

Monthly Report

A Report by the New York Independent System Operator

May 2023



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May 2023 Report

Operations & Reliability Department New York Independent System Operator



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May 2023 Operations Performance Highlights

Monthly Peak Load	Monthly Minimum Load	Summer 2023 Peak	All-time Summer Peak
05/31/2023 HB 18	05/21/2023 HB 04	05/31/2023 HB 18	07/19/2013 HB 16
19,777 MW	11,886 MW	19,777 MW	33,956 MW

- 0.0 hours of Thunderstorm Alerts were declared
- 0.0 hours of NERC TLR level 3 curtailment
- Princetown-New Scotland 345kV (#361) and Princetown-New Scotland 345kV (#362) transmission facilities associated with AC Transmission Public Policy Segment A were placed in-service on 05/02/2023.
- Knickerbocker-Pleasant Valley 345kV (#Y57) transmission facility associated with AC Transmission Public Policy Segment B was placed in-service on 05/06/2023.
- Rainey-Corona 345/138kV (#36188) PAR controlled local transmission upgrade by Con Edison was placed in-service on 05/01/2023.

Installed Wind, Solar and Energy Storage Resource Nameplate Values:

Land-Based Wind	Behind-the-Meter	Front-of-the-Meter	Energy Storage
	Solar	Solar	Resource (ESR)
2,521 MW	4,606 MW	154 MW	40 MW

Estimated production cost savings associated with the Broader Regional Market initiatives:

	Current Month	Year-to-Date
	Value (\$M)	Value (\$M)
NY Savings from PJM-NY Congestion Coordination	\$0.88	\$13.65
NY Savings from PJM-NY Coordinated Transaction Scheduling	\$0.33	(\$0.12)
NY Savings from NE-NY Coordinated Transaction Scheduling	(\$0.29)	(\$1.11)
Total NY Savings	\$0.92	\$12.42
Regional Savings from PJM-NY Coordinated Transaction Scheduling	\$1.25	\$2.33
Regional Savings from NE-NY Coordinated Transaction Scheduling	\$0.04	\$0.42
Total Regional Savings	\$1.29	\$2.75

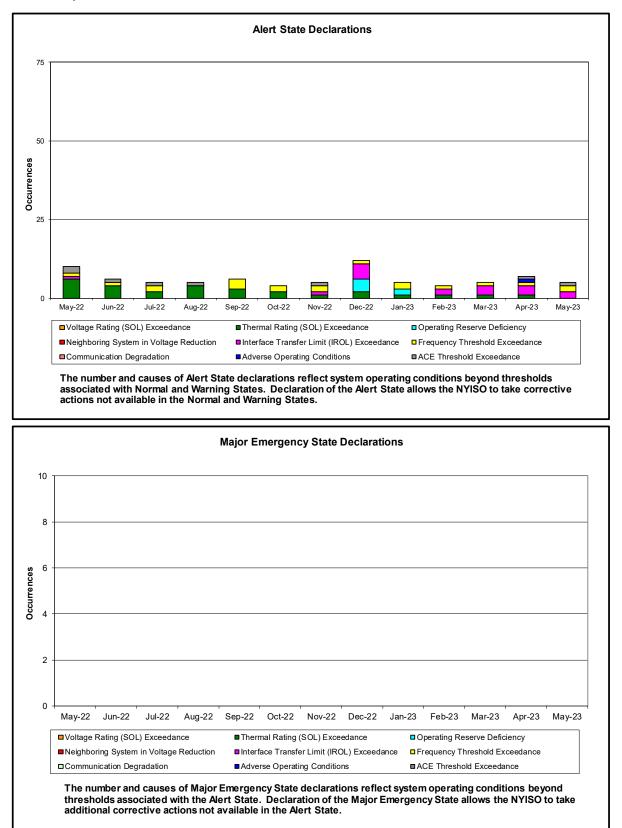
- Statewide uplift cost monthly average was (\$0.20)/MWh.
- The following table identifies the Monthly ICAP spot market prices and the price delta.

Spot Auction Price Results	NYCA	Lower Hudson Valley Zones	New York City Zone	Long Island Zone
June 2023 Spot Price	\$5.70	\$5.70	\$18.58	\$5.70
May 2023 Spot Price	\$5.70	\$5.70	\$18.58	\$5.70
Delta	\$0.00	\$0.00	\$0.00	\$0.00

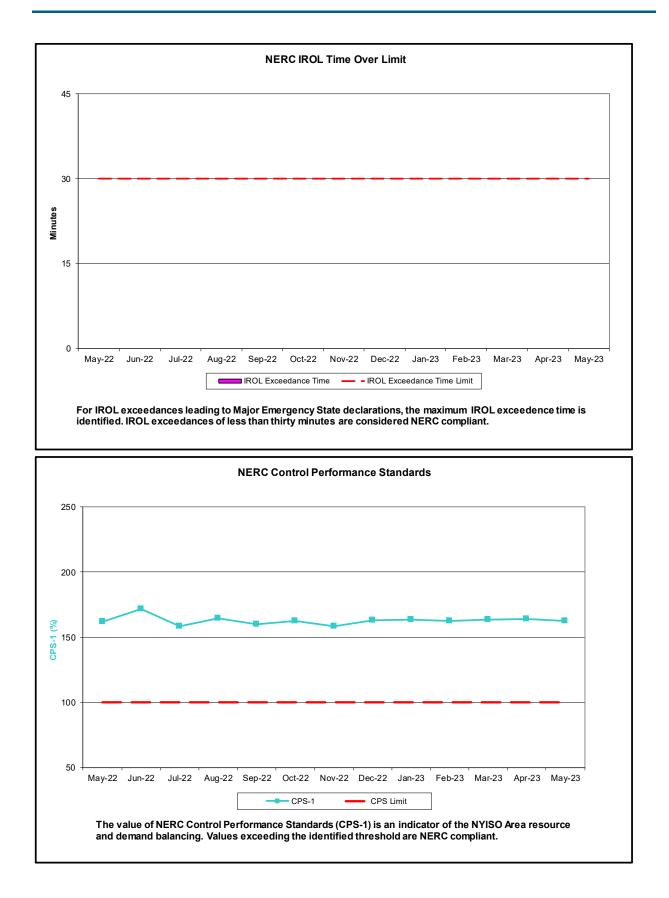
• No changes in ICAP market to cause variation in clearing price between May 2023 and June 2023.



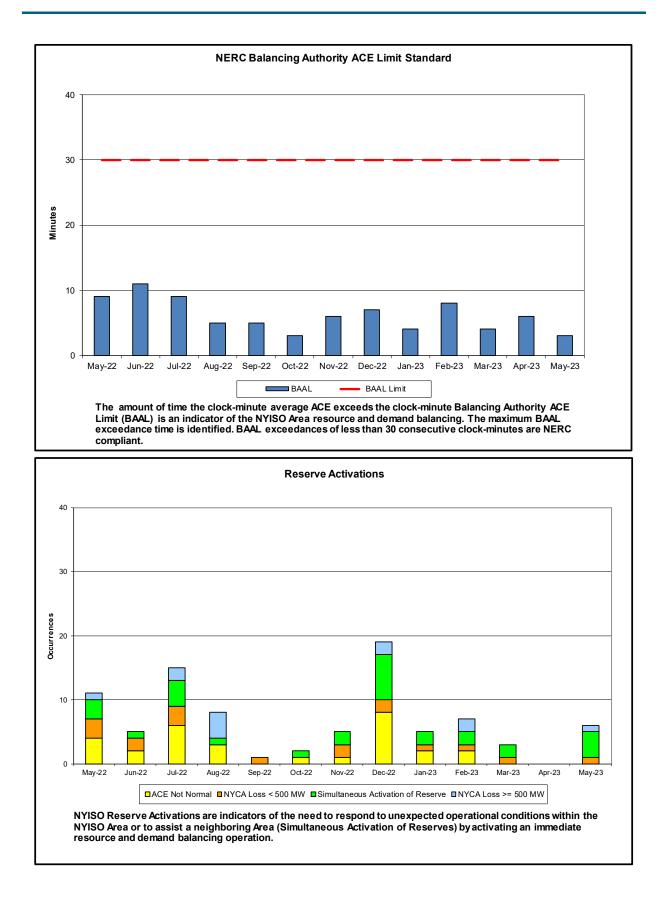
Reliability Performance Metrics



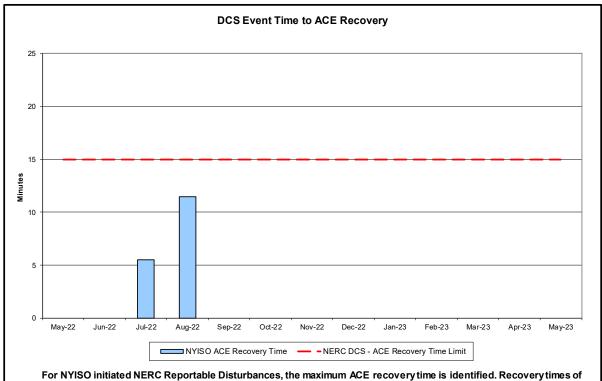




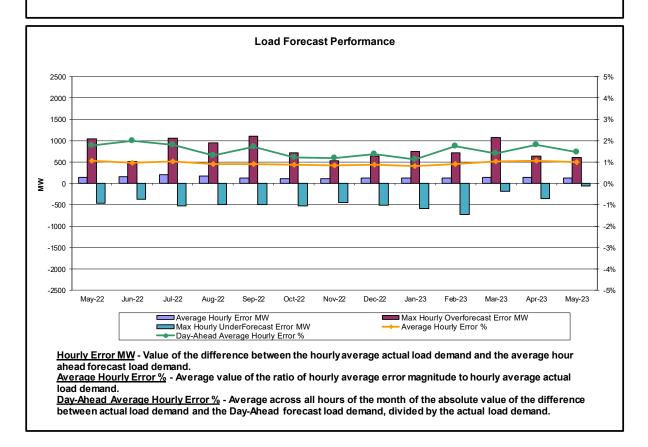




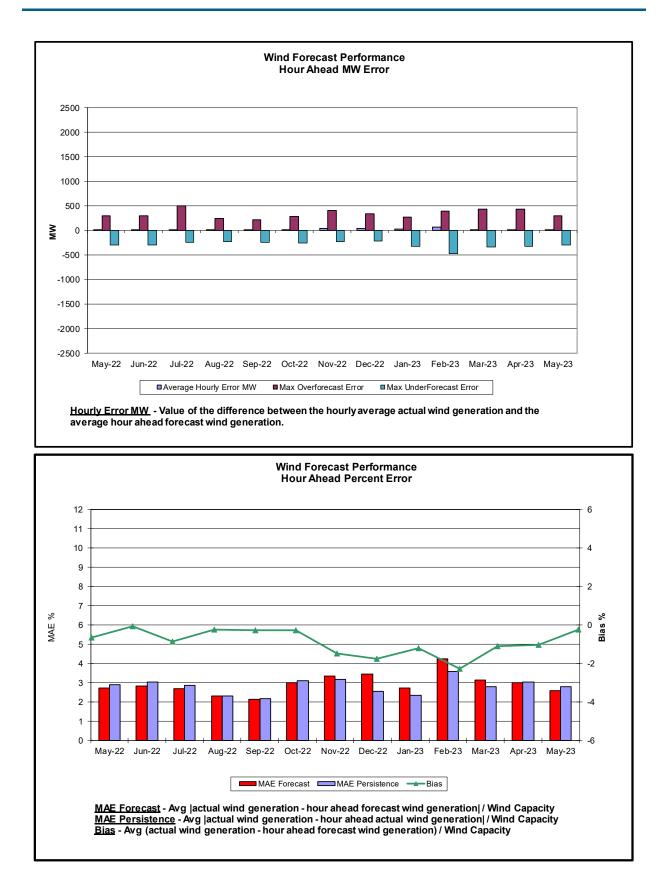




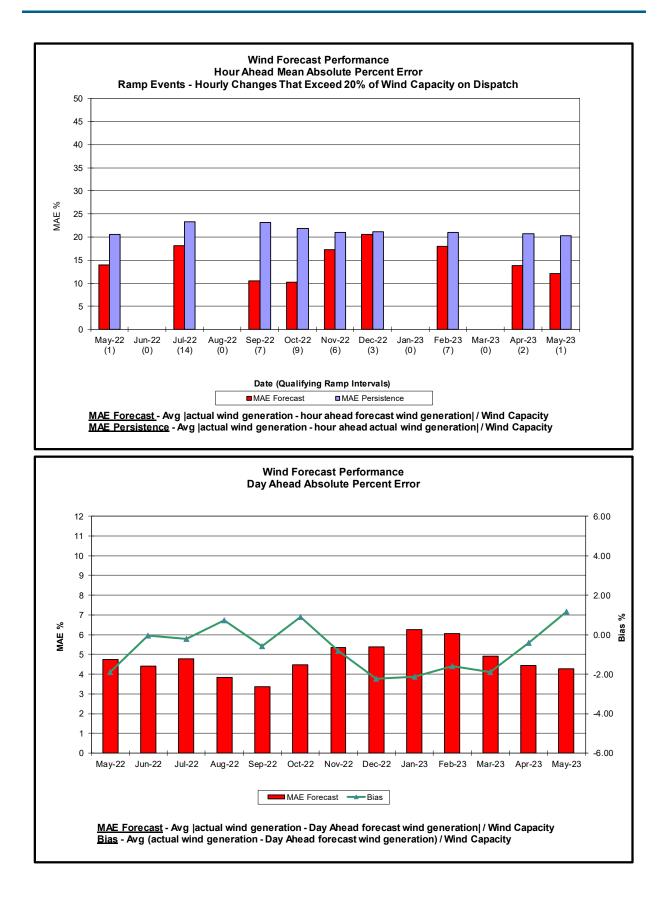
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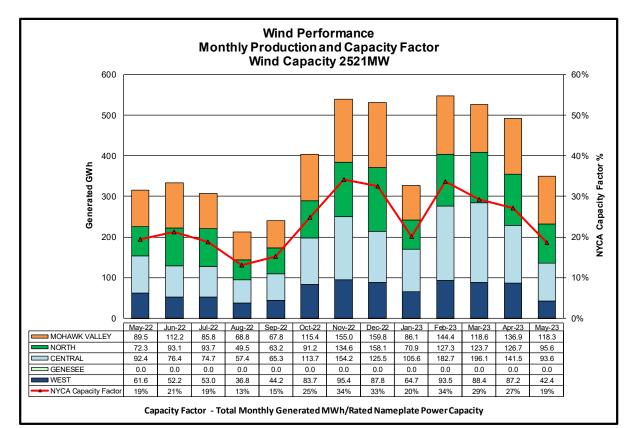
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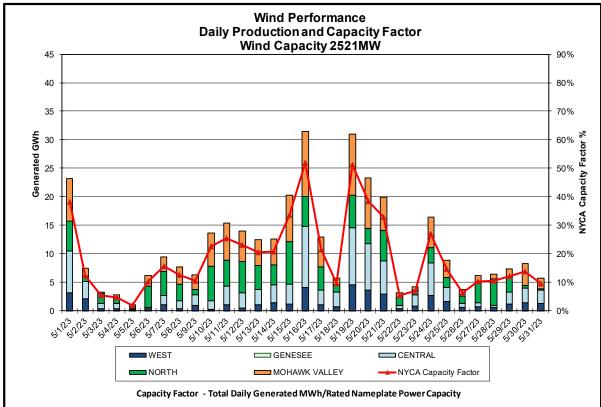


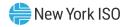


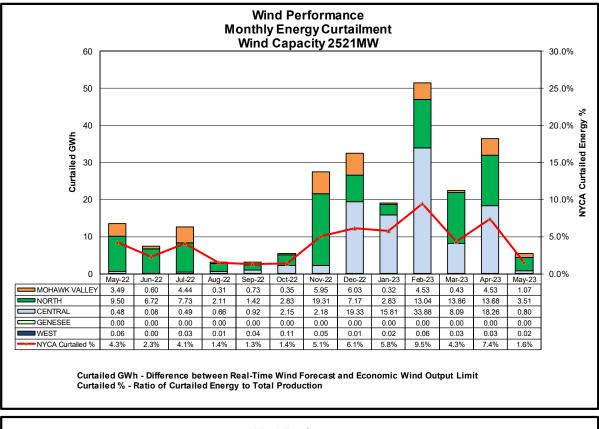


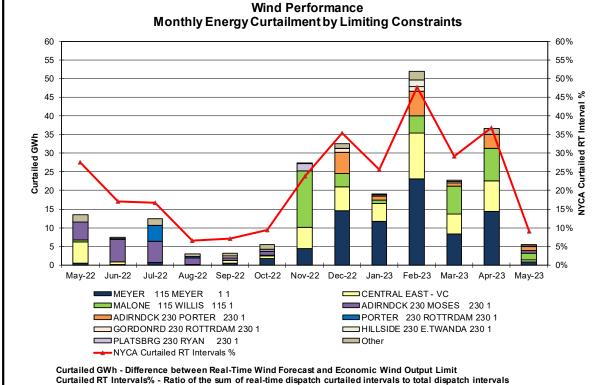


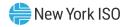


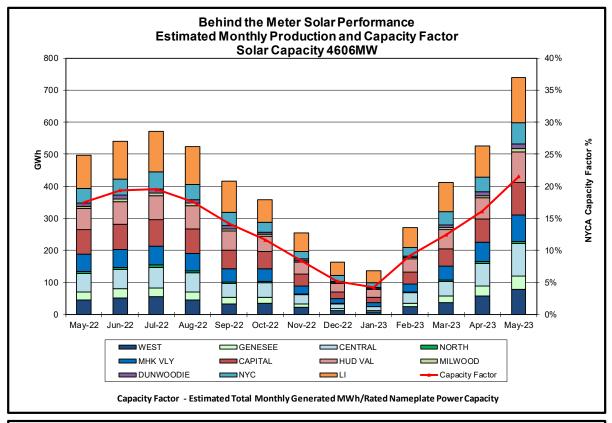


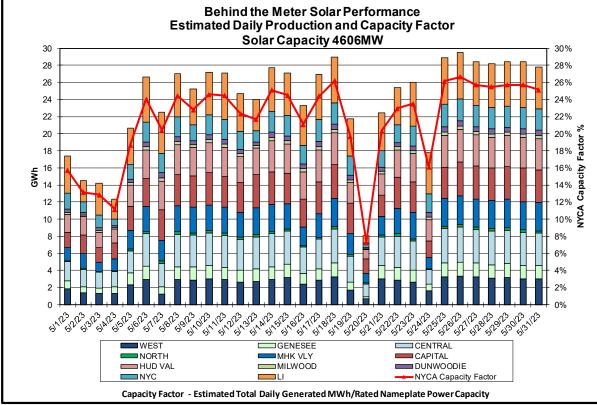








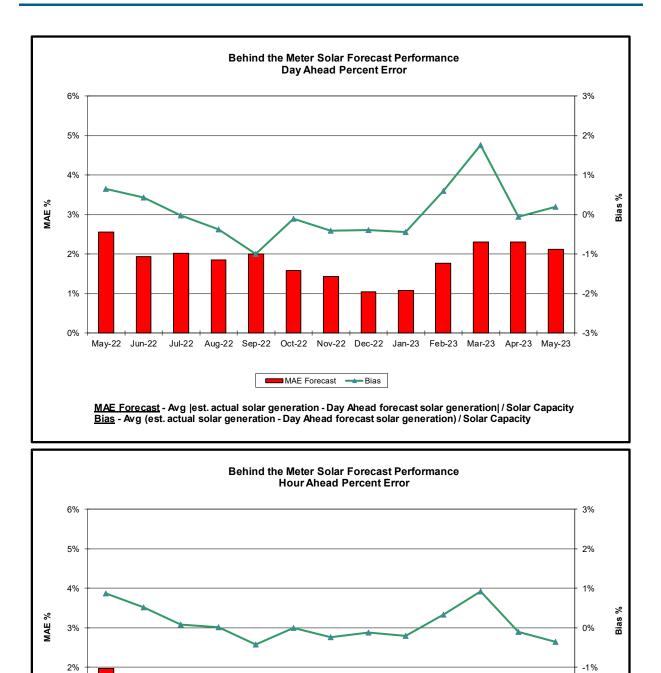


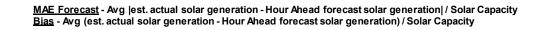




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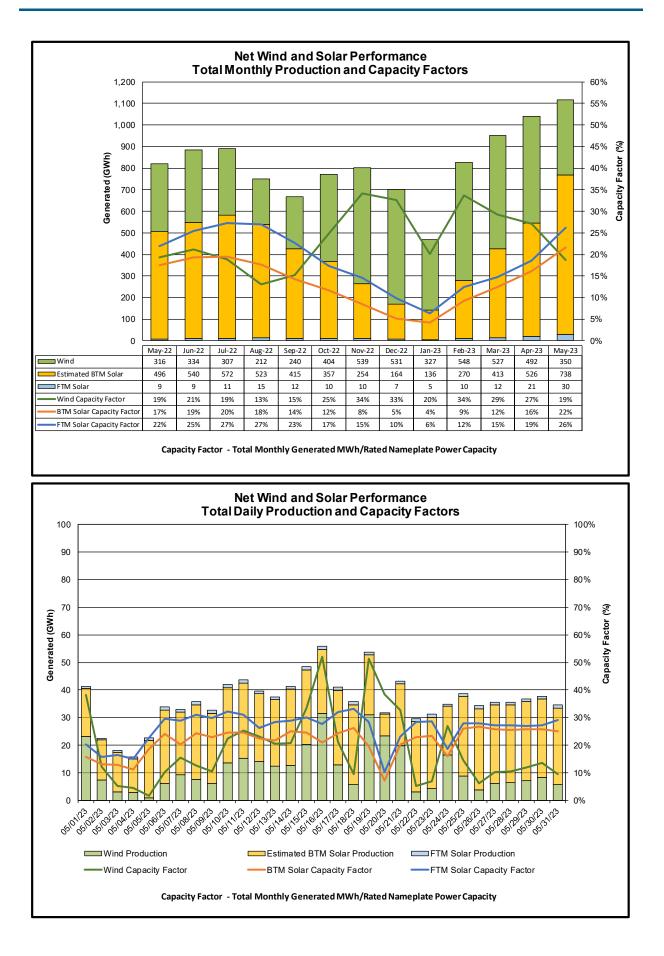
MAE Forecast 🛁 Bias

May-22 Jun-22 Jul-22 Aug-22 Sep-22 Oct-22 Nov-22 Dec-22 Jan-23 Feb-23 Mar-23 Apr-23 May-23

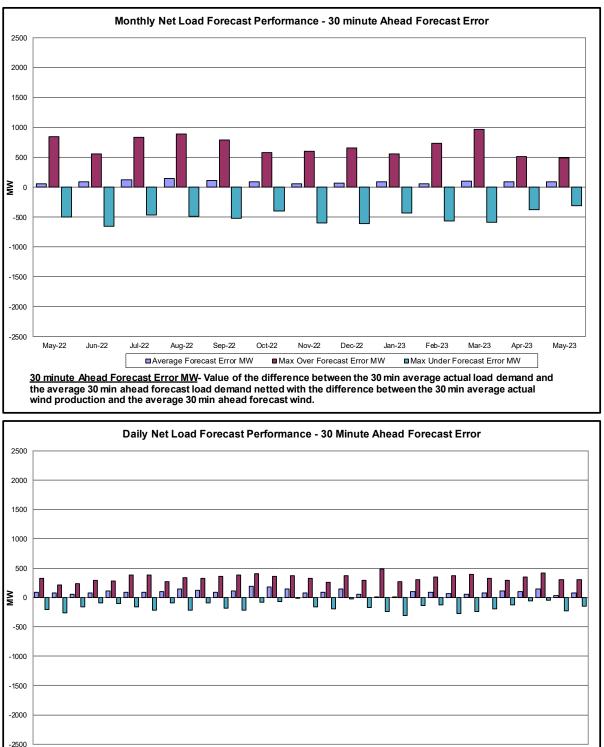
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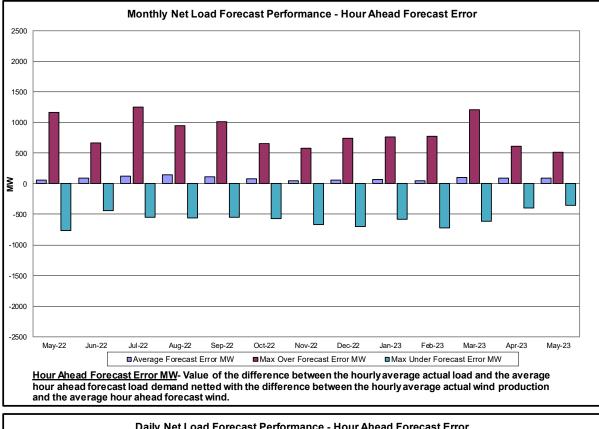


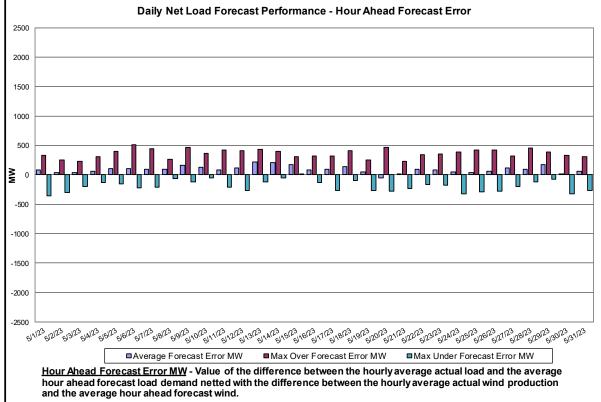




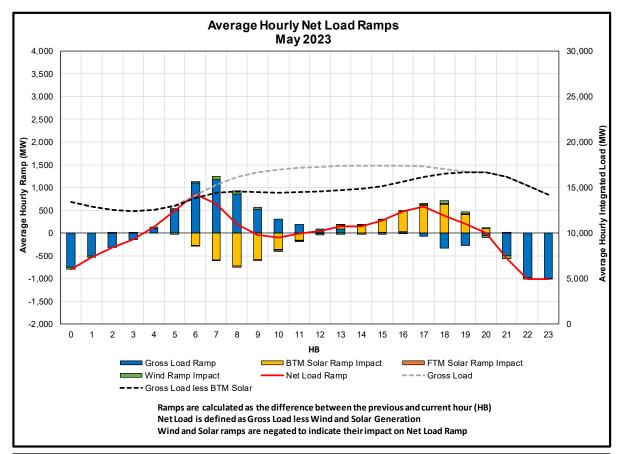


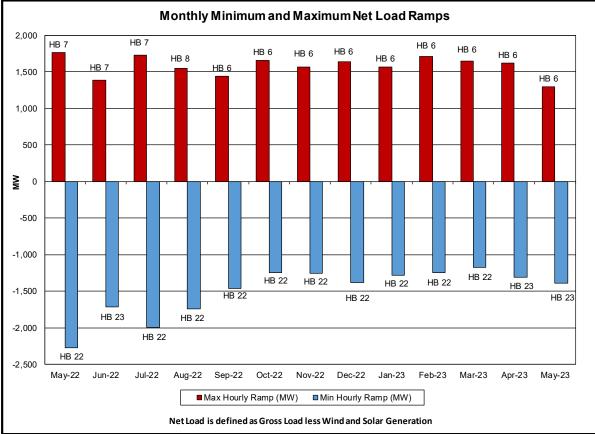




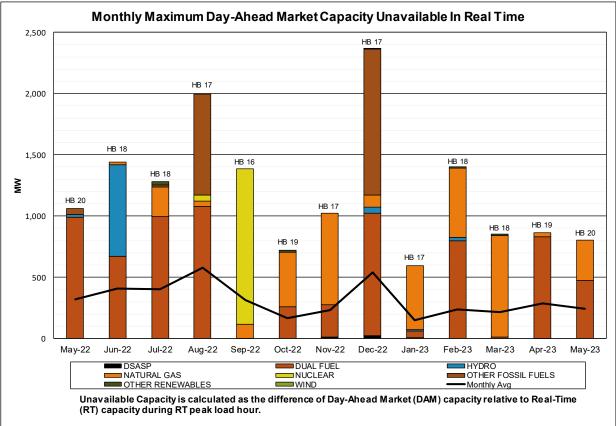


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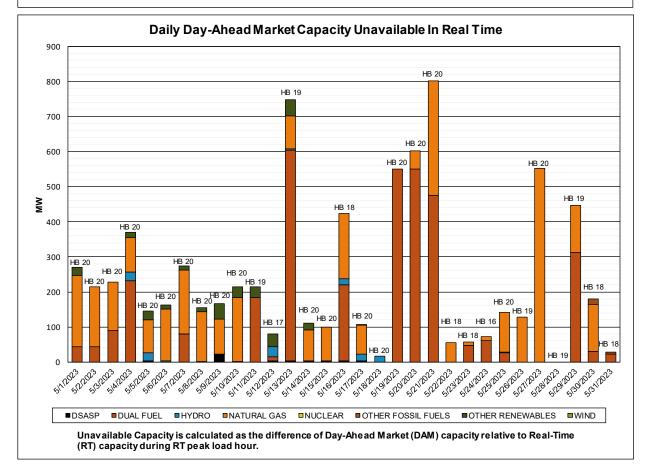




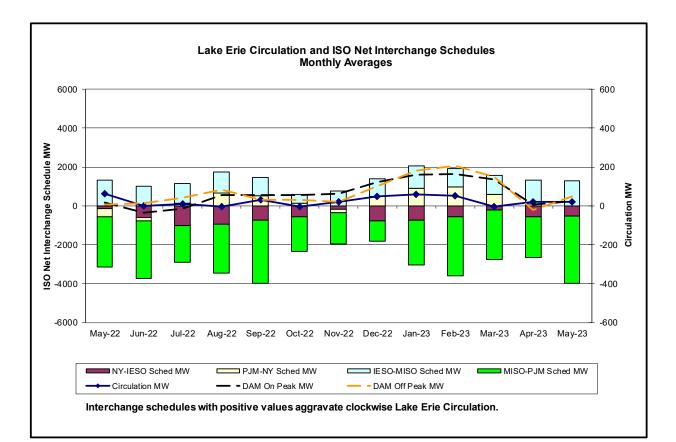


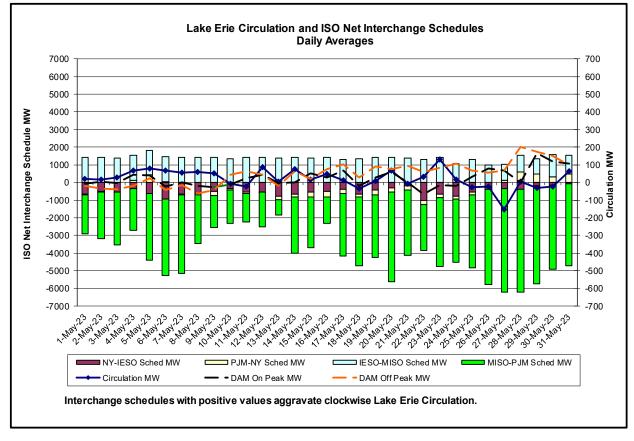


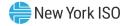
The Monthly Maximum is the day with the largest observed deficit during RT peak load hour.

