

Monthly Report

A Report by the New York Independent System Operator

January 2023

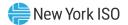


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January 2023 Report

Operations & Reliability Department New York Independent System Operator



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January 2023 Operations Performance Highlights

- January 2023 peak load of 20,641 MW occurred on 01/31/2023 HB 18
- Winter 2022-2023 capability period peak load to date of 22,004MW occurred on 12/24/2022 HB 17
- All-time winter capability period peak load of 25,738 MW occurred on 01/07/2014 HB 18
- 0.0 hours of Thunderstorm Alerts were declared
- 76 hours of NERC TLR level 3 curtailment

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)
2,191 MW	4,320 MW	114 MW	20 MW

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

	Current Month Value (SM)	Year-to-Date Value (\$M)
NY Savings from PJM-NY Congestion Coordination	\$1.44	\$1.44
NY Savings from PJM-NY Coordinated Transaction Scheduling	(\$0.11)	(\$0.11)
NY Savings from NE-NY Coordinated Transaction Scheduling	(\$0.36) (\$0.	
Total NY Savings	\$0.97	\$0.97
Regional Savings from PJM-NY Coordinated Transaction Scheduling	\$0.32	\$0.32
Regional Savings from NE-NY Coordinated Transaction Scheduling	\$0.09	\$0.09
Total Regional Savings	\$0.41	\$0.41

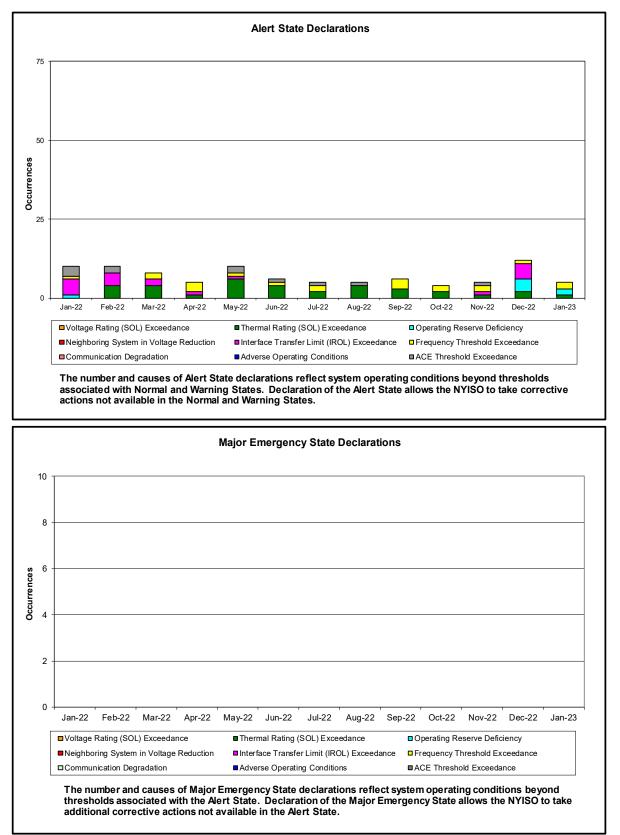
- Statewide uplift cost monthly average was (\$0.41)/MWh.
- The following table identifies the Monthly ICAP spot market prices and the price delta.

Spot Auction Price Results	NYCA	Lower Hudson Valley Zones	New York City Zone	Long Island Zone
February 2023 Spot Price	\$3.80	\$3.80	\$3.80	\$3.80
January 2023 Spot Price	\$4.39	\$4.39	\$4.39	\$4.39
Delta	(\$0.59)	(\$0.59)	(\$0.59)	(\$0.59)

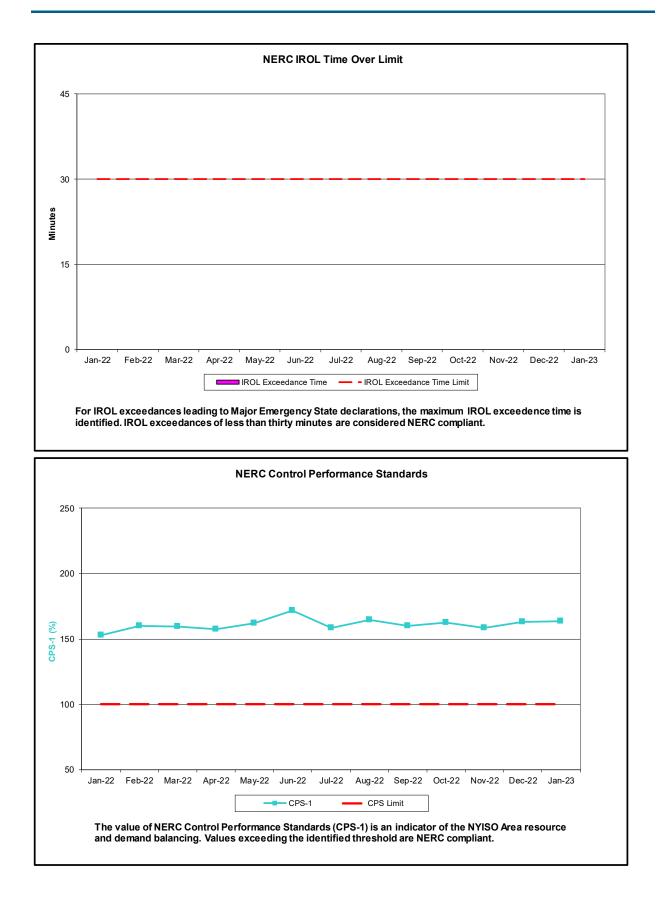
• Price decline in all zones was driven by a decline in unoffered MW



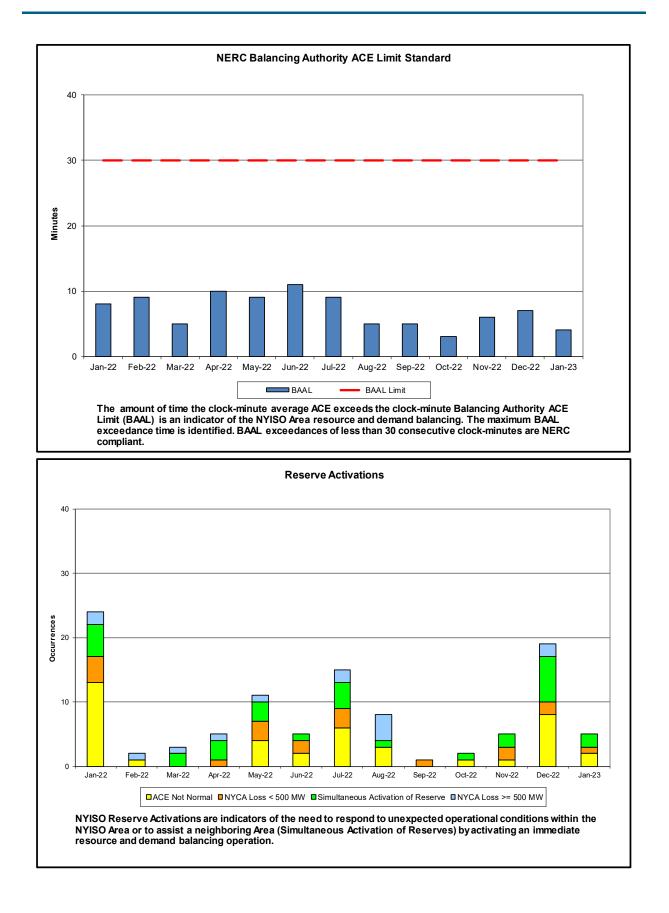
Reliability Performance Metrics



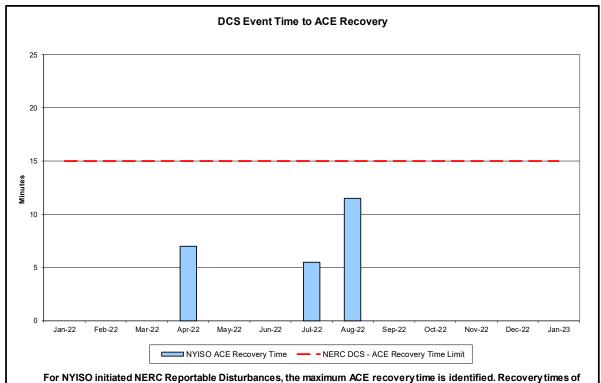




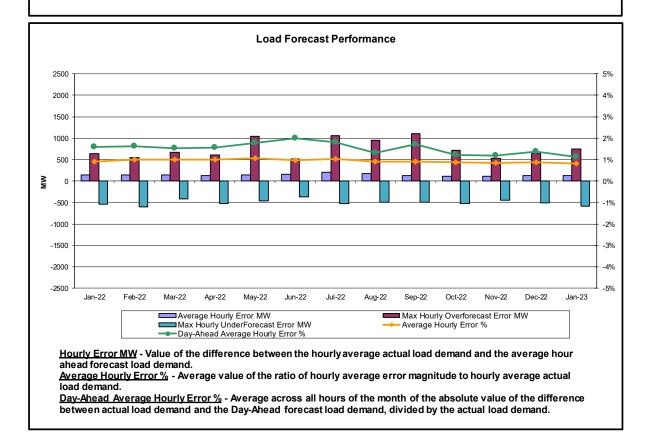




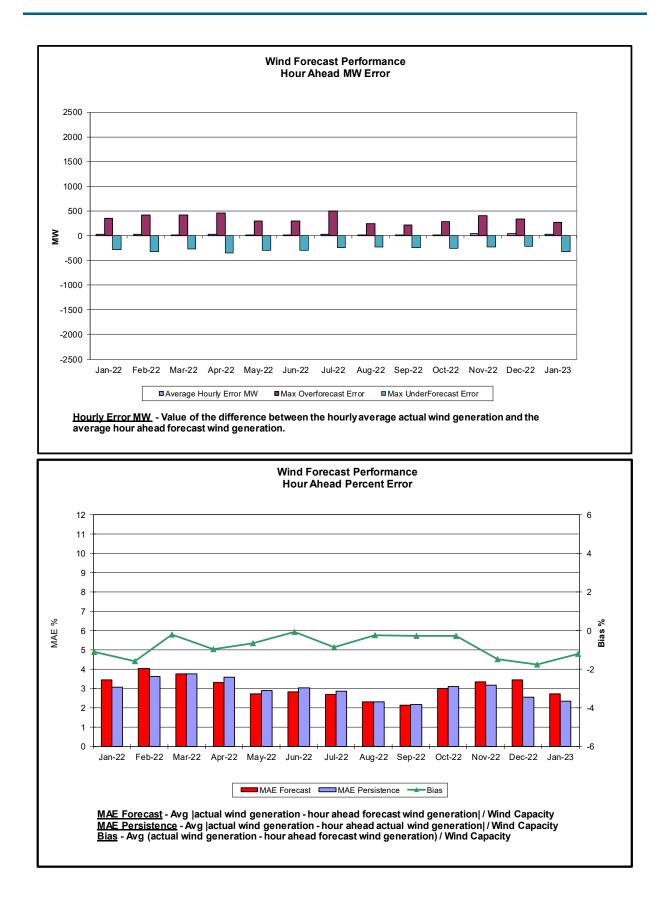




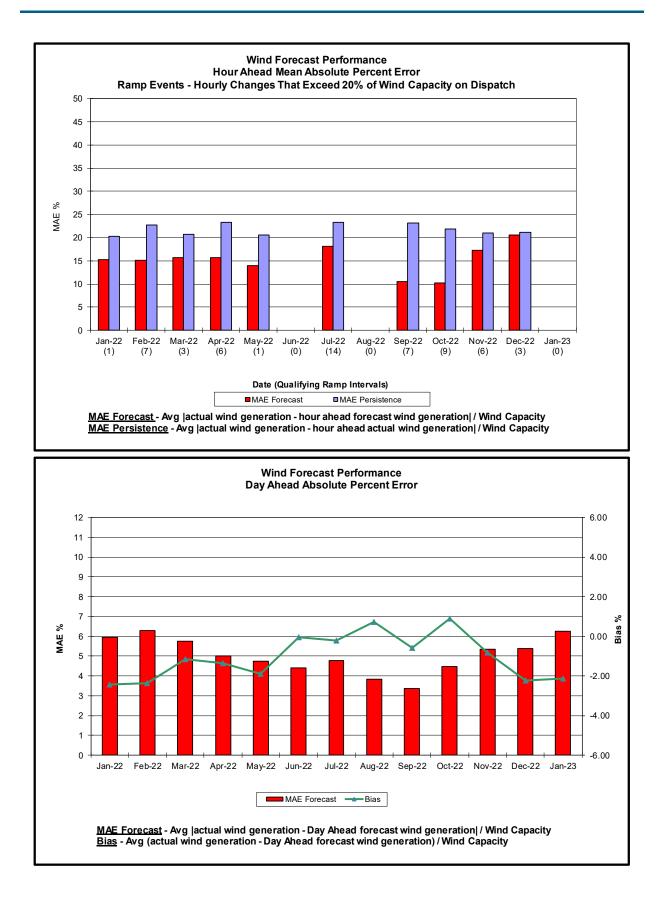
less than 15 minutes are considered NERC compliant.



