factors - Table #3.1	0.006166	1.634003

## Source Emissions | Electricity (NYS) - MNR - NYSEG Location Based

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 - Location Based	CO2	Regional Grid-Average	2017	Unspecified Technology	Emission Factor	No		NPCC Upstate NY	6,483,687 kWh	294.7 lb/MWh	2019 Default Emission Factors - Table #3.1	866.699276	866.699276
Purchased Electricity - Location Based	CH4	Regional Grid-Average	2017	Unspecified Technology	Emission Factor	No		NPCC Upstate NY	6,483,687 kWh	21 lb/GWh	2019 Default Emission Factors - Table #3.1	0.06176	1.729281
Purchased Electricity - Location Based	N2O	Regional Grid-Average	2017	Unspecified Technology	Emission Factor	No		NPCC Upstate NY	6,483,687 kWh	3 lb/GWh	2019 Default Emission Factors - Table #3.1	0.008823	2.338059

## Source Emissions | Electricity (NYS) - MNR - NYSEG Market Based

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 - Market Based	CO2	Regional Grid-Average	2017	Unspecified Technology	Emission Factor	No		NPCC Upstate NY	6,483,687 kWh	294.7 lb/MWh	2019 Default Emission Factors - Table #3.1	866.699276	866.699276
Purchased Electricity - Market Based	CH4	Regional Grid-Average	2017	Unspecified Technology	Emission Factor	No		NPCC Upstate NY	6,483,687 kWh	21 lb/GWh	2019 Default Emission Factors - Table #3.1	0.06176	1.729281
Purchased Electricity - Market Based	N2O	Regional Grid-Average	2017	Unspecified Technology	Emission Factor	No		NPCC Upstate NY	6,483,687 kWh	3 lb/GWh	2019 Default Emission Factors - Table #3.1	0.008823	2.338059

## Source Emissions | Electricity (NYS) - MNR - Orange & Rockland Location Based

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 - Location Based	CO2	Regional Grid-Average	2017	Unspecified Technology	Emission Factor	No		NPCC Upstate NY	3,965,961 kWh	294.7 lb/MWh	2019 Default Emission Factors - Table #3.1	530.145198	530.145198
Purchased Electricity - Location Based	CH4	Regional Grid-Average	2017	Unspecified Technology	Emission Factor	No		NPCC Upstate NY	3,965,961 kWh	21 lb/GWh	2019 Default Emission Factors - Table #3.1	0.037778	1.057772
Purchased Electricity - Location Based	N2O	Regional Grid-Average	2017	Unspecified Technology	Emission Factor	No		NPCC Upstate NY	3,965,961 kWh	3 lb/GWh	2019 Default Emission Factors - Table #3.1	0.005397	1.430151

## Source Emissions | Electricity (NYS) - MNR - Orange & Rockland Market Based

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 - Market Based	CO2	Regional Grid-Average	2017	Unspecified Technology	Emission Factor	No		NPCC Upstate NY	3,965,961 kWh	294.7 lb/MWh	2019 Default Emission Factors - Table #3.1	530.145198	530.145198
Purchased Electricity - Market Based	CH4	Regional Grid-Average	2017	Unspecified Technology	Emission Factor	No		NPCC Upstate NY	3,965,961 kWh	21 lb/GWh	2019 Default Emission Factors - Table #3.1	0.037778	1.057772
Purchased Electricity - Market Based	N2O	Regional Grid-Average	2017	Unspecified Technology	Emission Factor	No		NPCC Upstate NY	3,965,961 kWh	3 lb/GWh	2019 Default Emission Factors - Table #3.1	0.005397	1.430151

## Source Emissions | Electricity (NYS) - MTAWD - Central Hudson Location Based

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 - Location Based	CO2	Regional Grid-Average	2017	Unspecified Technology	Emission Factor	No		NPCC Upstate NY	6,762,540 kWh	294.7 lb/MWh	2019 Default Emission Factors - Table #3.1	903.974625	903.974625
Purchased Electricity - Location Based	CH4	Regional Grid-Average	2017	Unspecified Technology	Emission Factor	No		NPCC Upstate NY	6,762,540 kWh	21 lb/GWh	2019 Default Emission Factors - Table #3.1	0.064416	1.803655
Purchased Electricity - Location Based	N2O	Regional Grid-Average	2017	Unspecified Technology	Emission Factor	No		NPCC Upstate NY	6,762,540 kWh	3 lb/GWh	2019 Default Emission Factors - Table #3.1	0.009202	2.438615

