

Emissions Data



NYISO's Emissions Data page is designed to provide transparency into emissions outputs through estimated marginal and average zonal emissions rates data.

Locating NYISO's Emissions Data Page

NYISO Emissions Data page is located at <https://www.nyiso.com/emissions-data>

EMISSIONS DATA

Day-Ahead and Real-Time Implied Marginal Emission Rates (IMER)

The Implied Marginal Emission Rates (IMER) are estimated and available on a zonal level for the DAM and RTM.

Day-Ahead Implied Marginal Emission Rate		
Date	Download	Last Updated
December 13, 2024	csv pdf html	12/12/24 08:10 EST
December 12, 2024	csv pdf html	12/11/24 17:01 EST
December 11, 2024	csv pdf html	12/10/24 07:05 EST
December 10, 2024	csv pdf html	12/09/24 07:04 EST
December 9, 2024	csv pdf html	12/08/24 07:05 EST
December 8, 2024	csv pdf html	12/07/24 07:05 EST
December 7, 2024	csv pdf html	12/06/24 07:05 EST
December 6, 2024	csv pdf html	12/05/24 07:17 EST
December 5, 2024	csv pdf html	12/04/24 07:19 EST

Real-Time Implied Marginal Emission Rate		
Date	Download	Last Updated
December 12, 2024	csv pdf html	12/12/24 11:16 EST
December 11, 2024	csv pdf html	12/11/24 23:56 EST
December 10, 2024	csv pdf html	12/10/24 23:56 EST
December 9, 2024	csv pdf html	12/09/24 23:56 EST
December 8, 2024	csv pdf html	12/08/24 09:56 EST
December 7, 2024	csv pdf html	12/07/24 23:56 EST
December 6, 2024	csv pdf html	12/06/24 23:56 EST
December 5, 2024	csv pdf html	12/05/24 23:56 EST
December 4, 2024	csv pdf html	12/04/24 23:56 EST

Average Emission Rates (AER) Hourly NYCA and NYC Calculator

The AER calculator assists in determining NYCA-Wide and NYC AER by inputting emission intensity values for imports. Select NYCA or NYC from the drop-down menu determine the type of AER calculator to be utilized. Input fields are Emission Intensity tons CO₂ per MWh and Emission Intensity tons NO_x per MWh. Time range cannot exceed one day.

All fields are required. CO₂ and NO_x values should be entered by tons per MWh.

Select up to one day

Region * Date *

HQ - CO₂ * IESO - CO₂ * ISO-NE - CO₂ * PJM - CO₂ *

Implied Marginal Emission Rate (IMER)

Implied Marginal Emission Rate (IMER) is the change in emissions resulting from an increase in generation or consumption. Values are estimated on a zonal level for the Day Ahead Market (DAM) and Real Time (RT) as tons of CO₂ and NO_x per MWh of generation based on implied fuel.

Average Emission Rate (AER)

The Average Emission Rate (AER) is the average emissions resulting from all generation or consumption in the defined area. Values can be estimated for NYC only or NYCA-wide and will be the hourly average tons of CO₂ and NO_x per MWh of generation.

Implied Marginal Emission Rate (IMER)

Implied Marginal Emission Rate (IMER) is the change in emissions resulting from an increase in generation or consumption. Values are estimated on a zonal level for *Day Ahead Market (DAM)* and *Real Time (RT)* as tons of CO2 and NOx per MWh of generation based on implied fuel.

Day Ahead Implied Marginal Emission Rate (IMER)

Day Ahead Market (DAM) Report

Day-Ahead Implied Marginal Emission Rate		
Date	Download	Last Updated
December 3, 2024	csv pdf htm	12/02/24 07:17 EST
December 2, 2024	csv pdf htm	12/01/24 07:09 EST
December 1, 2024	csv pdf htm	11/30/24 07:04 EST
November 30, 2024	csv pdf htm	11/29/24 07:04 EST