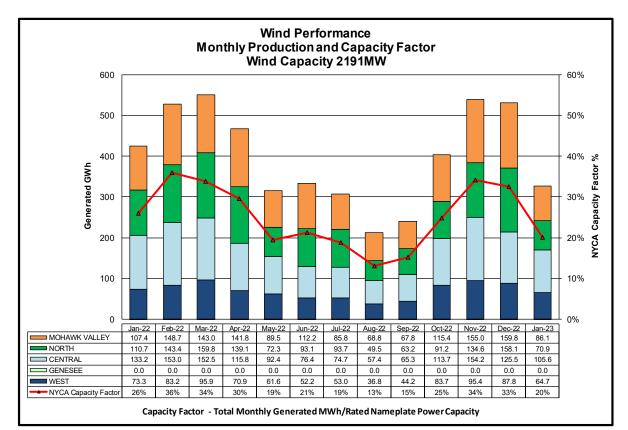
🖶 New York ISO

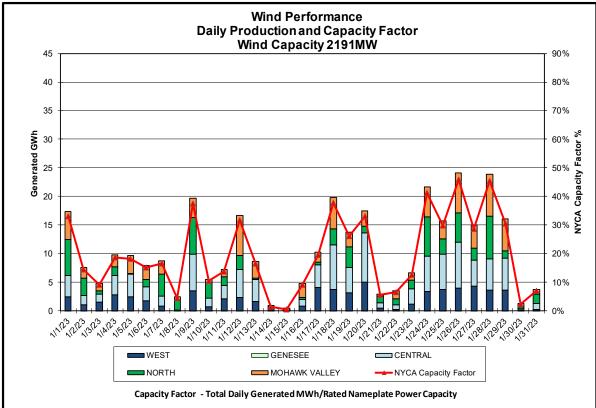


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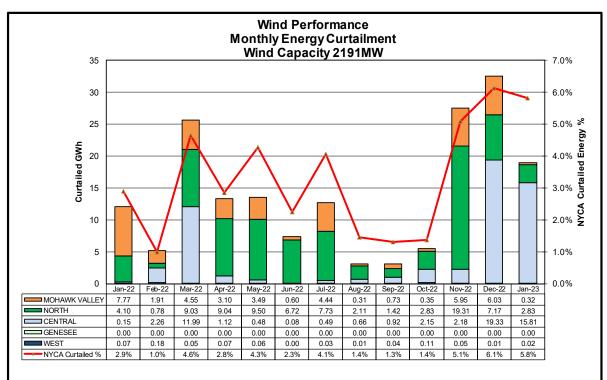




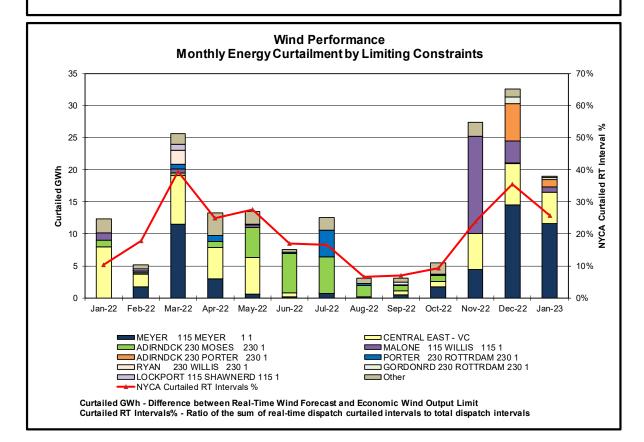




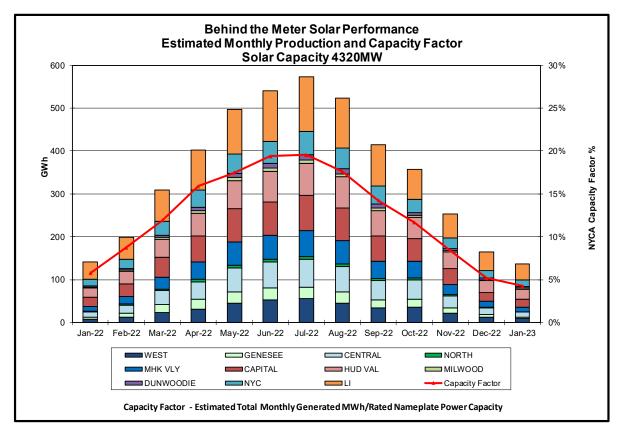


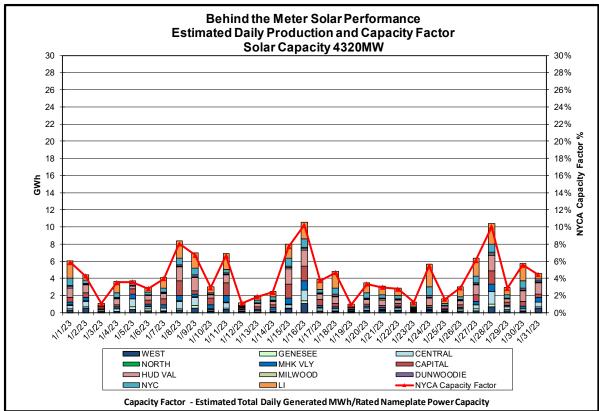


Curtailed GWh - Difference between Real-Time Wind Forecast and Economic Wind Output Limit Curtailed % - Ratio of Curtailed Energy to Total Production

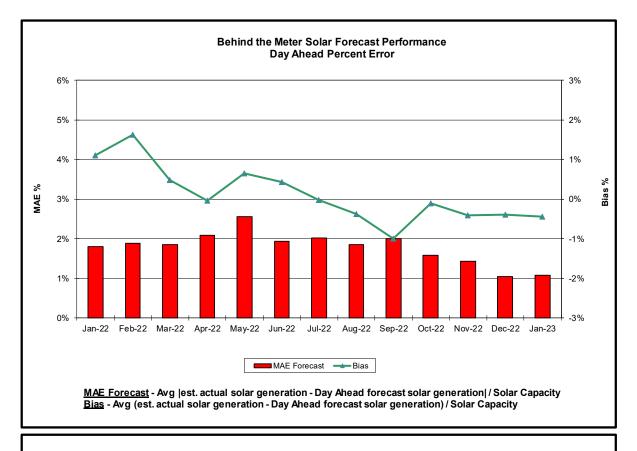


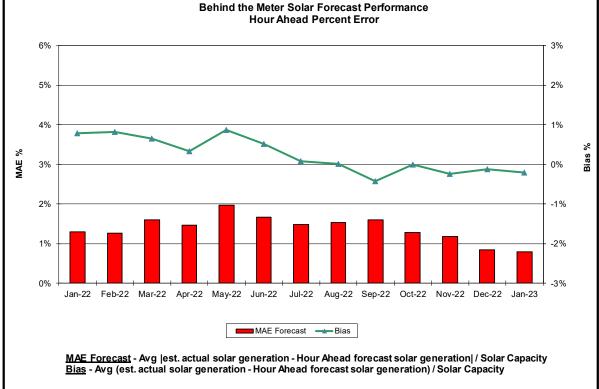




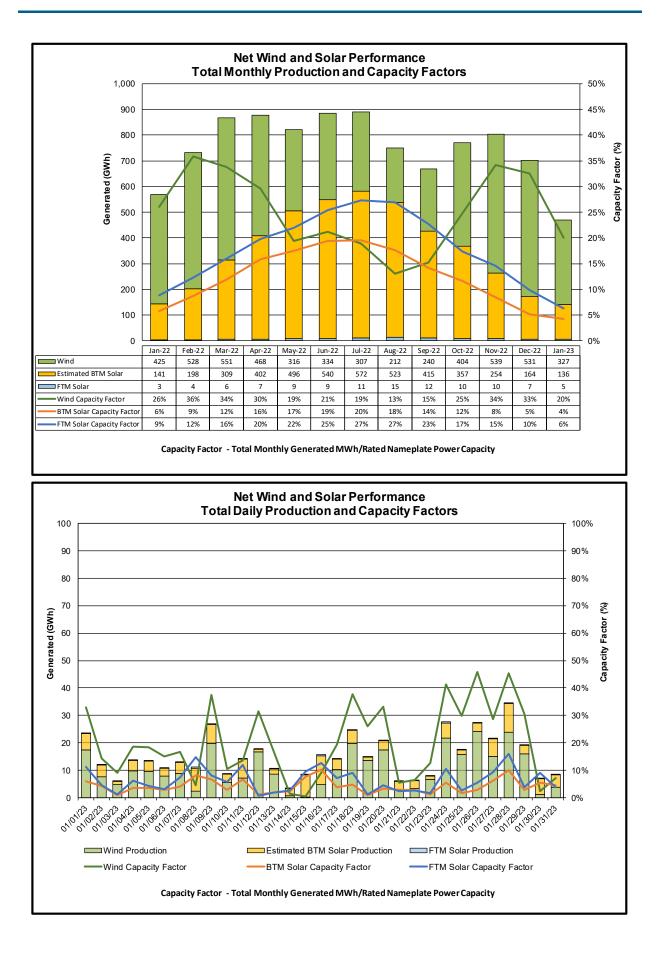


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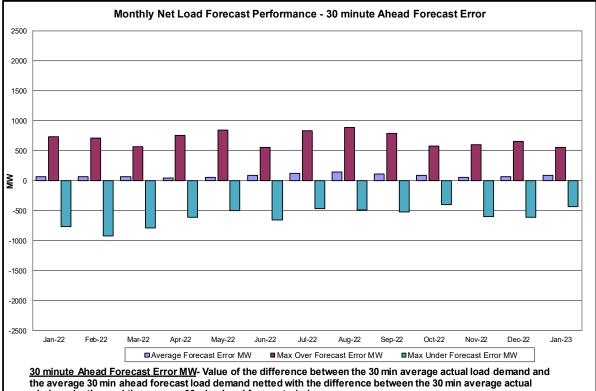




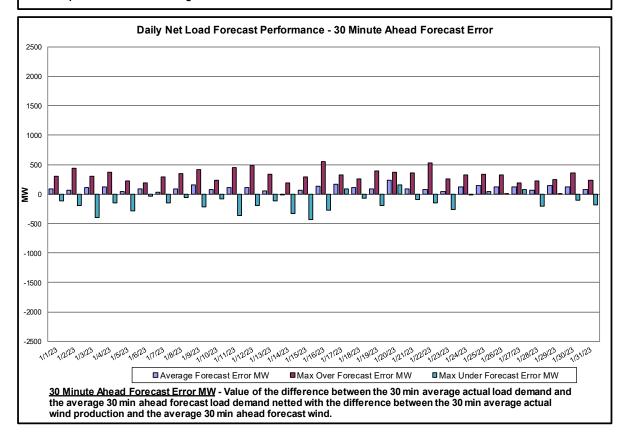




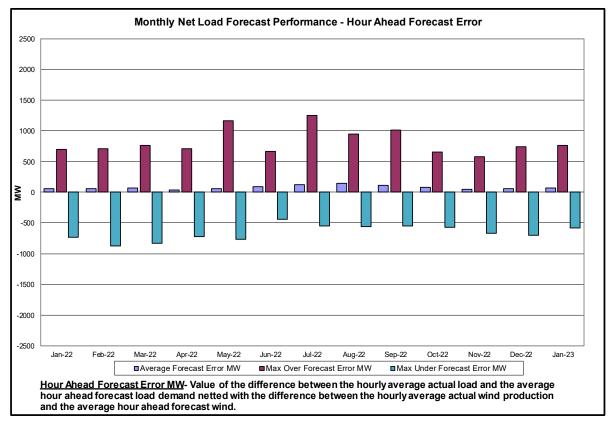


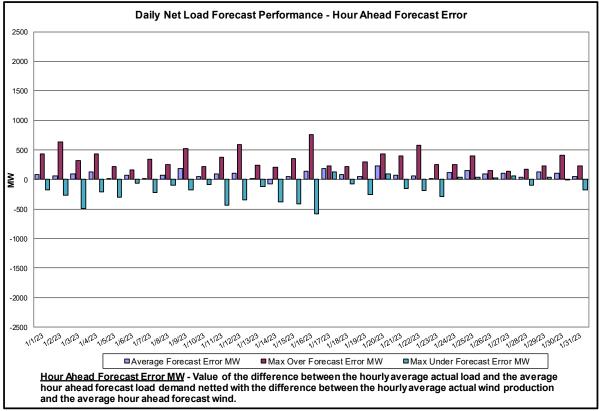


wind production and the average 30 min ahead forecast wind.