## Source Emissions | Electricity (NYS) - MTAWD - Central Hudson Market Based

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 - Market Based	CO2	Regional Grid-Average	2017	Unspecified Technology	Emission Factor	No		NPCC Upstate NY	6,762,540 kWh	294.7 lb/MWh	2019 Default Emission Factors - Table #3.1	903.974625	903.974625
Purchased Electricity - Market Based	CH4	Regional Grid-Average	2017	Unspecified Technology	Emission Factor	No		NPCC Upstate NY	6,762,540 kWh	21 lb/GWh	2019 Default Emission Factors - Table #3.1	0.064416	1.803655
Purchased Electricity - Market Based	N2O	Regional Grid-Average	2017	Unspecified Technology	Emission Factor	No		NPCC Upstate NY	6,762,540 kWh	3 lb/GWh	2019 Default Emission Factors - Table #3.1	0.009202	2.438615

## Facility Emissions | MTA Stationary Non-revenue Fuel

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

2 Broadway, New York, New York, 10004, US

Scope 1 - Direct Emissions	Total CO <sub>2</sub> e (t)	CO <sub>2</sub> (t)	CH <sub>4</sub> (t)	N <sub>2</sub> O (t)	HFC (t of CO <sub>2</sub> e)	PFC (t of CO <sub>2</sub> e)	NF <sub>3</sub> (t)	SF <sub>6</sub> (t)
Stationary Combustion	23,521.95374	23,475.26911	0.38287	0.135714	0	0	0	0
<b>Total</b>	23,521.95374	23,475.26911	0.38287	0.135714	0	0	0	0

Biogenic - Direct Emissions	Total CO <sub>2</sub> e (t)	CO <sub>2</sub> (t)	CH <sub>4</sub> (t)	N <sub>2</sub> O (t)	HFC (t of CO <sub>2</sub> e)	PFC (t of CO <sub>2</sub> e)	NF <sub>3</sub> (t)	SF <sub>6</sub> (t)
Stationary Biomass Combustion	1,033.050375	1,033.050375	0	0	0	0	0	0
<b>Total</b>	1,033.050375	1,033.050375	0	0	0	0	0	0

## Source Emissions | Biofuel 2B5 - MTAWD (Biodiesel Portion CH4, N2O)

Updated to biomass combustion 9/17

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 <sub>2</sub> e (t)
Stationary Biomass Combustion - Biomass	CO <sub>2</sub>	Biomass Fuels - Liquid	Commercial	Unspecified Technology	Not Reporting	No		Biodiesel (100%)	107,170 gal	9.45 kg/gal	2019 Default Emission Factors - Table #1.1	0	0
Stationary Combustion	CH <sub>4</sub>	Biomass Fuels - Liquid	Commercial	Unspecified Technology	Emission Factor	No		Biodiesel (100%)	107,170 gal	10 g/MMBtu	2019 Default Emission Factors - Table #1.10	0.137178	3.840973
Stationary Combustion	N <sub>2</sub> O	Biomass Fuels - Liquid	Commercial	Unspecified Technology	Emission Factor	No		Biodiesel (100%)	107,170 gal	0.6 g/MMBtu	2019 Default Emission Factors - Table #1.10	0.008231	2.181124

## Source Emissions | Biofuel 2B5 - MTAWD (Biodiesel 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		Biodiesel (100%)	107,170 gal	9.45 kg/gal	2019 Default Emission Factors - Table #1.1	1,012.7565	1,012.7565
Stationary Combustion	CH4	Biomass Fuels - Liquid	Commercial	Unspecified Technology	Not Reporting	No		Biodiesel (100%)	107,170 gal	10 g/MMBtu	2019 Default Emission Factors - Table #1.10	0	0
Stationary Combustion	N2O	Biomass Fuels - Liquid	Commercial	Unspecified Technology	Not Reporting	No		Biodiesel (100%)	107,170 gal	0.6 g/MMBtu	2019 Default Emission Factors - Table #1.10	0	0

## Source Emissions | Biofuel 2B5 - MTAWD (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		Distillate Fuel Oil No. 2	2,036,236 gal	10.21 kg/gal	2019 Default Emission Factors - Table #1.1	20,789.96956	20,789.96956
Stationary Combustion	CH4	Petroleum Products	Commercial	Natural Gas/Diesel Oil Boilers	Emission Factor	No		Distillate Fuel Oil No. 2	2,036,236 gal	0.7 g/MMBtu	2019 Default Emission Factors - Table #1.7	0.1967	5.507611
Stationary Combustion	N2O	Petroleum Products	Commercial	Natural Gas/Diesel Oil Boilers	Emission Factor	No		Distillate Fuel Oil No. 2	2,036,236 gal	0.4 g/MMBtu	2019 Default Emission Factors - Table #1.7	0.1124	29.78606