Select desired date & download format

Results calculated for hour interval by zone

DAM Report Results

TIMESTAMP	VOM (\$/MWh)	Tons of Carbon per mmBtu	Tons of NOx per mmBtu	CONSTRAINT - A-West	Implied Heat Rate -HRI (mmBtu/MWh) - A-West	LIBMP - A-West (\$/MWh)	IMER CO2 - A-West (tons/MWh)	IMER-NOx - A-West (tons/MWh)	
1									
2	5/2/2024 23:00	\$4	0.059	0.000087	No Constraint Binding	6.71	20.12	0.4	0.35
3	5/2/2024 22:00	\$4	0.059	0.000087	No Constraint Binding	6.71	18.16	0.34	0.37
4	5/2/2024 21:00	\$4	0.059	0.000087	No Constraint Binding	6.71	16.94	0.45	0.44
5	5/2/2024 20:00	\$4	0.059	0.000087	No Constraint Binding	6.71	16.09	0.22	0.4
6	5/2/2024 19:00	\$4	0.059	0.000087	No Constraint Binding	6.71	16.81	0.47	0.34
7	5/2/2024 18:00	\$4	0.059	0.000087	No Constraint Binding	6.71	19.21	0.33	0.45
8	5/2/2024 17:00	\$4	0.059	0.000087	No Constraint Binding	6.71	23.83	0.35	0.22
9	5/2/2024 16:00	\$4	0.059	0.000087	No Constraint Binding	6.71	27.92	0.37	0.47
10	5/2/2024 15:00	\$4	0.059	0.000087	No Constraint Binding	6.71	24.78	0.44	0.33
11	5/2/2024 14:00	\$4	0.059	0.000087	No Constraint Binding	6.71	23.56	0.4	0.37
12	5/2/2024 13:00	\$4	0.059	0.000087	No Constraint Binding	6.71	22.01	0.34	0.44
13	5/2/2024 12:00	\$4	0.059	0.000087	No Constraint Binding	6.71	21.63	0.45	0.4
14	5/2/2024 11:00	\$4	0.059	0.000087	No Constraint Binding	6.71	20.88	0.22	0.34
15	5/2/2024 10:00	\$4	0.059	0.000087	No Constraint Binding	6.71	20.91	0.47	0.45
16	5/2/2024 9:00	\$4	0.059	0.000087	No Constraint Binding	6.71	21.52	0.33	0.22
17	5/2/2024 8:00	\$4	0.059	0.000087	No Constraint Binding	6.71	22.56	0.35	0.47
18	5/2/2024 7:00	\$4	0.059	0.000087	No Constraint Binding	6.71	24.19	0.37	0.33
19	5/2/2024 6:00	\$4	0.059	0.000087	No Constraint Binding	6.71	27.25	0.44	0.4
20	5/2/2024 5:00	\$4	0.059	0.000087	No Constraint Binding	6.71	29.88	0.4	0.34
21	5/2/2024 4:00	\$4	0.059	0.000087	No Constraint Binding	6.71	33.18	0.34	0.45
22	5/2/2024 3:00	\$4	0.059	0.000087	No Constraint Binding	6.71	35.03	0.45	0.22
23	5/2/2024 2:00	\$4	0.059	0.000087	No Constraint Binding	6.71	29.11	0.22	0.47
24	5/2/2024 1:00	\$4	0.059	0.000087	No Constraint Binding	6.71	24.75	0.47	0.33
25	5/2/2024 0:00	\$4	0.059	0.000087	No Constraint Binding	6.71	21.43	0.33	0.22

Real Time Implied Marginal Emission Rate (IMER)

Real Time (RT) Report

Real-Time Implied Marginal Emission Rate		
Date	Download	Last Updated
December 2, 2024	csv pdf htm	12/02/24 12:21 EST
December 1, 2024	csv pdf htm	12/01/24 23:56 EST
November 30, 2024	csv pdf htm	11/30/24 23:56 EST
November 29, 2024	csv pdf htm	11/29/24 23:56 EST