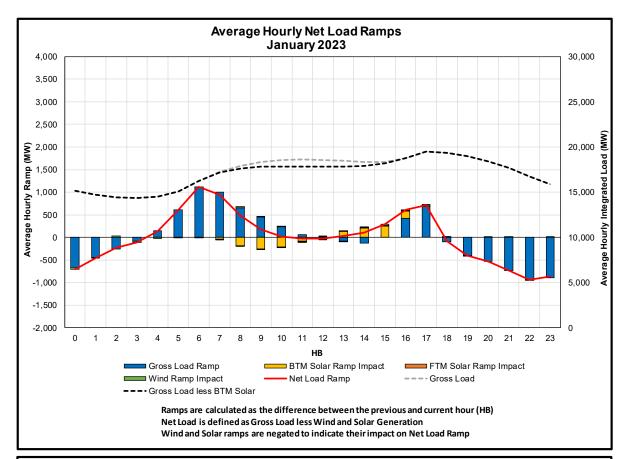


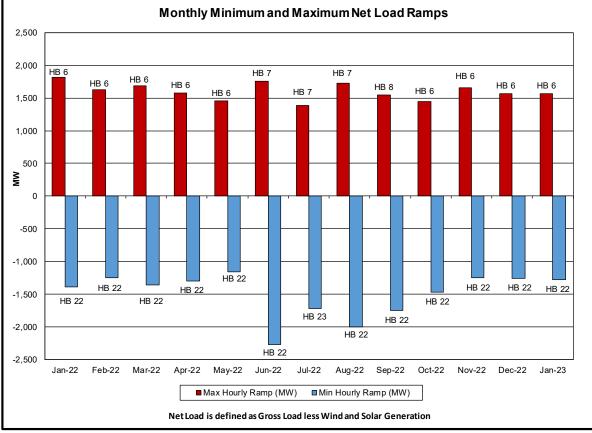


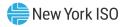


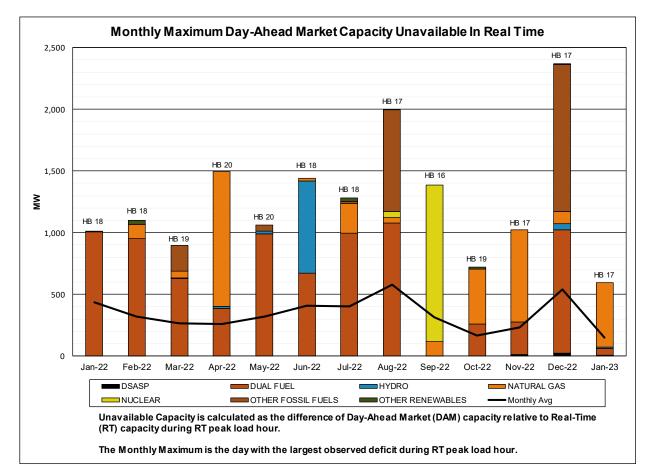


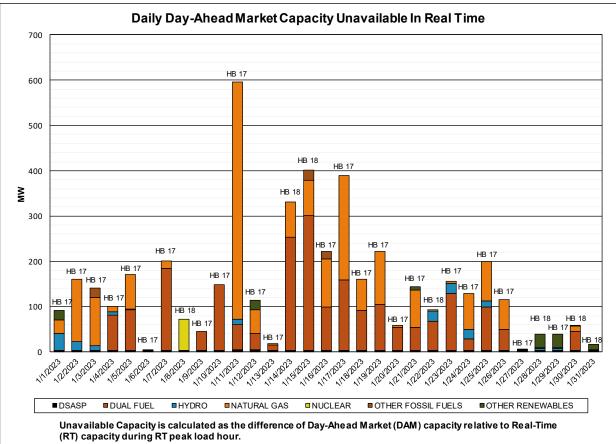




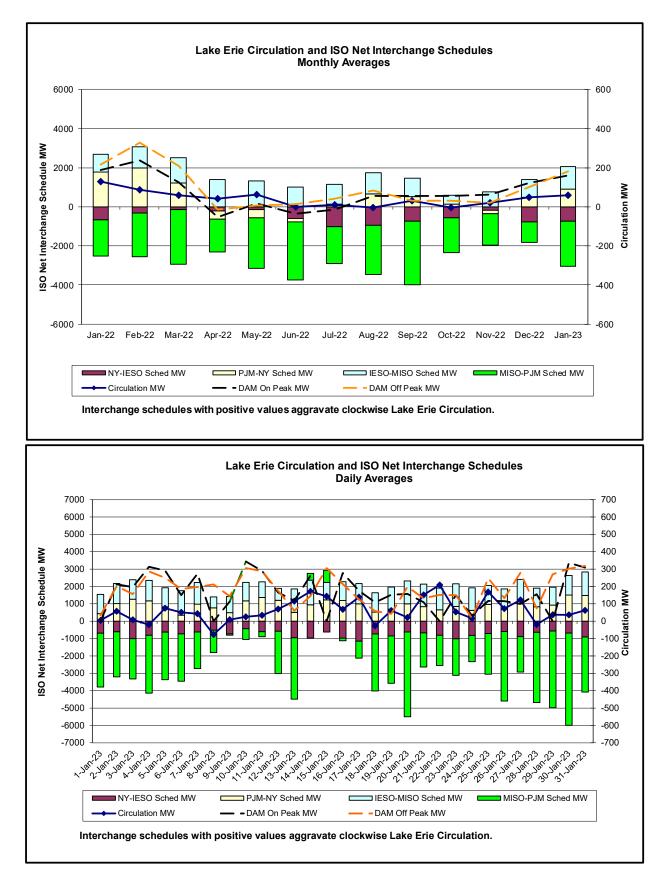




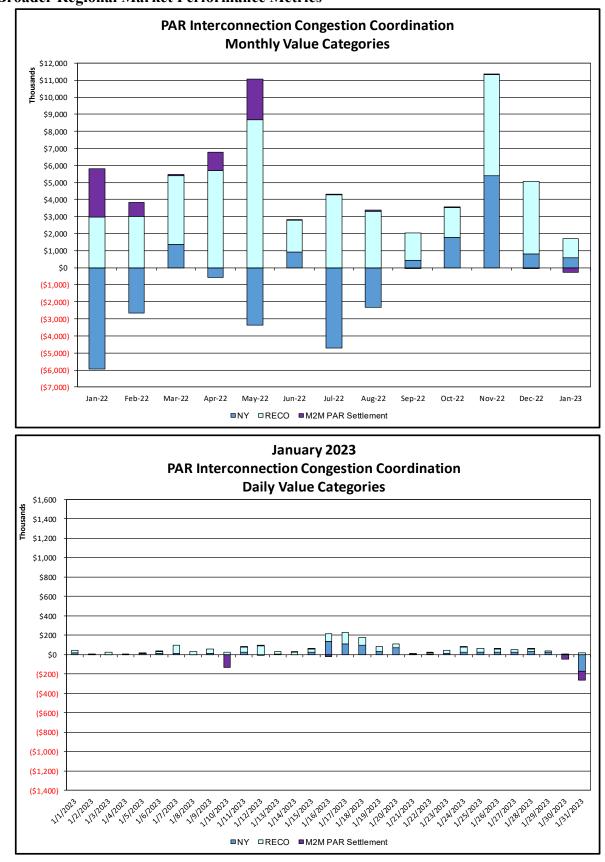




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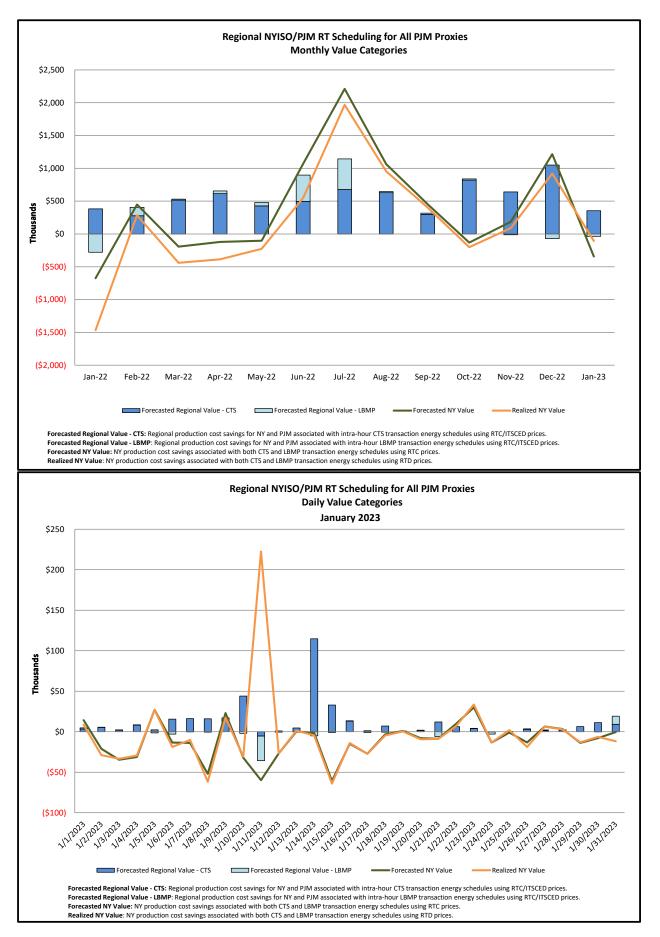


Broader Regional Market Performance Metrics

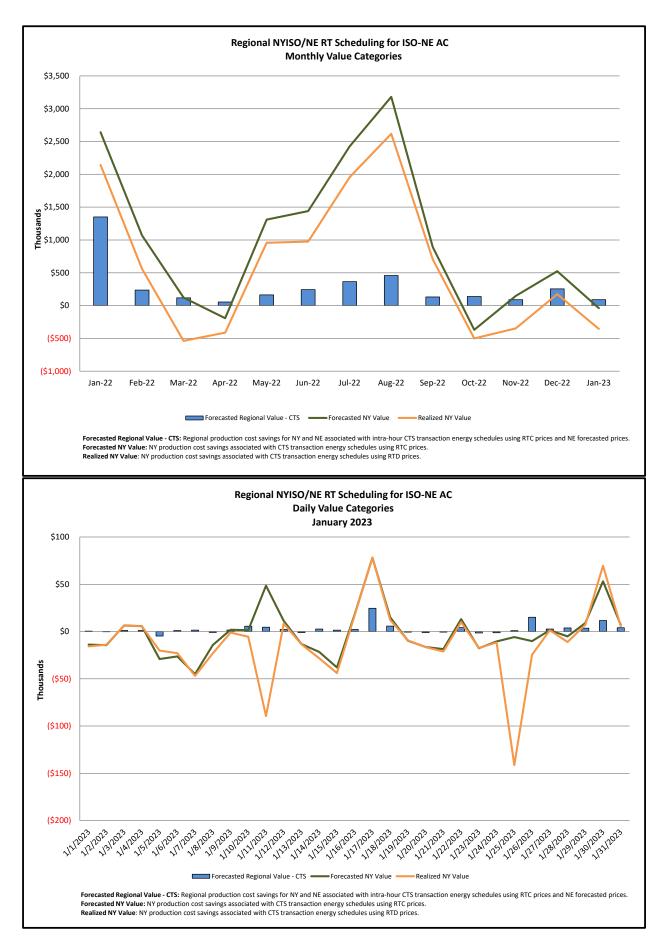


PAR Interconnection Congestion Coordination				
<u>Category</u> NY	<u>Description</u> Represents the value NY realizes from Market-to-Market PAR Coordination when experiencing congestion. This is the estimated savings to NY for additional deliveries into NY			
RECO	Represents the value of PJM's obligation 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.			



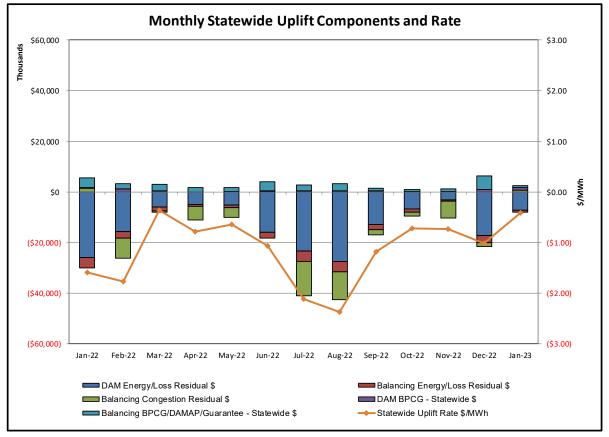


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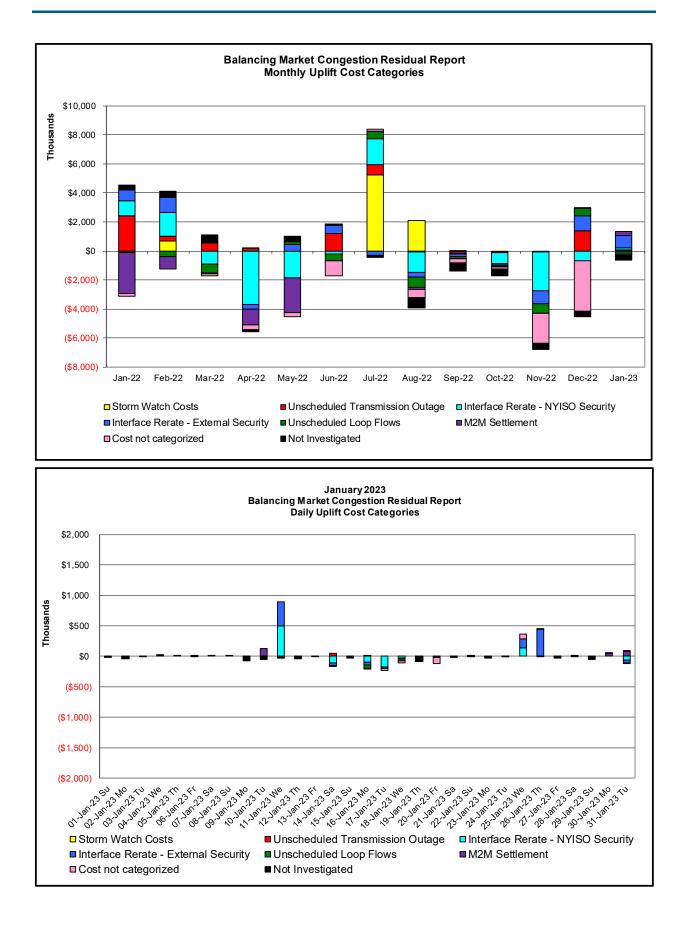