## Source Emissions | Biofuel 4B5 - MTAWD (Biodiesel 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 Biomass Combustion - Biomass	CO2	Biomass Fuels - Liquid	Commercial	Unspecified Technology	Not Reporting	No		Biodiesel (100%)	2,147.5 gal	9.45 kg/gal	2019 Default Emission Factors - Table #1.1	0	0
Stationary Combustion	CH4	Biomass Fuels - Liquid	Commercial	Unspecified Technology	Emission Factor	No		Biodiesel (100%)	2,147.5 gal	10 g/MMBtu	2019 Default Emission Factors - Table #1.10	0.002749	0.076966
Stationary Combustion	N2O	Biomass Fuels - Liquid	Commercial	Unspecified Technology	Emission Factor	No		Biodiesel (100%)	2,147.5 gal	0.6 g/MMBtu	2019 Default Emission Factors - Table #1.10	0.000165	0.043706

## Source Emissions | Biofuel 4B5 - MTAWD (Biodiesel 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		Biodiesel (100%)	2,147.5 gal	9.45 kg/gal	2019 Default Emission Factors - Table #1.1	20.293875	20.293875
Stationary Combustion	CH4	Biomass Fuels - Liquid	Commercial	Unspecified Technology	Not Reporting	No		Biodiesel (100%)	2,147.5 gal	10 g/MMBtu	2019 Default Emission Factors - Table #1.10	0	0
Stationary Combustion	N2O	Biomass Fuels - Liquid	Commercial	Unspecified Technology	Not Reporting	No		Biodiesel (100%)	2,147.5 gal	0.6 g/MMBtu	2019 Default Emission Factors - Table #1.10	0	0

## Source Emissions | Biofuel 4B5 - MTAWD (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		Distillate Fuel Oil No. 4	40,802.5 gal	10.96 kg/gal	2019 Default Emission Factors - Table #1.1	447.1954	447.1954
Stationary Combustion	CH4	Petroleum Products	Commercial	Natural Gas/Diesel Oil Boilers	Emission Factor	No		Distillate Fuel Oil No. 4	40,802.5 gal	0.7 g/MMBtu	2019 Default Emission Factors - Table #1.7	0.00417	0.11676
Stationary Combustion	N2O	Petroleum Products	Commercial	Natural Gas/Diesel Oil Boilers	Emission Factor	No		Distillate Fuel Oil No. 4	40,802.5 gal	0.4 g/MMBtu	2019 Default Emission Factors - Table #1.7	0.002383	0.631459

## Source Emissions | Biofuel 6B5 - MTAWD (Biodiesel CH4, N2O)

MTA hasn't purchased or used 6B5 heating oil since 2017

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		Residual Fuel Oil No. 6	0	11.27 kg/gal	2019 Default Emission Factors - Table #1.1	0	0
Stationary Combustion	CH4	Petroleum Products	Commercial	Boilers	Emission Factor	No		Residual Fuel Oil No. 6	0	1.4 g/MMBtu	2019 Default Emission Factors - Table #1.8	0	0
Stationary Combustion	N2O	Petroleum Products	Commercial	Boilers	Emission Factor	No		Residual Fuel Oil No. 6	0	0.3 g/MMBtu	2019 Default Emission Factors - Table #1.8	0	0



## Source Emissions | Biofuel 6B5 - MTAWD (Biodiesel 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		Biodiesel (100%)	0	9.45 kg/gal	2019 Default Emission Factors - Table #1.1	0	0
Stationary Combustion	CH4	Biomass Fuels - Liquid	Commercial	Unspecified Technology	Not Reporting	No		Biodiesel (100%)	0	10 g/MMBtu	2019 Default Emission Factors - Table #1.10	0	0
Stationary Combustion	N2O	Biomass Fuels - Liquid	Commercial	Unspecified Technology	Not Reporting	No		Biodiesel (100%)	0	0.6 g/MMBtu	2019 Default Emission Factors - Table #1.10	0	0