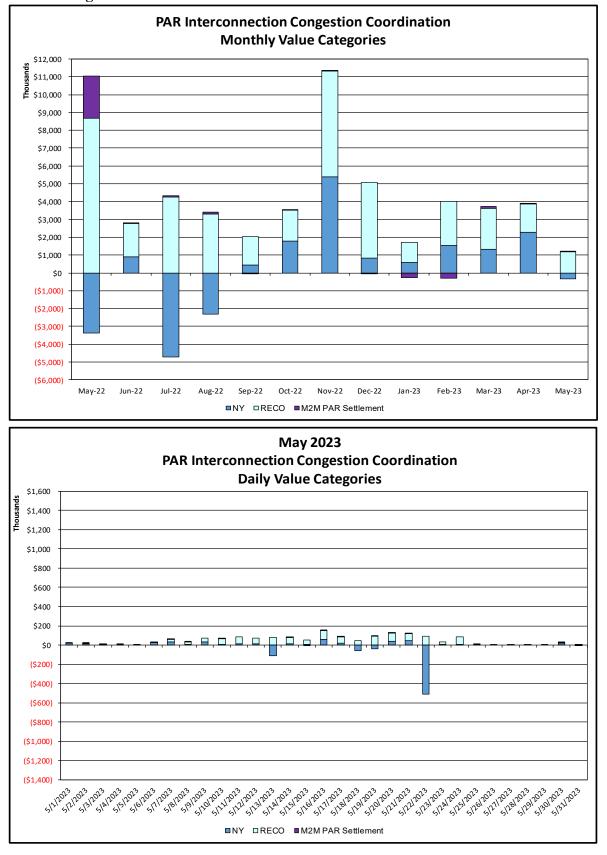




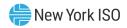






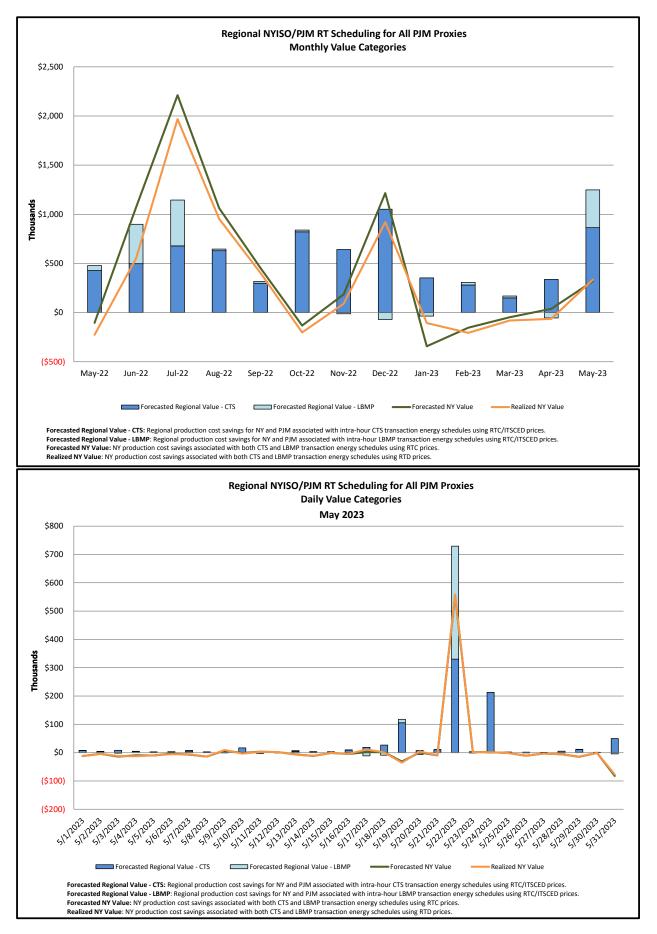


Broader Regional Market Performance Metrics

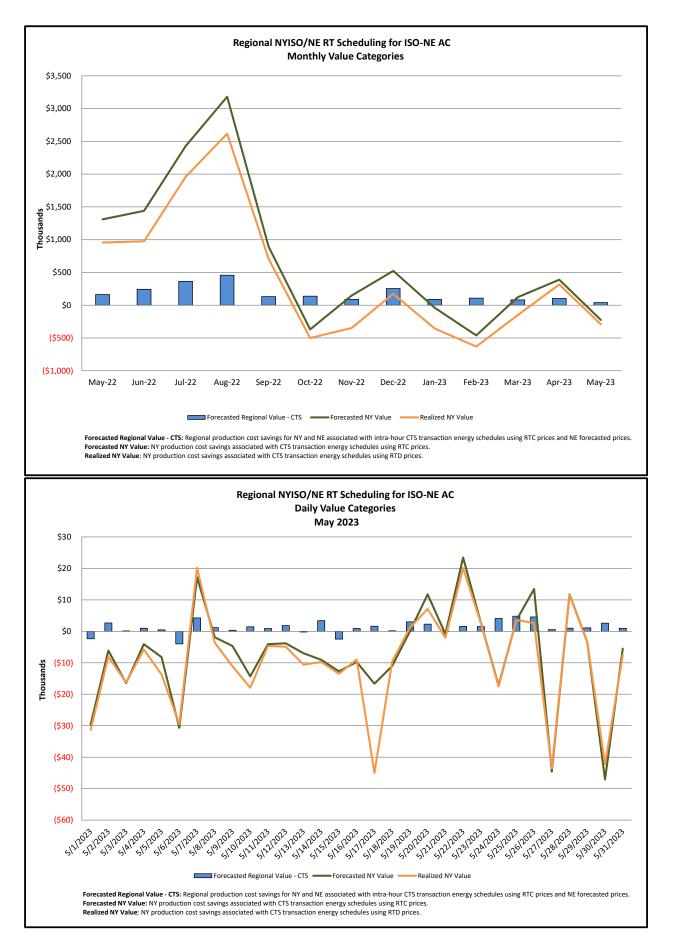


PAR Interconnection Congestion Coordination				
<u>Category</u> NY	<i>Description</i> Represents the value NY realizes from Market-to-Market PAR Coordination when experiencing congestion. This is the estimated savings to NY for additional deliveries into NY			
RECO	Represents the value of PJM's obligation to deliver 80% of service to RECO load over Ramapo 5018. This is the estimated reduction in NYCA congestion due to the PJM delivery of RECO over Ramapo 5018.			
M2M PAR Settlement	Market-to-Market PAR Coordination settlement on coordinated flowgates. Through April 2017 this value was included in the NY and RECO categories. The positive sign convention indicates settlement to NY while the negative indicates settlement to PJM.			



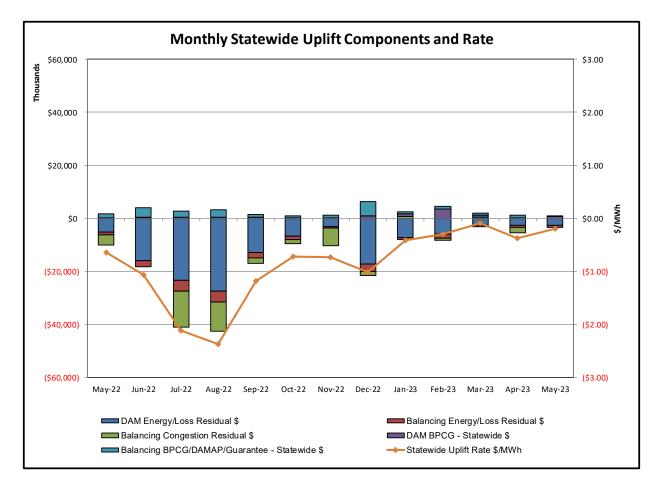




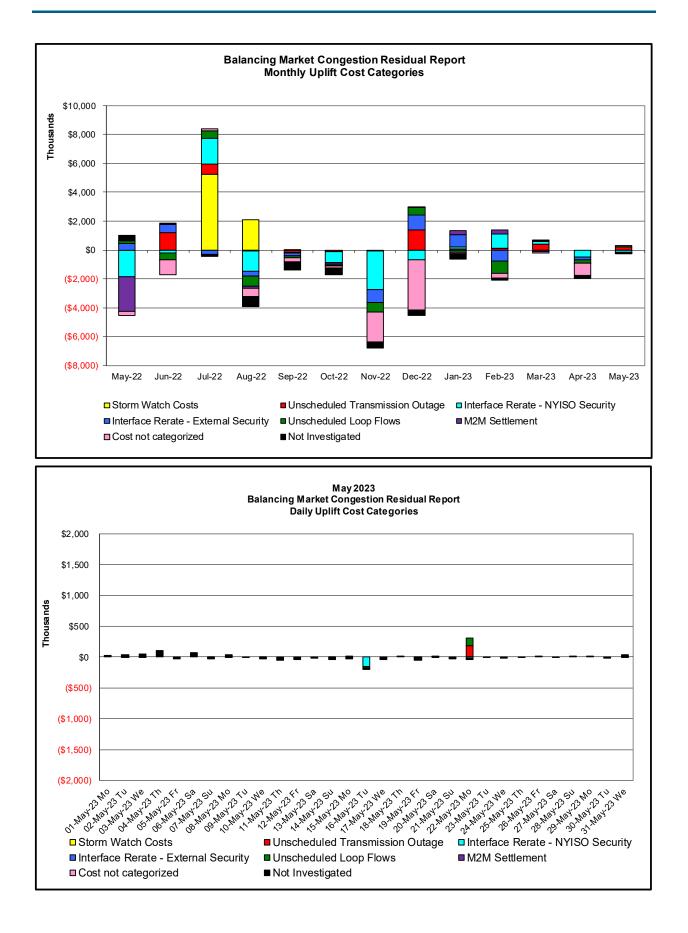




Market Performance Metrics





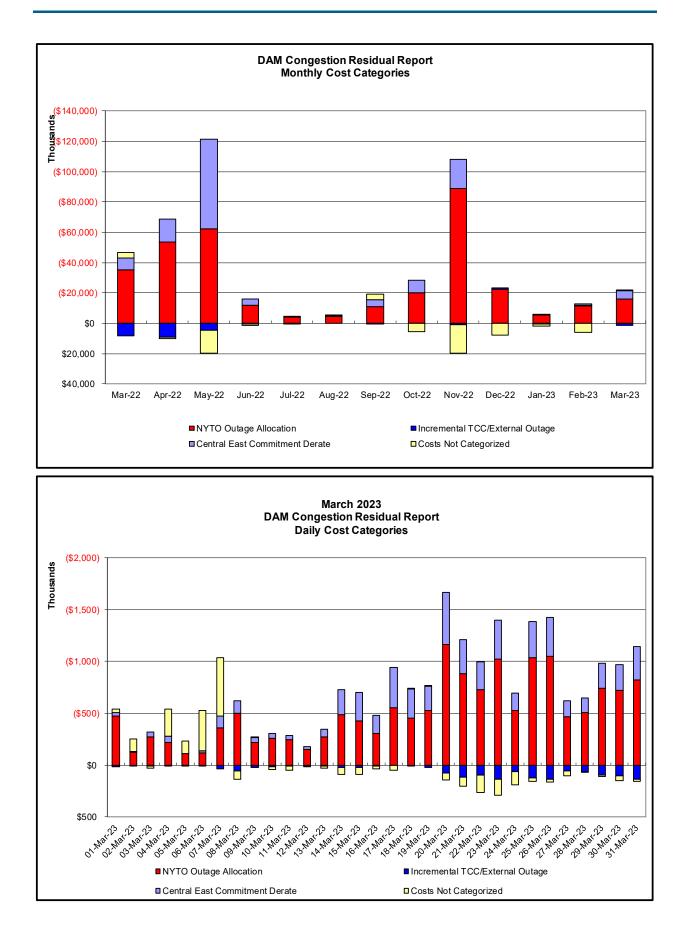




Day's investigated in May: 16,22		22	
Event	Date (yyyymmdd)	Hours	Description
	5/16/2023		NYCA DNI Ramp Limit
	5/16/2023	0-4,6-8,10-16,19,20,23	Uprate Central East
	5/16/2023	11-14	Uprate Dunwoodie-Shore Rd 345kV (#Y50) I/o NEPTUNE HVDC TIE LINE
	5/16/2023	10,23	NE_AC-NY DNI Ramp Limit
	5/16/2023 8,10,12,19		Lake Erie Circulation, DAM-RTM exceeds +/-125MW; Central East
	5/22/2023	16-18	Forced Outage of Homer City-Mainsburg 345kV (#47)
	5/22/2023	10,11	NYCA DNI Ramp Limit
	5/22/2023 13		Uprate East 179th StHellgate 138kV (#15055)
	5/22/2023	13	Uprate Elwood-Pulaski 69kV (#670) I/o TWR:HOLTSVLLE 881 & 882
	5/22/2023	11	PJM_AC-NY Scheduling Limit
	5/22/2023	16	Lake Erie Circulation, DAM-RTM exceeds +/-125MW; Central East

Real-Time Balancing Market Congestion Residual (Uplift Cost) Categories					
<u>Category</u> Storm Watch	<u>Cost Assignment</u> Zone J	<u>Events Types</u> Thunderstorm Alert (TSA)	<u>Event Examples</u> TSA Activations		
Transmission Outage Mismatch	Market-wide	Changes in DAM to RTM transfers related to transmission outage mismatch	Forced Line Outage, Unit AVR Outages Early Line Return from Outage		
Interface/Facility Rerate - NYISO Security	Market-wide	Changes in DAM to RTM transfers not related to transmission outage	Interface/Facility Rerates due to RTM voltages		
Interface Rerate - External Security	Market-wide	Changes in DAM to RTM transfers related to External Control Area Security Events	TLR Events, External Transaction Curtailments		
Unscheduled Loop Flows	Market-wide	Changes in DAM to RTM unscheduled loop flows impacting NYISO Interface transmission constraints	DAM to RTM Lake Erie Loop Flows exceeding +/- 125 MW		
M2M Settlement	Market-wide	Settlement result inclusive of coordinated redispatch and Ramapo flowgates			
Monthly Balancing Market Congestion Report Assumptions/Notes					
 Storm Watch Costs are identified as daily total uplift costs Days with a value of BMCR less M2M Settlement of \$100K/HR, shortfall of \$200K/Day or more, or surplus of \$100K/Day or more are investigated. Uplift costs associated with multiple event types are apportioned equally by hour 					



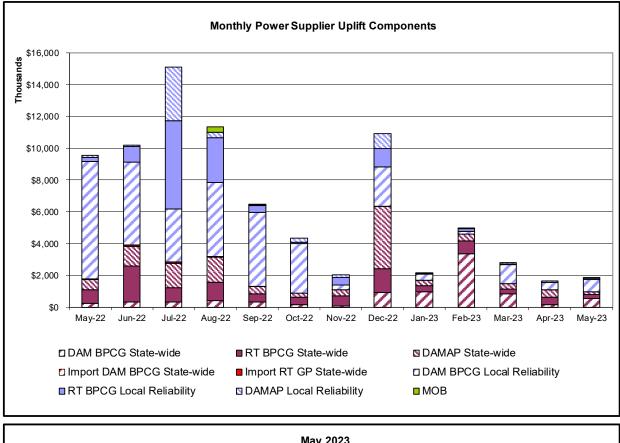


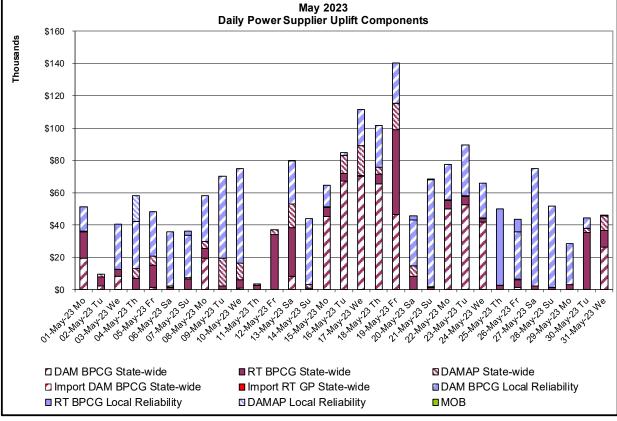


Day-Ahead Market Congestion Residual Categories

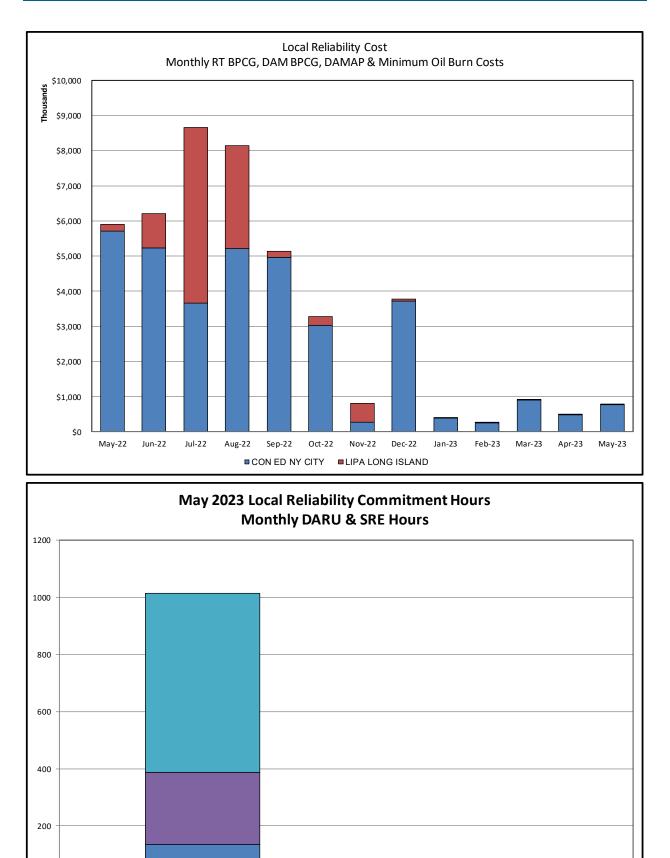
<u>Category</u> NYTO Outage Allocation	<u>Cost Assignment</u> Responsible TO	<u>Events Types</u> Direct allocation to NYTO's responsible for transmission equipment status change.	Event Examples DAM scheduled outage for equipment modeled in- service for the TCC Auction.
Incremental TCC/External Outage Impacts	All TO by Monthly Allocation Factor	Allocation associated with transmission equipment status change caused by change in status of external equipment or change in status of equipment associated with Incremental TCC.	Tie line required out-of- service by TO of neighboring control area.
Central East Commitment Derate	All TO by Monthly Allocation Factor	Reductions in the DAM Central East_VC limit as compared to the TCC Auction limit, which are not associated with transmission line outages.	



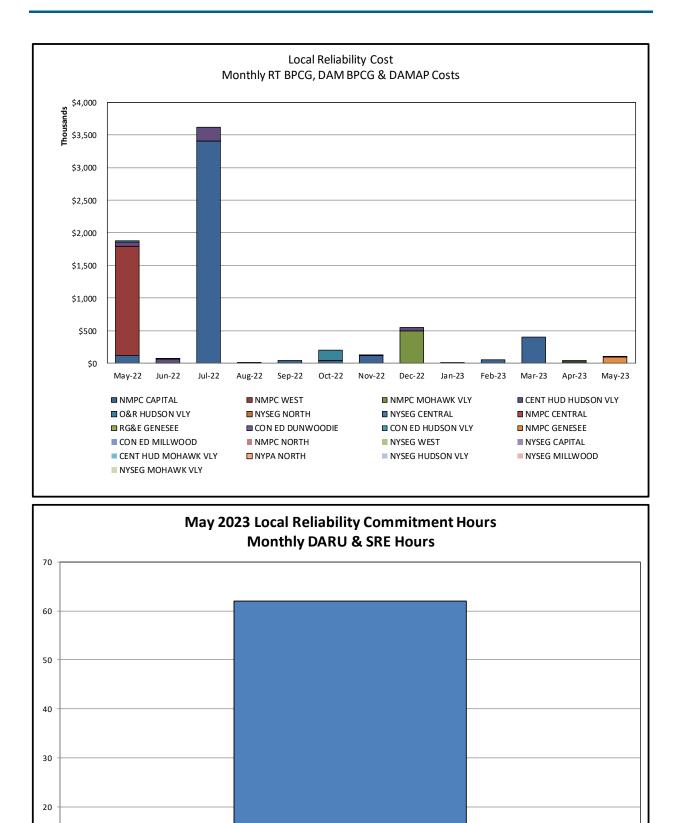






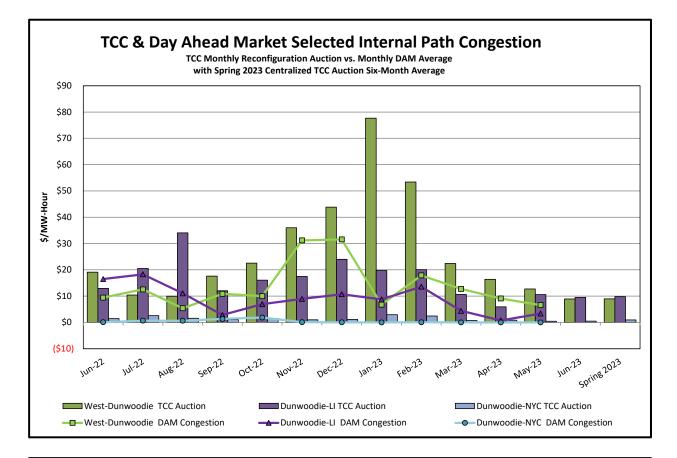


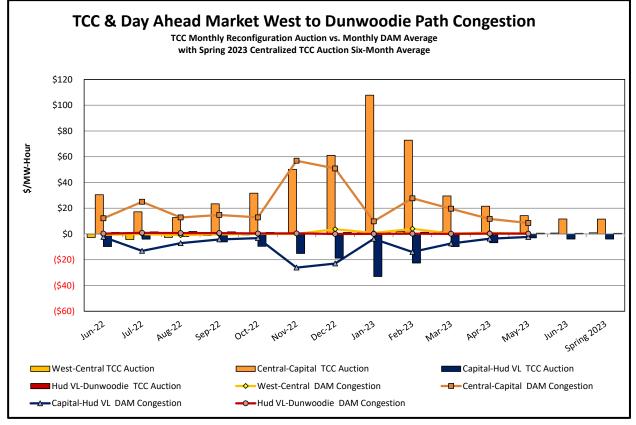




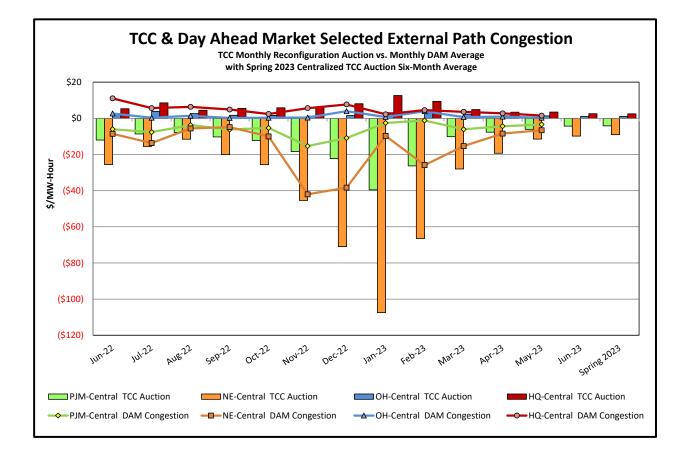
NMPC GENESEE

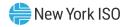


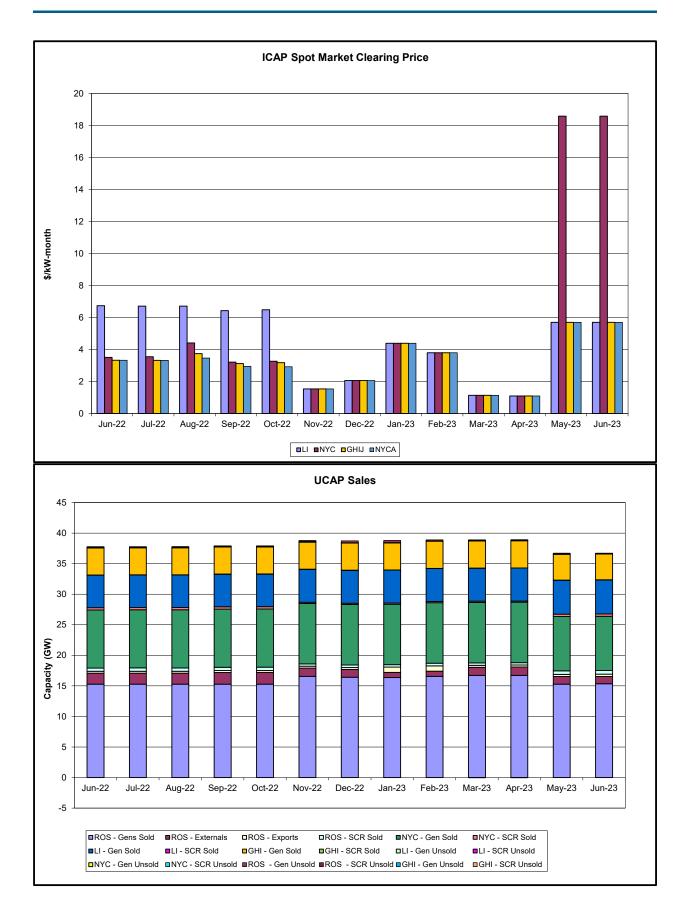






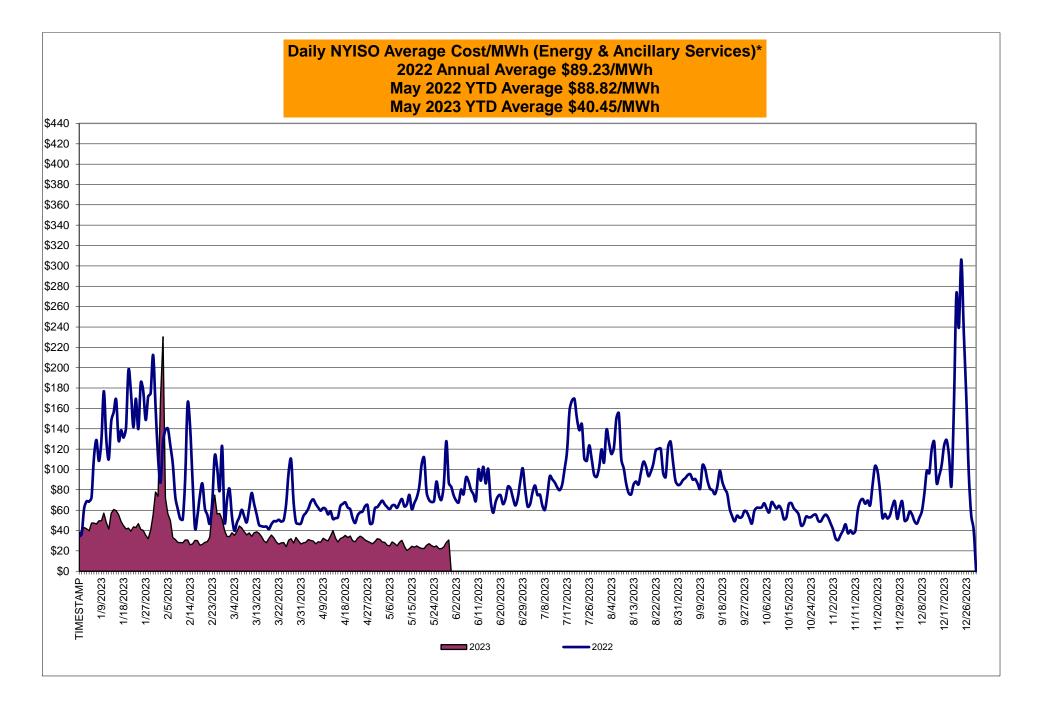






Market Performance Highlights May 2023

- LBMP for May is \$23.13/MWh; lower than \$28.07/MWh in April 2023 and \$70.60/MWh in May 2022.
 - Day Ahead Load Weighted LBMPs and Real Time Load Weighted LBMPs are lower compared to April.
- May 2023 average year-to-date monthly cost of \$40.45/MWh is a 54% decrease from \$88.82/MWh in May 2022.
- Average daily sendout is 350 GWh/day in May; higher than 349 GWh/day in April 2023 and 372 GWh/day in May 2022.
- Natural gas prices and distillate prices are lower compared to the previous month.
 - Natural Gas (Transco Z6 NY) was \$1.43/MMBtu, down from \$1.73/MMBtu in April.
 - Natural gas prices (Transco Z6 NY) are down 417% year-over-year.
 - Jet Kerosene Gulf Coast was \$16.11/MMBtu, down from \$17.72/MMBtu in April.
 - Ultra Low Sulfur No.2 Diesel NY Harbor was \$16.78/MMBtu, down from \$18.54/MMBtu in April.
 - Distillate prices are down 96.4% year-over-year
- Uplift per MWh is higher compared to the previous month.
 - Uplift (not including NYISO cost of operations) is (\$0.13)/MWh; higher than (\$0.38)/MWh in April.
 - Local Reliability Share is \$0.07/MWh, higher than \$0.04/MWh in April.
 - Statewide Share is (\$0.20)/MWh, higher than (\$0.38)/MWh in April.
 - TSA \$ per NYC MWh is \$0.00/MWh.
 - Total uplift costs (Schedule 1 components including NYISO Cost of Operations) are higher than April.