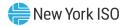


Market Performance Metrics





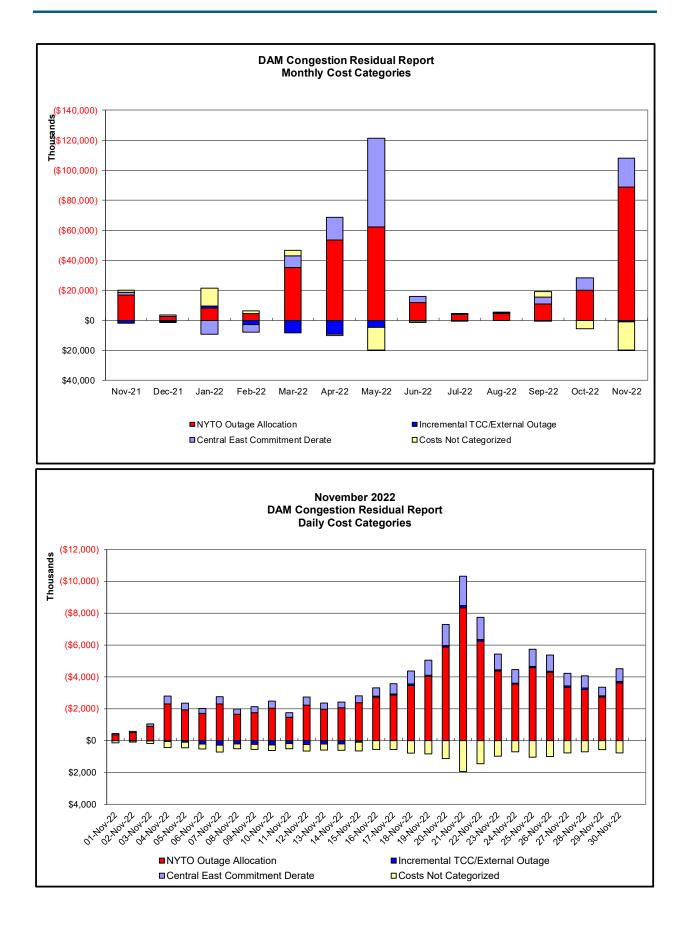




Day's in	Day's investigated in January: 11,14,16,17,18,20,25,26,31			
Event	Description	January Dates		
	Forced outage Fitzpatrick-Edic 345kV (#FE-1)	14		
	NYCA DNI Ramp Limit	11,14,16,17,25,31		
	Uprate Central East	11,14,16-18,31		
	Uprate East Garden City-Valley Stream 138kV (#262)	11		
	Uprate Goethals-Gowanus 345kV (#25)	17		
	Uprate Goethals-Gowanus 345kV (#26)	17		
	Uprate Goethals-Gowanus 345kV (#26) I/o SCB:GOETH(5):25&R25&A2253&BK1	11		
	Uprate Northport-Pilgrim 138kV (#672) I/o BUS:NRTHPRT 677 & PS2 & G2	11		
	IESO_AC ACTIVE DNI Ramp Limit	16,18,20,31		
	NE_AC - NY Scheduling Limit	11,14,16,17,26,31		
	NE_AC ACTIVE DNI Ramp Limit	11,17,25,26		
	PJM_AC ACTIVE DNI Ramp Limit	11,14,18,31		
	Lake Erie Circulation, DAM-RTM exceeds +/-125MW; Central East	11,16-18,20,31		
	Lake Erie Circulation, DAM-RTM exceeds +/-125MW; West	11,16-18,20		

	.		
<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 Rerate 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 Rep	ort Assumptions/No	tes	



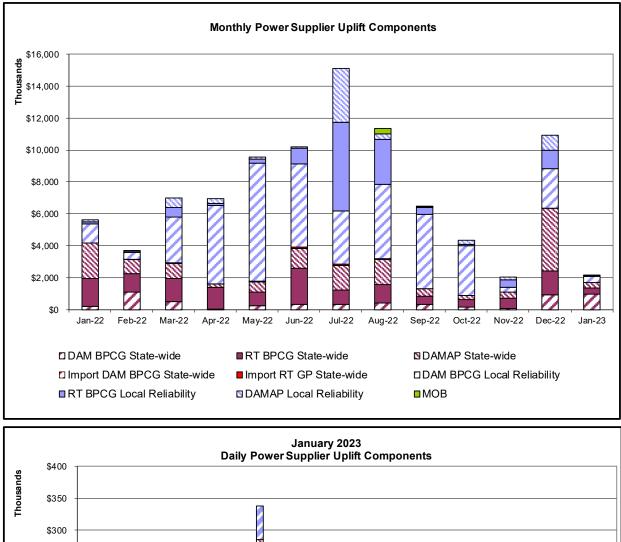


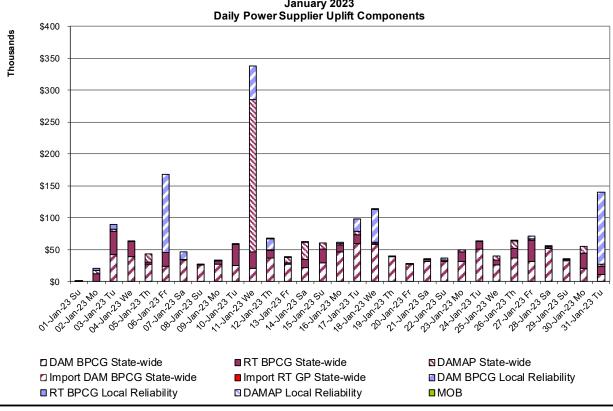


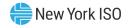
Day-Ahead Market Congestion Residual Categories

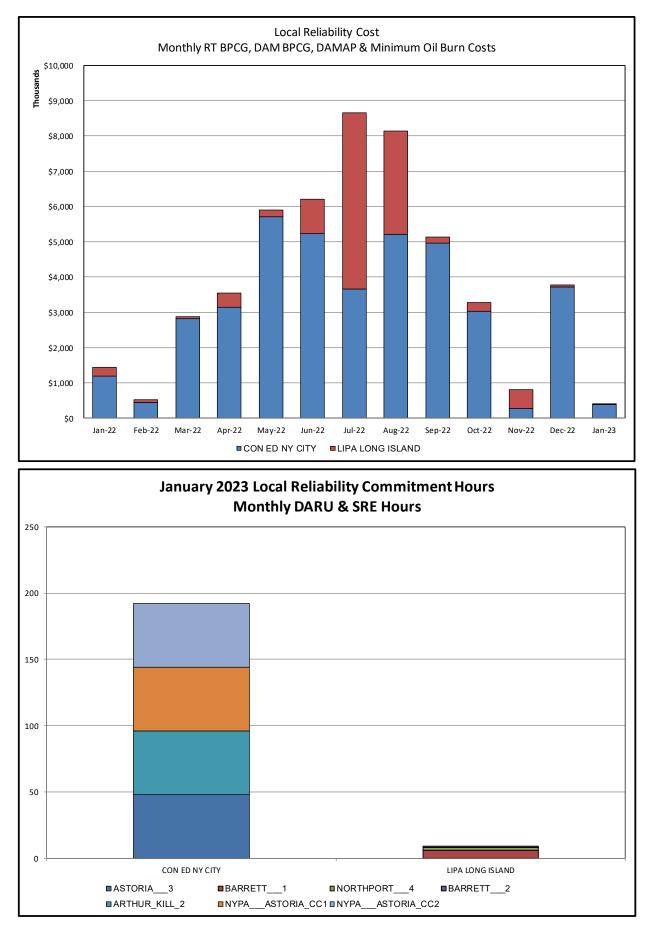
<u>Category</u> NYTO Outage Allocation	<u>Cost Assignment</u> Responsible TO	<u>Events Types</u> Direct allocation to NYTO's responsible for transmission equipment status change.	Event Examples DAM scheduled outage for equipment modeled in- service for the TCC Auction.
Incremental TCC/External Outage 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.	