## Source Emissions | Biofuel 6B5 - MTAWD (Diesel Portion)

MTA hasn't purchased or used 6B5 heating oil since 2017

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		Residual Fuel Oil No. 6	0	11.27 kg/gal	2019 Default Emission Factors - Table #1.1	0	0
Stationary Combustion	CH4	Petroleum Products	Commercial	Boilers	Emission Factor	No		Residual Fuel Oil No. 6	0	1.4 g/MMBtu	2019 Default Emission Factors - Table #1.8	0	0
Stationary Combustion	N2O	Petroleum Products	Commercial	Boilers	Emission Factor	No		Residual Fuel Oil No. 6	0	0.3 g/MMBtu	2019 Default Emission Factors - Table #1.8	0	0

## Source Emissions | Diesel - MTAWD - Bulk

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		Distillate Fuel Oil No. 2	202,640 gal	10.21 kg/gal	2019 Default Emission Factors - Table #1.1	2,068.9544	2,068.9544
Stationary Combustion	CH4	Petroleum Products	Commercial	Natural Gas/Diesel Oil Boilers	Emission Factor	No		Distillate Fuel Oil No. 2	202,640 gal	0.7 g/MMBtu	2019 Default Emission Factors - Table #1.7	0.019575	0.548101
Stationary Combustion	N2O	Petroleum Products	Commercial	Natural Gas/Diesel Oil Boilers	Emission Factor	No		Distillate Fuel Oil No. 2	202,640 gal	0.4 g/MMBtu	2019 Default Emission Factors - Table #1.7	0.011186	2.964218

## Source Emissions | Kerosene - MTAWD - Bulk

Updated from mobile to stationary 9/16/20

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	No		Kerosene	16,665 gal	10.15 kg/gal	2019 Default Emission Factors - Table #1.1	169.14975	169.14975
Stationary Combustion	CH4	Petroleum Products	Commercial	Unspecified Technology	Emission Factor	No		Kerosene	16,665 gal	10 g/MMBtu	2019 Default Emission Factors - Table #1.10	0.022498	0.629937
Stationary Combustion	N2O	Petroleum Products	Commercial	Unspecified Technology	Emission Factor	No		Kerosene	16,665 gal	0.6 g/MMBtu	2019 Default Emission Factors - Table #1.10	0.00135	0.357714

## Facility Emissions | MTA Stationary Non-revenue Natural Gas

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

2 Broadway, New York, New York, 10004, US

Scope 1 - Direct Emissions	Total CO <sub>2</sub> e (t)	CO <sub>2</sub> (t)	CH <sub>4</sub> (t)	N <sub>2</sub> O (t)	HFC (t of CO <sub>2</sub> e)	PFC (t of CO <sub>2</sub> e)	NF <sub>3</sub> (t)	SF <sub>6</sub> (t)
Stationary Combustion	79,680.328569	79,286.287971	1.344848	1.344848	0	0	0	0
<b>Total</b>	<b>79,680.328569</b>	<b>79,286.287971</b>	<b>1.344848</b>	<b>1.344848</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

## Source Emissions | Natural Gas - MNCRR - Central Hudson

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 <sub>2</sub> e (t)
Stationary Combustion	CO <sub>2</sub>	Natural Gas	Commercial	Boilers	Emission Factor	No		Unspecified (Weighted U.S. Average)	29,627 therm	53.06 kg/MMBtu	2019 Default Emission Factors - Table #1.1	157.200862	157.200862
Stationary Combustion	CH <sub>4</sub>	Natural Gas	Commercial	Boilers	Emission Factor	No		Unspecified (Weighted U.S. Average)	29,627 therm	0.9 g/MMBtu	2019 Default Emission Factors - Table #1.8	0.002666	0.07466
Stationary Combustion	N <sub>2</sub> O	Natural Gas	Commercial	Boilers	Emission Factor	No		Unspecified (Weighted U.S. Average)	29,627 therm	0.9 g/MMBtu	2019 Default Emission Factors - Table #1.8	0.002666	0.706604

## Source Emissions | Natural Gas - MNCRR - Connecticut

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		Unspecified (Weighted U.S. Average)	34 therm	53.06 kg/MMBtu	2019 Default Emission Factors - Table #1.1	0.180404	0.180404
Stationary Combustion	CH4	Natural Gas	Commercial	Boilers	Emission Factor	No		Unspecified (Weighted U.S. Average)	34 therm	0.9 g/MMBtu	2019 Default Emission Factors - Table #1.8	0.000003	0.000086
Stationary Combustion	N2O	Natural Gas	Commercial	Boilers	Emission Factor	No		Unspecified (Weighted U.S. Average)	34 therm	0.9 g/MMBtu	2019 Default Emission Factors - Table #1.8	0.000003	0.000811

