

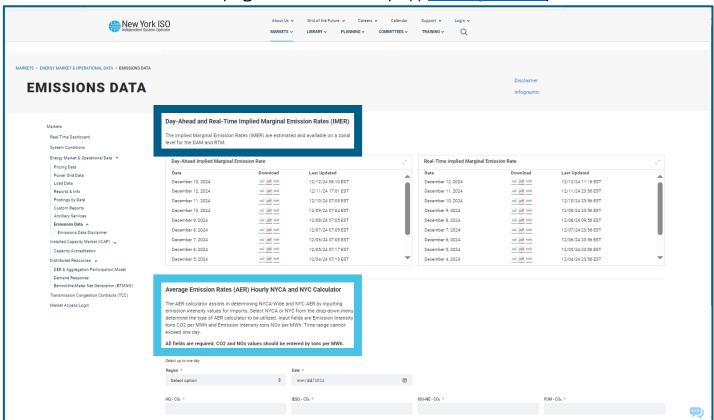
Emissions Data



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



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 NOx per MWh of generation based on implied fuel.

Average Emission Rate (AER)

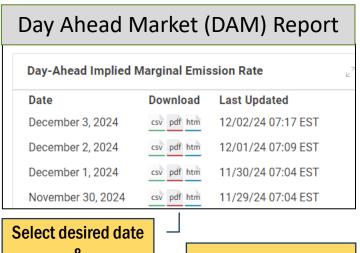
The Average Emission Rate (AER) is the average emissions resulting from all generation or consumption in the defined area. Values can be estimated for NYC only or NYCA-wide and will be the hourly average tons of CO2 and NOx per MWh of generation.



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.

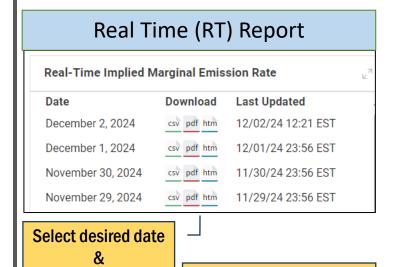
Day Ahead Implied Marginal Emission Rate (IMER)



Results calculated for hour interval by zone

	DAM Report Results								
1	TIMESTAMP	V OM (\$/MWh)	Tons of Carbon per mmBTU	Tons of NOx permmBTU	CONSTRAINT - A - West	Implied Heat Rate -IHRi (mmBTU/MWA) - A -West	LBMP - A -West (\$7MMh)	IMER -CO2 - A - West (tons/MWh)	IMER-NOx - A-West (tons/MWh)
2	5/2/2024 23:00	\$4	0.059	0.000087	No Constraint Binding	6.71		0.4	0.35
3	5/2/2024 22:00	\$4	0.059		No Constraint Binding	6.71	\$ 18.16	0.34	0.37
4	5/2/2024 21:00	\$4	0.059		No Constraint Binding	6.71	\$ 16.94	0.45	0.44
5	5/2/2024 20:00	\$4	0.059		No Constraint Binding	6.71	\$ 16.09	0.22	0.4
6	5/2/2024 19:00	\$4	0.059		No Constraint Binding	6.71	\$ 16.81	0.47	0.34
7	5/2/2024 18:00	\$4	0.059		No Constraint Binding	6.71	\$ 19.21	0.33	0.45
8	5/2/2024 17:00	\$4	0.059		No Constraint Binding	6.71	\$ 23.83	0.35	0.22
9	5/2/2024 16:00	\$4	0.059		No Constraint Binding	6.71	\$ 27.92	0.37	0.47
10	5/2/2024 15:00	\$4	0.059		No Constraint Bindin	6.71	\$ 24.78	0.44	0.33
11	5/2/2024 14:00	\$4	0.059	0.000087		6.71	\$ 23.56	0.4	0.37
12	5/2/2024 13:00	\$4	0.059	0.000087		6.71	\$ 22.01	0.34	0.44
13	5/2/2024 12:00	\$4	0.059		No Can traint Birding	6.71	\$ 21.63	0.45	0.4
14	5/2/2024 11:00	\$4	0.059		No Constraint Binding	6.71	\$ 20.88	0.22	0.34
15	5/2/2024 10:00	\$4	0.059	720000.0	No Constraint Binding	6.71	\$ 20.91	0.47	0.45
16	5/2/2024 9:00	\$4	0.059	0.000087		6.71	\$ 21.52	0.33	0.22
17	5/2/2024 8:00	\$4	0.059		No Constraint Binding	6.71	\$ 22.56	0.35	0.47
18	5/2/2024 7:00	\$4	0.059		No Constraint Binding	6.71	\$ 24.19	0.37	0.33
19	5/2/2024 6:00	\$4	0.059		No Constraint Binding	6.71	\$ 27.25	0.44	0.4
20	5/2/2024 5:00	\$4	0.059		No Constraint Binding	6.71	\$ 29.88	0.4	0.34
21	5/2/2024 4:00	\$4	0.059		No Constraint Binding	6.71	\$ 33.18	0.34	0.45
22	5/2/2024 3:00	\$4	0.059		No Constraint Binding	6.71	\$ 35.03	0.45	0.22
23	5/2/2024 2:00	\$4	0.059		No Constraint Binding	6.71	\$ 29.11	0.22	0.47
24	5/2/2024 1:00	\$4	0.059		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)