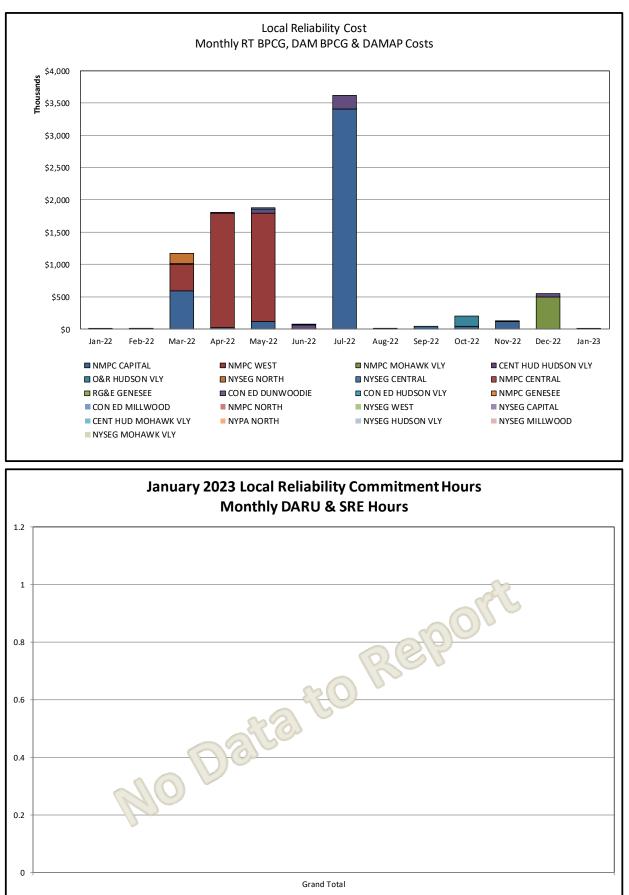






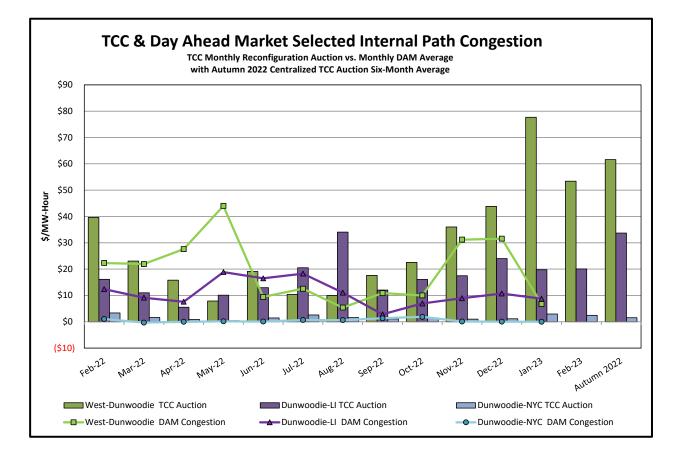


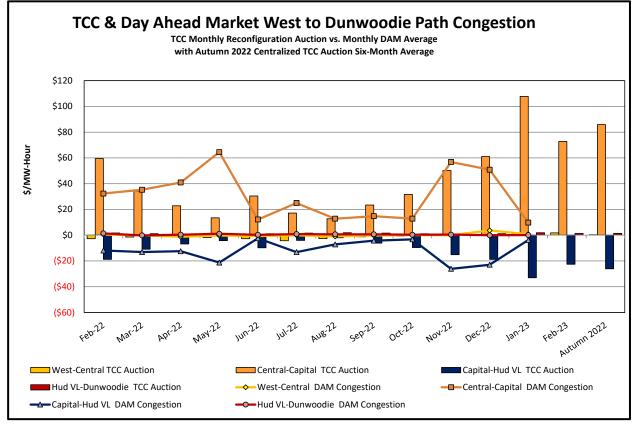


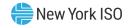


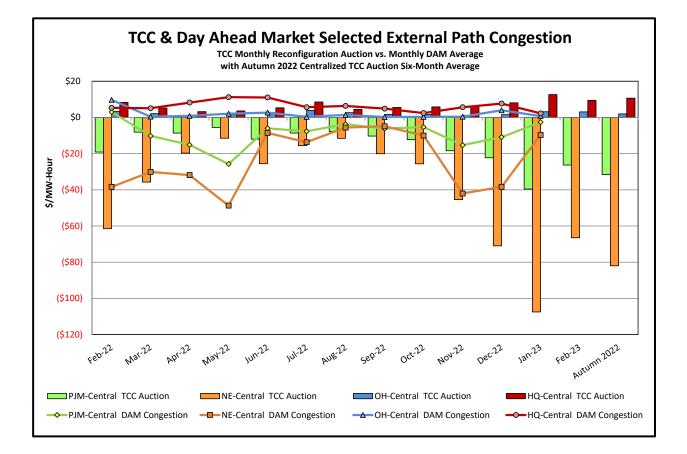
Grand Total



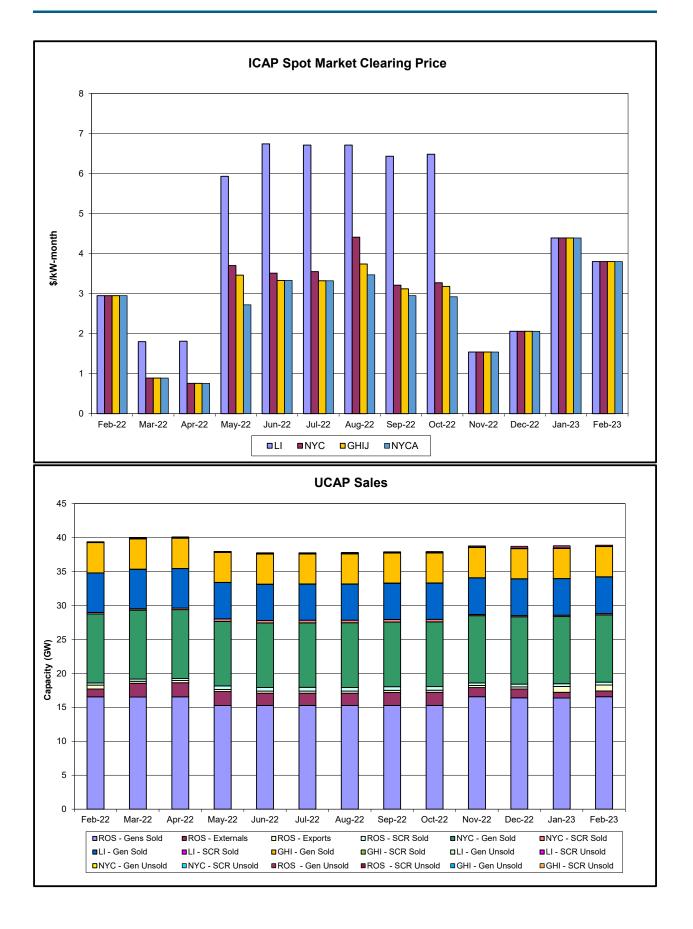






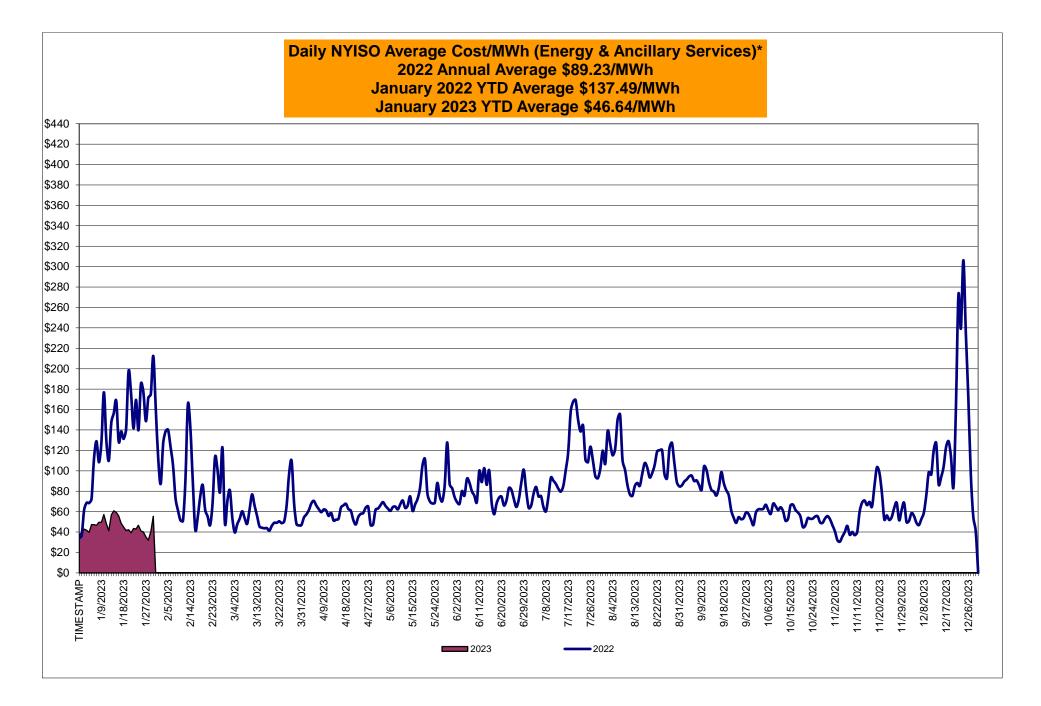






Market Performance Highlights January 2023

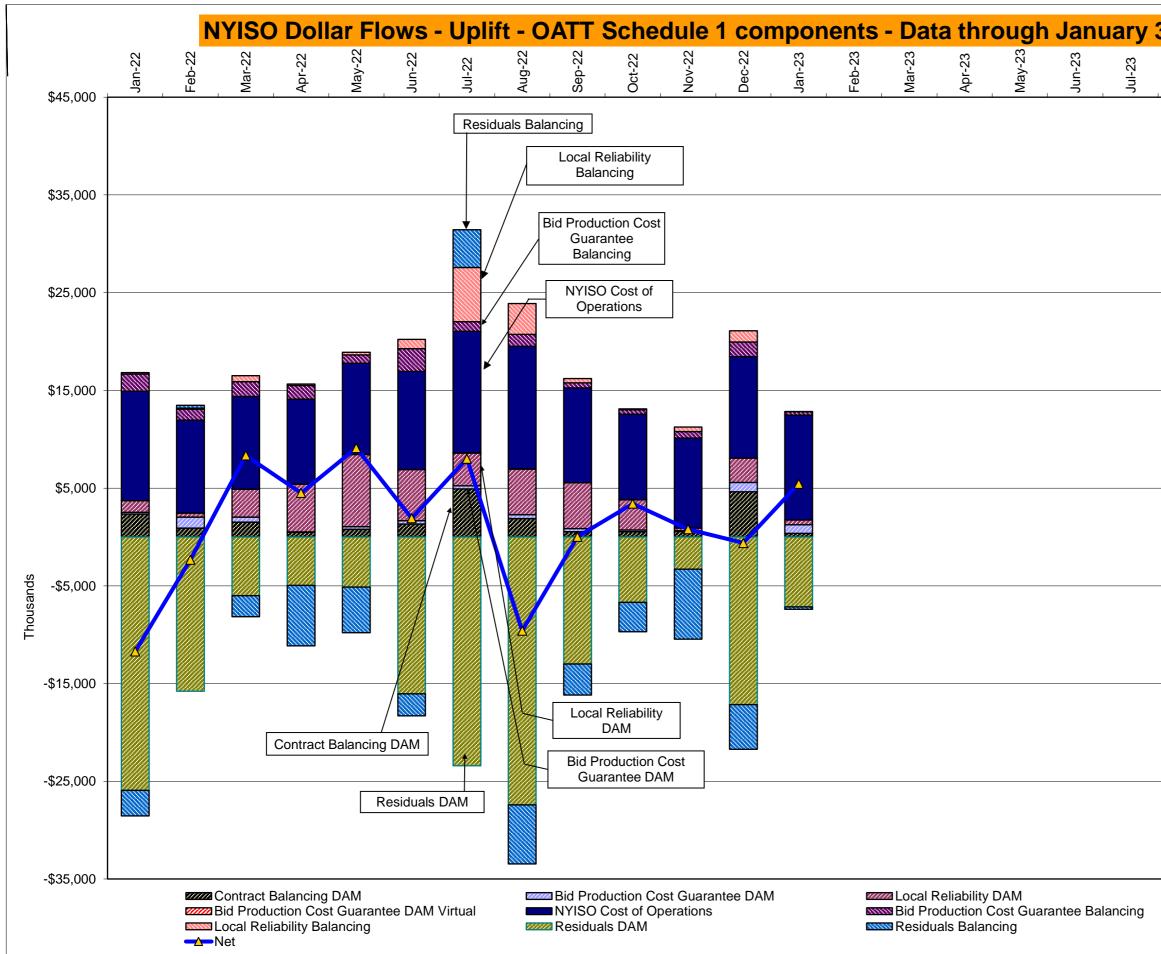
- LBMP for January is \$42.10/MWh; lower than \$110.17/MWh in December 2022 and \$134.79/MWh in January 2022.
 - Day Ahead Load Weighted LBMPs and Real Time Load Weighted LBMPs are lower compared to December.
- January 2023 average year-to-date monthly cost of \$46.64/MWh is an 66% decrease from \$137.49/MWh in January 2022.
- Average daily sendout is 410 GWh/day in January; lower than 421 GWh/day in December 2022 and 451 GWh/day in January 2022.
- Natural gas prices are lower and distillate prices are higher compared to the previous month.
 - Natural Gas (Transco Z6 NY) was \$3.20/MMBtu, down from \$10.75/MMBtu in December.
 - Natural gas prices (Transco Z6 NY) are down 71.3% year-over-year.
 - Jet Kerosene Gulf Coast was \$26.44/MMBtu, up from \$21.38/MMBtu in December.
 - Ultra Low Sulfur No.2 Diesel NY Harbor was \$23.44/MMBtu, up from \$22.30/MMBtu in December.
 - Distillate prices are up 36.8% year-over-year.
- Uplift per MWh is higher compared to the previous month.
 - Uplift (not including NYISO cost of operations) is (\$0.38)/MWh; higher than (\$0.77)/MWh in December.
 - Local Reliability Share is \$0.03/MWh, lower than \$0.25/MWh in December.
 - Statewide Share is (\$0.41)/MWh, higher than (\$1.02)/MWh in December.
 - TSA \$ per NYC MWh is \$0.00/MWh.
 - Total uplift costs (Schedule 1 components including NYISO Cost of Operations) are higher than December.



* Excludes ICAP payments.

NYISO Average Cost/MWh (Energy and Ancillary Services) * from the LBMP Customer point of view

2023	<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	May	<u>June</u>	<u>July</u>	<u>August</u>	<u>September</u>	<u>October</u>	<u>November</u>	<u>December</u>
LBMP	42.10	-		-	-		-	-	-			
NTAC	2.82											
Reserve	0.72											
Regulation	0.09											
NYISO Cost of Operations	0.77											
FERC Fee Recovery	0.08											
Uplift	(0.38)											
Uplift: Local Reliability Share	0.03											
Uplift: Statewide Share	(0.41)											
Voltage Support and Black Start	0.42											
Avg Monthly Cost	46.56											
Avg YTD Cost	46.64											
Avg TTD Cost	40.04											
TSA \$ per NYC MWh	0.00											
2022	lonuony	February	Morob	April	Mov	luno	lukz	August	Sontombor	Octobor	November	December
LBMP	<u>January</u> 134.79	February	March	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u> 99.47	August	September 78.01	October	November	December
NTAC	1.43	94.06	56.78 1.48	56.46 1.17	70.60 2.46	76.72 2.07	99.47 3.65	108.85	78.91 1.44	53.11 3.21	52.47 3.91	110.17 2.23
Reserve	1.43	0.95 1.21	0.83	0.81	2.40 0.74	2.07	3.65 0.87	1.69 0.65	0.86	3.21 1.02	0.89	2.23 0.49
	0.27	0.19	0.83	0.01	0.74	0.88	0.87	0.65	0.88	0.18	0.89	0.49
Regulation NYISO Cost of Operations	0.27	0.19	0.17	0.12	0.13	0.15	0.12	0.13	0.18	0.18	0.13	0.12
FERC Fee Recovery	0.73	0.72	0.74	0.74	0.74	0.75	0.76	0.76	0.78	0.73	0.74	0.73
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 montiny oost	101171	00.02	00.04	00.00	10.01	00.17	100.10	110.01	01.01	00.20	07.01	110.40
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



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.

81, 20	J23				
J-23)-23	Oct-23	Nov-23	Dec-23	
31, 20	Sep	Oct	Nov	Dec	

NYISO Markets Transactions

<u>2023</u>	lanuary	February	March	April	May	June
	January	rebiualy	<u>Indi CIT</u>	<u>April</u>	<u>iviay</u>	June
Day Ahead Market MWh	13,662,137					
DAM LSE Internal LBMP Energy Sales	55%					
DAM External TC LBMP Energy Sales	7%					
DAM Bilateral - Internal Bilaterals	28%					
DAM Bilateral - Importl/Non-LBMP Market Bilaterals	5%					
DAM Bilateral - Export/Non-LBMP Market Bilaterals	2%					
DAM Bilateral - Wheel Through Bilaterals	3%					
Balancing Energy Market MWh	328,840					
Balancing Energy LSE Internal LBMP Energy Sales	65%					
Balancing Energy External TC LBMP Energy Sales	68%					
Balancing Energy Bilateral - Internal Bilaterals	2%					
Balancing Energy Bilateral - Importl/Non-LBMP Market Bilaterals	0%					
Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals	7%					
Balancing Energy Bilateral - Wheel Through Bilaterals	-43%					
Transactions Summary						
LBMP	63%					
Internal Bilaterals	28%					
Import Bilaterals	5%					
Export Bilaterals	2%					
Wheels Through	2%					
Market Share of Total Load						
Day Ahead Market	97.6%					
Balancing Energy +	2.4%					
Total MWH	13,990,977					
Average Daily Energy Sendout/Month GWh	410					

<u>2022</u>	<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	<u>September</u>	<u>October</u>	<u>November</u>	<u>December</u>
Day Ahead Market MWh	14,327,101	12,477,485	12,137,757	10,992,578	12,176,102	12,945,740	15,905,937	15,770,210	12,467,212	11,527,745	11,952,855	13,768,799
DAM LSE Internal LBMP Energy Sales	57%	56%	59%	56%	55%	60%	64%	63%	62%	58%	56%	56%
DAM External TC LBMP Energy Sales	7%	8%	3%	5%	6%	3%	3%	3%	2%	3%	4%	6%
DAM Bilateral - Internal Bilaterals	28%	28%	29%	31%	31%	29%	26%	26%	27%	30%	31%	29%
DAM Bilateral - Importl/Non-LBMP Market Bilaterals	4%	4%	4%	5%	4%	4%	4%	5%	6%	5%	5%	5%
DAM Bilateral - Export/Non-LBMP Market Bilaterals	2%	2%	2%	2%	2%	2%	1%	1%	2%	2%	2%	2%
DAM Bilateral - Wheel Through Bilaterals	2%	2%	2%	2%	2%	2%	2%	2%	2%	2%	2%	2%
Balancing Energy Market MWh	942,823	742,449	758,386	772,666	378,503	464,231	567,602	785,464	361,883	379,932	519,117	528,939
Balancing Energy LSE Internal LBMP Energy Sales	88%	83%	76%	60%	65%	66%	72%	86%	66%	45%	38%	45%
Balancing Energy External TC LBMP Energy Sales	16%	19%	24%	33%	32%	36%	23%	14%	34%	55%	58%	56%
Balancing Energy Bilateral - Internal Bilaterals	1%	2%	2%	0%	5%	2%	1%	0%	1%	0%	2%	2%
Balancing Energy Bilateral - Importl/Non-LBMP Market Bilaterals	0%	0%	0%	0%	2%	2%	2%	0%	0%	0%	0%	0%
Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals	4%	9%	8%	7%	9%	8%	6%	3%	5%	7%	7%	5%
Balancing Energy Bilateral - Wheel Through Bilaterals	-9%	-13%	-10%	-1%	-12%	-14%	-4%	-3%	-5%	-7%	-5%	-8%
Transactions Summary												
LBMP	67%	66%	65%	62%	63%	64%	68%	68%	65%	62%	62%	64%
Internal Bilaterals	26%	27%	27%	29%	30%	28%	25%	25%	27%	29%	29%	28%
Import Bilaterals	3%	4%	4%	4%	4%	4%	3%	4%	6%	5%	5%	5%
Export Bilaterals	2%	2%	2%	2%	2%	2%	2%	1%	2%	2%	2%	2%
Wheels Through	1%	1%	2%	2%	2%	2%	1%	1%	2%	1%	2%	2%
Market Share of Total Load												
Day Ahead Market	93.8%	94.4%	94.1%	93.4%	97.0%	96.5%	96.6%	95.3%	97.2%	96.8%	95.8%	96.3%
Balancing Energy +	6.2%	5.6%	5.9%	6.6%	3.0%	3.5%	3.4%	4.7%	2.8%	3.2%	4.2%	3.7%
Total MWH	15,269,924	13,219,933	12,896,143	11,765,244	12,554,605	13,409,971	16,473,538	16,555,674	12,829,095	11,907,677	12,471,972	14,297,738
Average Daily Energy Sendout/Month GWh	451	429	390	359	372	422	509	514	411	359	382	421

+ 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.

