



New York State Metropolitan Transportation Authority Emissions Year 2008

New York State Metropolitan Transportation Authority

Detail Report - Control (Public)

Transitional Inventory 2008

Description:

**Industry:** 48 - Transportation and Warehousing

Address: 347 Madison Avenue

10th Floor

New York, New York US

Contact:

Website:

#### **Reporting Information**

Reporting Protocol: General Reporting Protocol 1.1 and associated updates and clarifications

GWP Standard: SAR

Base Year: None

Consolidation Methodology: Operational Control Only

Status: TCR Accepted

#### **Verification Information**

Verification Body:

Level of Assurance: Reasonable

# Entity Emissions | Total in metric tons of CO2e

Scope 1 - Direct Emissions	Total CO₂e (t)	CO <sub>2</sub> (t)	CH₄ (t of CO₂e)	N₂O (t of CO₂e)	HFC (t of CO₂e)	PFC (t of CO₂e)	NF₃ (t of CO₂e)	SF₅ (t of CO₂e)
Stationary Combustion	136,846.896181	136,846.896336	0	0	0	0	0	0
Mobile Combustion	838,377.95539	838,377.96191	0	0	0	0	0	0
Total	975,224.851571	975,224.858246	0	0	0	0	0	0
NetTotal	975,224.851571	975,224.858246	0	0	0	0	0	0
Scope 2 - Market Based - Indirect Emissions	Total CO₂e (t)	CO₂ (t)	CH₄ (t of CO₂e)	N₂O (t of CO₂e)	HFC (t of CO₂e)	PFC (t of CO₂e)	NF₃ (t of CO₂e)	SF₅ (t of CO₂e)

Scope 2 - Market Based - Indirect Emissions	Total CO₂e (t)	CO <sub>2</sub> (t)	CH₄ (t of CO₂e)	N₂O (t of CO₂e)	HFC (t of CO₂e)	PFC (t of CO₂e)	NF₃ (t of CO₂e)	SF₅ (t of CO₂e)
Purchased Electricity - Market Based	1,320,821.998326	1,320,821.998326	0	0	0	0	0	0
Purchased Steam - Market Based	18,115.47	18,115.47	0	0	0	0	0	0
Total	1,338,937.468326	1,338,937.468326	0	0	0	0	0	0
NetTotal	1,338,937.468326	1,338,937.468326	0	0	0	0	0	0

Biogenic - Direct Emissions	Total CO <sub>2</sub> e (t)	CO <sub>2</sub> (t)	CH₄ (t of CO₂e)	N₂O (t of CO₂e)	HFC (t of CO₂e)	PFC (t of CO₂e)	NF₃ (t of CO₂e)	SF₅ (t of CO₂e)
Stationary Biomass Combustion	386.237849	386.237849	0	0	0	0	0	0
Mobile Biomass Combustion	2,117.683066	2,117.681586	0	0	0	0	0	0
Total	2,503.920915	2,503.919435	0	0	0	0	0	0
NetTotal	2,503.920915	2,503.919435	0	0	0	0	0	0

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Optional - Optional Emissions		Total CO₂e (t)	CO <sub>2</sub> (t)	CH₄ (t of CO₂e)	N₂O (t of CO₂e)	HFC (t of CO₂e)	PFC (t of CO₂e)	NF₃ (t of CO₂e)	SF₅ (t of CO₂e)
Scope 3		78,798.231914	78,798.231914	0	0	0	0	0	0
	Total	78,798.231914	78,798.231914	0	0	0	0	0	0
1	NetTotal	78,798.231914	78,798.231914	0	0	0	0	0	0

# Entity Emissions | Total in metric tons of gas

Scope 1 - Direct Emissions	Total CO₂e (t)	CO <sub>2</sub> (t)	CH₄ (t)	N₂O (t)	HFC (t of CO₂e)	PFC (t of CO₂e)	NF₃ (t)	SF₅ (t)
Stationary Combustion	136,846.896181	136,846.896336	0	0	0	0	0	0
Mobile Combustion	838,377.95539	838,377.96191	0	0	0	0	0	0
Total	975,224.851571	975,224.858246	0	0	0	0	0	0