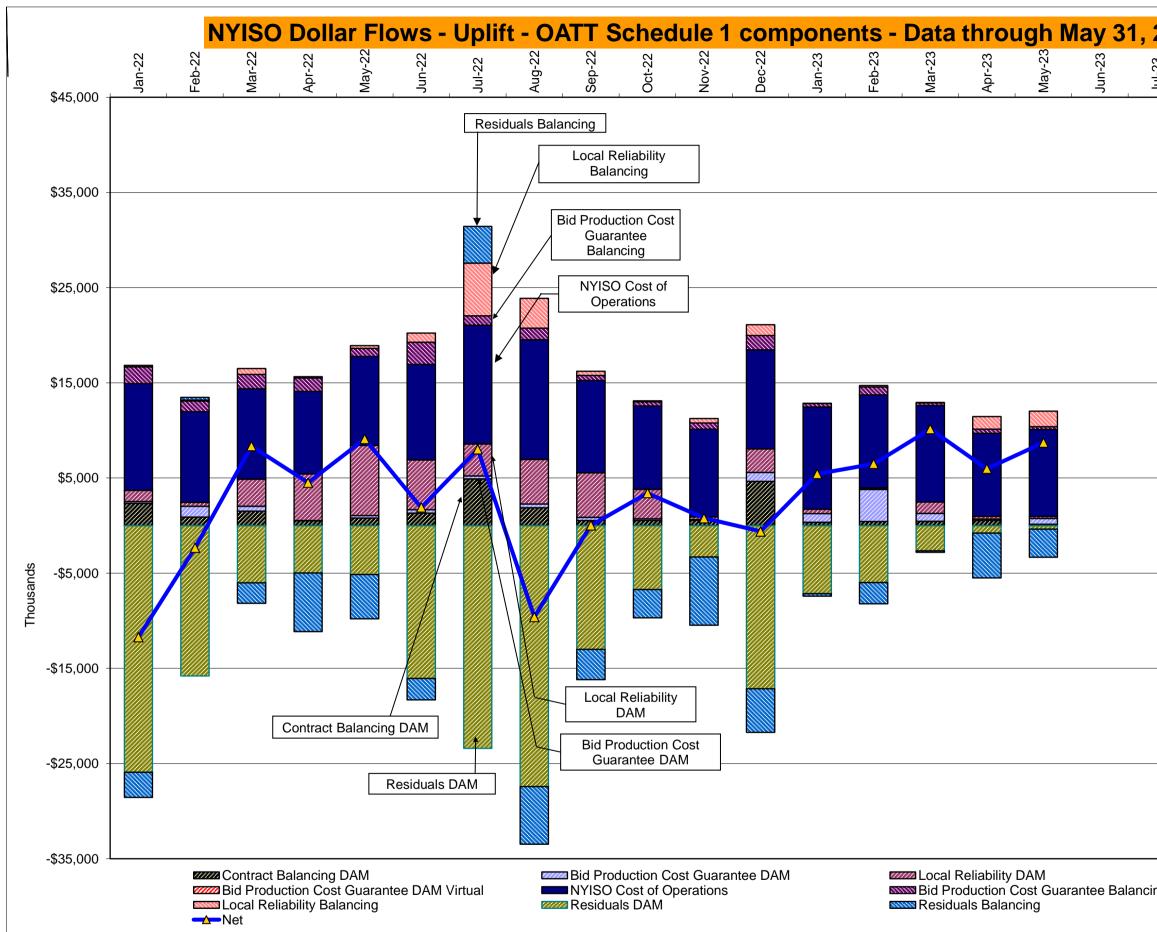


* Excludes ICAP payments.

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2023	January	February	March	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	<u>September</u>	<u>October</u>	November	December
LBMP	42.10	<u>1 cordary</u> 55.47	31.11	28.07	23.13	June	<u>oury</u>	<u>//ugust</u>				December
NTAC	2.82	1.15	1.39	1.72	1.38							
Reserve	0.72	0.90	0.73	0.85	0.81							
Regulation	0.09	0.13	0.13	0.05	0.01							
NYISO Cost of Operations	0.77	0.77	0.70	0.78	0.78							
FERC Fee Recovery	0.08	0.09	0.09	0.10	0.10							
Uplift	(0.38)	(0.27)	(0.00)	(0.34)	(0.13)							
Uplift: Local Reliability Share	0.03	0.03	0.09	0.04	0.07							
Uplift: Statewide Share	(0.41)	(0.30)	(0.10)	(0.38)	(0.20)							
Voltage Support and Black Start	0.42	0.42	0.43	0.43	0.43							
Avg Monthly Cost	46.56	58.58	34.58	31.67	26.55							
	10.00	00.00	01.00	01107	20.00							
Avg YTD Cost	46.64	52.36	46.65	43.45	40.45							
TSA \$ per NYC MWh	0.00	0.00	0.00	0.00	0.00							
2022	January	<u>February</u>	March	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	<u>September</u>	<u>October</u>	November	December
LBMP	134.79	94.06	56.78	56.46	70.60	76.72	99.47	108.85	78.91	53.11	52.47	110.17
NTAC	1.43	0.95	1.48	1.17	2.46	2.07	3.65	1.69	1.44	3.21	3.91	2.23
Reserve	1.26	1.21	0.83	0.81	0.74	0.66	0.87	0.65	0.86	1.02	0.89	0.49
Regulation	0.27	0.19	0.17	0.12	0.13	0.15	0.12	0.13	0.18	0.18	0.15	0.12
NYISO Cost of Operations	0.73	0.72	0.74	0.74	0.74	0.75	0.76	0.76	0.76	0.73	0.74	0.73
FERC Fee Recovery	0.07	0.08	0.09	0.10	0.09	0.08	0.06	0.06	0.09	0.10	0.09	0.08
Uplift	(1.50)	(1.73)	(0.09)	(0.36)	(0.05)	(0.61)	(1.58)	(1.91)	(0.78)	(0.45)	(0.68)	(0.77)
Uplift: Local Reliability Share	0.09	0.04	0.27	0.43	0.60	0.46	0.54	0.47	0.39	0.27	0.06	0.25
Uplift: Statewide Share	(1.59)	(1.77)	(0.36)	(0.79)	(0.65)	(1.07)	(2.12)	(2.38)	(1.18)	(0.72)	(0.74)	(1.02)
Voltage Support and Black Start	0.42	0.41	0.43	0.43	0.43	0.43	0.43	0.43	0.44	0.42	0.42	0.42
Avg Monthly Cost	137.41	95.82	60.34	59.38	75.07	80.17	103.73	110.61	81.81	58.26	57.91	113.40
Avg YTD Cost	137.49	118.36	100.65	91.92	88.82	87.37	90.31	93.42	92.27	89.47	86.97	89.23
TSA \$ per NYC MWh	0.00	2.98	0.00	0.00	0.11	0.00	3.98	1.70	0.06	0.00	0.00	0.01

NYISO Average Cost/MWh (Energy and Ancillary Services) *

from the LBMP Customer point of view



DAM Contract Balancing amounts are for payments made to generating units to make them whole for being dispatched below their Day-Ahead schedule, as a result of out-of-merit dispatches. DAM Bid Production Cost Guarantees for Virtual Transactions are included in the chart and are shown from the inception of Virtual Transactions. These values are small and cannot be identified on the chart. DAM residuals consist of both energy and loss revenue collections and payments. By design, there is a net over collection of revenues due to the difference between the marginal losses paid to generation and the average losses charged to loads.

202	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	
ing						

NYISO Markets Transactions

		<u></u>				
<u>2023</u>	<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>
Day Ahead Market MWh	13,662,137	12,355,489	12,651,083	11,058,870	11,601,426	
DAM LSE Internal LBMP Energy Sales	55%	55%	56%	55%	55%	
DAM External TC LBMP Energy Sales	7%	7%	4%	4%	4%	
DAM Bilateral - Internal Bilaterals	28%	29%	30%	30%	31%	
DAM Bilateral - Importl/Non-LBMP Market Bilaterals	5%	5%	6%	6%	6%	
DAM Bilateral - Export/Non-LBMP Market Bilaterals	2%	2%	2%	2%	2%	
DAM Bilateral - Wheel Through Bilaterals	3%	2%	2%	2%	2%	
Balancing Energy Market MWh	328,840	397,488	420,170	303,381	-77,279	
Balancing Energy LSE Internal LBMP Energy Sales	65%	38%	53%	43%	-157%	
Balancing Energy External TC LBMP Energy Sales	68%	68%	58%	69%	223%	
Balancing Energy Bilateral - Internal Bilaterals	2%	1%	2%	-1%	-5%	
Balancing Energy Bilateral - Importl/Non-LBMP Market Bilaterals	0%	0%	0%	0%	7%	
Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals	7%	6%	6%	5%	10%	
Balancing Energy Bilateral - Wheel Through Bilaterals	-43%	-13%	-18%	-16%	-178%	
Transactions Summary						
LBMP	63%	63%	62%	61%	60%	
Internal Bilaterals	28%	28%	29%	29%	31%	
Import Bilaterals	5%	5%	6%	6%	6%	
Export Bilaterals	2%	2%	2%	3%	2%	
Wheels Through	2%	1%	1%	2%	1%	
Market Share of Total Load						
Day Ahead Market	97.6%	96.9%	96.8%	97.3%	100.7%	
Balancing Energy +	2.4%	3.1%	3.2%	2.7%	-0.7%	
Total MWH	13,990,977	12,752,977	13,071,253	11,362,252	11,524,147	
Average Daily Energy Sendout/Month GWh	410	408	387	349	350	
2022	le e com c		Mayak	A ve vil	Maxi	lum a
<u>2022</u>	January	February	March	<u>April</u>	<u>May</u>	June
Day Ahead Market MWh	14,327,101	12,477,485	12,137,757	10,992,578	12,176,102	12,945,740
DAM LSE Internal LBMP Energy Sales	57%	56%	59%	56%	55%	60%
DAM External TC LBMP Energy Sales	7%	8%	3%	5%	6%	3%
DAM Bilateral - Internal Bilaterals	28%	28%	29%	31%	31%	29%
DAM Bilateral - Importl/Non-LBMP Market Bilaterals	4%	4%	4%	5%	4%	4%
DAM Bilateral - Export/Non-LBMP Market Bilaterals	2%	2%	2%	2%	2%	2%
DAM Bilateral - Wheel Through Bilaterals	2%	2%	2%	2%	2%	2%
Balancing Energy Market MWh	942,823	742,449	758,386	772,666	378,503	464,231
Balancing Energy LSE Internal LBMP Energy Sales	88%	83%	76%	60%	65%	66%
Balancing Energy External TC LBMP Energy Sales	16%	19%	24%	33%	32%	36%
Balancing Energy Bilateral - Internal Bilaterals	1%	2%	2%	0%	5%	2%
Balancing Energy Bilateral - Importl/Non-LBMP Market Bilaterals	0%	0%	0%	0%	2%	2%
Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals	4%	9%	8%	7%	9%	8%
Balancing Energy Bilateral - Wheel Through Bilaterals	-9%	-13%	-10%	-1%	-12%	-14%
Transactions Summary						• · · · ·
LBMP	67%	66%	65%	62%	63%	64%
Internal Bilaterals	26%	27%	27%	29%	30%	28%

01 /0	0070	0070	02 /0	0070	0470	
26%	27%	27%	29%	30%	28%	
3%	4%	4%	4%	4%	4%	
2%	2%	2%	2%	2%	2%	
1%	1%	2%	2%	2%	2%	
93.8%	94.4%	94.1%	93.4%	97.0%	96.5%	
6.2%	5.6%	5.9%	6.6%	3.0%	3.5%	
15,269,924	13,219,933	12,896,143	11,765,244	12,554,605	13,409,971	16,4
151	429	300	359	372	422	
	26% 3% 2% 1% 93.8% 6.2% 15,269,924	26%27%3%4%2%2%1%1%93.8%94.4%6.2%5.6%15,269,92413,219,933	26%27%27%3%4%4%2%2%2%1%1%2%93.8%94.4%94.1%6.2%5.6%5.9%15,269,92413,219,93312,896,143	26%27%27%29%3%4%4%4%2%2%2%2%1%1%2%2%93.8%94.4%94.1%93.4%6.2%5.6%5.9%6.6%15,269,92413,219,93312,896,14311,765,244	26% 27% 29% 30% 3% 4% 4% 4% 2% 2% 2% 2% 1% 1% 2% 2% 2% 93.8% 94.4% 94.1% 93.4% 97.0% 6.2% 5.6% 5.9% 6.6% 3.0%	3%4%4%4%4%2%2%2%2%2%1%1%2%2%2%1%1%2%2%2%93.8%94.4%94.1%93.4%97.0%96.5%6.2%5.6%5.9%6.6%3.0%3.5%15,269,92413,219,93312,896,14311,765,24412,554,60513,409,971

+ Balancing Energy: Load(MW) purchased at Real Time LBMP.

* The signs for the detail section intuitively reflect the direction of power flow eliminating the use of double negatives when Balancing Energy is negative.

<u>July</u>	<u>August</u>	<u>September</u>	<u>October</u>	<u>November</u>	<u>December</u>
-------------	---------------	------------------	----------------	-----------------	-----------------

<u>July</u>	<u>August</u>	<u>September</u>	<u>October</u>	<u>November</u>	<u>December</u>
15,905,937	15,770,210	12,467,212	11,527,745	11,952,855	13,768,799
64%	63%	62%	58%	56%	56%
3%	3%	2%	3%	4%	6%
26%	26%	27%	30%	31%	29%
4%	5%	6%	5%	5%	5%
1%	1%	2%	2%	2%	2%
2%	2%	2%	2%	2%	2%
567,602	785,464	361,883	379,932	519,117	528,939
72%	86%	66%	45%	38%	45%
23%	14%	34%	55%	58%	56%
1%	0%	1%	0%	2%	2%
2%	0%	0%	0%	0%	0%
6%	3%	5%	7%	7%	5%
-4%	-3%	-5%	-7%	-5%	-8%
68%	68%	65%	62%	62%	64%
25%	25%	27%	29%	29%	28%
3%	4%	6%	5%	5%	5%
2%	1%	2%	2%	2%	2%
1%	1%	2%	1%	2%	2%
96.6%	95.3%	97.2%	96.8%	95.8%	96.3%
3.4%	4.7%	2.8%	3.2%	4.2%	3.7%
16,473,538	16,555,674	12,829,095	11,907,677	12,471,972	14,297,738
509	514	411	359	382	421

Notes: Percent totals may not equal 100% due to rounding. Virtual Transactions are not reflected in this chart.

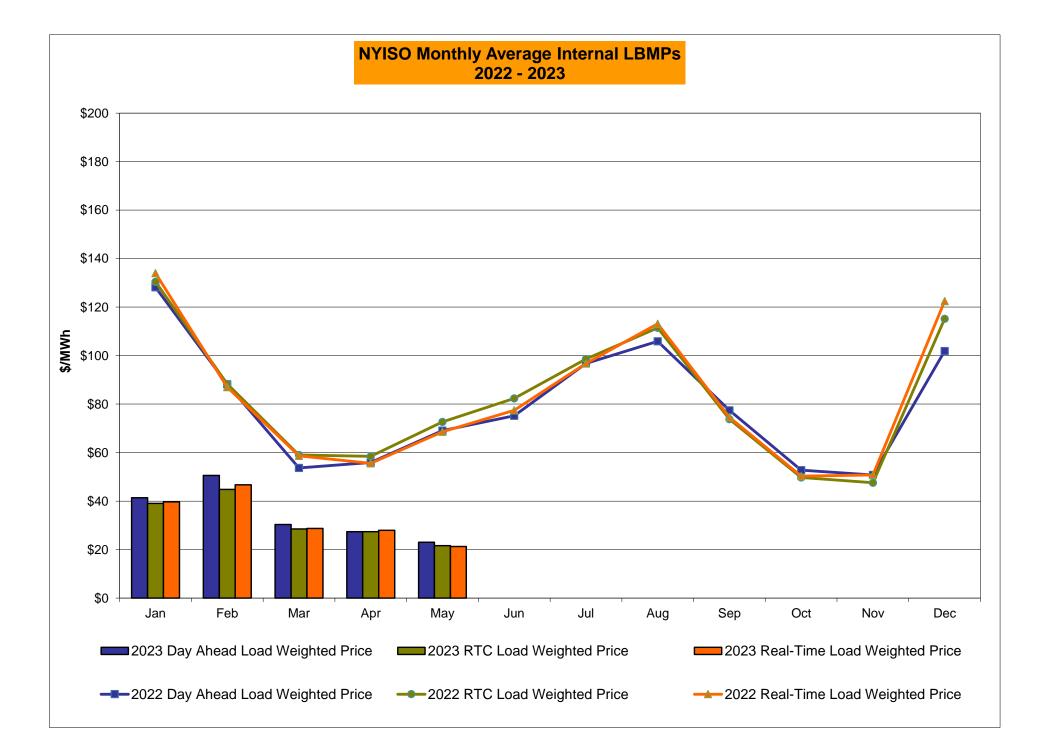
NYISO Markets 2023 Energy Statistics

	<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	May	June	<u>July</u>	August	<u>September</u>	October Nover	<u>nber</u> <u>December</u>
DAY AHEAD LBMP											
Price *	\$40.60	\$47.82	\$29.84	\$26.91	\$22.41						
Standard Deviation	\$10.32	\$47.20	\$7.42	\$6.50	\$6.46						
Load Weighted Price **	\$41.37	\$50.55	\$30.37	\$27.38	\$23.02						
RTC LBMP											
Price *	\$38.28	\$42.67	\$28.02	\$26.93	\$21.13						
			•		•						
Standard Deviation	\$31.37	\$39.75	\$11.53	\$9.23	\$7.61						
Load Weighted Price **	\$39.04	\$44.80	\$28.49	\$27.39	\$21.62						
REAL TIME LBMP											
Price *	\$38.76	\$43.99	\$28.15	\$27.41	\$20.76						
Standard Deviation	\$45.06	\$43.54	\$15.02	\$13.08	\$9.13						
Load Weighted Price **	\$39.68	\$46.75	\$28.72	\$27.97	\$21.27						
Average Daily Energy Sendout/Month GWh	410	408	387	349	350						

NYISO Markets 2022 Energy Statistics

	<u>January</u>	<u>February</u>	March	<u>April</u>	May	June	<u>July</u>	<u>August</u>	<u>September</u>	<u>October</u>	November	<u>December</u>
DAY AHEAD LBMP												
Price *	\$124.39	\$85.98	\$52.41	\$55.23	\$66.11	\$72.43	\$90.42	\$100.71	\$74.23	\$51.77	\$49.08	\$98.20
Standard Deviation	\$51.94	\$39.56	\$18.64	\$11.05	\$21.60	\$19.84	\$40.00	\$33.52	\$22.13	\$11.85	\$20.31	\$64.21
Load Weighted Price **	\$128.16	\$88.17	\$53.69	\$55.96	\$69.05	\$75.15	\$96.74	\$105.93	\$77.41	\$52.79	\$50.77	\$101.90
RTC LBMP												
Price *	\$127.16	\$85.48	\$57.58	\$57.33	\$68.27	\$78.66	\$92.25	\$104.69	\$70.59	\$48.87	\$45.91	\$109.15
Standard Deviation	\$77.62	\$55.20	\$38.62	\$21.09	\$42.87	\$49.85	\$49.28	\$51.96	\$28.06	\$13.16	\$24.06	\$190.04
Load Weighted Price **	\$130.45	\$88.33	\$59.03	\$58.49	\$72.67	\$82.33	\$98.61	\$111.42	\$73.81	\$49.76	\$47.58	\$115.16
REAL TIME LBMP												
Price *	\$130.43	\$83.85	\$57.00	\$54.45	\$65.07	\$74.01	\$90.23	\$105.61	\$71.11	\$49.26	\$48.62	\$114.54
Standard Deviation	\$93.35	\$57.99	\$44.52	\$20.46	\$33.01	\$41.27	\$54.20	\$69.83	\$30.72	\$17.89	\$37.20	\$216.43
Load Weighted Price **	\$133.98	\$86.99	\$58.64	\$55.57	\$68.60	\$77.40	\$96.79	\$113.16	\$74.57	\$50.30	\$50.78	\$122.49
Average Daily Energy Sendout/Month GWh	451	429	390	359	372	422	509	514	411	359	382	421

* Average zonal load weighted prices.
** Average zonal load weighted prices, load weighted in each hour.



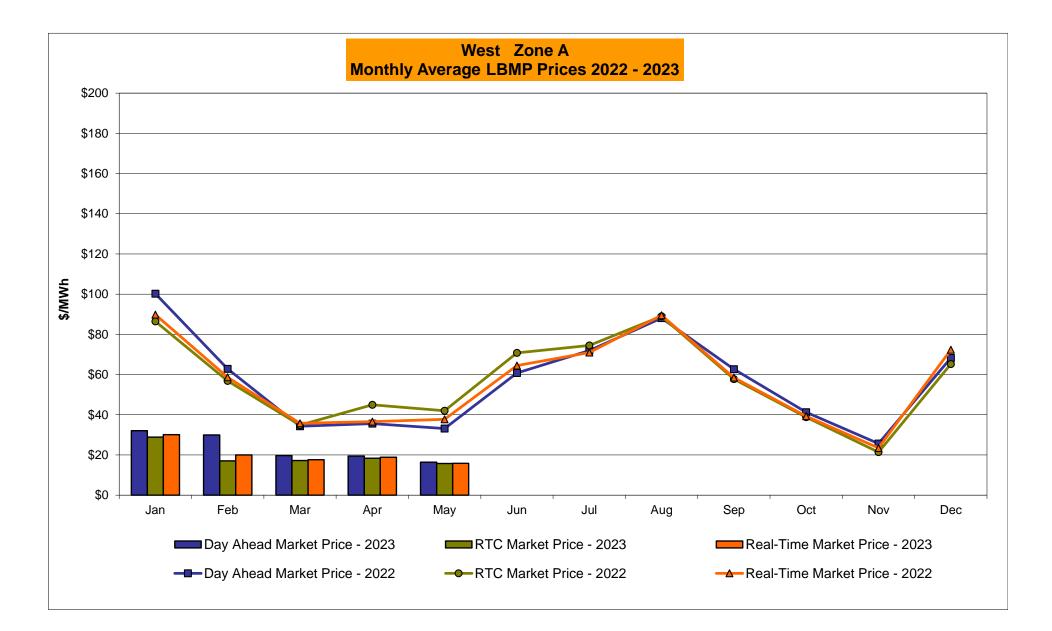
Market Mitigation and Analysis Prepared: 6/9/2023 11:15 AM

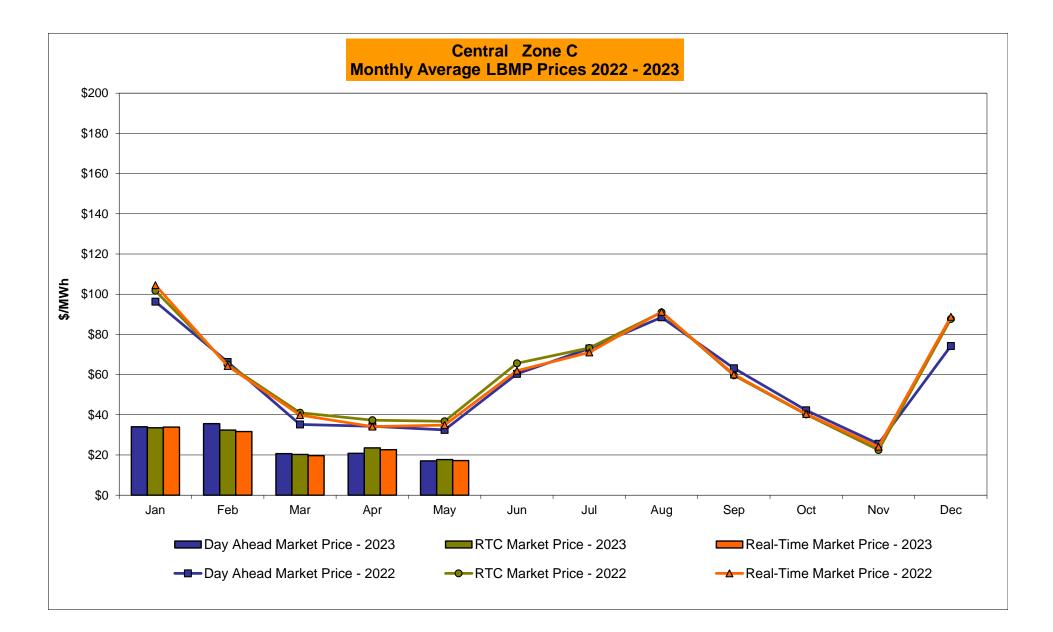
May 2023 Zonal LBMP Statistics for NYISO (\$/MWh)

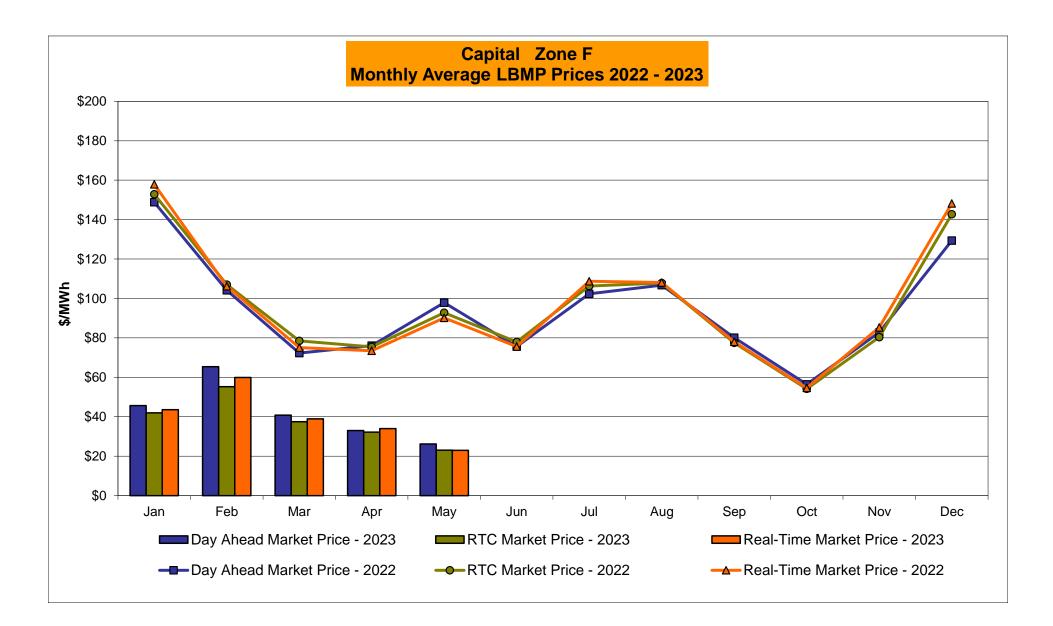
	WEST	GENESEE	NORTH	CENTRAL	MOHAWK VALLEY	CAPITAL	HUDSON VALLEY		DUNWOODIE	NEW YORK CITY	LONG ISLAND
	Zone A	Zone B	Zone D	Zone C	Zone E	Zone F	Zone G	Zone H	Zone I	Zone J	Zone K
	Zone A	Zone B			Zone L	Zone F	<u>2011e G</u>	<u>2011e H</u>		Zone J	Zone K
DAY AHEAD LBMP											
Unweighted Price *	16.40	16.33	14.52	17.06	17.42	26.17	24.18	24.51	24.56	24.67	28.19
Standard Deviation	6.47	6.74	7.79	7.02	7.04	7.85	6.83	6.99	7.00	7.03	8.30
RTC LBMP											
Unweighted Price *	15.75	15.24	15.18	17.72	17.43	23.04	22.00	22.23	22.26	22.58	28.00
Standard Deviation	8.13	8.50	10.07	9.33	8.52	8.19	7.10	7.16	7.15	7.52	27.46
REAL TIME LBMP											
Unweighted Price *	15.80	15.54	14.78	17.22	17.19	22.96	21.78	22.16	22.22	22.43	26.30
Standard Deviation	9.25	9.66	11.63	10.79	10.09	10.83	9.82	9.62	9.66	9.78	18.01

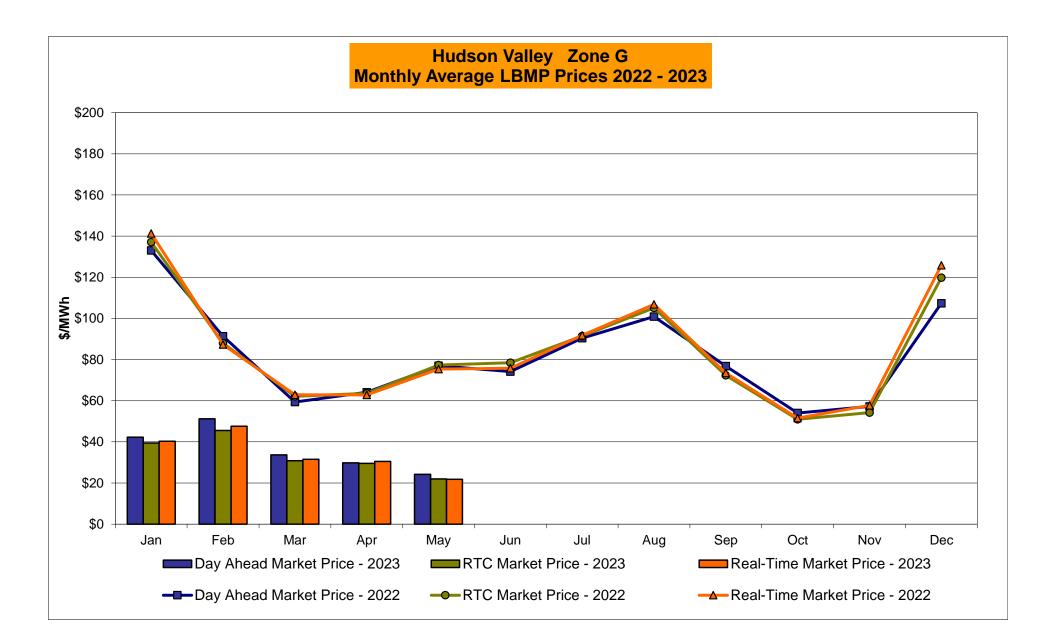
	ONTARIO IESO	HYDRO QUEBEC (Wheel)	HYDRO QUEBEC (Import/Export)	PJM	NEW ENGLAND	CROSS SOUND CABLE	NORTHPORT- NORWALK	NEPTUNE	LINDEN VFT	HUDSON	Dennison
	1200	(miool)				Controllable	Controllable	Controllable	Controllable	Controllable	Controllable
	Zone O	Zone M	Zone M	Zone P	Zone N	Line	Line	Line	Line	Line	Line
DAY AHEAD LBMP											
Unweighted Price *	16.01	15.13	15.13	20.76	24.27	28.06	27.70	26.39	24.54	24.59	14.34
Standard Deviation	6.29	7.31	7.31	6.11	6.00	8.27	7.96	7.45	6.96	6.99	7.54
RTC LBMP											
Unweighted Price *	15.11	15.76	15.76	21.59	22.33	28.60	27.18	25.28	22.28	22.42	15.35
Standard Deviation	7.65	9.33	9.33	34.33	7.58	29.81	26.82	16.62	7.28	7.54	9.94
REAL TIME LBMP											
Unweighted Price *	15.99	15.52	15.52	21.16	22.29	26.77	25.23	24.27	22.22	22.30	14.96
Standard Deviation	9.88	10.68	10.68	39.97	10.03	20.26	17.45	13.35	9.60	9.66	11.45