Results calculated for ~ 5 min interval by zone

	RT Report Results									
1	TIMESTAMP	VOM (\$/MWh)	Tons of Carbon per mmBTU	Tons of NOx per mmBTU	CONSTRAINT - A -Wost	Implied Heat Rate - IHRi (mmBTU/MMth) - A - West		LBMP - A -West (\$/MWh)	IMER -CO2 - A - West (tons/MWh)	IMER-NOx - A-West (tons/MWh)
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		No Constraint Binding		6.71	\$ 16.94	0.45	0.44
5	5/2/2024 22:45	\$4	0.059		No Constraint Binding		6.71	\$ 16.09	0.22	0.4
6	5/2/2024 22:40	\$4	0.059		No Constraint Binding		6.71	\$ 16.81	0.47	0.34
7	5/2/2024 22:35	\$4	0.059		No Constraint Binding		6.71	\$ 19.21	0.33	0.45
8	5/3/2024 22:30	\$4	0.059		No Constraint Binding		6.71	\$ 23.83	0.35	0.22
9	5/3/2024 22:25	\$4	0.059		No Constraint Binding		6.71	\$ 27.92	0.37	0.47
10	5/3/2024 22:20	\$4	0.059		No Constraint Binding	IP)	6.71	\$ 24.78	0.44	0.33
11	5/3/2024 22:15	\$4	0.059	0.000087	No Constraint Birdir a	19/	6.71	\$ 23.56	0.4	0.37
12	5/3/2024 22:10	\$4	0.059		No Constraint Binding		6.71	\$ 22.01	0.34	0.44
13	5/3/2024 22:05	\$4	0.059		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		\$4	0.059		No Constraint Binding		6.71	\$ 20.91	0.47	0.45
16		\$4	0.059		No Constraint Binding		6.71	\$ 21.52	0.33	0.22
17		\$4	0.059		No Constraint Binding		6.71	\$ 22.56	0.35	0.47
18		\$4	0.059		No Constraint Binding		6.71	\$ 24.19	0.37	0.33
		\$4	0.059		No Constraint Binding		6.71	\$ 27.25	0.44	0.4
20		\$4 \$4	0.059		No Constraint Binding		6.71	\$ 29.88	0.4	0.34
21		\$4 \$4			No Constraint Binding		6.71	\$ 33.18	0.34	0.45
22		\$4 \$4	0.059		No Constraint Binding		6.71	\$ 35.03	0.45	0.22
23		\$4 \$4	0.059		No Constraint Binding No Constraint Binding		6.71	\$ 29.11 \$ 24.75	0.22	0.47
24		\$4 \$4	0.059						0.47	0.33
25		54	0.059	0.000087	No Constraint Binding		6.71	\$ 21.43	0.33	0.22

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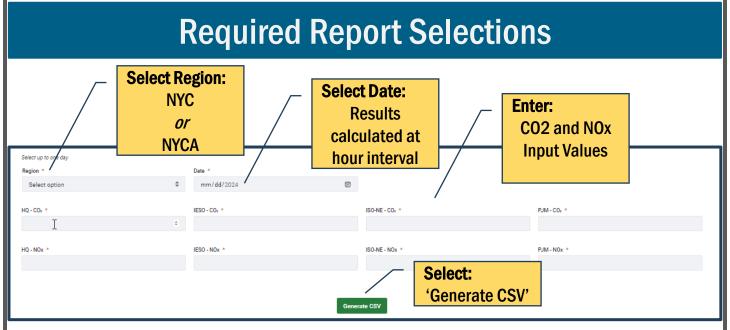
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Average Emission Rate (AER)

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.



Details on the calculation methodology and assumptions can be found within the *Disclaimer* link found on the *Emissions Data* page, or directly in the <u>Emissions Transparency presentation</u>.

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	ple 0.86	0.41				
5/2/2024 2000	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	ple 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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