Scope 2 - Market Based - Indirect Emissions	Total CO <sub>2</sub> e (t)	CO <sub>2</sub> (t)	CH₄ (t)	N₂O (t)	HFC (t of CO₂e)	PFC (t of CO₂e)	NF <sub>3</sub> (t)	SF <sub>6</sub> (t)
Purchased Electricity - Market Based	1,320,821.998326	1,320,821.998326	0	0	0	0	0	0
Purchased Steam - Market Based	18,115.47	18,115.47	0	0	0	0	0	0
Total	1,338,937.468326	1,338,937.468326	0	0	0	0	0	0

Biogenic - Direct Emissions	Total CO₂e (t)	CO <sub>2</sub> (t)	CH₄ (t)	N₂O (t)	HFC (t of CO₂e)	PFC (t of CO₂e)	NF₃ (t)	SF <sub>6</sub> (t)
Stationary Biomass Combustion	386.237849	386.237849	0	0	0	0	0	0
Mobile Biomass Combustion	2,117.683066	2,117.681586	0	0	0	0	0	0
Total	2,503.920915	2,503.919435	0	0	0	0	0	0

Optional - Optional Emissions		Total CO₂e (t)	CO <sub>2</sub> (t)	CH₄ (t)	N₂O (t)	HFC (t of CO₂e)	PFC (t of CO₂e)	NF₃ (t)	SF <sub>6</sub> (t)
Scope 3		78,798.231914	78,798.231914	0	0	0	0	0	0
	Total	78,798.231914	78,798.231914	0	0	0	0	0	0

# Simplified Estimation Methods (SEMs)

Estimated CO₂e as a Percentage of Total*	Total Emissions (t of CO₂e)	Total Estimated CO <sub>2</sub> e (t)	
N/A	0	0	Location Based
0.00695984588369044%	2,316,666.240812	161.2364	Market Based
*Total based on scope 1, scope 2 & biomass emissions			

## Facility Emissions | MTA Bridges & Tunnels (B&T) Facilities (Non-traction electricity+heating)

Scope 1 - Direct Emissions		Total CO₂e (t)	CO₂(t)	CH₄(t)	N₂O (t)	HFC (t of CO <sub>2</sub> e)	PFC (t of CO₂e)	NF₃(t)	SF <sub>6</sub> (t)
Stationary Combustion		8,388.089781	8,388.090508	0	0	0	0	0	0
	Total	8,388.089781	8,388.090508	0	0	0	0	0	0

Scope 2 - Market Based - Indirect Emissions	Total CO₂e (t)	CO <sub>2</sub> (t)	CH₄(t)	N₂O (t)	HFC (t of CO₂e)	PFC (t of CO₂e)	NF₃(t)	SF₅(t)
Purchased Electricity - Market Based	15,535.331921	15,535.331921	0	0	0	0	0	0
Total	15,535.331921	15,535.331921	0	0	0	0	0	0

Biogenic - Direct Emissions	Total CO₂e (t)	CO₂(t)	CH₄(t)	N₂O (t)	HFC (t of CO₂e)	PFC (t of CO₂e)	NF₃(t)	SF₅(t)
Stationary Biomass Combustion	190.941786	190.941786	0	0	0	0	0	0
Total	190.941786	190.941786	0	0	0	0	0	0

## Facility Emissions | MTA Bridges & Tunnels (B&T) Ground-based fleet (non-revenue)

Scope 1 - Direct Emissions	Total CO₂e (t)	CO <sub>2</sub> (t)	CH₄(t)	N₂O (t)	HFC (t of CO₂e)	PFC (t of CO₂e)	NF₃(t)	SF <sub>6</sub> (t)
Mobile Combustion	3,492.54	3,492.53537	0	0	0	0	0	0
To	otal 3,492.54	3,492.53537	0	0	0	0	0	0