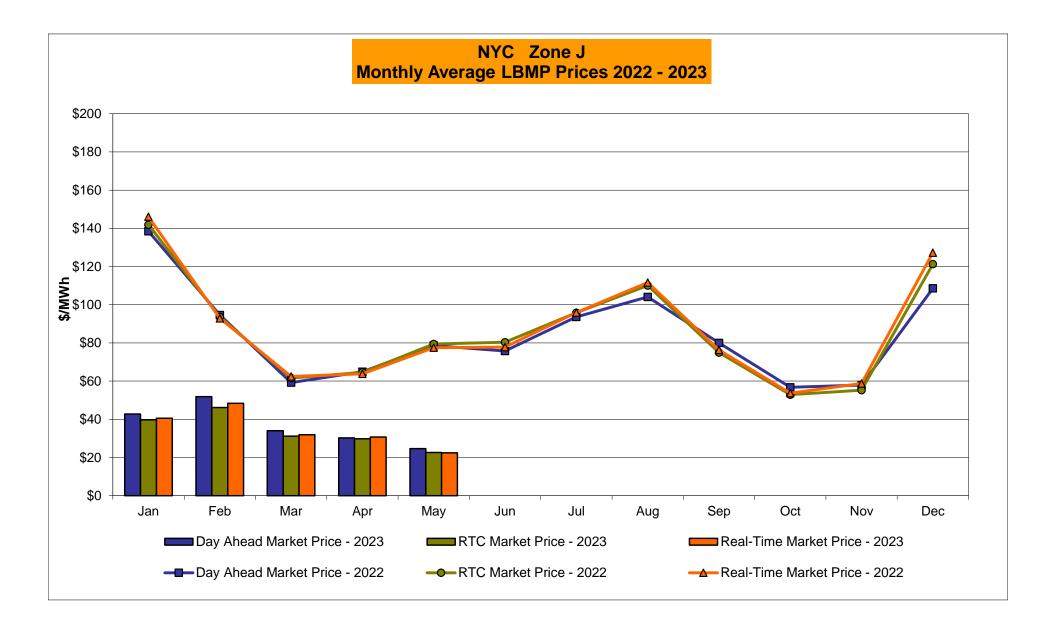
* Straight LBMP averages

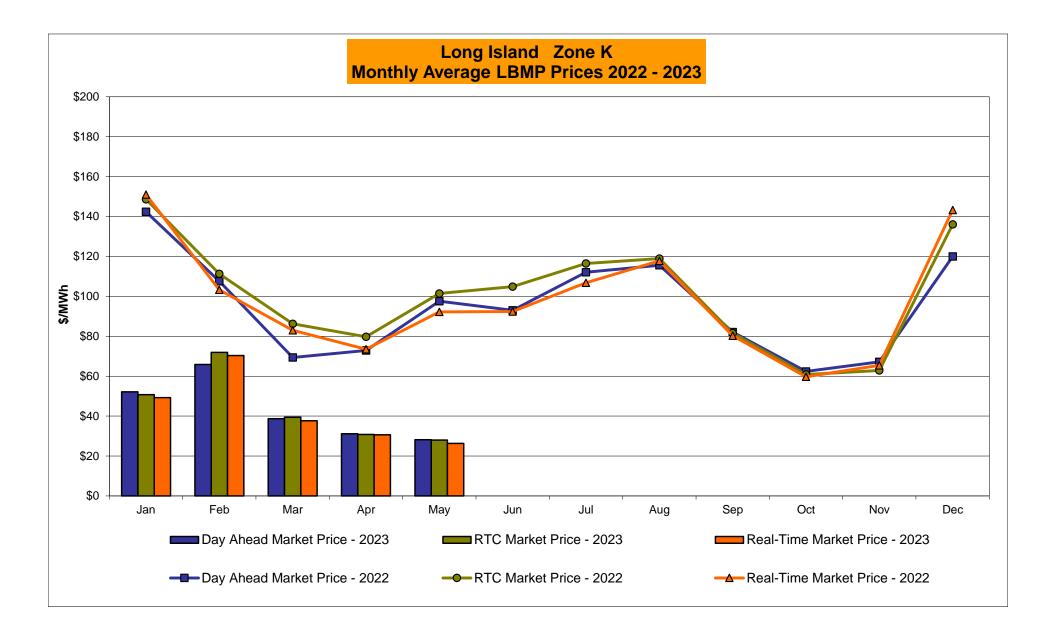


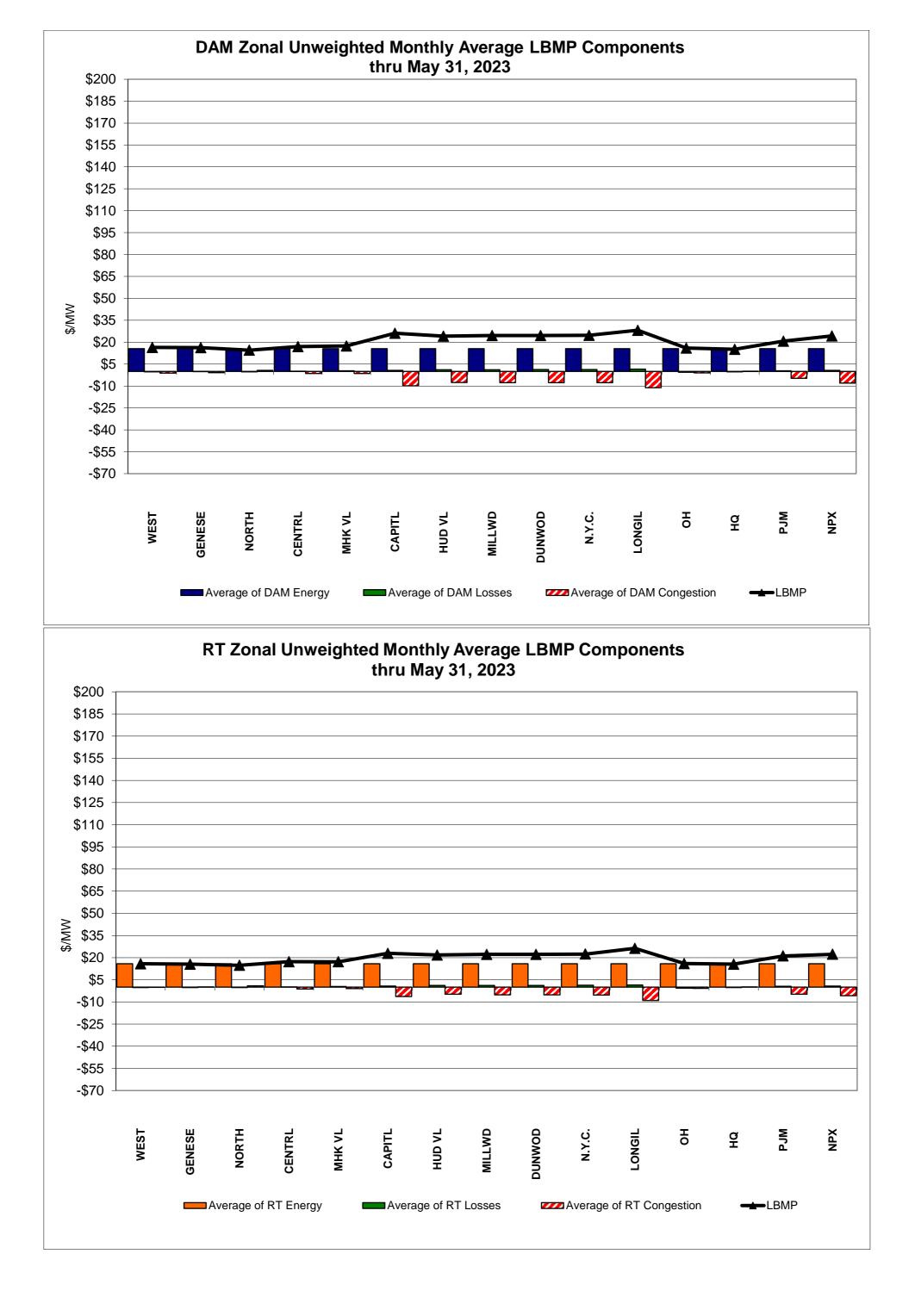




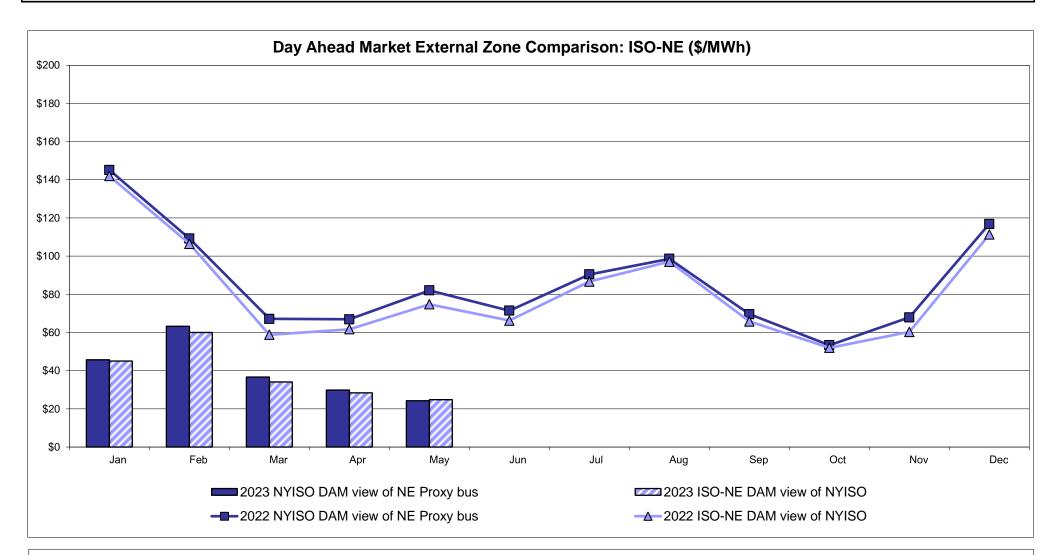


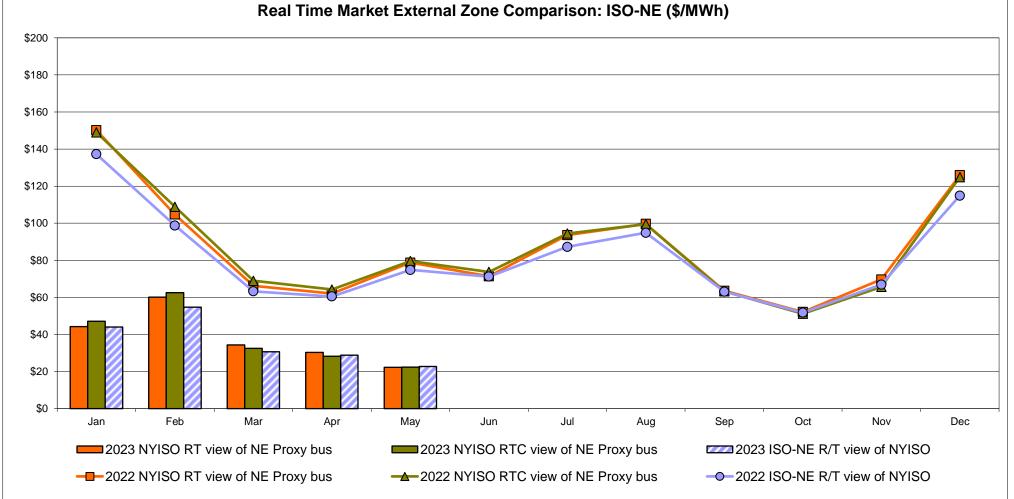


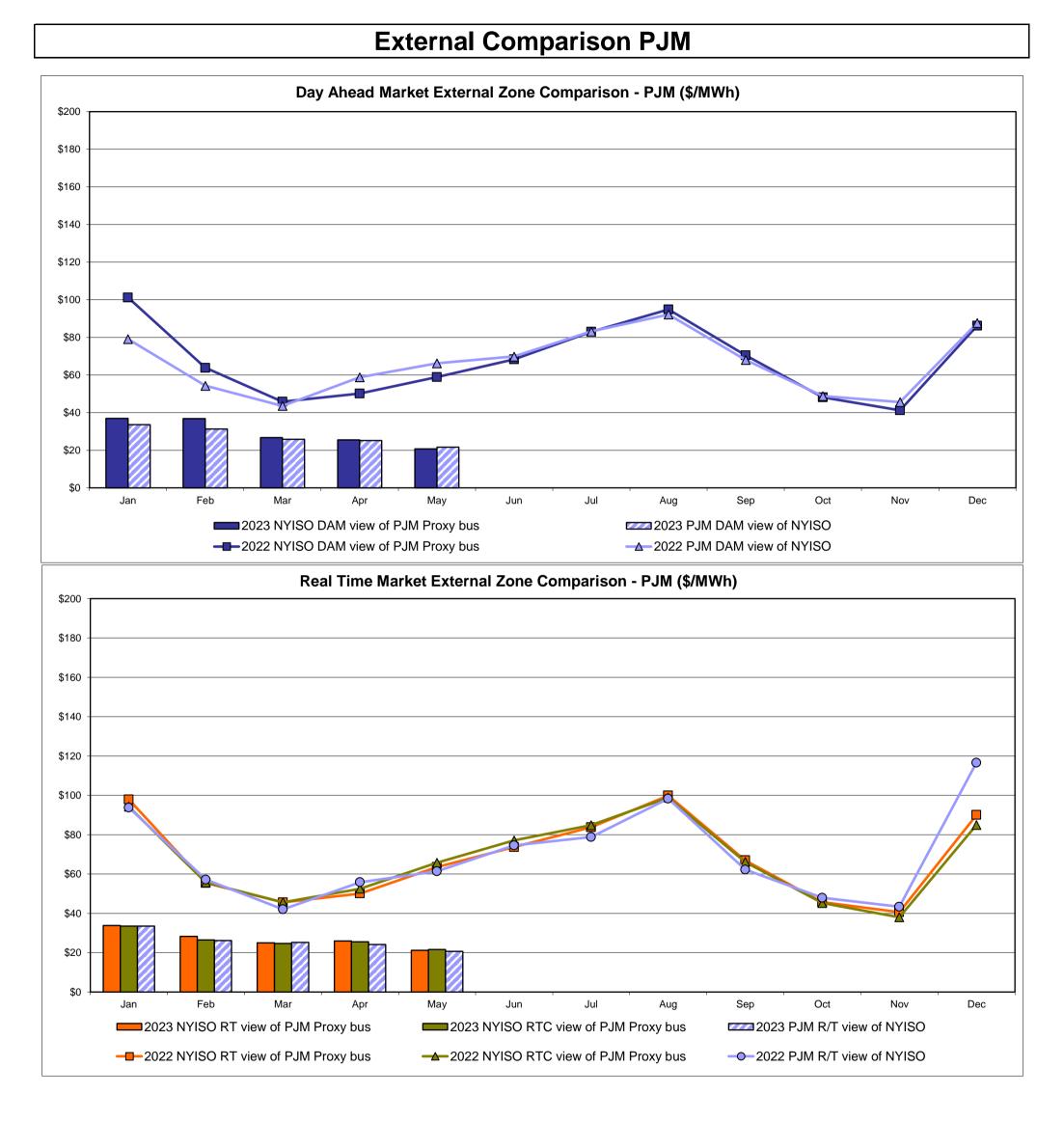




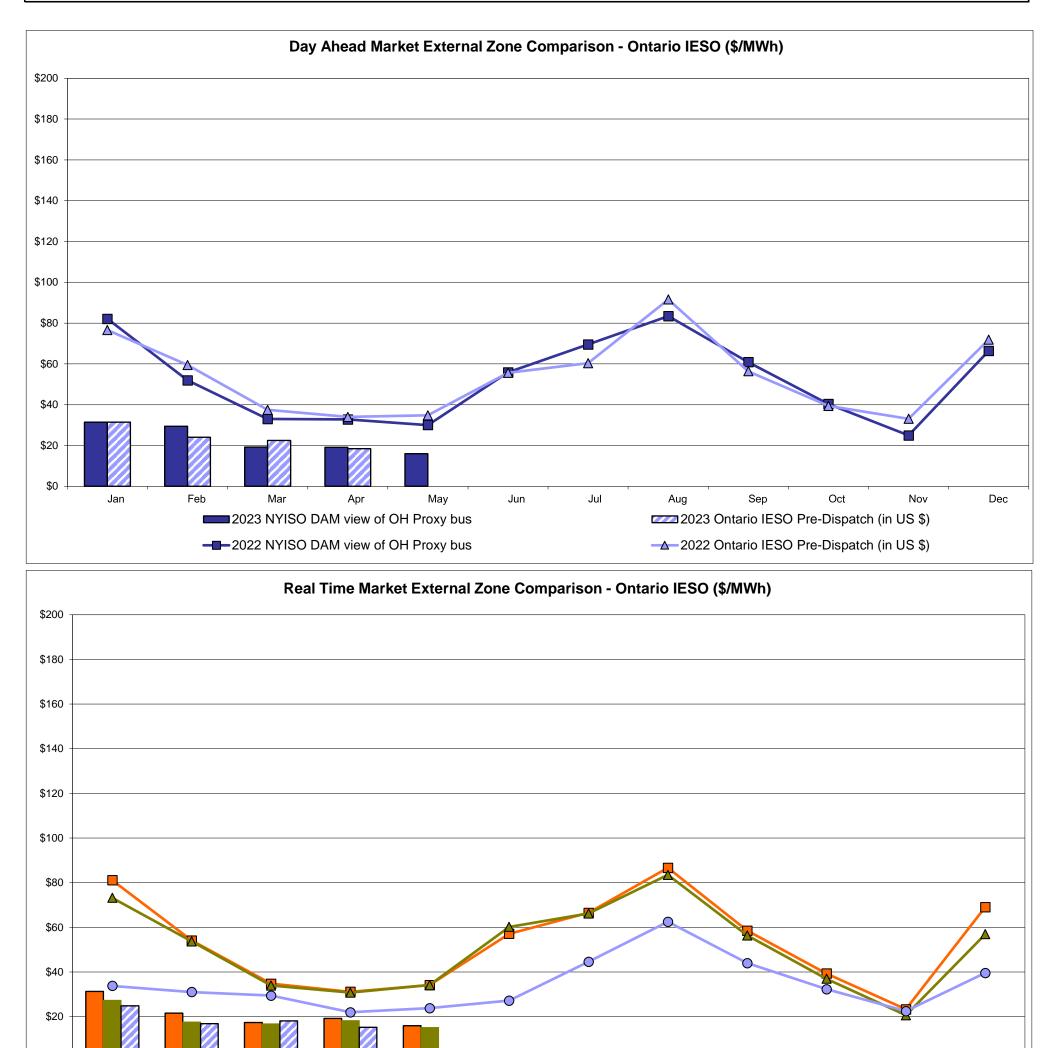
External Comparison ISO-New England

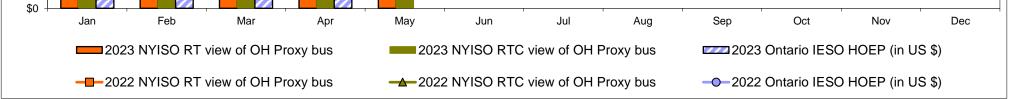






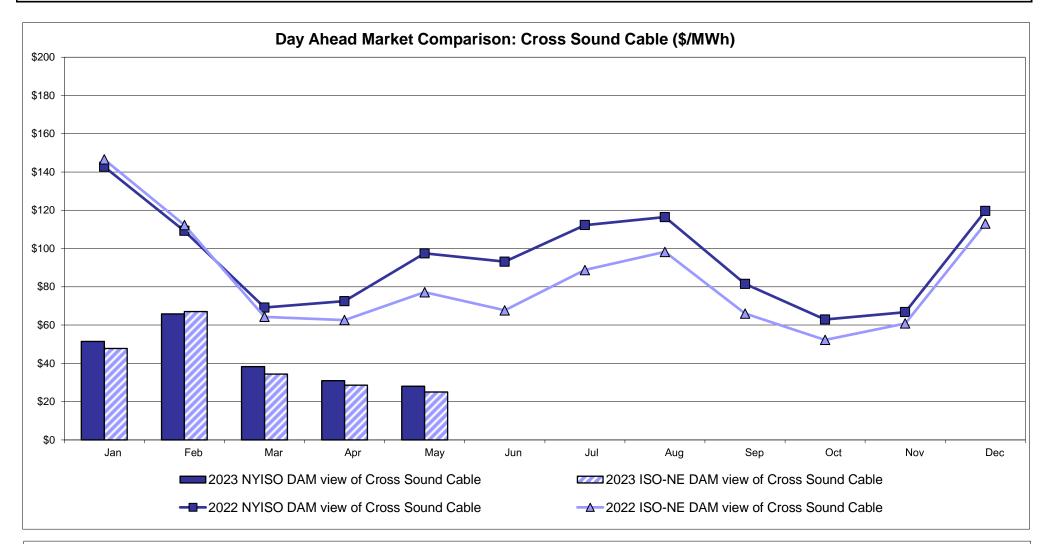
External Comparison Ontario IESO



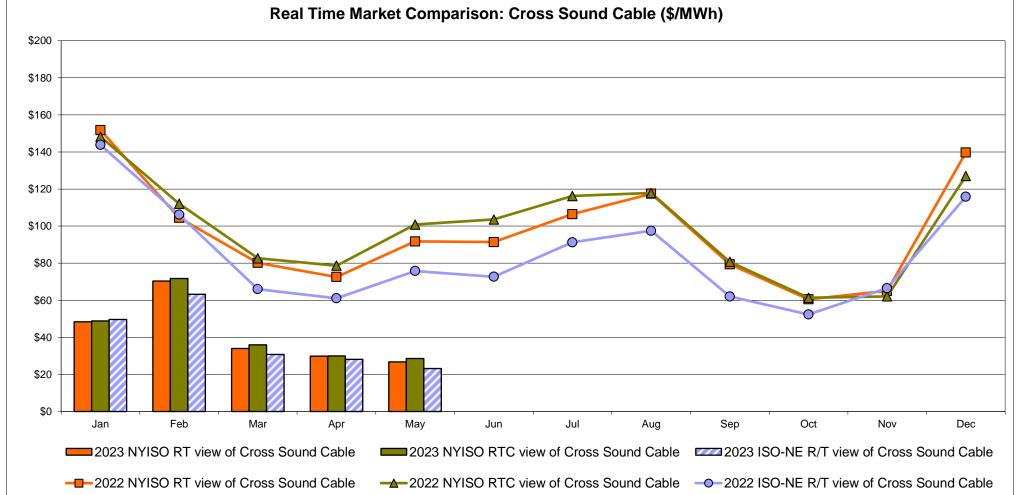


Notes: Exchange factor used for May 2023 was to US HOEP: Hourly Ontario Energy Price Pre-Dispatch: Projected Energy Price

> Market Mitigation and Analysis Prepared: 6/9/2023 11:21 AM



External Controllable Line: Cross Sound Cable (New England)

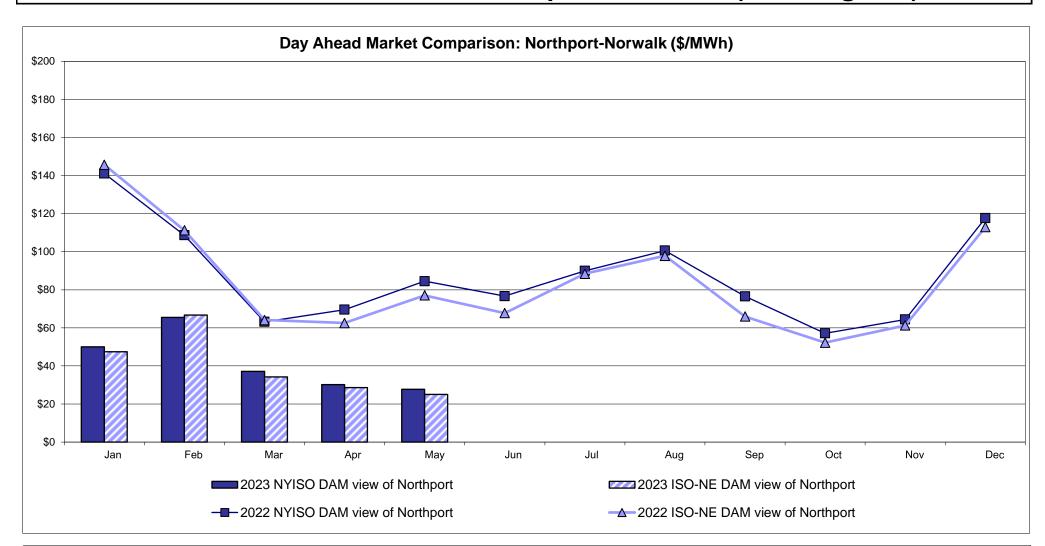


Note:

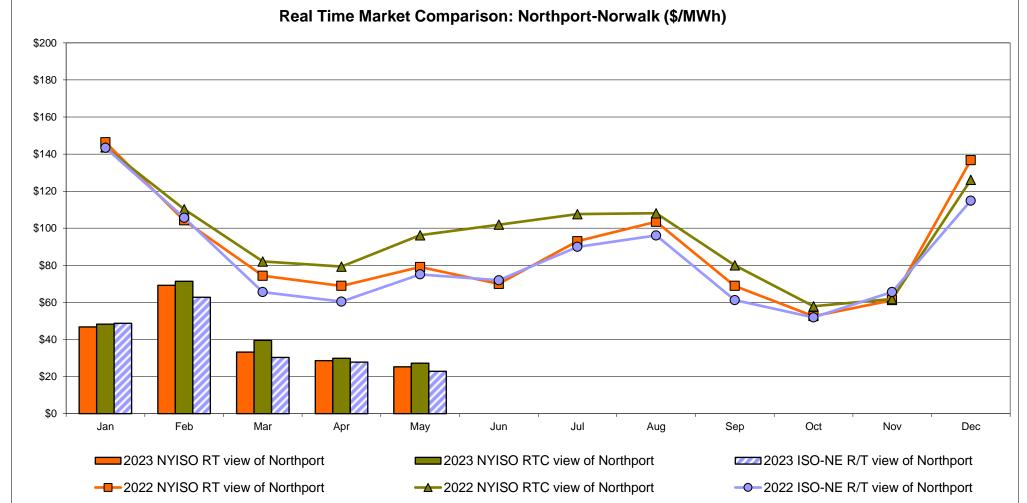
ISO-NE Forecast is an advisory posting @ 18:00 day before.

The DAM and R/T prices at the Shorham 13899 interface are used for ISO-NE.

The DAM and R/T prices at the CSC interface are used for NYISO.



External Controllable Line: Northport - Norwalk (New England)

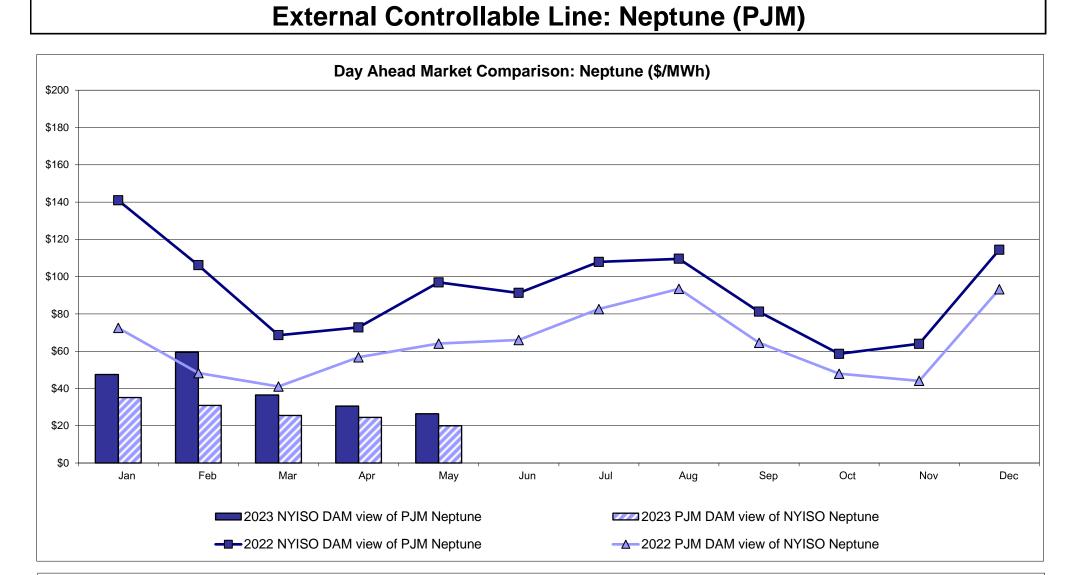


Note:

ISO-NE Forecast is an advisory posting @ 18:00 day before.

The DAM and R/T prices at the Northport 138 interface are used for ISO-NE.

The DAM and R/T prices at the 1385 interface are used for NYISO.