## Source Emissions | Natural Gas - MNCRR - 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	CO2e (t)
Stationary Combustion	CO2	Natural Gas	Commercial	Boilers	Emission Factor	No		Unspecified (Weighted U.S. Average)	912 therm	53.06 kg/MMBtu	2019 Default Emission Factors - Table #1.1	4.839072	4.839072
Stationary Combustion	CH4	Natural Gas	Commercial	Boilers	Emission Factor	No		Unspecified (Weighted U.S. Average)	912 therm	0.9 g/MMBtu	2019 Default Emission Factors - Table #1.8	0.000082	0.002298
Stationary Combustion	N2O	Natural Gas	Commercial	Boilers	Emission Factor	No		Unspecified (Weighted U.S. Average)	912 therm	0.9 g/MMBtu	2019 Default Emission Factors - Table #1.8	0.000082	0.021751

## Source Emissions | Natural Gas - MNCRR - Southern Connecticut

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		Unspecified (Weighted U.S. Average)	3,902.64 therm	53.06 kg/MMBtu	2019 Default Emission Factors - Table #1.1	20.707423	20.707423
Stationary Combustion	CH4	Natural Gas	Commercial	Boilers	Emission Factor	No		Unspecified (Weighted U.S. Average)	3,902.64 therm	0.9 g/MMBtu	2019 Default Emission Factors - Table #1.8	0.000351	0.009835
Stationary Combustion	N2O	Natural Gas	Commercial	Boilers	Emission Factor	No		Unspecified (Weighted U.S. Average)	3,902.64 therm	0.9 g/MMBtu	2019 Default Emission Factors - Table #1.8	0.000351	0.093078

## Source Emissions | Natural Gas - MTAWD - 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		Unspecified (Weighted U.S. Average)	4,782,967 therm	53.06 kg/MMBtu	2019 Default Emission Factors - Table #1.1	25,378.422902	25,378.422902
Stationary Combustion	CH4	Natural Gas	Commercial	Boilers	Emission Factor	No		Unspecified (Weighted U.S. Average)	4,782,967 therm	0.9 g/MMBtu	2019 Default Emission Factors - Table #1.8	0.430467	12.053077
Stationary Combustion	N2O	Natural Gas	Commercial	Boilers	Emission Factor	No		Unspecified (Weighted U.S. Average)	4,782,967 therm	0.9 g/MMBtu	2019 Default Emission Factors - Table #1.8	0.430467	114.073763

## Source Emissions | Natural Gas - MTAWD - 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		Unspecified (Weighted U.S. Average)	10,125,318 therm	53.06 kg/MMBtu	2019 Default Emission Factors - Table #1.1	53,724.937308	53,724.937308
Stationary Combustion	CH4	Natural Gas	Commercial	Boilers	Emission Factor	No		Unspecified (Weighted U.S. Average)	10,125,318 therm	0.9 g/MMBtu	2019 Default Emission Factors - Table #1.8	0.911279	25.515801
Stationary Combustion	N2O	Natural Gas	Commercial	Boilers	Emission Factor	No		Unspecified (Weighted U.S. Average)	10,125,318 therm	0.9 g/MMBtu	2019 Default Emission Factors - Table #1.8	0.911279	241.488834

## Facility Emissions | MTA Stationary Non-revenue Steam

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

2 Broadway, New York, New York, 10004, US

Scope 2 - Location 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 Steam - Location Based	9,400.94329	9,389.33	0.18563	0.02421	0	0	0	0
<b>Total</b>	9,400.94329	9,389.33	0.18563	0.02421	0	0	0	0

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 Steam - Market Based	9,400.94329	9,389.33	0.18563	0.02421	0	0	0	0
<b>Total</b>	9,400.94329	9,389.33	0.18563	0.02421	0	0	0	0

## Source Emissions | Steam - MTAWD - Location Based

CO2 kg/mt = 116.3374, CH4 kg/mt = 0.0023, N2O kg/mt = 0.0003. Source: <https://data.cityofnewyork.us/w/ismp-xfj/25te-f2tw?cur=tFjnz2uZUfv&from=root>. 2016 EF is used in absence of an updated 2017 EF for NYC

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 - Location Based	CO2	Direct Line	PreCalculated	PreCalculated	PreCalculated	Yes		PreCalculated	N/A	N/A	N/A	9,389.33	9,389.33
Purchased Steam - Location Based	CH4	Direct Line	PreCalculated	PreCalculated	PreCalculated	Yes		PreCalculated	N/A	N/A	N/A	0.18563	5.19764
Purchased Steam - Location Based	N2O	Direct Line	PreCalculated	PreCalculated	PreCalculated	Yes		PreCalculated	N/A	N/A	N/A	0.02421	6.41565