Biogenic - Direct Emissions	Total CO <sub>2</sub> e (t)	CO <sub>2</sub> (t)	CH₄(t)	N₂O (t)	HFC (t of CO₂e)	PFC (t of CO₂e)	NF₃(t)	SF <sub>6</sub> (t)
Mobile Biomass Combustion	336.946992	336.948272	0	0	0	0	0	0
To	otal 336.946992	336.948272	0	0	0	0	0	0

## Facility Emissions | MTA Bus Company Facilities (Non-traction electricity+heating)

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

N/A, N/A, New York, N/A, US

Scope 1 - Direct Emissions	Total CO <sub>2</sub> e (t)	CO <sub>2</sub> (t)	CH₄(t)	N₂O (t)	HFC (t of CO₂e)	PFC (t of CO₂e)	NF₃(t)	SF₀(t)
Stationary Combustion	7,110	7,110.001061	0	0	0	0	0	0
Total	7,110	7,110.001061	0	0	0	0	0	0

Scope 2 - Market Based - Indirect Emissions	Total CO₂e (t)	CO₂(t)	CH <sub>4</sub> (t)	N₂O (t)	HFC (t of CO₂e)	PFC (t of CO₂e)	NF₃(t)	SF₅(t)
Purchased Electricity - Market Based	4,136.173346	4,136.173346	0	0	0	0	0	0
Total	4,136.173346	4,136.173346	0	0	0	0	0	0

### Facility Emissions | MTA Bus Company Ground-based fleet (revenue)

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

N/A, N/A, New York, N/A, US

Scope 1 - Direct Emissions		Total CO₂e (t)	CO <sub>2</sub> (t)	CH₄(t)	N₂O (t)	HFC (t of CO₂e)	PFC (t of CO₂e)	NF₃(t)	SF <sub>6</sub> (t)
Mobile Combustion		127,099.12618	127,099.12778	0	0	0	0	0	0
	Total	127,099.12618	127,099.12778	0	0	0	0	0	0

Biogenic - Direct Emissions	Total CO₂e (t)	CO₂(t)	CH₄(t)	N₂O (t)	HFC (t of CO₂e)	PFC (t of CO₂e)	NF₃(t)	SF₅(t)
Mobile Biomass Combustion	953.840448	953.840448	0	0	0	0	0	0
Total	953.840448	953.840448	0	0	0	0	0	0

### Facility Emissions | MTA Headquarters (HQ) Facilities (Non-traction electricity+heating)

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

N/A, N/A, New York, N/A, 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)	SF <sub>6</sub> (t)
Purchased Electricity - Market Based	13,018.522399	13,018.522399	0	0	0	0	0	0
Purchased Steam - Market Based	2,665.19	2,665.19	0	0	0	0	0	0
Total	15,683.712399	15,683.712399	0	0	0	0	0	0

### Facility Emissions | MTA Headquarters (HQ) Ground-based fleet (non-revenue)

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

N/A, N/A, New York, N/A, US

Scope 1 - Direct Emissions	Total CO <sub>2</sub> e (t)	CO <sub>2</sub> (t)	CH₄(t)	N₂O (t)	HFC (t of CO₂e)	PFC (t of CO₂e)	NF₃(t)	SF <sub>6</sub> (t)
Mobile Combustion	3,949.85	3,949.85399	0	0	0	0	0	0
To	otal 3,949.85	3,949.85399	0	0	0	0	0	0

### Facility Emissions | MTA Long Island Bus (LIB) - Paratransit - Facilities (Non-traction electricity+heating)

Optional - Optional Emissions	Total CO₂e (t)	CO₂(t)	CH₄(t)	N₂O (t)	HFC (t of CO₂e)	PFC (t of CO₂e)	NF₃(t)	SF₀(t)
Scope 3	247.352344	247.352344	0	0	0	0	0	0
То	tal 247.352344	247.352344	0	0	0	0	0	0

#### Facility Emissions | MTA Long Island Bus (LIB) - Paratransit - Ground-based (Traction+Non-traction)

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

N/A, N/A, New York, N/A, US

Optional - Optional Emissions	Total CO₂e (t)	CO <sub>2</sub> (t)	CH₄(t)	N₂O (t)	HFC (t of CO₂e)	PFC (t of CO₂e)	NF₃(t)	SF₀(t)
Scope 3	5,346.12957	5,346.12957	0	0	0	0	0	0
Total	5,346.12957	5,346.12957	0	0	0	0	0	0