Real Time Market Comparison: Neptune (\$/MWh) \$200 \$180 \$160 \$140 \$120 \$100 0 \$80 \$60 С \$40 \$20 \$0 May Jan Feb Mar Apr Jun Jul Oct Nov Dec Aug Sep 2023 NYISO RTC view of PJM Neptune 2023 NYISO RT view of PJM Neptune 2023 PJM R/T view of NYISO Neptune

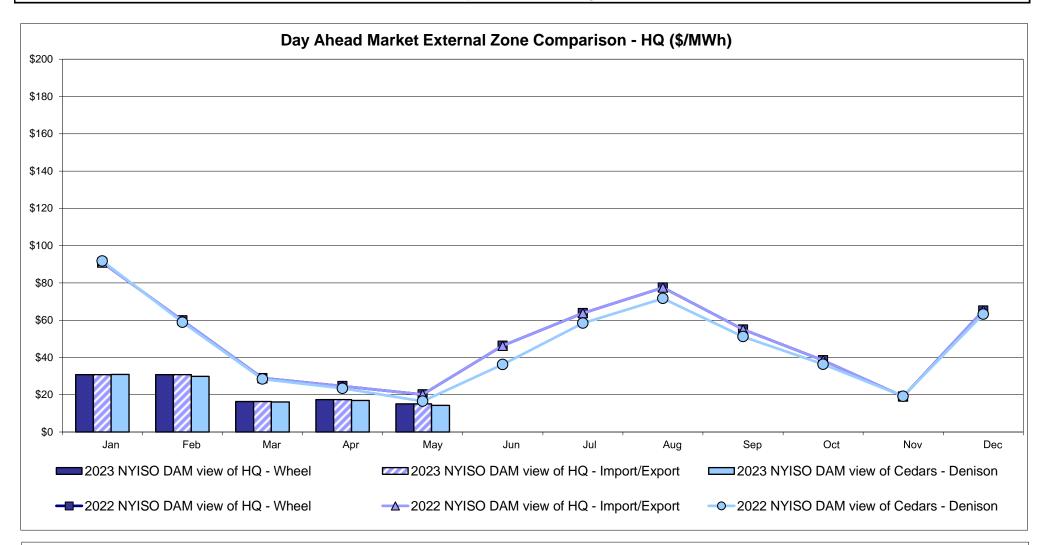
Market Mitigation and Analysis Prepared: 6/9/2023 11:21 AM

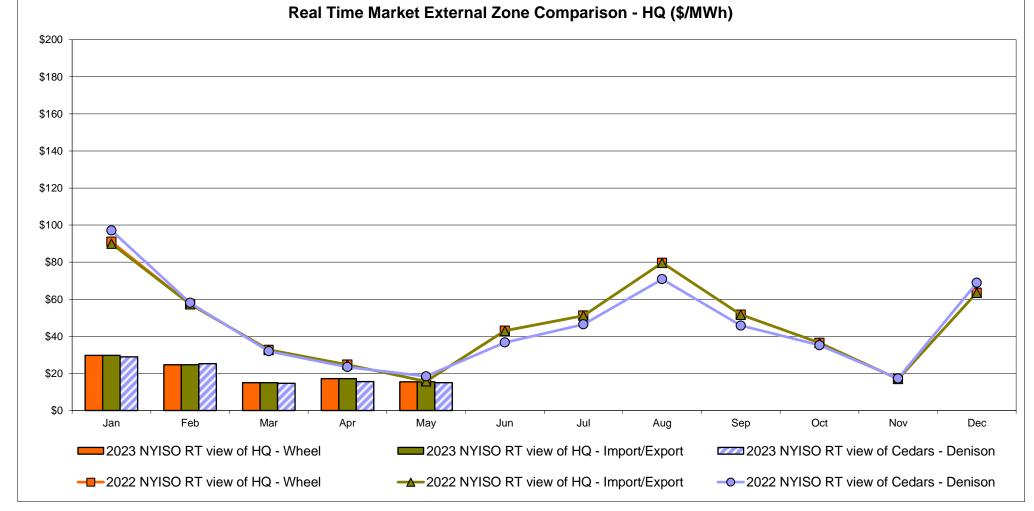
-D-2022 NYISO RT view of PJM Neptune

- 2022 NYISO RTC view of PJM Neptune

-O-2022 PJM R/T view of NYISO Neptune

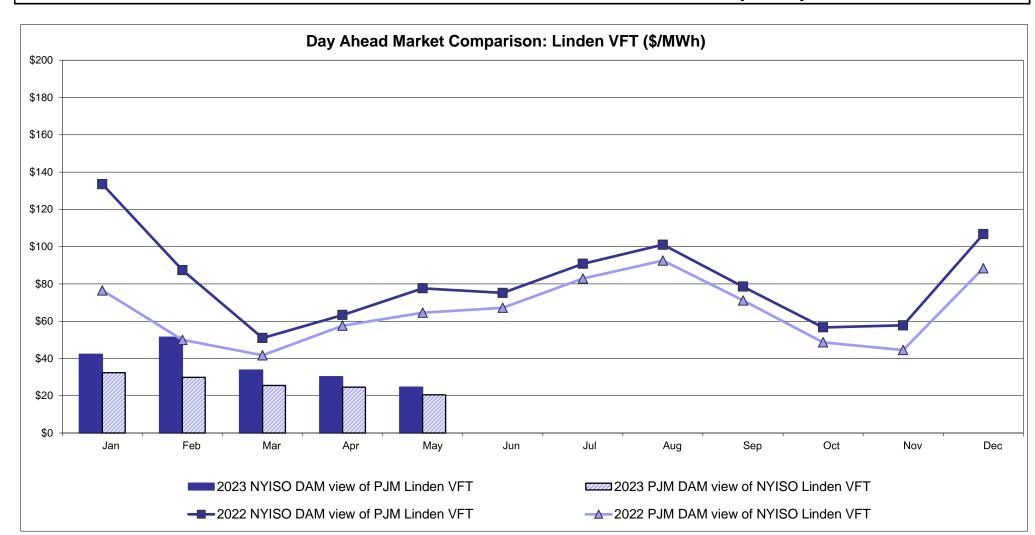
External Comparison Hydro-Quebec



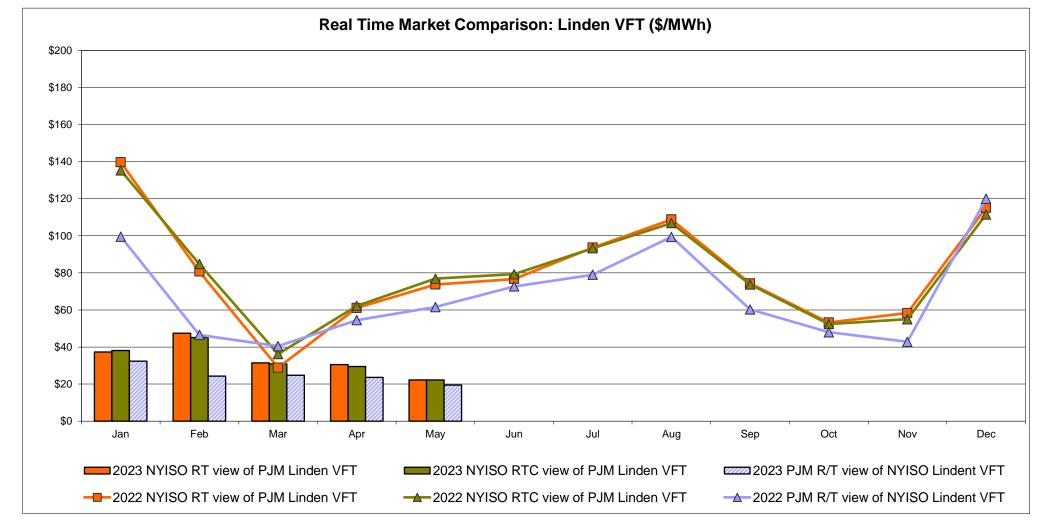


Note:

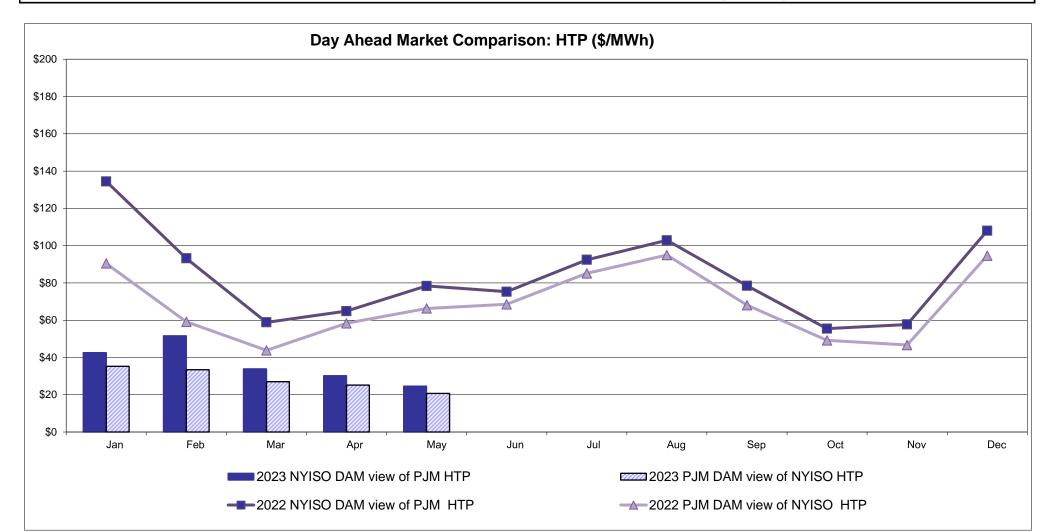
Hydro-Quebec Prices are unavailable.

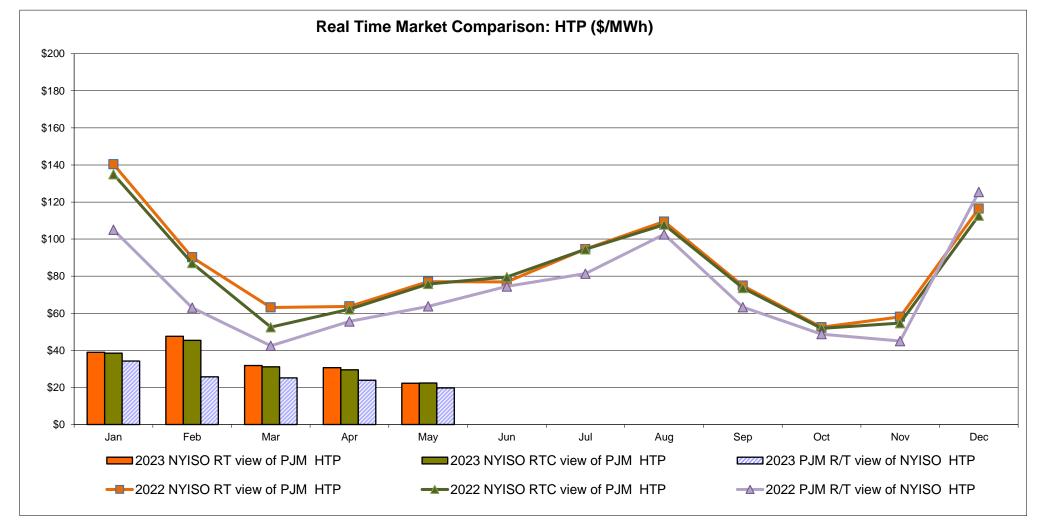


External Controllable Line: Linden VFT (PJM)



External Controllable Line: Hudson (PJM)



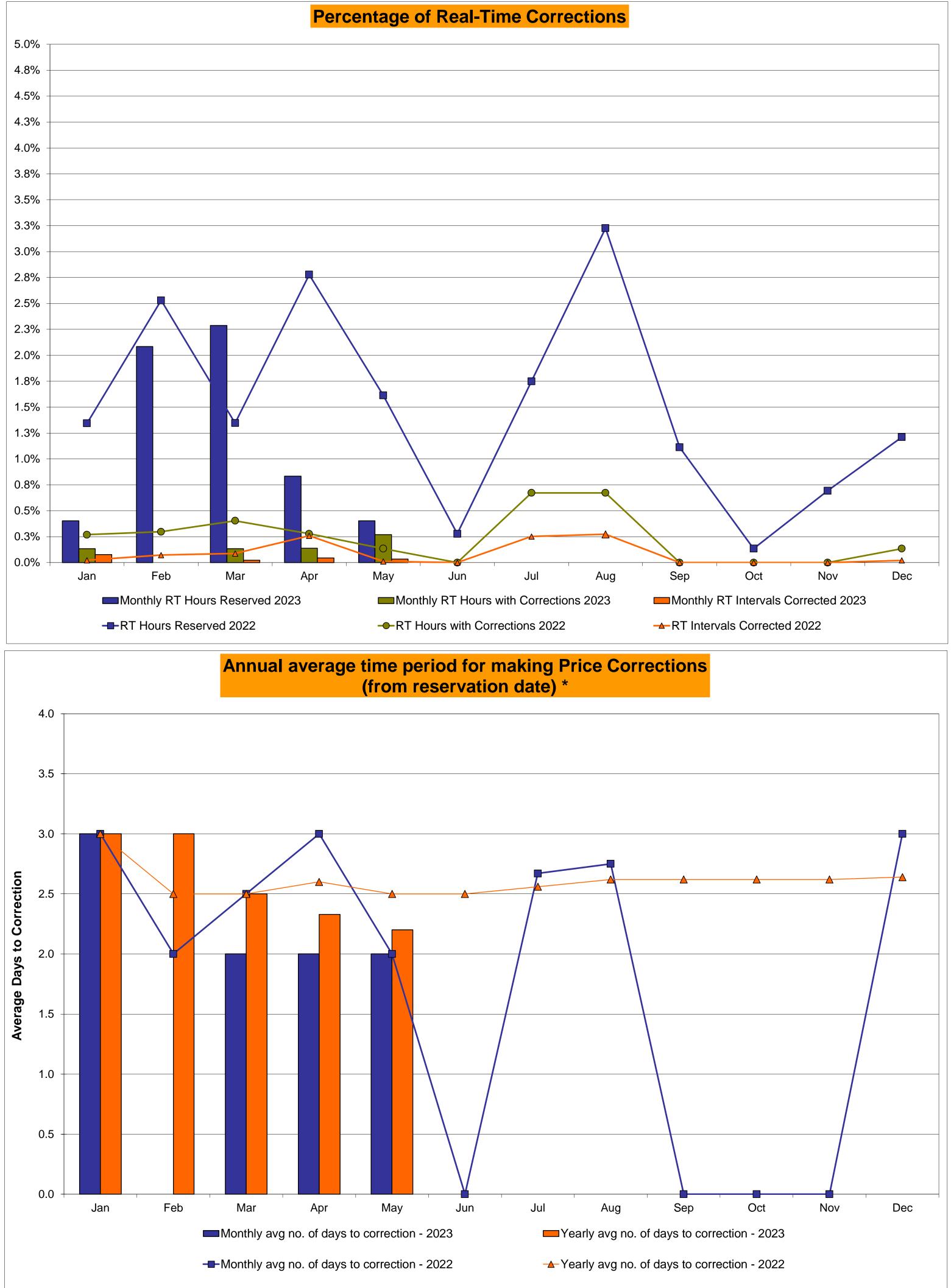


NYISO Real Time Price Correction Statistics

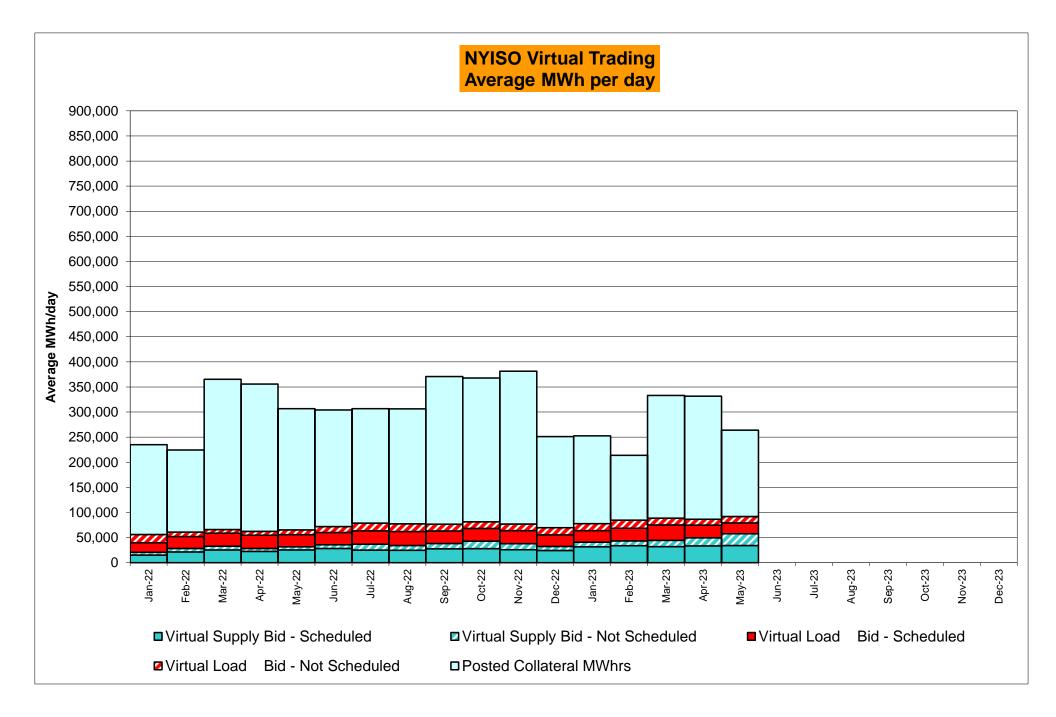
2023		<u>January</u>	February	March	<u>April</u>	May	<u>June</u>	<u>July</u>	<u>August</u>	<u>September</u>	<u>October</u>	November	<u>December</u>
Hour Corrections Number of hours with corrections	in the month	1	0	1	1	2							
Number of hours	in the month	744	672	743	720	2 744							
% of hours with corrections	in the month	0.13%	0.00%	0.13%	0.14%	0.27%							
78 of hours with corrections		0.1370	0.00%	0.1370	0.1470	0.2770							
% of hours with corrections	year-to-date	0.13%	0.07%	0.09%	0.10%	0.14%							
Interval Corrections													
Number of intervals corrected	in the month	7	0	2	4	3							
Number of intervals	in the month	9,082	8,373	9,171	8,890	9,160							
% of intervals corrected	in the month	0.08%	0.00%	0.02%	0.04%	0.03%							
% of intervals corrected	year-to-date	0.08%	0.04%	0.03%	0.04%	0.04%							
Hours Reserved													
Number of hours reserved	in the month	3	14	17	6	3							
Number of hours	in the month	744	672	743	720	744							
% of hours reserved	in the month	0.40%	2.08%	2.29%	0.83%	0.40%							
% of hours reserved	year-to-date	0.40%	1.20%	1.57%	1.39%	1.19%							
Days to Correction *	Jour to date	0.1070	112070	1.01 /0	110070	111070							
Avg. number of days to correction	in the month	3.00	0.00	2.00	2.00	2.00							
Avg. number of days to correction	year-to-date	3.00	3.00	2.50	2.33	2.20							
Days Without Corrections	Jee. 10 00.10		0.00										
Days without corrections	in the month	30	28	30	29	29							
Days without corrections	year-to-date	30	58	88	117	146							
, ,	,												
<u>2022</u>		<u>January</u>	February	March	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	<u>September</u>	<u>October</u>	November	December
2022 Hour Corrections		<u>January</u>	<u>February</u>	March	<u>April</u>	<u>May</u>	June	<u>July</u>	August	<u>September</u>	<u>October</u>	<u>November</u>	<u>December</u>
	in the month	<u>January</u> 2	<u>February</u> 2	<u>March</u> 3	<u>April</u> 2	<u>May</u> 1	<u>June</u> 0	<u>July</u> 5	<u>August</u> 5	<u>September</u> 0	<u>October</u> 0	<u>November</u> 0	<u>December</u> 1
Hour Corrections	in the month in the month					<u>May</u> 1 744		-					<u>December</u> 1 744
Hour Corrections Number of hours with corrections		2	2	3	2	1	0	5	5	0	0	0	1
Hour Corrections Number of hours with corrections Number of hours	in the month	2 744 0.27%	2 672	3 743 0.40%	2 720	1 744	0 720 0.00%	5 744 0.67%	5 744	0 720	0 744 0.00%	0 721	1 744 0.13%
Hour Corrections Number of hours with corrections Number of hours % of hours with corrections	in the month in the month	2 744	2 672 0.30%	3 743	2 720 0.28%	1 744 0.13%	0 720	5 744	5 744 0.67%	0 720 0.00%	0 744	0 721 0.00%	1 744
Hour Corrections Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections	in the month in the month	2 744 0.27%	2 672 0.30%	3 743 0.40%	2 720 0.28%	1 744 0.13%	0 720 0.00%	5 744 0.67%	5 744 0.67%	0 720 0.00%	0 744 0.00%	0 721 0.00%	1 744 0.13%
Hour Corrections Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections Interval Corrections	in the month in the month year-to-date	2 744 0.27% 0.27%	2 672 0.30% 0.28%	3 743 0.40% 0.32%	2 720 0.28% 0.31%	1 744 0.13%	0 720 0.00% 0.23%	5 744 0.67% 0.29%	5 744 0.67% 0.34%	0 720 0.00% 0.31%	0 744 0.00% 0.27%	0 721 0.00% 0.25%	1 744 0.13% 0.24%
Hour Corrections Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections Interval Corrections Number of intervals corrected	in the month in the month year-to-date in the month	2 744 0.27% <u>0.27%</u> 2	2 672 0.30% <u>0.28%</u> 6	3 743 0.40% <u>0.32%</u> 8	2 720 0.28% <u>0.31%</u> 23	1 744 0.13% <u>0.28%</u> 1	0 720 0.00% <u>0.23%</u> 0	5 744 0.67% <u>0.29%</u> 23	5 744 0.67% <u>0.34%</u> 25	0 720 0.00% <u>0.31%</u> 0	0 744 0.00% <u>0.27%</u> 0	0 721 0.00% <u>0.25%</u> 0	1 744 0.13% <u>0.24%</u> 2
Hour CorrectionsNumber of hours with correctionsNumber of hours% of hours with corrections% of hours with correctionsInterval CorrectionsNumber of intervals correctedNumber of intervals% of intervals corrected% of intervals corrected	in the month in the month year-to-date in the month in the month in the month	2 744 0.27% 0.27% 2 9,258 0.02%	2 672 0.30% <u>0.28%</u> 6 8,338 0.07%	3 743 0.40% 0.32% 8 9,118 0.09%	2 720 0.28% 0.31% 23 8,908 0.26%	1 744 0.13% <u>0.28%</u> 1 9,181 0.01%	0 720 0.00% 0.23% 0 8,864 0.00%	5 744 0.67% 0.29% 23 9,140 0.25%	5 744 0.67% 0.34% 25 9,145 0.27%	0 720 0.00% 0.31% 0 8,825 0.00%	0 744 0.00% 0.27% 0 9,097 0.00%	0 721 0.00% 0.25% 0 8,857 0.00%	1 744 0.13% <u>0.24%</u> 2 9,317 0.02%
Hour Corrections Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections Interval Corrections Number of intervals corrected Number of intervals % of intervals corrected % of intervals corrected % of intervals corrected	in the month in the month year-to-date in the month in the month	2 744 0.27% 0.27% 2 9,258	2 672 0.30% 0.28% 6 8,338	3 743 0.40% <u>0.32%</u> 8 9,118	2 720 0.28% 0.31% 23 8,908	1 744 0.13% <u>0.28%</u> 1 9,181	0 720 0.00% 0.23% 0 8,864	5 744 0.67% 0.29% 23 9,140	5 744 0.67% <u>0.34%</u> 25 9,145	0 720 0.00% 0.31% 0 8,825	0 744 0.00% <u>0.27%</u> 0 9,097	0 721 0.00% 0.25% 0 8,857	1 744 0.13% <u>0.24%</u> 2 9,317
Hour Corrections Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections Interval Corrections Number of intervals corrected Number of intervals % of intervals corrected % of intervals corrected % of intervals corrected Hours Reserved	in the month in the month year-to-date in the month in the month in the month year-to-date	2 744 0.27% 0.27% 2 9,258 0.02% 0.02%	2 672 0.30% 0.28% 6 8,338 0.07% 0.05%	3 743 0.40% 0.32% 8 9,118 0.09% 0.06%	2 720 0.28% 0.31% 23 8,908 0.26% 0.11%	1 744 0.13% <u>0.28%</u> 1 9,181 0.01% <u>0.09%</u>	0 720 0.00% 0.23% 0 8,864 0.00% 0.07%	5 744 0.67% 0.29% 23 9,140 0.25% 0.10%	5 744 0.67% <u>0.34%</u> 25 9,145 0.27% 0.12%	0 720 0.00% 0.31% 0 8,825 0.00% 0.11%	0 744 0.00% 0.27% 0 9,097 0.00%	0 721 0.00% 0.25% 0 8,857 0.00% 0.09%	1 744 0.13% <u>0.24%</u> 2 9,317 0.02% <u>0.08%</u>
Hour Corrections Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections Interval Corrections Number of intervals corrected Number of intervals % of intervals corrected % of intervals corrected % of intervals corrected % of intervals corrected Number of intervals corrected % of intervals corrected Number of hours reserved	in the month in the month year-to-date in the month in the month in the month year-to-date in the month	2 744 0.27% 0.27% 2 9,258 0.02% 0.02% 10	2 672 0.30% 0.28% 6 8,338 0.07% 0.05% 17	3 743 0.40% 0.32% 8 9,118 0.09% 0.06% 10	2 720 0.28% 0.31% 23 8,908 0.26% 0.11% 20	1 744 0.13% <u>0.28%</u> 1 9,181 0.01% <u>0.09%</u> 12	0 720 0.00% 0.23% 0 8,864 0.00% 0.07% 2	5 744 0.67% 0.29% 23 9,140 0.25% 0.10% 13	5 744 0.67% 0.34% 25 9,145 0.27% 0.12% 24	0 720 0.00% 0.31% 0 8,825 0.00% 0.11% 8	0 744 0.00% 0.27% 0 9,097 0.00% 0.10% 1	0 721 0.00% 0.25% 0 8,857 0.00% 0.09% 5	1 744 0.13% <u>0.24%</u> 2 9,317 0.02% <u>0.08%</u> 9
Hour Corrections Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections Interval Corrections Number of intervals corrected Number of intervals % of intervals corrected % of intervals corrected % of intervals corrected % of intervals corrected Number of hours reserved Number of hours	in the month in the month year-to-date in the month in the month in the month year-to-date in the month in the month	2 744 0.27% 0.27% 2 9,258 0.02% 0.02% 10 744	2 672 0.30% 0.28% 6 8,338 0.07% 0.05% 17 672	3 743 0.40% 0.32% 8 9,118 0.09% 0.06% 10 743	2 720 0.28% 0.31% 23 8,908 0.26% 0.11% 20 720	1 744 0.13% 0.28% 1 9,181 0.01% 0.09% 12 744	0 720 0.00% 0.23% 0 8,864 0.00% 0.07% 2 720	5 744 0.67% 0.29% 23 9,140 0.25% 0.10% 13 744	5 744 0.67% <u>0.34%</u> 25 9,145 0.27% 0.12% 24 744	0 720 0.00% 0.31% 0 8,825 0.00% 0.11% 8 720	0 744 0.00% 0.27% 0 9,097 0.00% 0.10% 1 744	0 721 0.00% 0.25% 0 8,857 0.00% 0.09% 5 721	1 744 0.13% <u>0.24%</u> 2 9,317 0.02% <u>0.08%</u> 9 744
Hour CorrectionsNumber of hours with correctionsNumber of hours% of hours with corrections% of hours with correctionsInterval CorrectionsInterval CorrectionsNumber of intervals correctedNumber of intervals% of intervals corrected% of intervals corrected% of intervals corrected% of intervals correctedMumber of hours reservedNumber of hours reservedNumber of hours% of hours reserved	in the month in the month year-to-date in the month in the month in the month year-to-date in the month in the month in the month in the month	2 744 0.27% 0.27% 2 9,258 0.02% 0.02% 10 744 1.34%	2 672 0.30% 0.28% 6 8,338 0.07% 0.05% 17 672 2.53%	3 743 0.40% 0.32% 8 9,118 0.09% 0.06% 10 743 1.35%	2 720 0.28% 0.31% 23 8,908 0.26% 0.11% 20 720 2.78%	1 744 0.13% 0.28% 1 9,181 0.01% 0.09% 12 744 1.61%	0 720 0.00% 0.23% 0 8,864 0.00% 0.07% 2 720 0.28%	5 744 0.67% 0.29% 23 9,140 0.25% 0.10% 13 744 1.75%	5 744 0.67% 0.34% 25 9,145 0.27% 0.12% 24 744 3.23%	0 720 0.00% 0.31% 0 8,825 0.00% 0.11% 8 720 1.11%	0 744 0.00% 0.27% 9,097 0.00% 0.10% 1 744 0.13%	0 721 0.00% 0.25% 0 8,857 0.00% 0.09% 5 721 0.69%	1 744 0.13% <u>0.24%</u> 2 9,317 0.02% <u>0.08%</u> 9 744 1.21%
Hour CorrectionsNumber of hours with correctionsNumber of hours% of hours with corrections% of hours with correctionsInterval CorrectionsNumber of intervals correctedNumber of intervals corrected% of intervals corrected% of intervals corrected% of intervals correctedMumber of hours reservedNumber of hours reservedNumber of hours reserved% of hours reserved	in the month in the month year-to-date in the month in the month in the month year-to-date in the month in the month	2 744 0.27% 0.27% 2 9,258 0.02% 0.02% 10 744	2 672 0.30% 0.28% 6 8,338 0.07% 0.05% 17 672	3 743 0.40% 0.32% 8 9,118 0.09% 0.06% 10 743	2 720 0.28% 0.31% 23 8,908 0.26% 0.11% 20 720	1 744 0.13% 0.28% 1 9,181 0.01% 0.09% 12 744	0 720 0.00% 0.23% 0 8,864 0.00% 0.07% 2 720	5 744 0.67% 0.29% 23 9,140 0.25% 0.10% 13 744	5 744 0.67% <u>0.34%</u> 25 9,145 0.27% 0.12% 24 744	0 720 0.00% 0.31% 0 8,825 0.00% 0.11% 8 720	0 744 0.00% 0.27% 0 9,097 0.00% 0.10% 1 744	0 721 0.00% 0.25% 0 8,857 0.00% 0.09% 5 721	1 744 0.13% <u>0.24%</u> 2 9,317 0.02% <u>0.08%</u> 9 744
Hour Corrections Number of hours with corrections Number of hours with corrections % of hours with corrections % of hours with corrections Interval Corrections Interval Corrections Number of intervals corrected Number of intervals corrected % of intervals corrected % of intervals corrected % of intervals corrected Number of hours reserved Number of hours reserved % of hours reserved	in the month in the month year-to-date in the month in the month in the month year-to-date in the month in the month in the month year-to-date	2 744 0.27% 0.27% 2 9,258 0.02% 0.02% 10 744 1.34% 1.34%	2 672 0.30% 0.28% 6 8,338 0.07% 0.05% 17 672 2.53% 1.91%	3 743 0.40% 0.32% 8 9,118 0.09% 0.06% 10 743 1.35% 1.71%	2 720 0.28% 0.31% 23 8,908 0.26% 0.11% 20 720 2.78% 1.98%	1 744 0.13% 0.28% 1 9,181 0.01% 0.09% 12 744 1.61% 1.90%	0 720 0.00% 0.23% 0 8,864 0.00% 0.07% 2 720 0.28% 1.63%	5 744 0.67% 0.29% 23 9,140 0.25% 0.10% 13 744 1.75% 1.65%	5 744 0.67% 0.34% 25 9,145 0.27% 0.12% 24 744 3.23% 1.85%	0 720 0.00% 0.31% 0 8,825 0.00% 0.11% 8 720 1.11% 1.77%	0 744 0.00% 0.27% 0 9,097 0.00% 0.10% 1 744 0.13% 1.60%	0 721 0.00% 0.25% 0 8,857 0.00% 0.09% 5 721 0.69% 1.52%	1 744 0.13% <u>0.24%</u> 2 9,317 0.02% <u>0.08%</u> 9 744 1.21% 1.50%
Hour Corrections Number of hours with corrections Number of hours with corrections % of hours with corrections % of hours with corrections Interval Corrections Number of intervals corrected Number of intervals corrected % of intervals corrected % of intervals corrected % of intervals corrected % of intervals corrected Number of hours reserved Number of hours reserved % of hours reserved	in the month in the month year-to-date in the month in the month in the month year-to-date in the month in the month in the month in the month in the month	2 744 0.27% 0.27% 2 9,258 0.02% 0.02% 10 744 1.34% 1.34% 1.34% 3.00	2 672 0.30% 0.28% 6 8,338 0.07% 0.05% 17 672 2.53% 1.91% 2.00	3 743 0.40% 0.32% 8 9,118 0.09% 0.06% 10 743 1.35% 1.71% 2.50	2 720 0.28% 0.31% 23 8,908 0.26% 0.11% 20 720 2.78% 1.98% 3.00	1 744 0.13% 0.28% 1 9,181 0.01% 0.09% 12 744 1.61% 1.90% 2.00	0 720 0.00% 0.23% 0 8,864 0.00% 0.07% 2 720 0.28% 1.63% 0.00	5 744 0.67% 0.29% 23 9,140 0.25% 0.10% 13 744 1.75% 1.65% 2.67	5 744 0.67% 0.34% 25 9,145 0.27% 0.12% 24 744 3.23% 1.85% 2.75	0 720 0.00% 0.31% 0 8,825 0.00% 0.11% 0.11% 1.11% 1.77% 0.00	0 744 0.00% 0.27% 0 9,097 0.00% 0.10% 1 744 0.13% 1.60% 0.00	0 721 0.00% 0.25% 0 8,857 0.00% 0.09% 5 721 0.69% 1.52% 0.00	1 744 0.13% 0.24% 2 9,317 0.02% 0.08% 9 744 1.21% 1.50% 3.00
Hour Corrections Number of hours with corrections Number of hours with corrections % of hours with corrections % of hours with corrections Interval Corrections Number of intervals corrected Number of intervals corrected % of intervals corrected % of intervals corrected % of intervals corrected % of intervals corrected Number of hours reserved Number of hours reserved % of hours reserved 0 0 0 0 0 0 0 0	in the month in the month year-to-date in the month in the month in the month year-to-date in the month in the month in the month year-to-date	2 744 0.27% 0.27% 2 9,258 0.02% 0.02% 10 744 1.34% 1.34%	2 672 0.30% 0.28% 6 8,338 0.07% 0.05% 17 672 2.53% 1.91%	3 743 0.40% 0.32% 8 9,118 0.09% 0.06% 10 743 1.35% 1.71%	2 720 0.28% 0.31% 23 8,908 0.26% 0.11% 20 720 2.78% 1.98%	1 744 0.13% 0.28% 1 9,181 0.01% 0.09% 12 744 1.61% 1.90%	0 720 0.00% 0.23% 0 8,864 0.00% 0.07% 2 720 0.28% 1.63%	5 744 0.67% 0.29% 23 9,140 0.25% 0.10% 13 744 1.75% 1.65%	5 744 0.67% 0.34% 25 9,145 0.27% 0.12% 24 744 3.23% 1.85%	0 720 0.00% 0.31% 0 8,825 0.00% 0.11% 8 720 1.11% 1.77%	0 744 0.00% 0.27% 0 9,097 0.00% 0.10% 1 744 0.13% 1.60%	0 721 0.00% 0.25% 0 8,857 0.00% 0.09% 5 721 0.69% 1.52%	1 744 0.13% <u>0.24%</u> 2 9,317 0.02% <u>0.08%</u> 9 744 1.21% 1.50%
Hour CorrectionsNumber of hours with correctionsNumber of hours% of hours with corrections% of hours with correctionsInterval CorrectionsInterval CorrectionsNumber of intervals correctedNumber of intervals corrected% of intervals corrected% of intervals correctedMumber of hours reservedNumber of hours reservedNumber of hours reserved% of hours reservedDays to Correction *Avg. number of days to correctionAvg. number of days to correctionAvg. number of days to correction	in the month in the month year-to-date in the month in the month in the month year-to-date in the month in the month year-to-date in the month year-to-date	2 744 0.27% 0.27% 0.27% 2 9,258 0.02% 0.02% 0.02% 10 744 1.34% 1.34% 1.34% 3.00 3.00	2 672 0.30% 0.28% 6 8,338 0.07% 0.05% 17 672 2.53% 1.91% 2.00 2.50	3 743 0.40% 0.32% 8 9,118 0.09% 0.06% 10 743 1.35% 1.71% 2.50 2.50	2 720 0.28% 0.31% 23 8,908 0.26% 0.11% 20 720 2.78% 1.98% 3.00 2.60	1 744 0.13% 0.28% 1 9,181 0.01% 0.09% 12 744 1.61% 1.90% 2.00 2.50	0 720 0.00% 0.23% 0 8,864 0.00% 0.07% 2 720 0.28% 1.63% 0.00 2.50	5 744 0.67% 0.29% 23 9,140 0.25% 0.10% 13 744 1.75% 1.65% 2.67 2.56	5 744 0.67% 0.34% 25 9,145 0.27% 0.12% 24 744 3.23% 1.85% 2.75 2.62	0 720 0.00% 0.31% 0 8,825 0.00% 0.11% 0.00% 1.11% 1.77% 0.00 2.62	0 744 0.00% 0.27% 0 9,097 0.00% 0.10% 1 744 0.13% 1.60% 0.00 2.62	0 721 0.00% 0.25% 0 8,857 0.00% 0.09% 5 721 0.69% 1.52% 0.00 2.62	1 744 0.13% 0.24% 2 9,317 0.02% 0.08% 9 744 1.21% 1.50% 3.00 2.64
Hour Corrections Number of hours with corrections Number of hours with corrections % of hours with corrections % of hours with corrections Interval Corrections Number of intervals corrected Number of intervals corrected % of intervals corrected % of intervals corrected % of intervals corrected % of intervals corrected Number of hours reserved Number of hours reserved % of hours reserved 0 0 0 0 0 0 0 0	in the month in the month year-to-date in the month in the month in the month year-to-date in the month in the month in the month in the month in the month	2 744 0.27% 0.27% 2 9,258 0.02% 0.02% 10 744 1.34% 1.34% 1.34% 3.00	2 672 0.30% 0.28% 6 8,338 0.07% 0.05% 17 672 2.53% 1.91% 2.00	3 743 0.40% 0.32% 8 9,118 0.09% 0.06% 10 743 1.35% 1.71% 2.50	2 720 0.28% 0.31% 23 8,908 0.26% 0.11% 20 720 2.78% 1.98% 3.00	1 744 0.13% 0.28% 1 9,181 0.01% 0.09% 12 744 1.61% 1.90% 2.00	0 720 0.00% 0.23% 0 8,864 0.00% 0.07% 2 720 0.28% 1.63% 0.00	5 744 0.67% 0.29% 23 9,140 0.25% 0.10% 13 744 1.75% 1.65% 2.67	5 744 0.67% 0.34% 25 9,145 0.27% 0.12% 24 744 3.23% 1.85% 2.75	0 720 0.00% 0.31% 0 8,825 0.00% 0.11% 0.11% 1.11% 1.77% 0.00	0 744 0.00% 0.27% 0 9,097 0.00% 0.10% 1 744 0.13% 1.60% 0.00	0 721 0.00% 0.25% 0 8,857 0.00% 0.09% 5 721 0.69% 1.52% 0.00	1 744 0.13% 0.24% 2 9,317 0.02% 0.08% 9 744 1.21% 1.50% 3.00