Market Mitigation and Analysis Prepared: 2/9/2023 11:40 AM

<u>July</u>	<u>August</u>	<u>September</u>	<u>October</u>	<u>November</u>	<u>December</u>
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Notes: Percent totals may not equal 100% due to rounding. Virtual Transactions are not reflected in this chart.

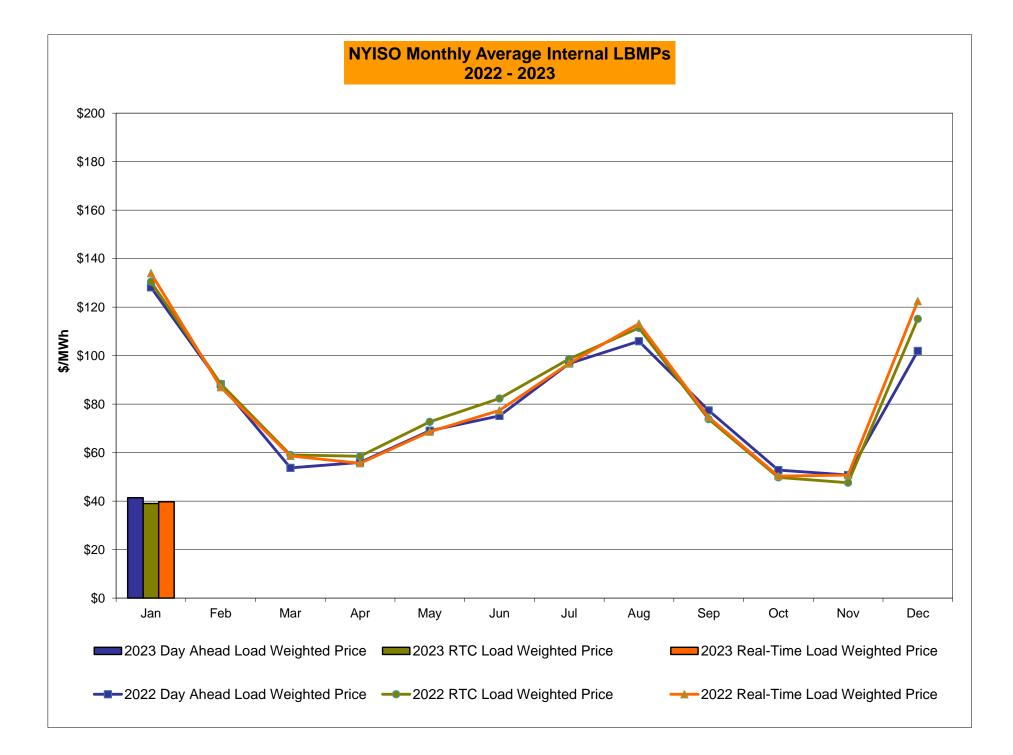
NYISO Markets 2022 Energy Statistics

	<u>January</u>	February	March	April	May	June	July	August	<u>September</u>	<u>October</u>	November December	
DAY AHEAD LBMP												
Price *	\$40.60											
Standard Deviation	\$10.32											
Load Weighted Price **	\$41.37											
RTC LBMP												
Price *	\$38.28											
Standard Deviation	\$31.37											
Load Weighted Price **	\$39.04											
	~~~											
REAL TIME LBMP												
Price *	\$38.76											
Standard Deviation	\$45.06											
Load Weighted Price **	\$39.68											
Average Daily Energy Sendout/Month GWh	410											

NYISO Markets 2021 Energy Statistics

	<u>January</u>	<u>February</u>	March	<u>April</u>	May	<u>June</u>	<u>July</u>	<u>August</u>	<u>September</u>	<u>October</u>	November	<u>December</u>
	\$404.00	ФО <u>Б</u> ОО	()		© ©© 4.4	ФТ О 40	\$00.40	¢400 74	<u>Ф</u> Т4 ОО		¢ 40.00	\$00.00
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.

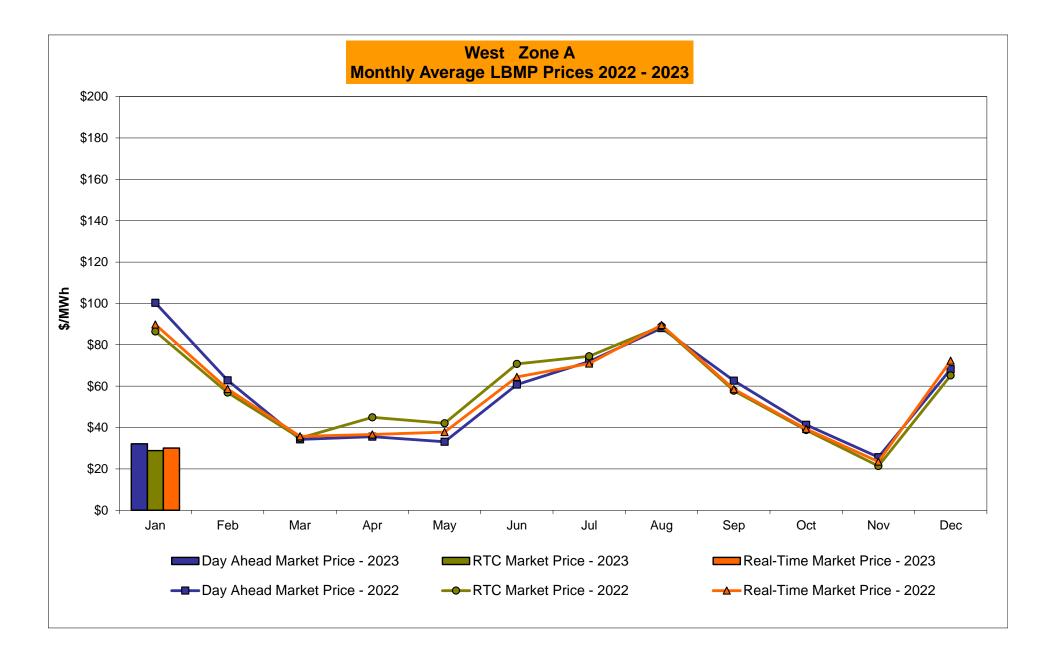