Select desired date & download format

Results calculated for ~ 5 min interval by zone

RT Report Results

TIMESTAMP	VOM (\$/MWh)	Tons of Carbon per mmBtu	Tons of NOx per mmBtu	CONSTRAINT - A-West	Implied Heat Rate -HRI (mmBtu/MWh) - A-West	LIBMP - A-West (\$/MWh)	IMER CO2 - A-West (tons/MWh)	IMER-NOx - A-West (tons/MWh)	
1									
2	5/2/2024 23:00	\$4	0.059	0.000087	No Constraint Binding	6.71	20.12	0.4	0.35
3	5/2/2024 22:55	\$4	0.059	0.000087	No Constraint Binding	6.71	18.16	0.34	0.37
4	5/2/2024 22:50	\$4	0.059	0.000087	No Constraint Binding	6.71	16.94	0.45	0.44
5	5/2/2024 22:45	\$4	0.059	0.000087	No Constraint Binding	6.71	16.09	0.22	0.4
6	5/2/2024 22:40	\$4	0.059	0.000087	No Constraint Binding	6.71	16.81	0.47	0.34
7	5/2/2024 22:35	\$4	0.059	0.000087	No Constraint Binding	6.71	19.21	0.33	0.45
8	5/3/2024 22:30	\$4	0.059	0.000087	No Constraint Binding	6.71	23.83	0.35	0.22
9	5/3/2024 22:25	\$4	0.059	0.000087	No Constraint Binding	6.71	27.92	0.37	0.47
10	5/3/2024 22:20	\$4	0.059	0.000087	No Constraint Binding	6.71	24.78	0.44	0.33
11	5/3/2024 22:15	\$4	0.059	0.000087	No Constraint Binding	6.71	23.56	0.4	0.37
12	5/3/2024 22:10	\$4	0.059	0.000087	No Constraint Binding	6.71	22.01	0.34	0.44
13	5/3/2024 22:05	\$4	0.059	0.000087	No Constraint Binding	6.71	21.63	0.45	0.4
14	5/3/2024 22:00	\$4	0.059	0.000087	No Constraint Binding	6.71	20.88	0.22	0.34
15	5/3/2024 21:55	\$4	0.059	0.000087	No Constraint Binding	6.71	20.91	0.47	0.45
16	5/3/2024 21:50	\$4	0.059	0.000087	No Constraint Binding	6.71	21.52	0.33	0.22
17	5/3/2024 21:45	\$4	0.059	0.000087	No Constraint Binding	6.71	22.56	0.35	0.47
18	5/3/2024 21:40	\$4	0.059	0.000087	No Constraint Binding	6.71	24.19	0.37	0.33
19	5/3/2024 21:35	\$4	0.059	0.000087	No Constraint Binding	6.71	27.25	0.44	0.4
20	5/3/2024 21:30	\$4	0.059	0.000087	No Constraint Binding	6.71	29.88	0.4	0.34
21	5/3/2024 21:25	\$4	0.059	0.000087	No Constraint Binding	6.71	33.18	0.34	0.45
22	5/3/2024 21:20	\$4	0.059	0.000087	No Constraint Binding	6.71	35.03	0.45	0.22
23	5/3/2024 21:15	\$4	0.059	0.000087	No Constraint Binding	6.71	29.11	0.22	0.47
24	5/3/2024 21:10	\$4	0.059	0.000087	No Constraint Binding	6.71	24.75	0.47	0.33
25	5/3/2024 21:05	\$4	0.059	0.000087	No Constraint Binding	6.71	21.43	0.33	0.22

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Average Emission Rate (AER)

Average Emission Rate (AER) is the average emissions resulting from all generation or consumption in the defined area. Values can be estimated for NYC only or NYCA-wide and will be the hourly average tons of CO2 and NOx per MWh of generation.

Required Report Selections

The screenshot shows a web form for generating an AER report. It includes a 'Region' dropdown menu, a 'Date' field, and input fields for CO2 and NOx emissions for four different regions: HQ, IESO, ISO-NE, and PJM. A 'Generate CSV' button is located at the bottom. Callout boxes highlight the required selections: 'Select Region: NYC or NYCA', 'Select Date: Results calculated at hour interval', 'Enter: CO2 and NOx Input Values', and 'Select: "Generate CSV"'.

Details on the calculation methodology and assumptions can be found within the *Disclaimer* link found on the *Emissions Data* page, or directly in the [Emissions Transparency presentation](#).

Generated Report Results

NYC Report Output

TIMESTAMP	AER - CO2 - NYC	AER - NOx - NYC
5/2/2024 23:00	0.47	0.36
5/2/2024 22:00	0.42	0.33
5/2/2024 21:00	0.36	0.41
5/2/2024 20:00	0.33	0.4
5/2/2024 19:00	0.41	0.47
5/2/2024 18:00	0.4	0.42
5/2/2024 17:00	0.39	0.41

NYCA Report Output

TIMESTAMP	AER - CO2 - NYCA	AER - NOx - NYCA
5/2/2024 23:00	0.47	0.36
5/2/2024 22:00	0.42	0.33
5/2/2024 21:00	0.36	0.41
5/2/2024 20:00	0.33	0.4
5/2/2024 19:00	0.41	0.47
5/2/2024 18:00	0.4	0.42

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