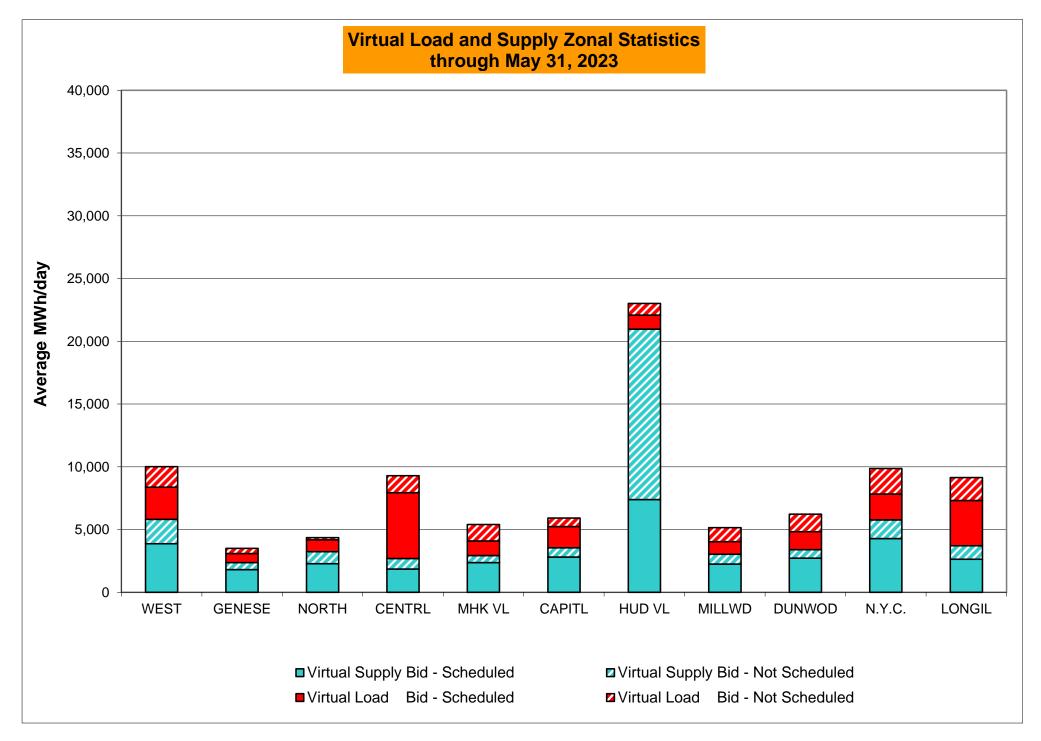
*Calendar days from reservation date; for June 2018 forward, business days from market date

May/June 2017 Hours Reserved data has been updated for the July 2017 Monthly Market Operations Report.



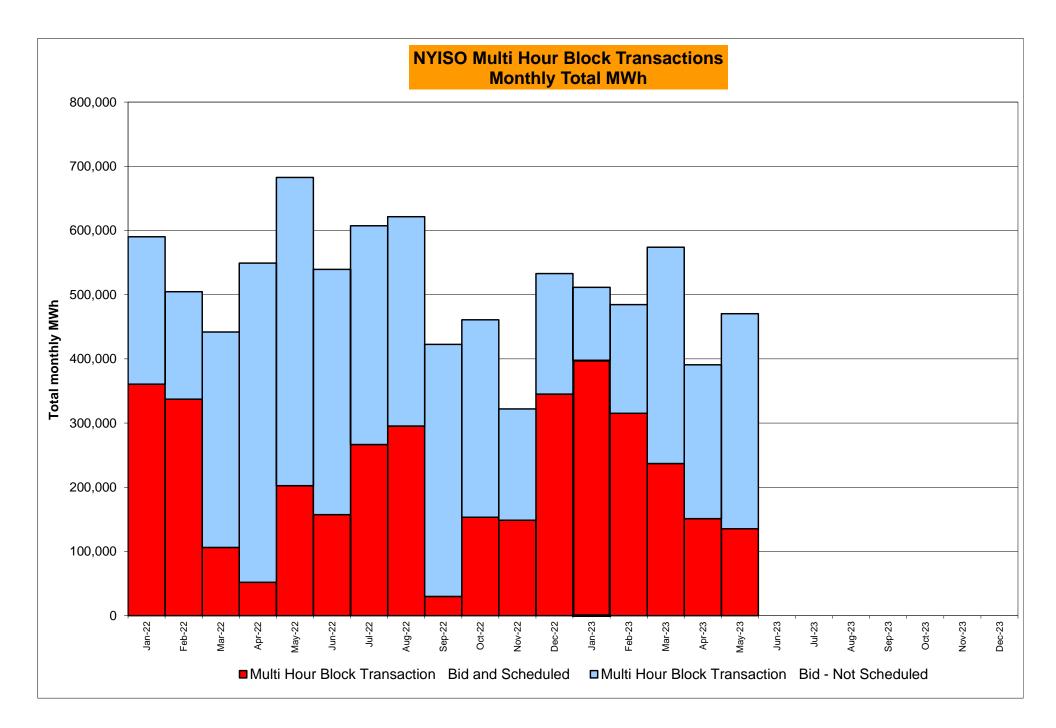
*Calendar days from reservation date; for June 2018 forward, business days from market date

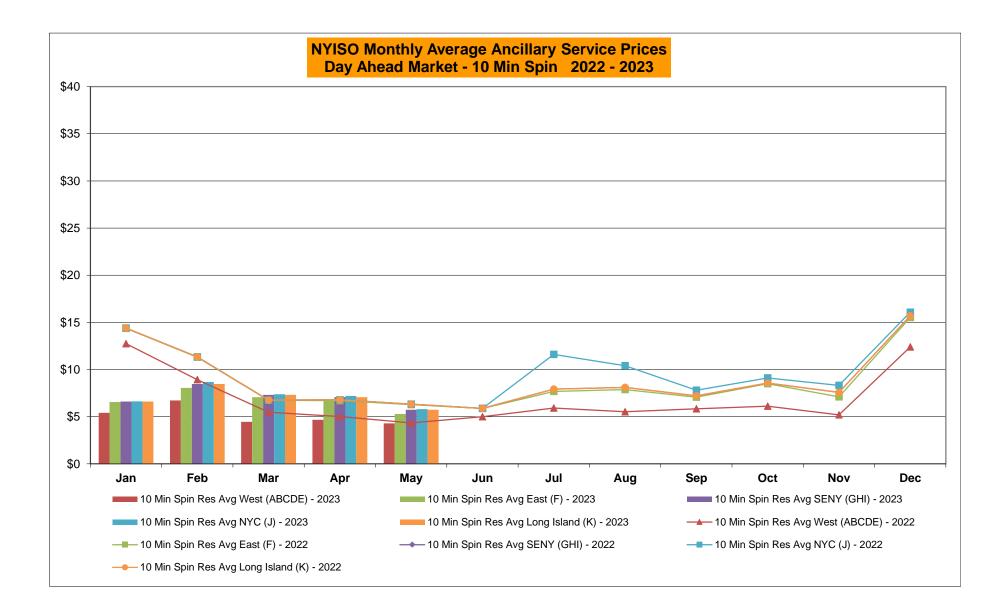


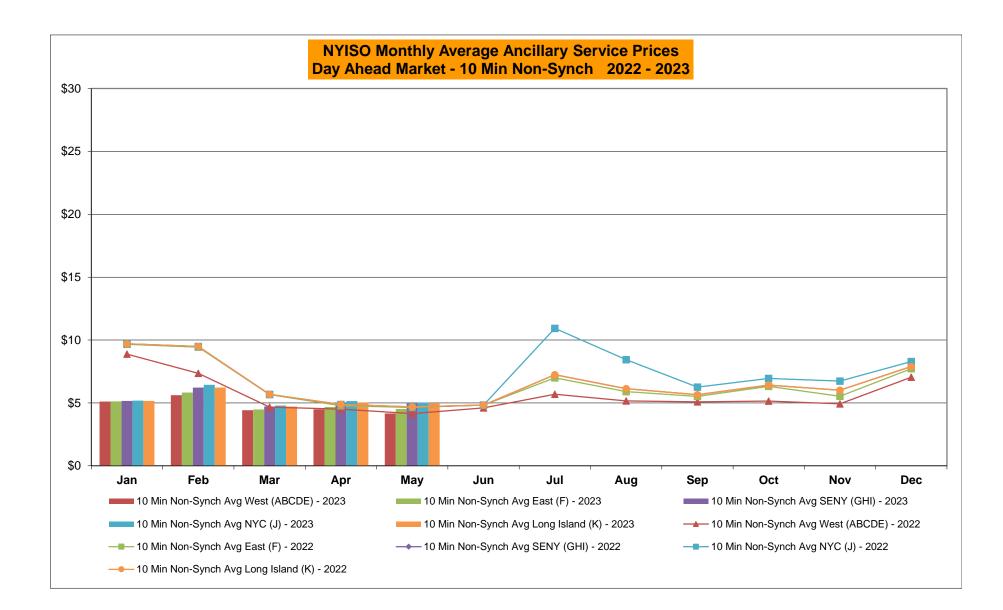


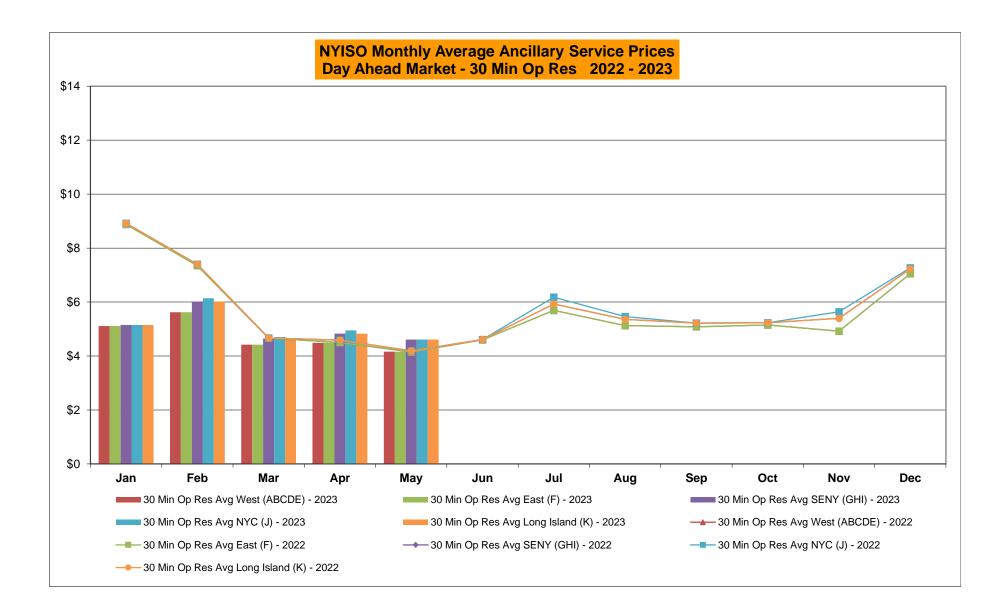
Virtual Load and Supply Zonal Statistics (Average MWh/day) - 2023

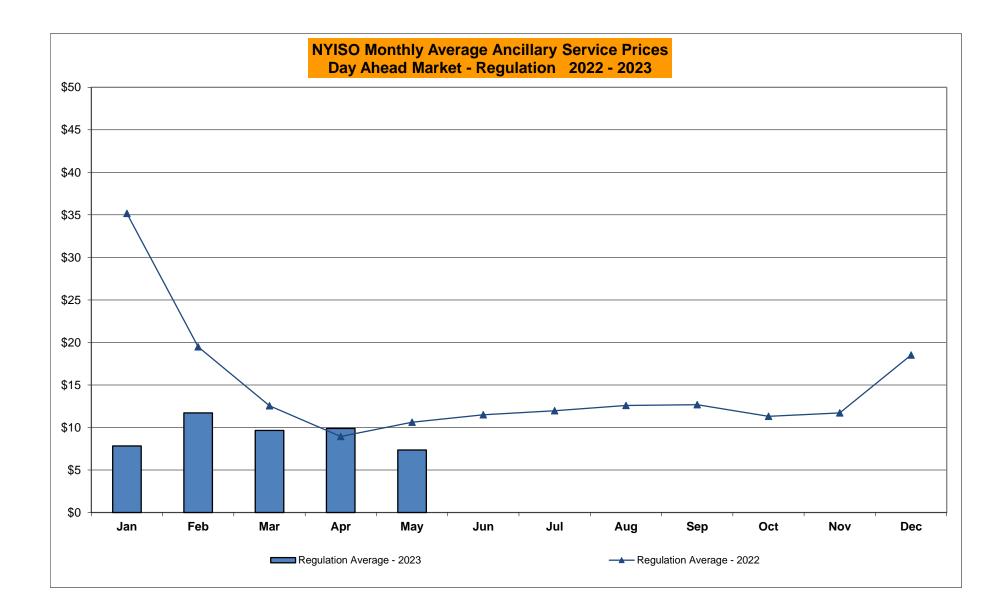
		Virtual L	oad Bid	Virtual Su	upply Bid			Virtual L		Virtual Su	apply Bid			Virtual L		Virtual Su	upply Bid
			Not		Not				Not		Not				Not		Not
Zone	Date	Scheduled	Scheduled	Scheduled	Scheduled	Zone	Date	Scheduled	Scheduled	Scheduled	Scheduled	Zone	Date		Scheduled	Scheduled	
WEST	Jan-23	3,364	1,605		1,026	MHK VL	Jan-23			1,590	558	DUNWOD	Jan-23		1,623	1,884	
	Feb-23	2,266			1,270		Feb-23			2,484	436		Feb-23		1,793	2,082	
	Mar-23	3,318			2,062		Mar-23		829	1,488	1,135		Mar-23	2,505	1,556	2,093	
	Apr-23	2,407 2,572	1,561 1,636		1,245 1,941		Apr-23		841 1,312	1,556 2,365	450 567		Apr-23	1,941 1,434	1,615 1,391	1,682 2,719	
	May-23 Jun-23	2,572	1,030	3,000	1,941		May-23 Jun-23	,	1,312	2,300	100		May-23 Jun-23	,	1,391	2,719	000
	Jul-23						Jul-23						Jul-23				
	Aug-23						Aug-23						Aug-23				
	Sep-23						Sep-23						Sep-23				
	Oct-23					_	Oct-23						Oct-23				
	Nov-23						Nov-23						Nov-23				
	Dec-23						Dec-23						Dec-23				
	200 20						200 20						200 20				
GENESE	Jan-23	1,005			255	CAPITL	Jan-23	1,762	834	1,824	917	N.Y.C.	Jan-23	2,674	2,287	4,516	977
	Feb-23	1,136	523	1,480	586		Feb-23	1,902	1,166	2,655	729		Feb-23	2,663	2,398	3,564	1,126
	Mar-23	835			905		Mar-23		1,595	2,454	594		Mar-23	2,230	2,393	4,646	
	Apr-23	982			584		Apr-23		960	2,303	695		Apr-23	2,032	1,683	3,490	,
	May-23	721	408	1,807	568		May-23		681	2,810	736		May-23	2,063	2,034	4,284	1,488
	Jun-23						Jun-23						Jun-23				
	Jul-23						Jul-23						Jul-23				
	Aug-23						Aug-23						Aug-23				
	Sep-23						Sep-23						Sep-23				
	Oct-23						Oct-23						Oct-23				
	Nov-23						Nov-23						Nov-23				
	Dec-23						Dec-23						Dec-23				
NORTH	Jan-23	1,246	284	2,910	1,072	HUD VL	Jan-23	835	1,168	5,672	1,513	LONGIL	Jan-23	4,119	2,358	2,370	1,687
	Feb-23	1,111	302		1,432		Feb-23		1,484	5,382	1,297		Feb-23	4,408	2,440	2,494	1,130
	Mar-23	789			1,395		Mar-23		1,049	5,815			Mar-23		1,753	1,778	
	Apr-23			,	854		Apr-23		,	8,301	7,864		Apr-23		1,401	2,087	
	May-23	938			964		May-23		937	7,383	13,585		May-23		1,817	2,640	
	Jun-23						Jun-23						Jun-23				
	Jul-23						Jul-23						Jul-23				
	Aug-23						Aug-23						Aug-23				
	Sep-23						Sep-23						Sep-23				
	Oct-23						Oct-23						Oct-23				
	Nov-23						Nov-23						Nov-23				
	Dec-23						Dec-23						Dec-23				
CENTRL	Jan-23	5,294	1,193	1,715	563	MILLWD	Jan-23	649	1,103	2,019	278	NYISO	Jan-23	23,122	13,963	31,494	9,165
GENTRL	Feb-23	<u>5,294</u> 6,851	1,193		703		Feb-23			2,019	434	11130	Feb-23		16,118	33,885	
	Mar-23	6,340			1,520	_	Mar-23		992	1,938	736		Mar-23	30,654	13,262	32,086	
	Apr-23	6,824	914		855	_	Apr-23		853	1,566			Apr-23		11,752		
	May-23	5,246			830		May-23			2,250	784		May-23		12,874		
	Jun-23	5,240	1,007	1,000			Jun-23		1,113	2,200			Jun-23		.2,014	01,200	20,210
	Jul-23					—	Jul-23						Jul-23				
	Aug-23					—	Aug-23						Aug-23				
	Sep-23						Sep-23						Sep-23				
	Oct-23						Oct-23						Oct-23				
	Nov-23						Nov-23						Nov-23				
	Dec-23						Dec-23						Dec-23				