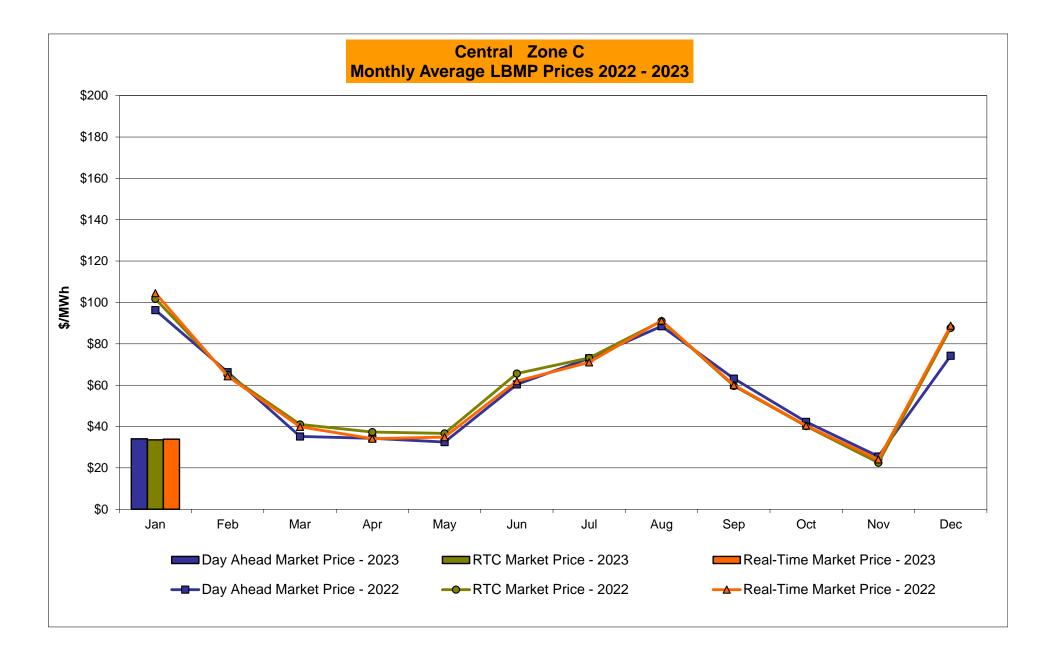
January 2023 Zonal LBMP Statistics for NYISO (\$/MWh)

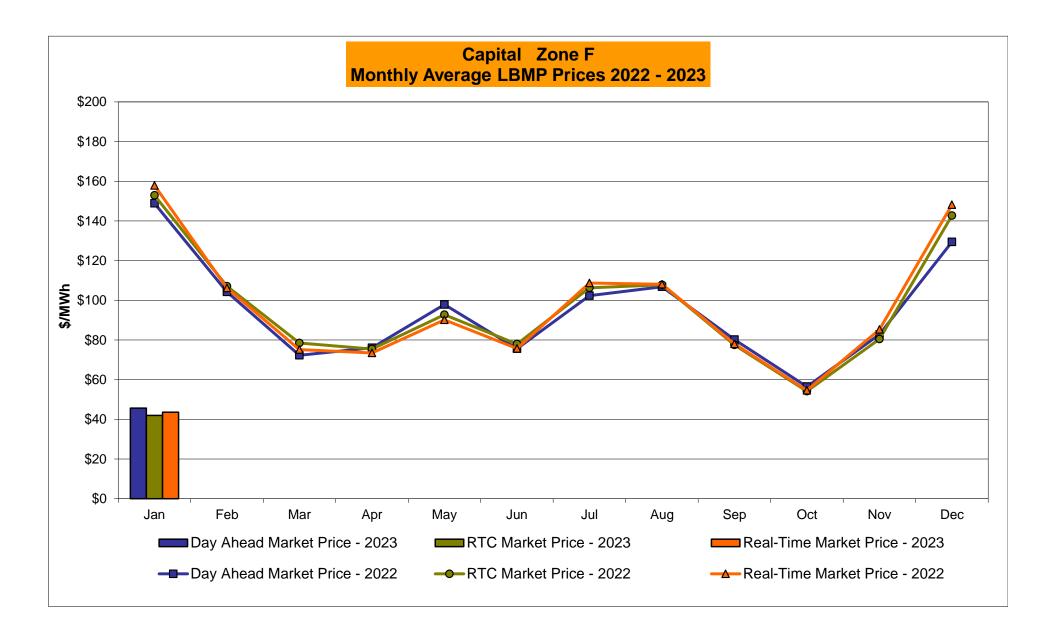
	WEST Zone A	GENESEE Zone B	NORTH Zone D	CENTRAL Zone C	MOHAWK VALLEY <u>Zone E</u>	CAPITAL Zone F	HUDSON VALLEY <u>Zone G</u>	MILLWOOD Zone H	DUNWOODIE <u>Zone I</u>	NEW YORK CITY <u>Zone J</u>	LONG ISLAND <u>Zone K</u>
DAY AHEAD LBMP	00.44	00.00	04.44	04.05	05.00	45.07	40.05	10.04	40.05	40.77	50.44
Unweighted Price *	32.11	32.92	31.41	34.05	35.03	45.67	42.25	42.61	42.65	42.77	52.14
Standard Deviation	7.94	7.84	8.57	7.99	8.56	14.92	11.07	11.16	11.12	11.09	15.95
RTC LBMP											
Unweighted Price *	28.86	31.56	30.44	33.58	33.61	42.00	39.40	39.68	39.69	39.75	50.76
Standard Deviation	28.08	28.29	29.89	29.22	30.30	32.68	31.34	31.59	31.52	31.63	58.05
REAL TIME LBMP											
Unweighted Price *	30.11	32.19	30.93	33.89	34.22	43.63	40.27	40.54	40.55	40.56	49.29
Standard Deviation	41.64	42.11	43.92	43.13	44.80	50.86	45.82	46.13	46.01	46.17	57.86
						50.00					

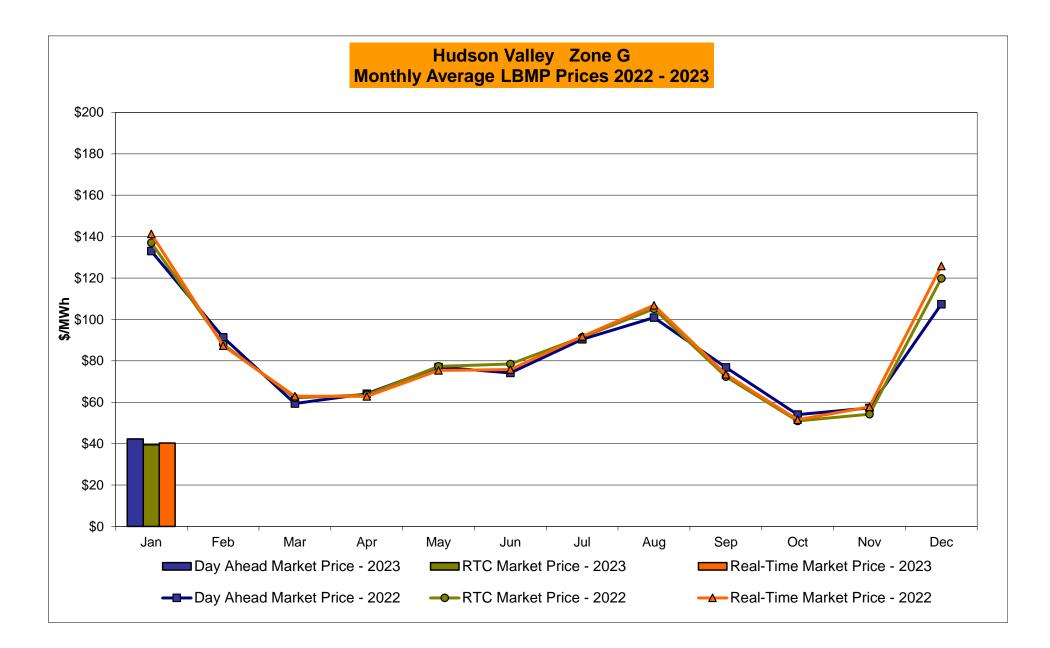
	ONTARIO	HYDRO QUEBEC	HYDRO QUEBEC		NEW	CROSS SOUND	NORTHPORT-				
	IESO		(Import/Export)	PJM	ENGLAND	CABLE	NORWALK	NEPTUNE	LINDEN VFT	HUDSON	Dennison
	70	7	7	7	7 N	<u>Controllable</u>		<u>Controllable</u>	<u>Controllable</u>	<u>Controllable</u>	Controllable
DAY AHEAD LBMP	<u>Zone O</u>	<u>Zone M</u>	<u>Zone M</u>	Zone P	<u>Zone N</u>	Line	Line	Line	Line	Line	<u>Line</u>