### Facility Emissions | MTA Long Island Bus (LIB) Facilities (Non-traction electricity+heating)

Scope 1 - Direct Emissions		Total CO <sub>2</sub> e (t)	CO₂(t)	CH₄(t)	N₂O (t)	HFC (t of CO₂e)	PFC (t of CO₂e)	NF₃ (t)	SF₅(t)
Stationary Combustion		3,612.37	3,612.363722	0	0	0	0	0	0
	Total	3,612.37	3,612.363722	0	0	0	0	0	0

Scope 2 - Market Based - Indirect Emissions	Total CO₂e (t)	CO <sub>2</sub> (t)	CH₄(t)	N₂O (t)	HFC (t of CO₂e)	PFC (t of CO₂e)	NF₃(t)	SF₅(t)
Purchased Electricity - Market Based	8,749.754813	8,749.754813	0	0	0	0	0	0
Total	8,749.754813	8,749.754813	0	0	0	0	0	0

#### Facility Emissions | MTA Long Island Bus (LIB) Ground-based fleet (revenue+non-revenue)

Equity share - 100% | Entity controls the facility emissions - Yes N/A, N/A, New York, N/A, US

Scope 1 - Direct Emissions		Total CO <sub>2</sub> e (t)	CO₂(t)	CH₄(t)	N₂O (t)	HFC (t of CO <sub>2</sub> e)	PFC (t of CO₂e)	NF₃(t)	SF₀(t)
Mobile Combustion		36,660.284	36,660.2893	0	0	0	0	0	0
	Total	36,660.284	36,660.2893	0	0	0	0	0	0

Biogenic - Direct Emissions	Total CO <sub>2</sub> e (t)	CO <sub>2</sub> (t)	CH₄(t)	N₂O (t)	HFC (t of CO₂e)	PFC (t of CO₂e)	NF₃(t)	SF₅(t)
Mobile Biomass Combustion	7.933629	7.933629	0	0	0	0	0	0
Total	7.933629	7.933629	0	0	0	0	0	0

## Facility Emissions | MTA Long Island Rail Road (LIRR) Electricity - Traction Power (Revenue)

Scope 2 - Market Based - Indirect Emissions	Total CO₂e (t)	CO <sub>2</sub> (t)	CH₄(t)	N₂O (t)	HFC (t of CO₂e)	PFC (t of CO <sub>2</sub> e)	NF₃(t)	SF <sub>6</sub> (t)
Purchased Electricity - Market Based	277,579.715335	277,579.715335	0	0	0	0	0	0
Total	277,579.715335	277,579.715335	0	0	0	0	0	0

## Facility Emissions | MTA Long Island Rail Road (LIRR) Facilities (Non-traction electricity+heating)

Scope 1 - Direct Emissions		Total CO <sub>2</sub> e (t)	CO <sub>2</sub> (t)	CH₄(t)	N₂O (t)	HFC (t of CO₂e)	PFC (t of CO₂e)	NF₃(t)	SF₀(t)
Stationary Combustion		10,100.1532	10,100.16365	0	0	0	0	0	0
	Total	10,100.1532	10,100.16365	0	0	0	0	0	0

Scope 2 - Market Based - Indirect Emissions	Total CO <sub>2</sub> e (t)	CO <sub>2</sub> (t)	CH₄(t)	N₂O (t)	HFC (t of CO₂e)	PFC (t of CO₂e)	NF₃(t)	SF <sub>6</sub> (t)
Purchased Electricity - Market Based	44,487.567716	44,487.567716	0	0	0	0	0	0
Total	44,487.567716	44,487.567716	0	0	0	0	0	0

Biogenic - Direct Emissions	Total CO₂e (t)	CO <sub>2</sub> (t)	CH₄(t)	N₂O (t)	HFC (t of CO₂e)	PFC (t of CO₂e)	NF₃(t)	SF₅(t)
Stationary Biomass Combustion	0.120015	0.120015	0	0	0	0	0	0
Total	0.120015	0.120015	0	0	0	0	0	0