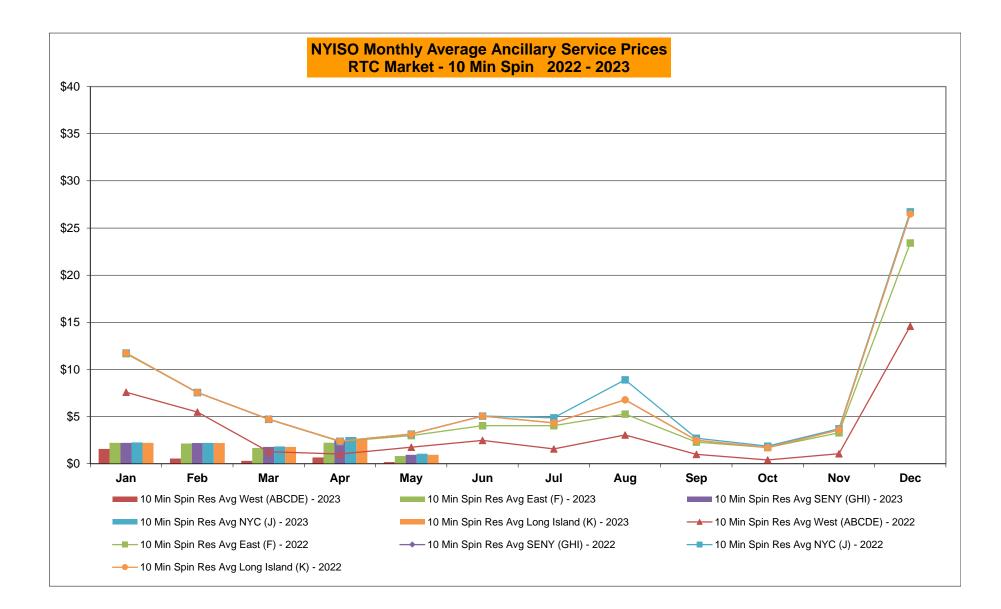


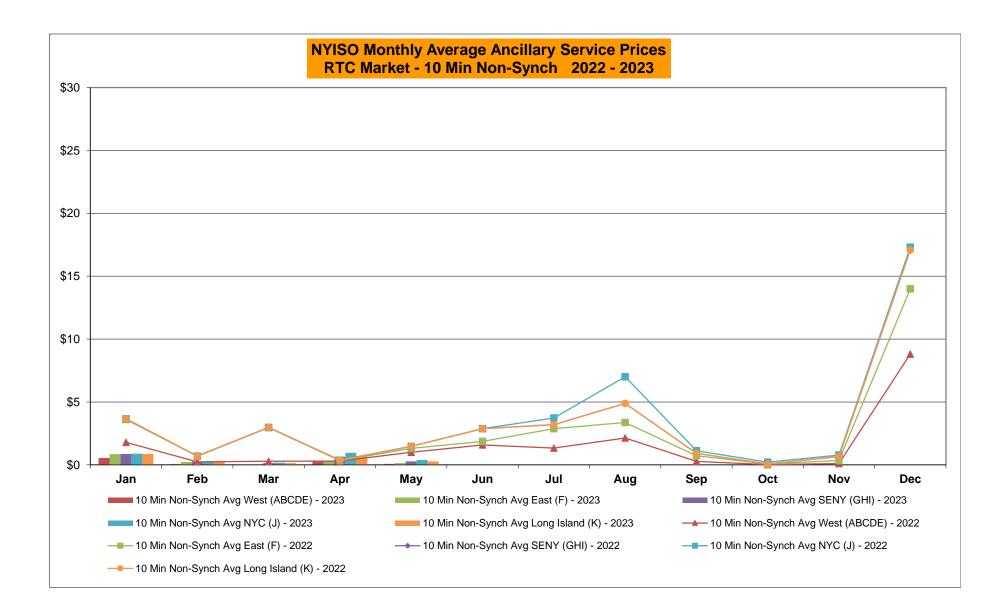


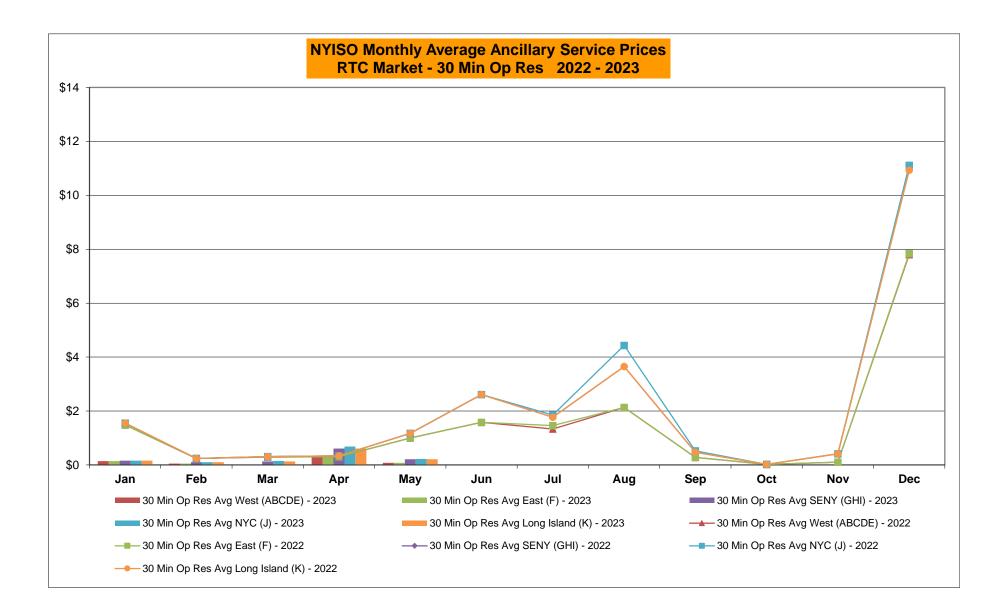


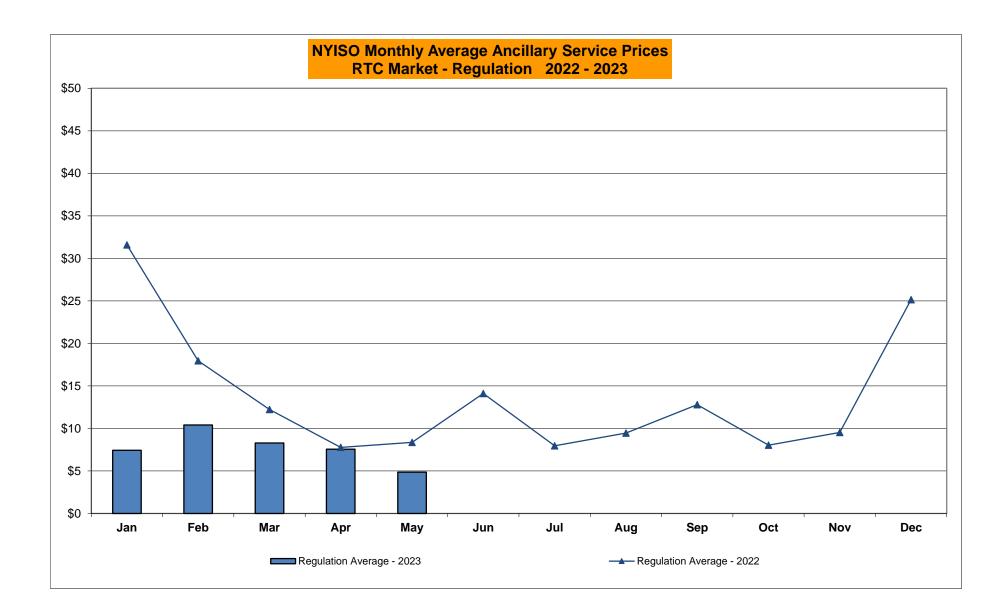


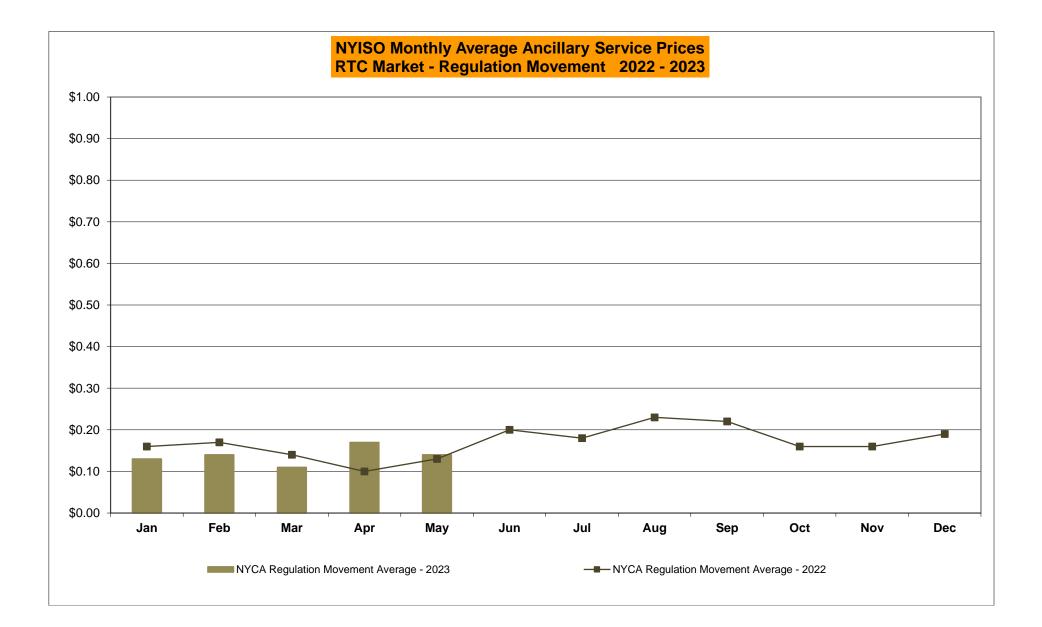


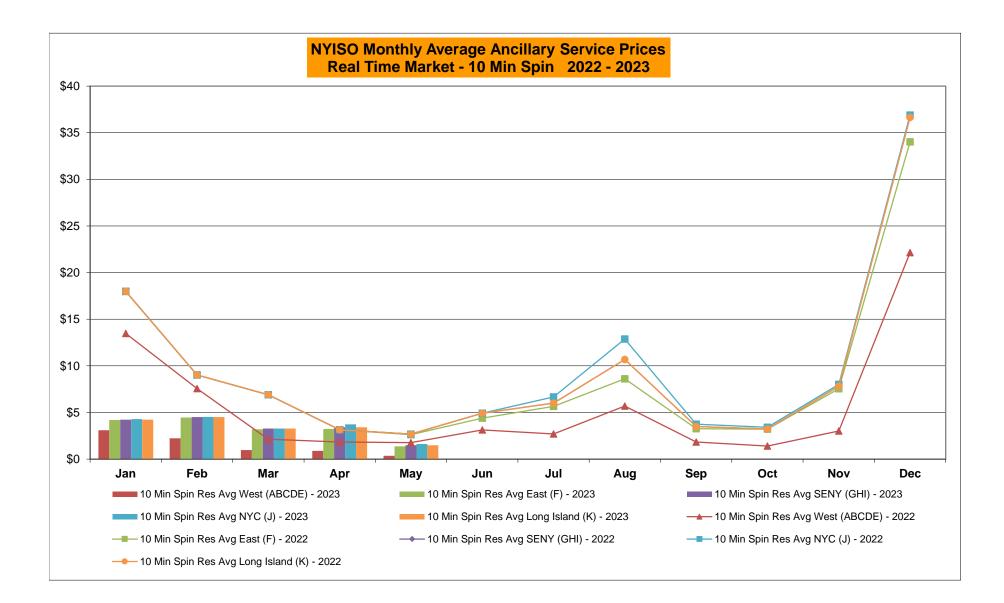


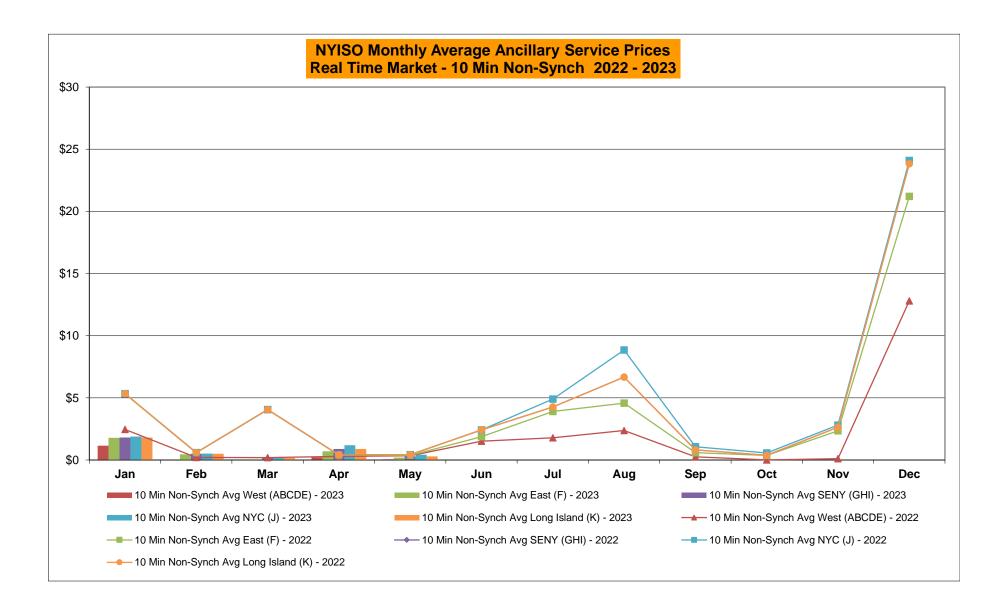


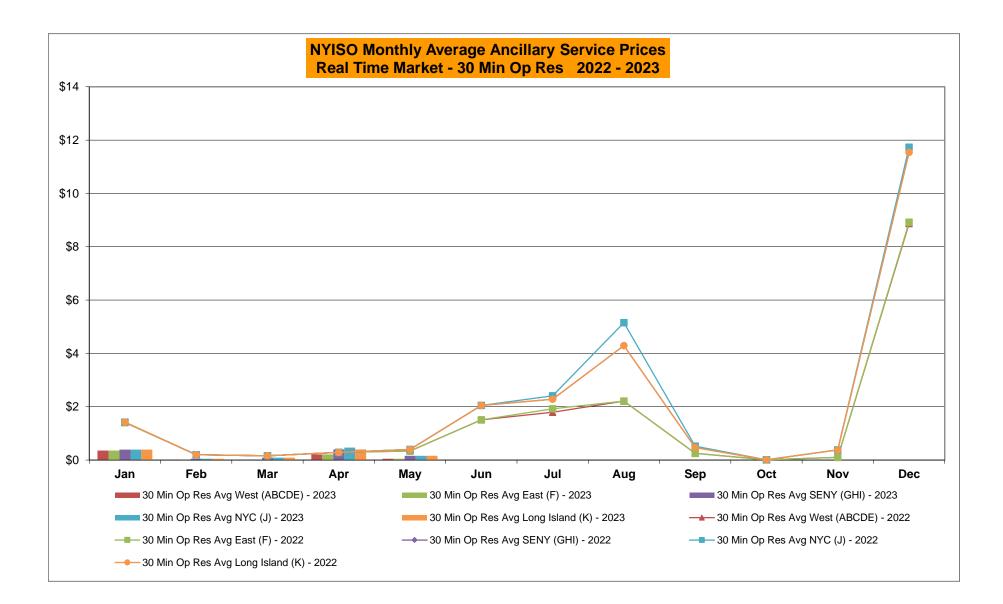


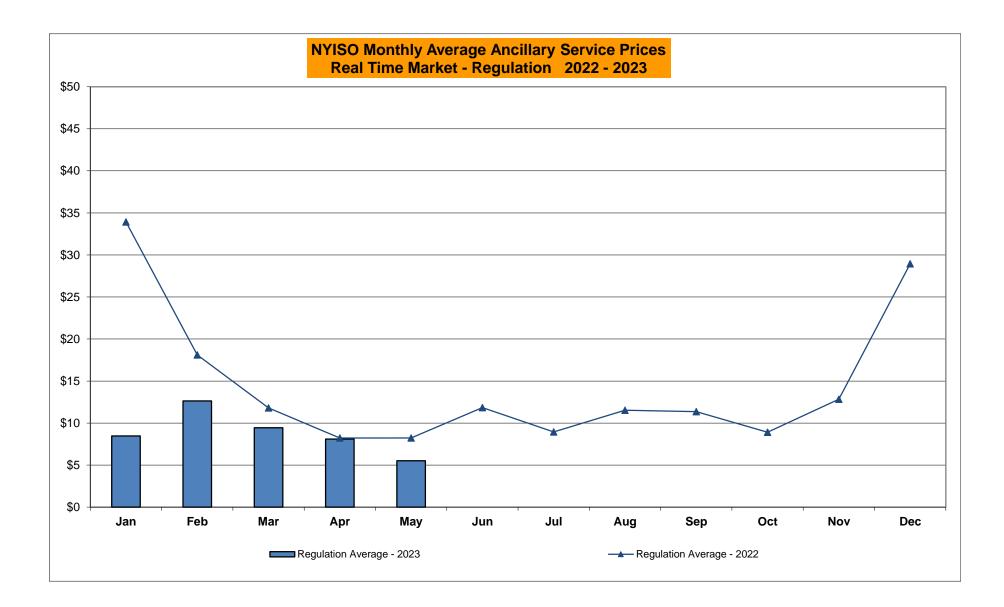


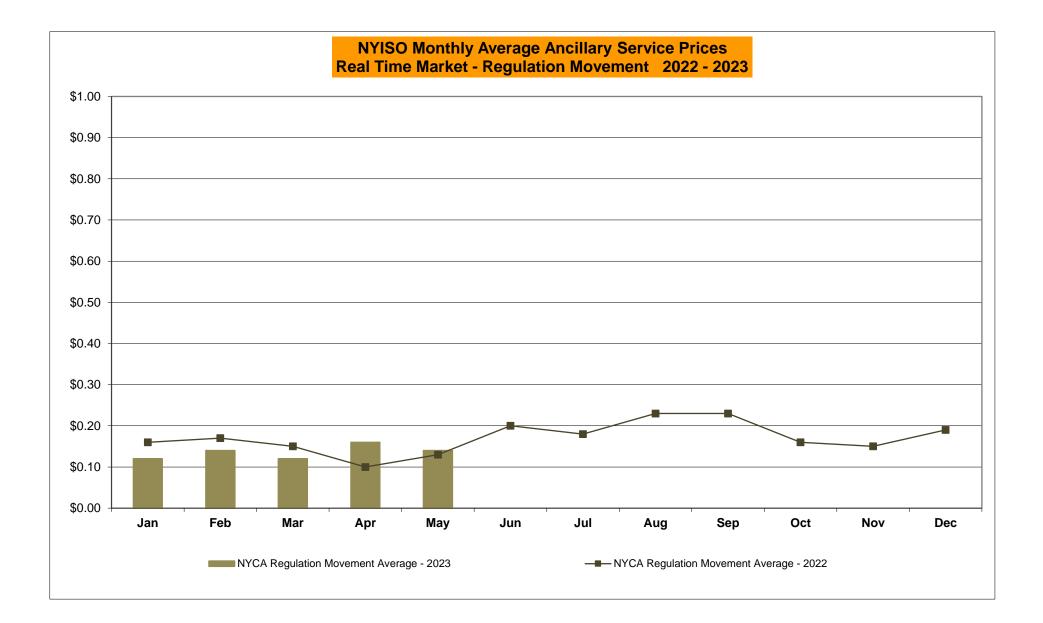












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<u>2023</u>	January	<u>February</u>	March	<u>April</u>	May	<u>June</u>	July	<u>August</u>	<u>September</u>	<u>(</u>
Day Ahead Market										
10 Min Spin Long Island (K)	6.60	8.46	7.31	7.07	5.74					
10 Min Spin NYC (J)	6.63	8.68	7.38	7.20	5.81					
10 Min Spin SENY (GHI)	6.60	8.46	7.31	7.07	5.74					
10 Min Spin East (F)	6.56	8.06	7.07	6.73	5.30					
10 Min Spin West (ABCDE)	5.41	6.73	4.45	4.67	4.29					
10 Min Non Synch Long Island (K)	5.16	6.22	4.72	5.02	4.97					
10 Min Non Synch NYC (J)	5.18	6.44	4.79	5.15	5.04					
10 Min Non Synch SENY (GHI)	5.16	6.22	4.72	5.02	4.97					
10 Min Non Synch East (F)	5.12	5.82	4.48	4.68	4.52					
10 Min Non Synch West (ABCDE)	5.11	5.62	4.42	4.49	4.16					
30 Min Long Island (K)	5.15	6.02	4.65	4.83	4.61					
30 Min NYC (J)	5.15	6.14	4.70	4.95	4.61					
30 Min SENY (GHI)	5.15	6.02	4.65	4.83	4.61					
30 Min East (F)	5.11	5.62	4.42	4.49	4.16					
30 Min West (ABCDE)	5.11	5.62	4.42	4.49	4.16					
Regulation	7.82	11.71	9.65	9.88	7.36					
<u>2022</u>	January	<u>February</u>	March	<u>April</u>	May	<u>June</u>	<u>July</u>	<u>August</u>	<u>September</u>	C
Day Ahead Market	<u>odindary</u>	<u>r cordary</u>	<u>Indi chi</u>	April	<u>iviay</u>	<u>ounc</u>	<u>oury</u>	August	ocpteriber	<u> </u>
10 Min Spin Long Island (K)	14.40	11.34	6.76	6.79	6.32	5.88	7.92	8.10	7.22	
10 Min Spin NYC (J)	15.32	12.52	7.29	6.80	7.01	6.12	11.61	10.41	7.81	
10 Min Spin SENY (GHI)	14.40	11.34	6.76	6.79	6.32	5.88	7.92	8.10	7.22	
10 Min Spin East (F)	14.37	11.30	6.74	6.70	6.28	5.87	7.68	7.88	7.07	
10 Min Spin West (ABCDE)	12.74	8.93	5.48	5.01	4.34	4.99	5.91	5.53	5.84	
10 Min Non Synch Long Island (K)	9.70	9.48	5.68	4.87	4.68	4.83	7.24	6.13	5.65	
10 Min Non Synch NYC (J)	10.61	10.66	6.20	4.89	5.38	5.07	10.93	8.44	6.25	
10 Min Non Synch SENY (GHI)	9.70	9.48	5.68	4.87	4.68	4.83	7.24	6.13	5.65	
10 Min Non Synch East (F)	9.66	9.44	5.66	4.78	4.64	4.82	7.00	5.90	5.51	
10 Min Non Synch West (ABCDE)	8.88	7.35	4.66	4.50	4.15	4.60	5.69	5.16	5.08	
30 Min Long Island (K)	8.92	7.40	4.67	4.59	4.19	4.61	5.93	5.36	5.22	
30 Min NYC (J)	8.95	7.42	4.67	4.59	4.21	4.61	6.18	5.46	5.22	
30 Min SENY (GHI)	8.92	7.40	4.67	4.59	4.19	4.61	5.93	5.36	5.22	
30 Min East (F)	8.88	7.35	4.66	4.50	4.15	4.60	5.69	5.13	5.08	
30 Min West (ABCDE)	8.88	7.35	4.66	4.50	4.15	4.60	5.69	5.13	5.08	
Regulation	35.17	19.48	12.56	8.94	10.61	11.49	11.96	12.58	12.68	
C C						-				

NYISO Markets Ancillary Services Statistics - Unweighted Price (\$/MWH) - DAM

<u>October</u>

November

<u>December</u>

<u>October</u>	<u>November</u>	<u>December</u>
8.57	7.57	15.69
9.10	8.31	16.08
8.57	7.57	15.69
8.49	7.10	15.51
6.11	5.20	12.39
6.41	6.01	7.90
6.94	6.74	8.29
6.41	6.01	7.90
6.32	5.53	7.72
5.15	4.92	7.05
5.23	5.40	7.23
5.23	5.64	7.27
5.23	5.40	7.23
5.15	4.92	7.05
5.15	4.92	7.05
11.31	11.72	18.51

	NYISO Mark	<u>kets Anci</u>	Ilary Serv	vices Sta	tistics -	Unweigh	ted Pric	e (\$/M	<u> </u>	<u> </u>
2023	January	February	March	<u>April</u>	May	June	<u>July</u>	<u>August</u>	<u>September</u>	<u>C</u>
RTC Market	<u>j</u>	<u>· · · · · · · · · · · · · · · · · · · </u>		<u> </u>	<u></u>	<u></u>	<u></u>	<u></u>	<u></u>	-
10 Min Spin Long Island (K)	2.22	2.19	1.79	2.55	0.95					
10 Min Spin NYC (J)	2.26	2.21	1.83	2.84	1.07					
10 Min Spin SENY (GHI)	2.22	2.19	1.79	2.55	0.95					
10 Min Spin East (F)	2.21	2.15	1.67	2.23	0.82					
10 Min Spin West (ABCDE)	1.57	0.56	0.30	0.67	0.17					
10 Min Non Synch Long Island (K)	0.86	0.26	0.14	0.65	0.27					
10 Min Non Synch NYC (J)	0.89	0.27	0.18	0.95	0.39					
10 Min Non Synch SENY (GHI)	0.86	0.26	0.14	0.65	0.27					
10 Min Non Synch East (F)	0.85	0.22	0.02	0.34	0.14					
10 Min Non Synch West (ABCDE)	0.54	0.05	0.00	0.29	0.08					
30 Min Long Island (K)	0.16	0.10	0.13	0.61	0.21					
30 Min NYC (J)	0.16	0.10	0.15	0.68	0.22					
30 Min SENY (GHI)	0.16	0.10	0.13	0.61	0.21					
30 Min East (F)	0.14	0.05	0.00	0.29	0.08					
30 Min West (ABCDE)	0.14	0.05	0.00	0.29	0.08					
Regulation	7.44	10.40	8.29	7.55	4.86					
NYCA Regulation Movement	0.13	0.14	0.11	0.17	0.14					
<u>2022</u>	January	<u>February</u>	March	<u>April</u>	May	<u>June</u>	<u>July</u>	<u>August</u>	<u>September</u>	<u>C</u>
RTC Market										
10 Min Spin Long Island (K)	11.75	7.55	4.73	2.39	3.15	5.06	4.34	6.79	2.49	
10 Min Spin NYC (J)	11.75	7.81	4.92	2.53	3.72	5.51	4.88	8.90	2.71	
10 Min Spin SENY (GHI)	11.75	7.55	4.73	2.39	3.15	5.06	4.34	6.79	2.49	
10 Min Spin East (F)	11.68	7.55	4.71	2.36	2.98	4.03	4.03	5.27	2.29	
10 Min Spin West (ABCDE)	7.59	5.49	1.27	1.03	1.75	2.47	1.58	3.05	0.99	
10 Min Non Synch Long Island (K)	3.67	0.69	2.97	0.37	1.47	2.88	3.19	4.89	0.92	
10 Min Non Synch NYC (J)	3.67	0.95	3.16	0.51	2.04	3.34	3.73	7.00	1.13	
10 Min Non Synch SENY (GHI)	3.67	0.69	2.97	0.37	1.47	2.88	3.19	4.89	0.92	
10 Min Non Synch East (F)	3.60	0.69	2.96	0.33	1.31	1.86	2.88	3.37	0.72	
10 Min Non Synch West (ABCDE)	1.79	0.24	0.29	0.30	1.00	1.58	1.33	2.13	0.28	
30 Min Long Island (K)	1.55	0.24	0.31	0.34	1.17	2.61	1.77	3.65	0.47	
30 Min NYC (J)	1.55	0.24	0.31	0.34	1.34	2.74	1.85	4.43	0.52	
30 Min SENY (GHI)	1.55	0.24	0.31	0.34	1.17	2.61	1.77	3.65	0.47	
30 Min East (F)	1.48	0.24	0.29	0.30	1.00	1.58	1.46	2.13	0.28	
30 Min West (ABCDE)	1.48	0.24	0.29	0.30	1.00	1.58	1.33	2.13	0.28	
Regulation	31.59	17.95	12.23	7.77	8.36	14.11	7.96	9.46	12.79	
NYCA Regulation Movement	0.16	0.17	0.14	0.10	0.13	0.20	0.18	0.23	0.22	

<u>October</u>

<u>November</u>

December

<u>October</u>	November	<u>December</u>
1.72	3.59	26.50
1.87	3.71	26.72
1.72	3.59	26.50
1.72	3.28	23.41
0.40	1.06	14.59
0.07	0.66	17.08
0.21	0.78	17.31
0.07	0.66	17.08
0.07	0.35	13.99
0.02	0.10	8.81
0.02	0.41	10.93
0.02	0.41	11.11
0.02	0.41	10.93
0.02	0.10	7.84
0.02	0.10	7.80
8.03	9.52	25.14
0.16	0.16	0.19

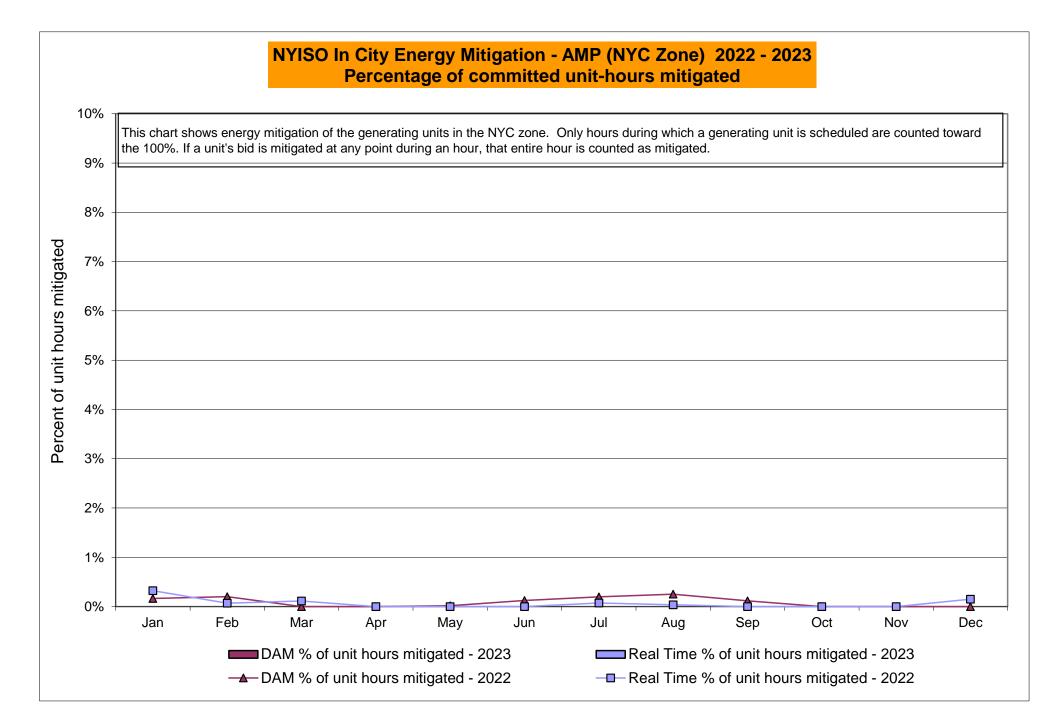
<u>2023</u>	<u>January</u>	February	<u>March</u>	<u>April</u>	May	June	July	<u>August</u>	<u>September</u>	<u>0</u>
Real Time Market										
10 Min Spin Long Island (K)	4.22	4.51	3.28	3.42	1.48					
10 Min Spin NYC (J)	4.30	4.53	3.28	3.72	1.61					
10 Min Spin SENY (GHI)	4.22	4.51	3.28	3.42	1.48					
10 Min Spin East (F)	4.20	4.46	3.19	3.23	1.37					
10 Min Spin West (ABCDE)	3.10	2.24	0.97	0.89	0.36					
10 Min Non Synch Long Island (K)	1.81	0.50	0.15	0.89	0.29					
10 Min Non Synch NYC (J)	1.89	0.52	0.15	1.19	0.43					
10 Min Non Synch SENY (GHI)	1.81	0.50	0.15	0.89	0.29					
10 Min Non Synch East (F)	1.79	0.45	0.05	0.70	0.19					
10 Min Non Synch West (ABCDE)	1.15	0.01	0.00	0.21	0.05					
30 Min Long Island (K)	0.39	0.05	0.09	0.40	0.16					
30 Min NYC (J)	0.39	0.05	0.09	0.47	0.16					
30 Min SENY (GHI)	0.39	0.05	0.09	0.40	0.16					
30 Min East (F)	0.36	0.01	0.00	0.21	0.05					
30 Min West (ABCDE)	0.36	0.01	0.00	0.21	0.05					
Regulation	8.46	12.64	9.44	8.10	5.52					
NYCA Regulation Movement	0.12	0.14	0.12	0.16	0.14					
<u>2022</u>	January	<u>February</u>	March	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	<u>September</u>	<u>C</u>
<u>Real Time Market</u>										
10 Min Spin Long Island (K)	17.99	9.02	6.90	3.15	2.68	4.93	6.01	10.69	3.49	
10 Min Spin NYC (J)	18.04	9.27	7.04	3.27	3.17	5.46	6.66	12.88	3.74	
10 Min Spin SENY (GHI)	17.99	9.27 9.02	6.90	3.15	2.68	4.93	6.01	10.69	3.49	
10 Min Spin SENY (GHI) 10 Min Spin East (F)	17.99 17.97	9.27 9.02 9.02	6.90 6.90	3.15 3.15	2.68 2.62	4.93 4.39	6.01 5.65	10.69 8.61	3.49 3.27	
10 Min Spin SENY (GHI) 10 Min Spin East (F) 10 Min Spin West (ABCDE)	17.99 17.97 13.47	9.27 9.02 9.02 7.56	6.90 6.90 2.14	3.15 3.15 1.83	2.68 2.62 1.76	4.93 4.39 3.13	6.01 5.65 2.70	10.69 8.61 5.68	3.49 3.27 1.84	
10 Min Spin SENY (GHI) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch Long Island (K)	17.99 17.97 13.47 5.34	9.27 9.02 9.02 7.56 0.59	6.90 6.90 2.14 4.05	3.15 3.15 1.83 0.40	2.68 2.62 1.76 0.43	4.93 4.39 3.13 2.42	6.01 5.65 2.70 4.26	10.69 8.61 5.68 6.67	3.49 3.27 1.84 0.81	
10 Min Spin SENY (GHI) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch Long Island (K) 10 Min Non Synch NYC (J)	17.99 17.97 13.47 5.34 5.40	9.27 9.02 9.02 7.56 0.59 0.84	6.90 6.90 2.14 4.05 4.19	3.15 3.15 1.83 0.40 0.51	2.68 2.62 1.76 0.43 0.92	4.93 4.39 3.13 2.42 2.95	6.01 5.65 2.70 4.26 4.90	10.69 8.61 5.68 6.67 8.85	3.49 3.27 1.84 0.81 1.06	
10 Min Spin SENY (GHI) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch Long Island (K) 10 Min Non Synch NYC (J) 10 Min Non Synch SENY (GHI)	17.99 17.97 13.47 5.34 5.40 5.34	9.27 9.02 9.02 7.56 0.59 0.84 0.59	6.90 6.90 2.14 4.05 4.19 4.05	3.15 3.15 1.83 0.40 0.51 0.40	2.68 2.62 1.76 0.43 0.92 0.43	4.93 4.39 3.13 2.42 2.95 2.42	6.01 5.65 2.70 4.26 4.90 4.26	10.69 8.61 5.68 6.67 8.85 6.67	3.49 3.27 1.84 0.81 1.06 0.81	
10 Min Spin SENY (GHI) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch Long Island (K) 10 Min Non Synch NYC (J) 10 Min Non Synch SENY (GHI) 10 Min Non Synch East (F)	17.99 17.97 13.47 5.34 5.40 5.34 5.33	9.27 9.02 9.02 7.56 0.59 0.84 0.59 0.59	6.90 6.90 2.14 4.05 4.19 4.05 4.05	3.15 3.15 1.83 0.40 0.51 0.40 0.40	2.68 2.62 1.76 0.43 0.92 0.43 0.37	4.93 4.39 3.13 2.42 2.95 2.42 1.88	6.01 5.65 2.70 4.26 4.90 4.26 3.90	10.69 8.61 5.68 6.67 8.85 6.67 4.58	3.49 3.27 1.84 0.81 1.06 0.81 0.59	
10 Min Spin SENY (GHI) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch Long Island (K) 10 Min Non Synch NYC (J) 10 Min Non Synch SENY (GHI) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE)	17.99 17.97 13.47 5.34 5.40 5.34 5.33 2.46	9.27 9.02 9.02 7.56 0.59 0.84 0.59 0.59 0.20	6.90 6.90 2.14 4.05 4.19 4.05 4.05 0.19	3.15 3.15 1.83 0.40 0.51 0.40 0.40 0.29	2.68 2.62 1.76 0.43 0.92 0.43 0.37 0.34	4.93 4.39 3.13 2.42 2.95 2.42 1.88 1.51	6.01 5.65 2.70 4.26 4.90 4.26 3.90 1.79	10.69 8.61 5.68 6.67 8.85 6.67 4.58 2.37	3.49 3.27 1.84 0.81 1.06 0.81 0.59 0.25	
 10 Min Spin SENY (GHI) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch Long Island (K) 10 Min Non Synch NYC (J) 10 Min Non Synch SENY (GHI) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min Long Island (K) 	17.99 17.97 13.47 5.34 5.40 5.34 5.33 2.46 1.42	9.27 9.02 9.02 7.56 0.59 0.84 0.59 0.59 0.20 0.20	6.90 6.90 2.14 4.05 4.19 4.05 4.05 0.19 0.16	3.15 3.15 1.83 0.40 0.51 0.40 0.40 0.29 0.29	2.68 2.62 1.76 0.43 0.92 0.43 0.37 0.34 0.40	4.93 4.39 3.13 2.42 2.95 2.42 1.88 1.51 2.05	6.01 5.65 2.70 4.26 4.90 4.26 3.90 1.79 2.28	10.69 8.61 5.68 6.67 8.85 6.67 4.58 2.37 4.29	3.49 3.27 1.84 0.81 1.06 0.81 0.59 0.25 0.47	
 10 Min Spin SENY (GHI) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch Long Island (K) 10 Min Non Synch NYC (J) 10 Min Non Synch SENY (GHI) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min Long Island (K) 30 Min NYC (J) 	17.99 17.97 13.47 5.34 5.40 5.34 5.33 2.46 1.42 1.42	9.27 9.02 9.02 7.56 0.59 0.84 0.59 0.59 0.20 0.20 0.20	6.90 6.90 2.14 4.05 4.19 4.05 4.05 0.19 0.16 0.16	3.15 3.15 1.83 0.40 0.51 0.40 0.40 0.29 0.29 0.29	2.68 2.62 1.76 0.43 0.92 0.43 0.37 0.34 0.40 0.56	4.93 4.39 3.13 2.42 2.95 2.42 1.88 1.51 2.05 2.20	6.01 5.65 2.70 4.26 4.90 4.26 3.90 1.79 2.28 2.41	10.69 8.61 5.68 6.67 8.85 6.67 4.58 2.37 4.29 5.15	3.49 3.27 1.84 0.81 1.06 0.81 0.59 0.25 0.47 0.52	
10 Min Spin SENY (GHI) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch Long Island (K) 10 Min Non Synch NYC (J) 10 Min Non Synch SENY (GHI) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min Long Island (K) 30 Min NYC (J) 30 Min SENY (GHI)	17.99 17.97 13.47 5.34 5.40 5.34 5.33 2.46 1.42 1.42 1.42 1.42	9.27 9.02 9.02 7.56 0.59 0.84 0.59 0.59 0.20 0.20 0.20 0.20	6.90 6.90 2.14 4.05 4.19 4.05 4.05 0.19 0.16 0.16 0.16	3.15 3.15 1.83 0.40 0.51 0.40 0.29 0.29 0.29 0.29 0.29	2.68 2.62 1.76 0.43 0.92 0.43 0.37 0.34 0.40 0.56 0.40	4.93 4.39 3.13 2.42 2.95 2.42 1.88 1.51 2.05 2.20 2.05	6.01 5.65 2.70 4.26 4.90 4.26 3.90 1.79 2.28 2.41 2.28	10.69 8.61 5.68 6.67 8.85 6.67 4.58 2.37 4.29 5.15 4.29	3.49 3.27 1.84 0.81 1.06 0.81 0.59 0.25 0.47 0.52 0.47	
10 Min Spin SENY (GHI) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch Long Island (K) 10 Min Non Synch NYC (J) 10 Min Non Synch SENY (GHI) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min Long Island (K) 30 Min NYC (J) 30 Min SENY (GHI) 30 Min East (F)	$17.99 \\ 17.97 \\ 13.47 \\ 5.34 \\ 5.40 \\ 5.34 \\ 5.33 \\ 2.46 \\ 1.42 \\ 1.42 \\ 1.42 \\ 1.42 \\ 1.41 \end{bmatrix}$	9.27 9.02 9.02 7.56 0.59 0.84 0.59 0.20 0.20 0.20 0.20 0.20 0.20	6.90 6.90 2.14 4.05 4.19 4.05 4.05 0.19 0.16 0.16 0.16 0.16	3.15 3.15 1.83 0.40 0.51 0.40 0.29 0.29 0.29 0.29 0.29 0.29 0.29	2.68 2.62 1.76 0.43 0.92 0.43 0.37 0.34 0.40 0.56 0.40 0.34	4.93 4.39 3.13 2.42 2.95 2.42 1.88 1.51 2.05 2.20 2.05 1.51	6.01 5.65 2.70 4.26 4.90 4.26 3.90 1.79 2.28 2.41 2.28 1.92	10.69 8.61 5.68 6.67 8.85 6.67 4.58 2.37 4.29 5.15 4.29 2.21	3.49 3.27 1.84 0.81 1.06 0.81 0.59 0.25 0.47 0.52 0.47 0.25	
10 Min Spin SENY (GHI) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch Long Island (K) 10 Min Non Synch NYC (J) 10 Min Non Synch SENY (GHI) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min Long Island (K) 30 Min NYC (J) 30 Min SENY (GHI) 30 Min East (F) 30 Min West (ABCDE)	$17.99 \\ 17.97 \\ 13.47 \\ 5.34 \\ 5.40 \\ 5.34 \\ 5.33 \\ 2.46 \\ 1.42 \\ 1.42 \\ 1.42 \\ 1.42 \\ 1.41$	9.27 9.02 9.02 7.56 0.59 0.59 0.59 0.20 0.20 0.20 0.20 0.20 0.20 0.20	6.90 6.90 2.14 4.05 4.19 4.05 4.05 0.19 0.16 0.16 0.16 0.16 0.16	3.15 3.15 1.83 0.40 0.51 0.40 0.29 0.29 0.29 0.29 0.29 0.29 0.29 0.29 0.29 0.29	$\begin{array}{c} 2.68\\ 2.62\\ 1.76\\ 0.43\\ 0.92\\ 0.43\\ 0.37\\ 0.34\\ 0.40\\ 0.56\\ 0.40\\ 0.34\\ 0.34\\ 0.34\end{array}$	4.93 4.39 3.13 2.42 2.95 2.42 1.88 1.51 2.05 2.20 2.05 1.51 1.51	6.01 5.65 2.70 4.26 4.90 4.26 3.90 1.79 2.28 2.41 2.28 1.92 1.79	10.69 8.61 5.68 6.67 8.85 6.67 4.58 2.37 4.29 5.15 4.29 2.21 2.21	3.49 3.27 1.84 0.81 1.06 0.81 0.59 0.25 0.47 0.52 0.47 0.25 0.25	
10 Min Spin SENY (GHI) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch Long Island (K) 10 Min Non Synch NYC (J) 10 Min Non Synch SENY (GHI) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min Long Island (K) 30 Min NYC (J) 30 Min SENY (GHI) 30 Min East (F) 30 Min West (ABCDE) Regulation	$17.99 \\ 17.97 \\ 13.47 \\ 5.34 \\ 5.40 \\ 5.34 \\ 5.33 \\ 2.46 \\ 1.42 \\ 1.42 \\ 1.42 \\ 1.42 \\ 1.41 \\ 1.41 \\ 33.92$	9.27 9.02 9.02 7.56 0.59 0.84 0.59 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.2	6.90 6.90 2.14 4.05 4.19 4.05 4.05 0.19 0.16 0.16 0.16 0.16 0.16 11.81	3.15 3.15 1.83 0.40 0.51 0.40 0.29	$\begin{array}{c} 2.68\\ 2.62\\ 1.76\\ 0.43\\ 0.92\\ 0.43\\ 0.37\\ 0.34\\ 0.40\\ 0.56\\ 0.40\\ 0.34\\ 0.34\\ 0.34\\ 8.23\end{array}$	4.93 4.39 3.13 2.42 2.95 2.42 1.88 1.51 2.05 2.20 2.05 1.51 1.51 1.51	6.01 5.65 2.70 4.26 4.90 4.26 3.90 1.79 2.28 2.41 2.28 1.92 1.79 8.95	10.69 8.61 5.68 6.67 8.85 6.67 4.58 2.37 4.29 5.15 4.29 2.21 2.21 11.52	3.49 3.27 1.84 0.81 1.06 0.81 0.59 0.25 0.47 0.52 0.47 0.25 0.25 11.36	
10 Min Spin SENY (GHI) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch Long Island (K) 10 Min Non Synch NYC (J) 10 Min Non Synch SENY (GHI) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min Long Island (K) 30 Min NYC (J) 30 Min SENY (GHI) 30 Min East (F) 30 Min West (ABCDE)	$17.99 \\ 17.97 \\ 13.47 \\ 5.34 \\ 5.40 \\ 5.34 \\ 5.33 \\ 2.46 \\ 1.42 \\ 1.42 \\ 1.42 \\ 1.42 \\ 1.41$	9.27 9.02 9.02 7.56 0.59 0.59 0.59 0.20 0.20 0.20 0.20 0.20 0.20 0.20	6.90 6.90 2.14 4.05 4.19 4.05 4.05 0.19 0.16 0.16 0.16 0.16 0.16	3.15 3.15 1.83 0.40 0.51 0.40 0.29 0.29 0.29 0.29 0.29 0.29 0.29 0.29 0.29 0.29	$\begin{array}{c} 2.68\\ 2.62\\ 1.76\\ 0.43\\ 0.92\\ 0.43\\ 0.37\\ 0.34\\ 0.40\\ 0.56\\ 0.40\\ 0.34\\ 0.34\\ 0.34\end{array}$	4.93 4.39 3.13 2.42 2.95 2.42 1.88 1.51 2.05 2.20 2.05 1.51 1.51	6.01 5.65 2.70 4.26 4.90 4.26 3.90 1.79 2.28 2.41 2.28 1.92 1.79	10.69 8.61 5.68 6.67 8.85 6.67 4.58 2.37 4.29 5.15 4.29 2.21 2.21	3.49 3.27 1.84 0.81 1.06 0.81 0.59 0.25 0.47 0.52 0.47 0.25 0.25	