## Source Emissions | Steam - MTAWD - Market Based

CO2 kg/mt = 116.3374, CH4 kg/mt = 0.0023, N2O kg/mt = 0.0003. Source: <https://data.cityofnewyork.us/w/ismp-xfj/25te-f2tw?cur=tFjnz2uZUfv&from=root>. 2016 EF is used in absence of an updated 2017 EF for NYC

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 - Market Based	CO2	Direct Line	PreCalculated	PreCalculated	PreCalculated	Yes		PreCalculated	N/A	N/A	N/A	9,389.33	9,389.33
Purchased Steam - Market Based	CH4	Direct Line	PreCalculated	PreCalculated	PreCalculated	Yes		PreCalculated	N/A	N/A	N/A	0.18563	5.19764
Purchased Steam - Market Based	N2O	Direct Line	PreCalculated	PreCalculated	PreCalculated	Yes		PreCalculated	N/A	N/A	N/A	0.02421	6.41565

## Facility Emissions | PARATRANSIT Mobile Revenue Fuel

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

2 Broadway, New York, New York, 10004, US

Optional - Optional Emissions	Total CO <sub>2e</sub> (t)	CO <sub>2</sub> (t)	CH <sub>4</sub> (t)	N <sub>2</sub> O (t)	HFC (t of CO <sub>2e</sub> )	PFC (t of CO <sub>2e</sub> )	NF <sub>3</sub> (t)	SF <sub>6</sub> (t)
Scope 3	55,943.39335	55,941.59	0.0221	0.00447	0	0	0	0
<b>Total</b>	55,943.39335	55,941.59	0.0221	0.00447	0	0	0	0

## Source Emissions | Diesel - PTRAN

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 <sub>2e</sub> (t)
Scope 3 (Optional)	CO <sub>2</sub>	N/A	All	Unspecified Technology	PreCalculated	No		N/A	N/A	N/A	N/A	28,654.71	28,654.71
Scope 3 (Optional)	CH <sub>4</sub>	N/A	All	Unspecified Technology	PreCalculated	Yes		N/A	N/A	N/A	N/A	0.0117	0.3276
Scope 3 (Optional)	N <sub>2</sub> O	N/A	All	Unspecified Technology	PreCalculated	Yes		N/A	N/A	N/A	N/A	0.00229	0.60685

## Source Emissions | Gasoline - PTRAN

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 <sub>2e</sub> (t)
Scope 3 (Optional)	CO <sub>2</sub>	N/A	All	Unspecified Technology	PreCalculated	No		N/A	N/A	N/A	N/A	27,286.88	27,286.88
Scope 3 (Optional)	CH <sub>4</sub>	N/A	All	Unspecified Technology	PreCalculated	Yes		N/A	N/A	N/A	N/A	0.0104	0.2912
Scope 3 (Optional)	N <sub>2</sub> O	N/A	All	Unspecified Technology	PreCalculated	Yes		N/A	N/A	N/A	N/A	0.00218	0.5777

## Facility Emissions | PARATRANSIT Mobile Revenue Natural Gas

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

2 Broadway, New York, New York, 10004, US



Optional - Optional Emissions	Total CO <sub>2</sub> e (t)	CO <sub>2</sub> (t)	CH <sub>4</sub> (t)	N <sub>2</sub> O (t)	HFC (t of CO <sub>2</sub> e)	PFC (t of CO <sub>2</sub> e)	NF <sub>3</sub> (t)	SF <sub>6</sub> (t)
Scope 3	0	0	0	0	0	0	0	0
<b>Total</b>	0	0	0	0	0	0	0	0

## Source Emissions | CNG - PTRAN

\*This was not filled out for 2017

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 <sub>2</sub> e (t)
Scope 3 (Optional)	CO <sub>2</sub>	N/A	All	Unspecified Technology	PreCalculated	No		N/A	N/A	N/A	N/A	0	0
Scope 3 (Optional)	CH <sub>4</sub>	N/A	All	Unspecified Technology	PreCalculated	Yes		N/A	N/A	N/A	N/A	0	0
Scope 3 (Optional)	N <sub>2</sub> O	N/A	All	Unspecified Technology	PreCalculated	Yes		N/A	N/A	N/A	N/A	0	0