## Facility Emissions | MTA Long Island Rail Road (LIRR) Ground-based fleet (revenue+non-revenue)

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

N/A, N/A, New York, N/A, US

Scope 1 - Direct Emissions	Total CO₂e (t)	CO₂(t)	CH₄(t)	N₂O (t)	HFC (t of CO₂e)	PFC (t of CO₂e)	NF₃(t)	SF₀(t)
Mobile Combustion	84,625.88	84,625.87704	0	0	0	0	0	0
Т	otal 84,625.88	84,625.87704	0	0	0	0	0	0

#### Facility Emissions | MTA Metro-North Railroad (MNR) Electricity (CT) - Traction Power (Revenue)

Scope 2 - Market Based - Indirect Emissions	Total CO <sub>2</sub> e (t)	CO₂(t)	CH₄(t)	N₂O (t)	HFC (t of CO <sub>2</sub> e)	PFC (t of CO <sub>2</sub> e)	NF <sub>3</sub> (t)	SF₀(t)
Purchased Electricity - Market Based	65,482.916063	65,482.916063	0	0	0	0	0	0
Total	65,482.916063	65,482.916063	0	0	0	0	0	0

#### Facility Emissions | MTA Metro-North Railroad (MNR) Electricity (NYS) - Traction Power (Revenue)

Equity share - 100% | Entity controls the facility emissions - Yes N/A, N/A, New York, N/A, US

Scope 2 - Market Based - Indirect Emissions	Total CO <sub>2</sub> e (t)	CO₂(t)	CH₄(t)	N₂O (t)	HFC (t of CO₂e)	PFC (t of CO₂e)	NF₃(t)	SF₀(t)
Purchased Electricity - Market Based	109,903.613738	109,903.613738	0	0	0	0	0	0
Total	109,903.613738	109,903.613738	0	0	0	0	0	0

Optional - Optional Emissions	Total CO₂e (t)	CO <sub>2</sub> (t)	CH₄(t)	N₂O (t)	HFC (t of CO₂e)	PFC (t of CO <sub>2</sub> e)	NF₃(t)	SF <sub>6</sub> (t)
Scope 3	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0

### Facility Emissions | MTA Metro-North Railroad (MNR) Facilities - CT (Non-traction electricity+heating)

Scope 2 - Market Based - Indirect Emissions	Total CO₂e (t)	CO <sub>2</sub> (t)	CH₄(t)	N₂O (t)	HFC (t of CO₂e)	PFC (t of CO₂e)	NF₃(t)	SF₀(t)
Purchased Electricity - Market Based	5,840.744574	5,840.744574	0	0	0	0	0	0
Total	5,840.744574	5,840.744574	0	0	0	0	0	0

## Facility Emissions | MTA Metro-North Railroad (MNR) Facilities - NY (Non-traction electricity+heating)

Scope 1 - Direct Emissions		Total CO <sub>2</sub> e (t)	CO <sub>2</sub> (t)	CH₄(t)	N₂O (t)	HFC (t of CO₂e)	PFC (t of CO₂e)	NF₃(t)	SF₅(t)
Stationary Combustion		9,537.2632	9,537.259838	0	0	0	0	0	0
	Total	9,537.2632	9,537.259838	0	0	0	0	0	0

Scope 2 - Market Based - Indirect Emissions	Total CO₂e (t)	CO <sub>2</sub> (t)	CH₄(t)	N₂O (t)	HFC (t of CO₂e)	PFC (t of CO₂e)	NF₃(t)	SF₅(t)
Purchased Electricity - Market Based	25,307.940417	25,307.940417	0	0	0	0	0	0
Purchased Steam - Market Based	15,450.28	15,450.28	0	0	0	0	0	0
Total	40,758.220417	40,758.220417	0	0	0	0	0	0