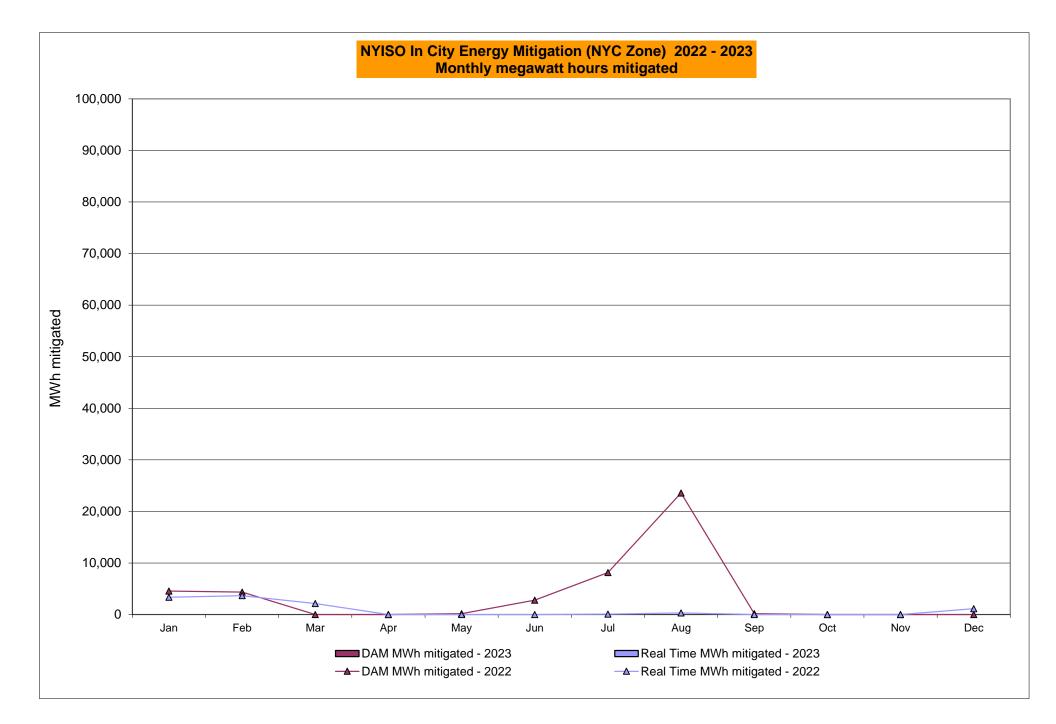
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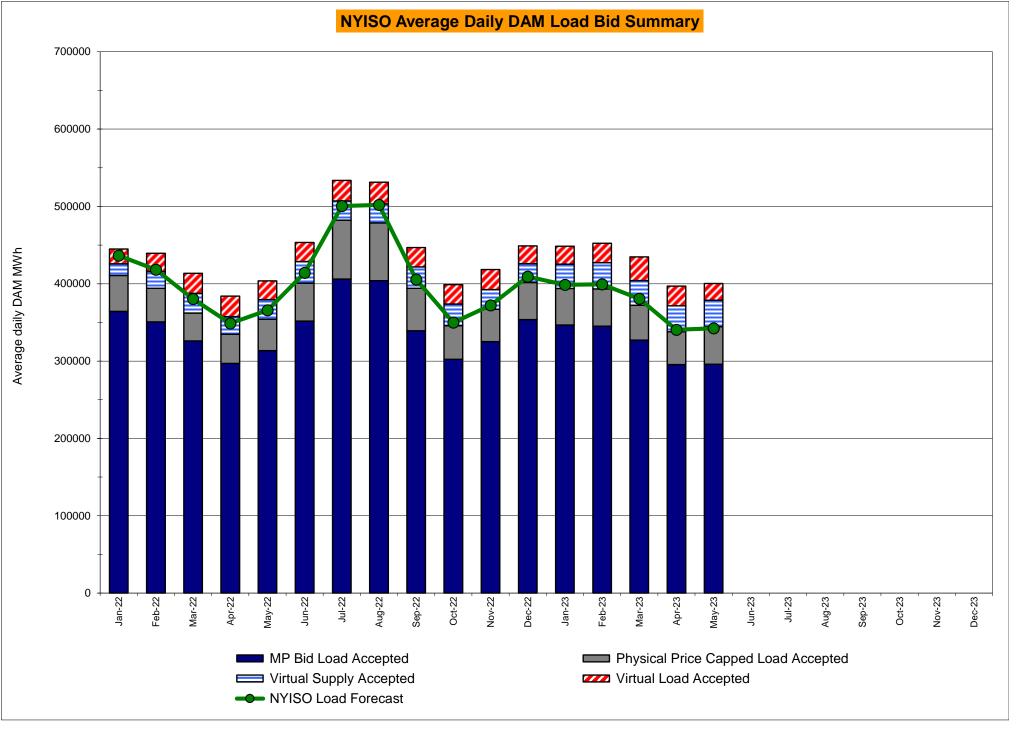
October November

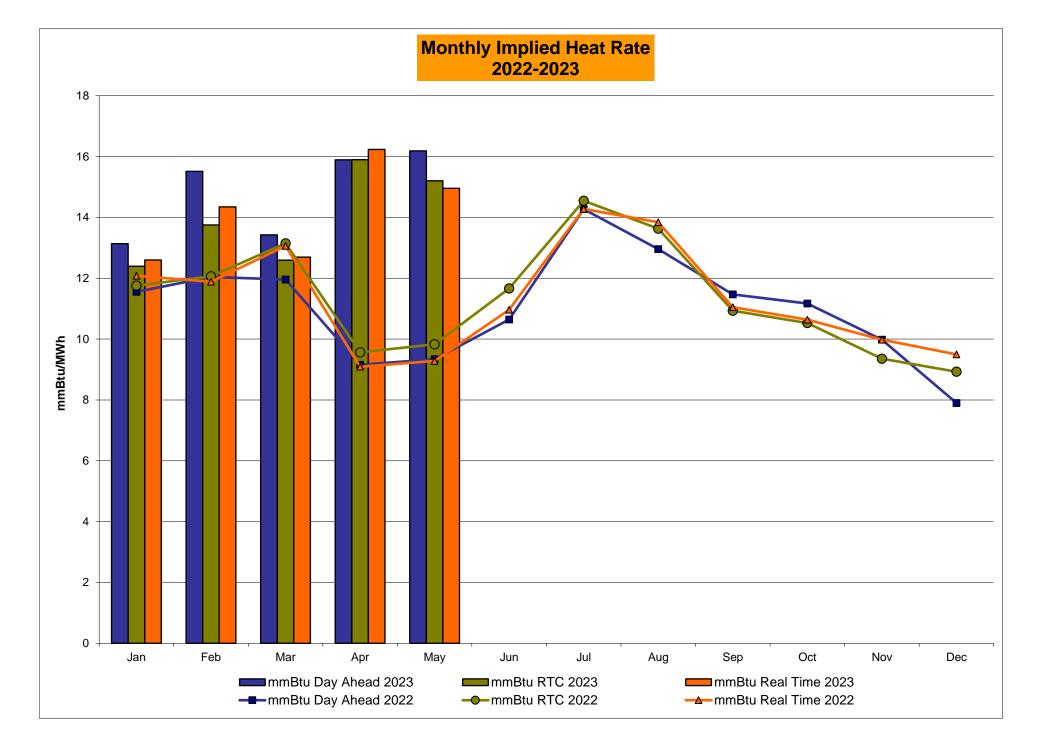
<u>December</u>

<u>October</u>	<u>November</u>	December
3.23	7.82	36.64
3.41	8.01	36.89
3.23	7.82	36.64
3.22	7.54	34.02
1.40	3.02	22.15
0.38	2.63	23.83
0.56	2.81	24.09
0.38	2.63	23.83
0.37	2.35	21.21
0.01	0.10	12.80
0.01	0.38	11.54
0.01	0.38	11.73
0.01	0.38	11.54
0.01	0.10	8.92
0.01	0.10	8.87
8.91	12.84	28.95
0.16	0.15	0.19

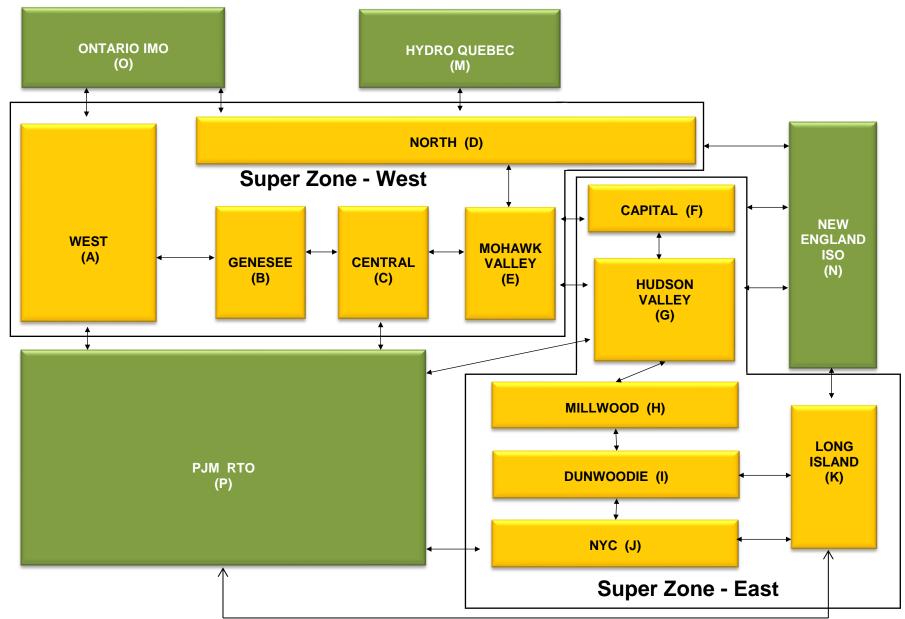








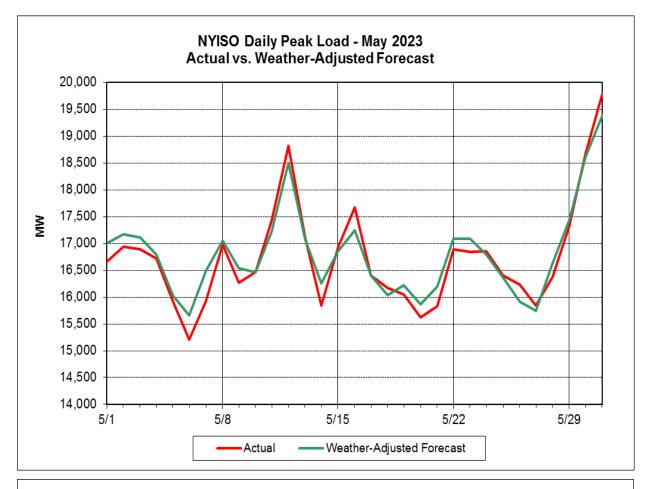
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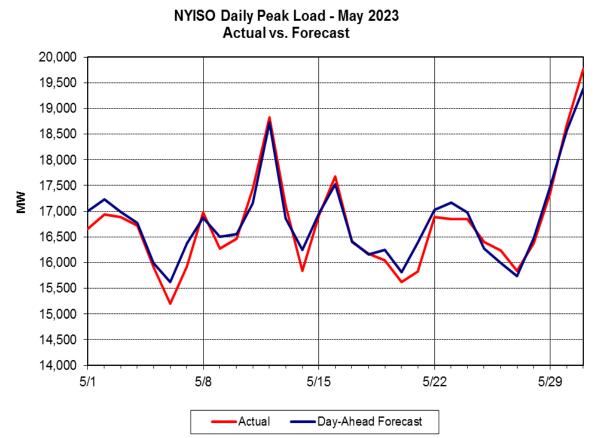


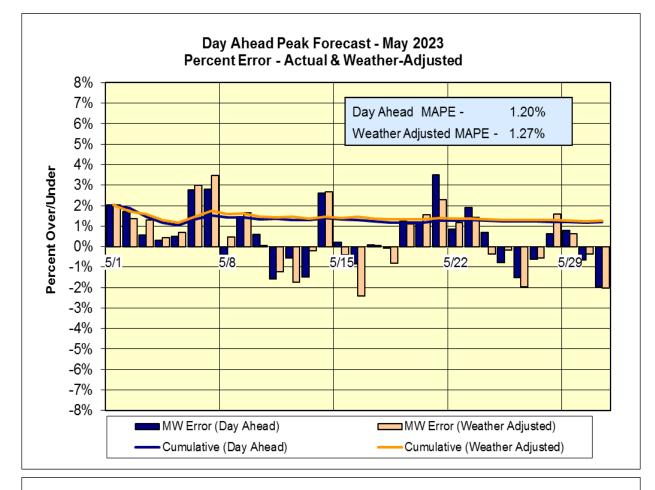
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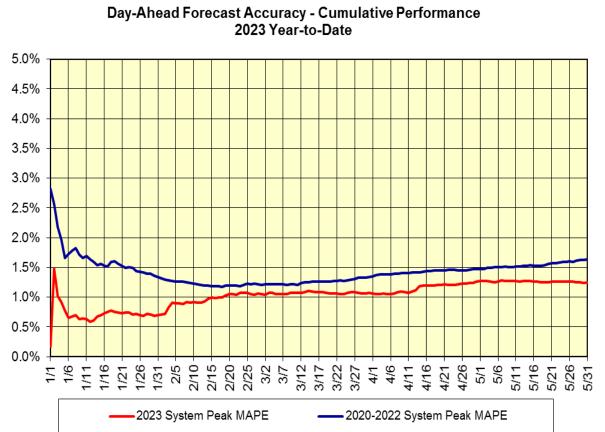
Billing Codes for Chart C

Chart - C Category Name	Billing Code	Billing Category Name
Bid Production Cost Guarantee Balancing	81203	Balancing NYISO Bid Production Cost Guarantee - Internal Units
Bid Production Cost Guarantee Balancing	81204	Balancing NYISO Bid Production Cost Guarantee - External Units
Bid Production Cost Guarantee Balancing	81205	Balancing NYISO Bid Production Cost Guarantee Expenditure due to Curtailed Imports
Bid Production Cost Guarantee Balancing	81208	Balancing NYISO Bid Production Cost Guarantee - Internal Units
Bid Production Cost Guarantee Balancing	81209	Balancing NYISO Bid Production Cost Guarantee - External Units
Bid Production Cost Guarantee Balancing	81213	Balancing NYISO Bid Production Cost Guarantee Expenditure due to Curtailed Imports
Bid Production Cost Guarantee DAM	81201	DAM NYISO Bid Production Cost Guarantee - Internal Units
Bid Production Cost Guarantee DAM	84001	EDRP/SCR Demand Response - Local
Bid Production Cost Guarantee DAM	84101	EDRP/SCR Demand Response - NYISO Wide
Bid Production Cost Guarantee DAM	81401	DAM Price Responsive Load Program
Bid Production Cost Guarantee DAM	81202	DAM NYISO Bid Production Cost Guarantee - External Units
Bid Production Cost Guarantee DAM	81206	DAM NYISO Bid Production Cost Guarantee - Internal Units
Bid Production Cost Guarantee DAM	81207	DAM NYISO Bid Production Cost Guarantee - External Units
Bid Production Cost Guarantee DAM Virtual	81501	DAM Virtual Bid Production Cost Guarantee
DAM Contract Balancing	81315	DAM Contract Balancing
DAM Contract Balancing	81317	DAM Contract Balancing
Local Reliability Balancing	81002	Balancing Local Reliability Bid Production Cost Guarantee
Local Reliability Balancing	83901	Margin Restoration (MOB) Revenue
Local Reliability DAM	81001	DAM Local Reliability Bid Production Cost Guarantee
NYISO Cost of Operations	80901	NYISO Cost Of Operations
NYISO Cost of Operations	80902	NYISO Cost Of Operations
NYISO Cost of Operations	83501	NYISO Cost Of Operations
NYISO Cost of Operations	83502	NYISO Cost Of Operations
Residuals Balancing	81302	Balancing Market Energy Residual
Residuals Balancing	81304	Balancing Market Loss Residual
Residuals Balancing	81305	Balancing Market Congestion Balancing
Residuals Balancing	81306	Emergency Energy Purchases
Residuals Balancing	81307	Emergency Energy Sales
Residuals Balancing	81309	Balancing Market Energy Residual
Residuals Balancing	81311	Balancing Market Loss Residual
Residuals Balancing	81312	Balancing Market Congestion Balancing
Residuals Balancing	81313	Emergency Energy Purchases
Residuals Balancing	81314	Emergency Energy Sales
Residuals DAM	81301	Day Ahead Market Energy Residual
Residuals DAM	81303	Day Ahead Market Loss Residual
Residuals DAM	81308	Day Ahead Market Energy Residual
Residuals DAM	81310	Day Ahead Market Loss Residual









	Summary Description of Regulate Rulemakings and Related Orders i			
Filing Date	Filing Summary	Docket	Order Summary	Order Date
11/30/2020	NYISO Section 205 filing of the Installed Capacity Demand Curves for the 2021-2022 Capability Year and the methodologies and inputs for use in conducting annual updates for the 2022-2023, 2023-2024, and 2024-2025 Capability years.	ER21-502-001	FERC Order accepted, in part, subject to condition, NYISO tariff revisions of NYISO Demand Curve Reset 2021-2025 Capacity Year. FERC's order reversed FERC's December 16, 2022 order on remand and directed the NYISO to prospectively implement revised demand curves using a 17-year amortization period for the remainder of the 2021-2025 reset period as soon as practicable, and further directed a compliance filing on or before June 9, 2023 to i) submit tariff revisions required to implement the revised curves using a 17-year amortization period, and ii) identify the first spot auction that will utilize the revised curves.	05/19/2023
03/10/2023	NYISO Section 205 filing of proposed tariff revisions to better align the credit requirements for Virtual and External Transactions with the risk associated with the transactions.	ER23-1307-000	FERC Deficiency Letter informed the NYISO that its Section 205 filing is deficient, and directed a deficiency response within 30 days of the order date.	05/05/2023
03/16/2023	NYISO-National Grid joint Section 205 filing of an executed Small Generator Interconnection Agreement (SA No. 2756) among NYISO, National Grid, and Hawthorn Solar LLC for the Hawthorn Solar project.	ER23-1401-000	FERC Letter Order accepted the SGIA, effective March 2, 2023, as requested.	05/12/2023
03/23/2023	NYISO Section 205 filing of an executed Amended & Restated Large Generator Interconnection Agreement (SA No. 2709) among NYISO, LIPA, and LI Solar Generation for the Calverton Solar Energy Center project.	ER23-1446-000	FERC Letter Order accepting the executed Amended & Restated Agreement, effective March 9, 2023 as requested.	05/15/2023
03/24/2023	NYISO National Grid Joint 205 filing of a second amended and restated Large Generator Interconnection Agreement among NYISO, National Grid, and Ball Hill Wind for the Ball Hill Wind Facility (SA 2473).	ER23-1454-000	FERC Letter Order accepted the Second Amended and Restated Agreement effective March 10, 2023, as requested.	05/22/2023

Filing Date	Filing Summary	Docket	Order Summary	Order Date
03/29/2023	NYISO-National Grid Joint 205 filing of an amended and restated Small Generator Interconnection Agreement among NYISO, National Grid, and Regan Solar, LLC for the Regan Solar Project (SA 2574).	ER23-1510-000	FERC Letter Order accepted the amended and restated Agreement effective March 15, 2023, as requested. On May 24, 2023, FERC issued an Errata notice correcting its description of the service	
	NYISO Section 205 filing of proposed Services Tariff revisions to align bidding, scheduling, and notification requirements for Installed Capacity Suppliers with Energy Duration Limitations with the new Peak Load Window established under the marginal capacity accreditation market revisions design.	ER23-1527-000	agreement in the original order. FERC Letter Order accepted the NYISO's proposed Services Tariff.	05/19/2023
	NYISO compliance filing to incorporate by reference North American Energy Standards Board ("NAESB") Wholesale Electric Quadrant ("WEQ") standards required by FERC's Order 676-J, and to request waivers of certain NAESB WEQ business practice standards.	ER23-1783-000, RM05-5-029, RM05-5-030		
05/03/2023	NYISO 205 filing of proposed tariff revisions regarding the retention and transfer of Capacity Resource Interconnection Service (CRIS).	ER23-1824-000		
	Joint 205 filing of a Transmission Facility Interconnection Agreement among NYISO, Con Edison, New York Power Authority, and CHPE LLC for the Astoria-Rainey Cable and upgrades concerning the Champlain Hudson Power Express project, SA 2772.	ER23-1839-000		
05/08/2023	NYISO Notice of Termination of IPKeys Power Partners, Inc. from the NYISO-Administered Markets.	No Docket		
	NYISO Section 205 filing of tariff revisions to implement enhancements to its transmission constraint pricing logic.	ER23-1863-000		
	NYISO informational filing re: interconnection study metrics for the first quarter of 2023 consistent with the requirements of Order Nos. 845 and 845-A.	ER19-1949-000		

Filing Date	Filing Summary	Docket	Order Summary	Order Date
	NYISO filing on behalf of the Eastern Interconnection Planning Collaborative (EIPC): response to post-workshop questions related to establishing interregional transfer capability.	AD23-3-000		
	NYISO filing of a notice of cancellation of the Second Amended and Restated Large Generator Interconnection Agreement (LGIA) in connection with the Berrians East Replacement project, among NYISO, Con Edison, and NRG Berrians East Development (SA No. 2535)	ER23-1914-000		
	NYISO compliance filing to fulfill the directives of FERC's April 20, 2023 Order on the NYISO's Order No. 2222 compliance filing.	ER21-2460-005		
	Joint NYISO-New York State Electric and Gas Corporation (NYSEG) 205 filing of an executed Small Generator Interconnection Agreement (SGIA) among NYISO, NYSEG, and Clear View Solar for the Clear View Solar project (SA2775).	ER23-2004-000		
	NYISO submission of its FERC Form 714 Annual Electric Balancing Authority Area and Planning Area Report for the 2022 reporting year.	FERC Form 714		