#### Facility Emissions | MTA Metro-North Railroad (MNR) Ground-based fleet (non-revenue)

Equity share - 100% | Entity controls the facility emissions - Yes 347 Madison Ave, New York, New York, 10017, US

Scope 1 - Direct Emissions	Total CO <sub>2</sub> e (t)	CO₂(t)	CH₄(t)	N₂O (t)	HFC (t of CO₂e)	PFC (t of CO₂e)	NF₃(t)	SF₀(t)
Mobile Combustion	80,586.91	80,586.91426	0	0	0	0	0	0
Т	<b>otal</b> 80,586.91	80,586.91426	0	0	0	0	0	0

Biogenic - Direct Emissions	Total CO₂e (t)	CO <sub>2</sub> (t)	CH₄(t)	N₂O (t)	HFC (t of CO₂e)	PFC (t of CO₂e)	NF₃(t)	SF₀(t)
Mobile Biomass Combustion	11.84	11.83724	0	0	0	0	0	0
Total	11.84	11.83724	0	0	0	0	0	0

### Facility Emissions | MTA NYCT - Paratransit - Ground-based fleet (revenue+non-revenue)

Optional - Optional Emissions	Total CO₂e (t)	CO <sub>2</sub> (t)	CH₄(t)	N <sub>2</sub> O (t)	HFC (t of CO₂e)	PFC (t of CO₂e)	NF₃(t)	SF₀(t)
Scope 3	73,204.75	73,204.75	0	0	0	0	0	0
Total	73,204.75	73,204.75	0	0	0	0	0	0

## Facility Emissions | MTA NYCT Electricity - Traction Power (Revenue)

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

N/A, N/A, New York, N/A, US

Scope 2 - Market Based - Indirect Emissions	Total CO₂e (t)	CO <sub>2</sub> (t)	CH₄(t)	N₂O (t)	HFC (t of CO₂e)	PFC (t of CO₂e)	NF₃(t)	SF <sub>6</sub> (t)
Purchased Electricity - Market Based	597,112.639354	597,112.639354	0	0	0	0	0	0
Total	597,112.639354	597,112.639354	0	0	0	0	0	0

## Facility Emissions | MTA NYCT Facilities (Non-traction electricity+heating)

Scope 1 - Direct Emissions		Total CO₂e (t)	CO <sub>2</sub> (t)	CH₄(t)	N₂O (t)	HFC (t of CO₂e)	PFC (t of CO₂e)	NF₃(t)	SF <sub>6</sub> (t)
Stationary Combustion		98,099.02	98,099.017557	0	0	0	0	0	0
	Total	98,099.02	98,099.017557	0	0	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)	SF <sub>6</sub> (t)
Purchased Electricity - Market Based	153,667.07865	153,667.07865	0	0	0	0	0	0
Total	153,667.07865	153,667.07865	0	0	0	0	0	0

Biogenic - Direct Emissions	Total CO₂e (t)	CO₂(t)	CH₄(t)	N₂O (t)	HFC (t of CO₂e)	PFC (t of CO₂e)	NF₃(t)	SF₅(t)
Stationary Biomass Combustion	195.176048	195.176048	0	0	0	0	0	0
Total	195.176048	195.176048	0	0	0	0	0	0

## Facility Emissions | MTA NYCT Ground-based fleet (Revenue)

Scope 1 - Direct Emissions		Total CO₂e (t)	CO <sub>2</sub> (t)	CH₄(t)	N₂O (t)	HFC (t of CO₂e)	PFC (t of CO₂e)	NF₃(t)	SF <sub>6</sub> (t)
Mobile Combustion		501,963.36521	501,963.36417	0	0	0	0	0	0
1	Total	501,963.36521	501,963.36417	0	0	0	0	0	0

Biogenic - Direct Emissions	Total CO₂e (t)	CO <sub>2</sub> (t)	CH₄(t)	N₂O (t)	HFC (t of CO₂e)	PFC (t of CO₂e)	NF₃(t)	SF <sub>6</sub> (t)
Mobile Biomass Combustion	807.121997	807.121997	0	0	0	0	0	0
Tota	807.121997	807.121997	0	0	0	0	0	0