Unweighted Price *	31.47	30.81	30.81	36.97	45.67	51.50	50.06	47.52	42.25	42.57	30.83
Standard Deviation	7.66	7.17	7.17	8.56	12.93	15.85	14.67	13.22	10.46	11.05	8.22
RTC LBMP											
Unweighted Price *	27.26	29.64	29.64	33.45	47.11	48.85	48.25	44.43	38.07	38.50	28.92
Standard Deviation	9.67	10.25	10.25	9.81	26.06	48.12	47.98	32.17	11.85	12.33	11.06
REAL TIME LBMP											
Unweighted Price *	31.29	29.74	29.74	33.84	44.24	48.34	46.76	43.52	37.30	38.97	28.98
Standard Deviation	40.82	15.39	15.39	14.85	25.05	55.70	54.98	29.67	31.55	17.75	43.61

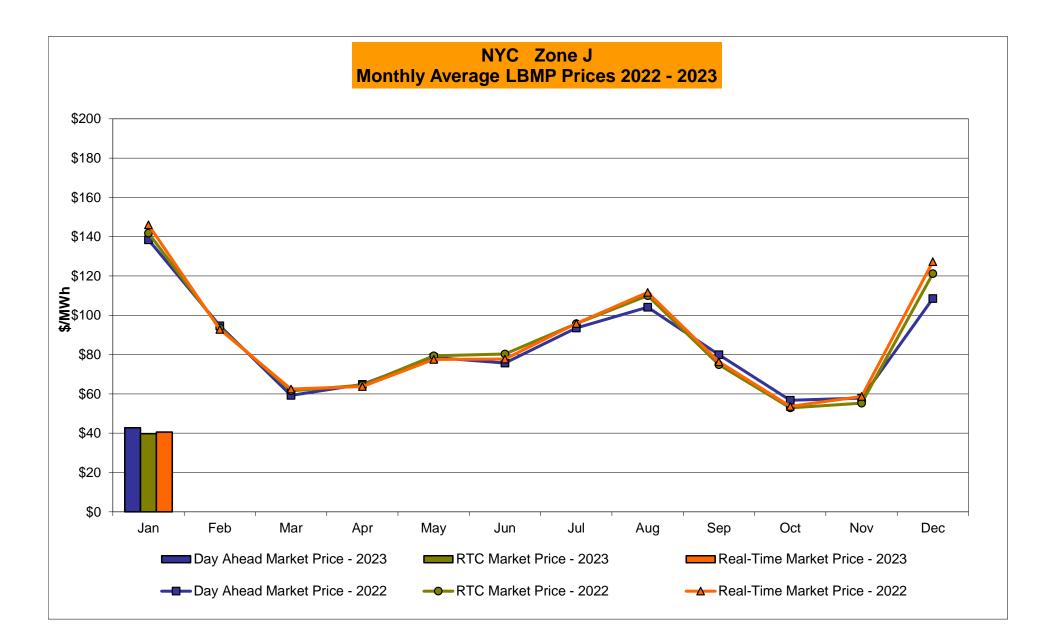
* Straight LBMP averages

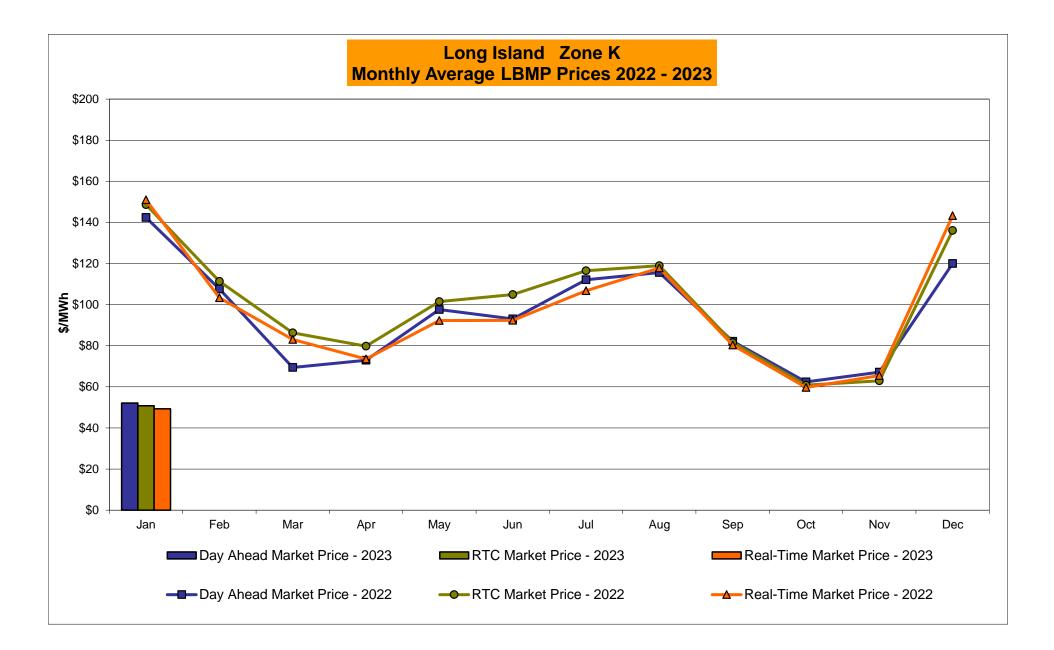


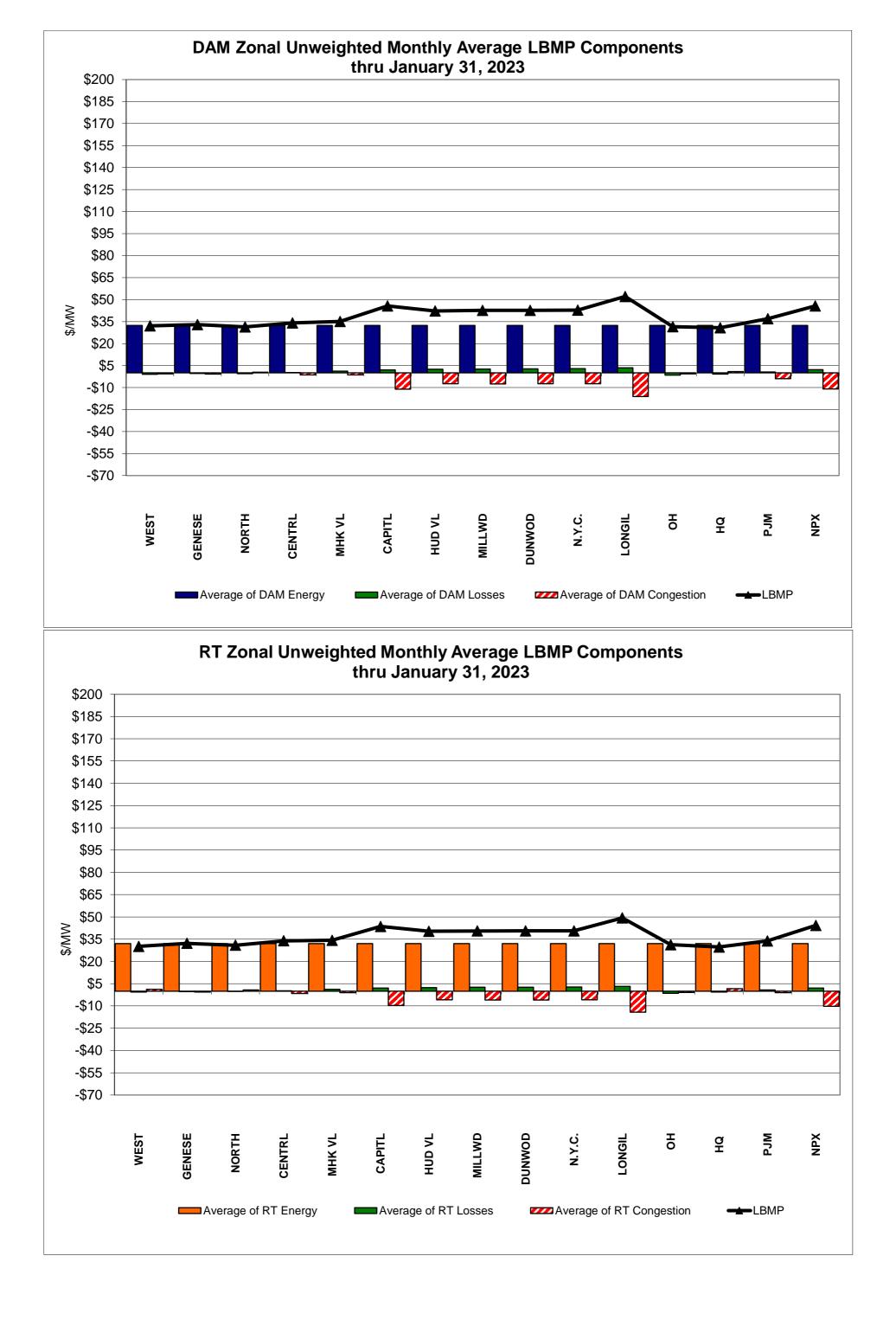




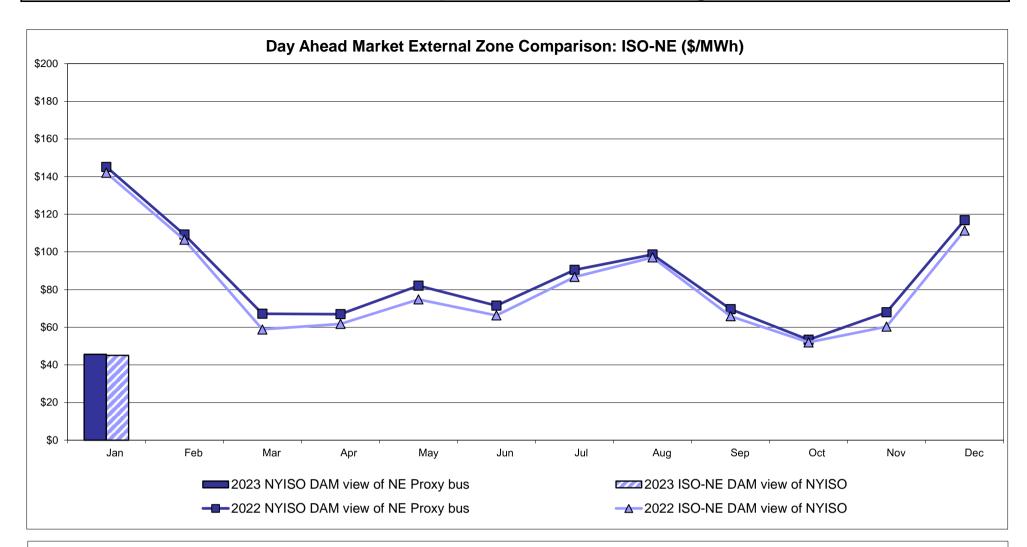


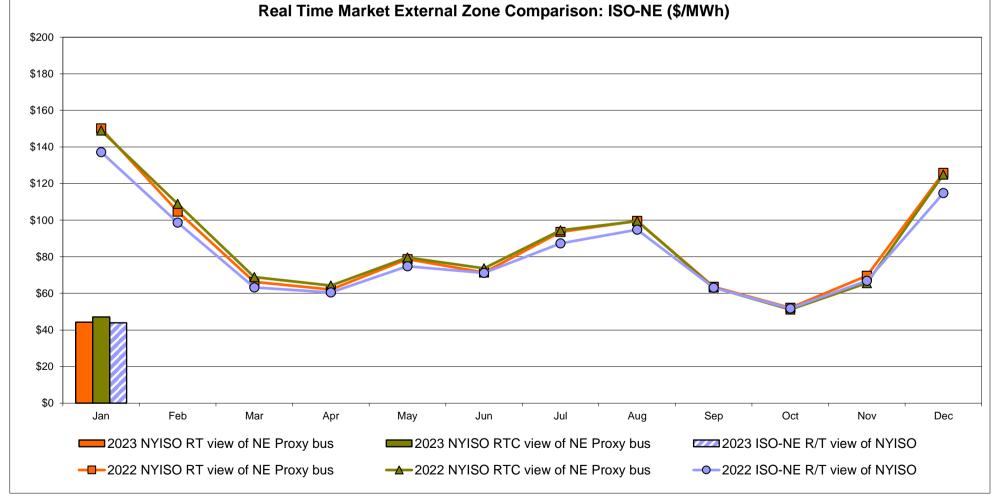


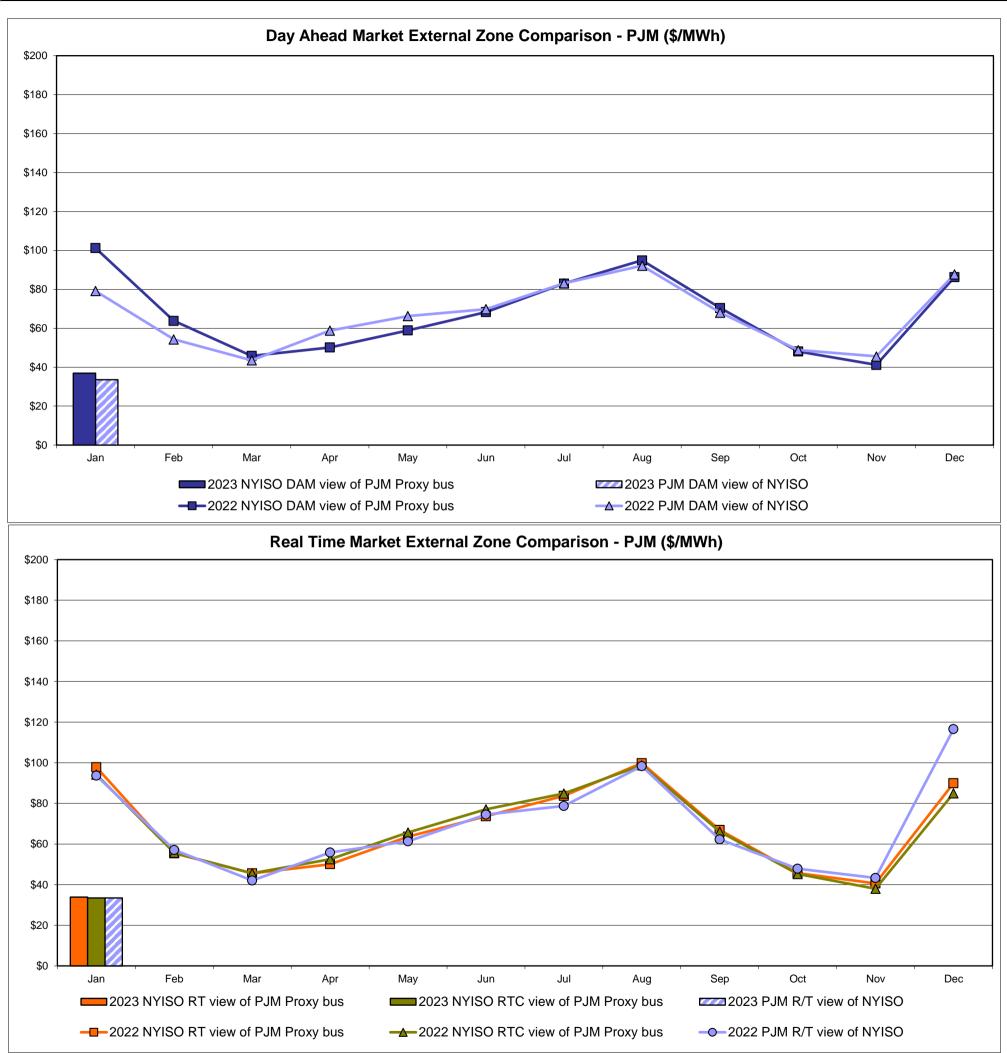




External Comparison ISO-New England

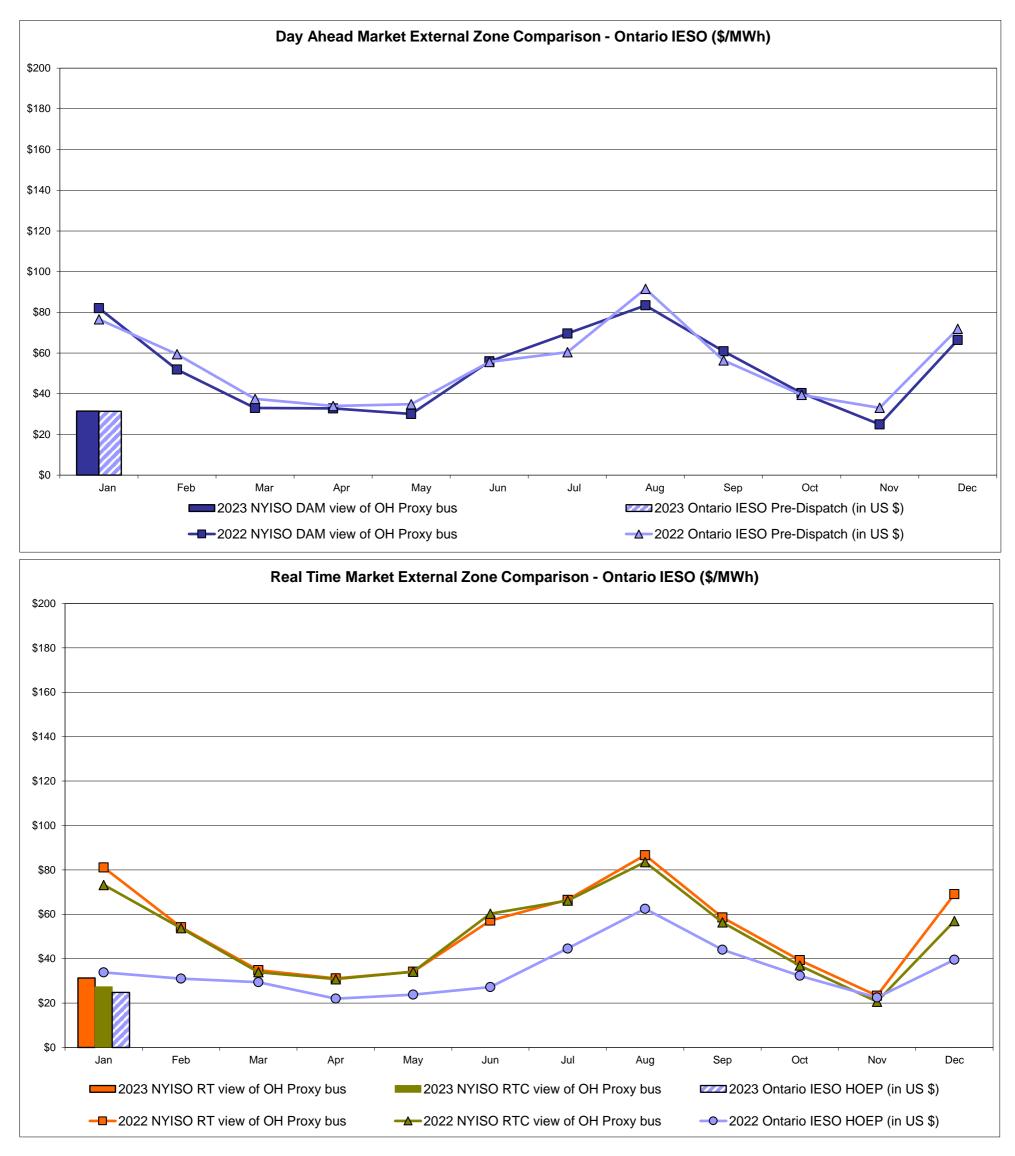




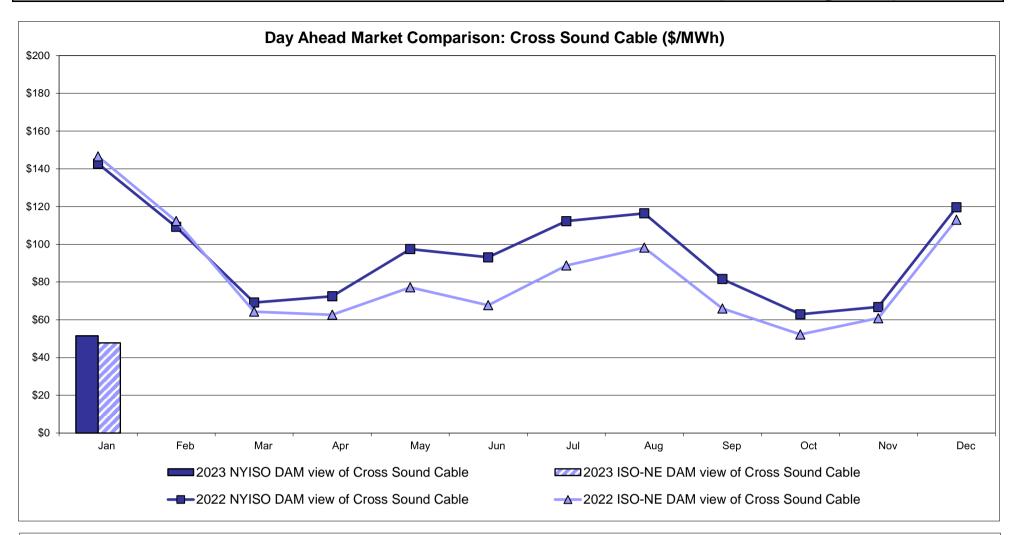


External Comparison PJM

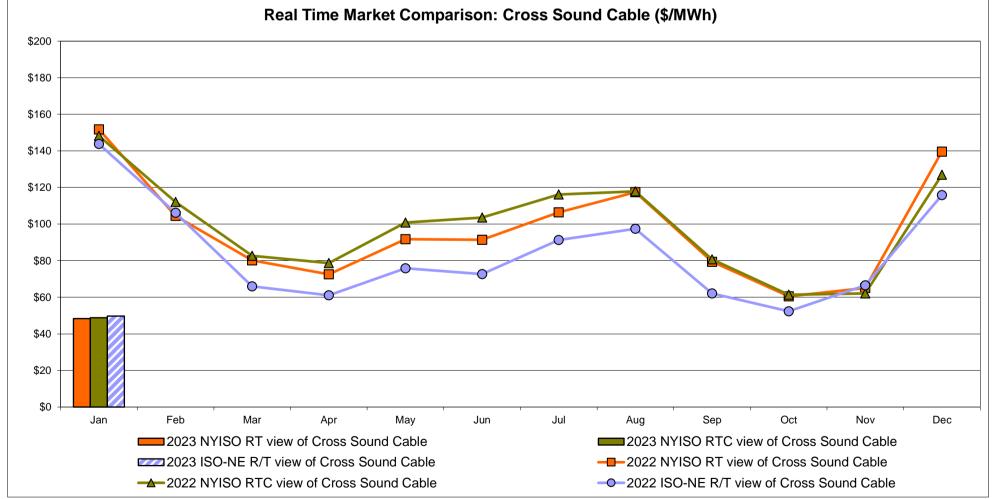
External Comparison Ontario IESO



Notes: Exchange factor used for January 2023 was 0.745045447772314 to US HOEP: Hourly Ontario Energy Price Pre-Dispatch: Projected Energy Price



External Controllable Line: Cross Sound Cable (New England)

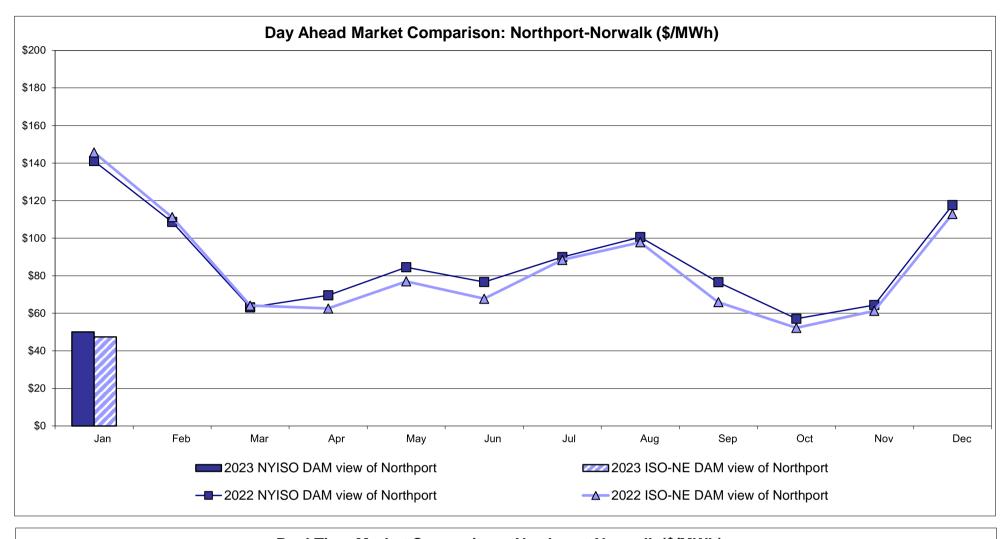


Note:

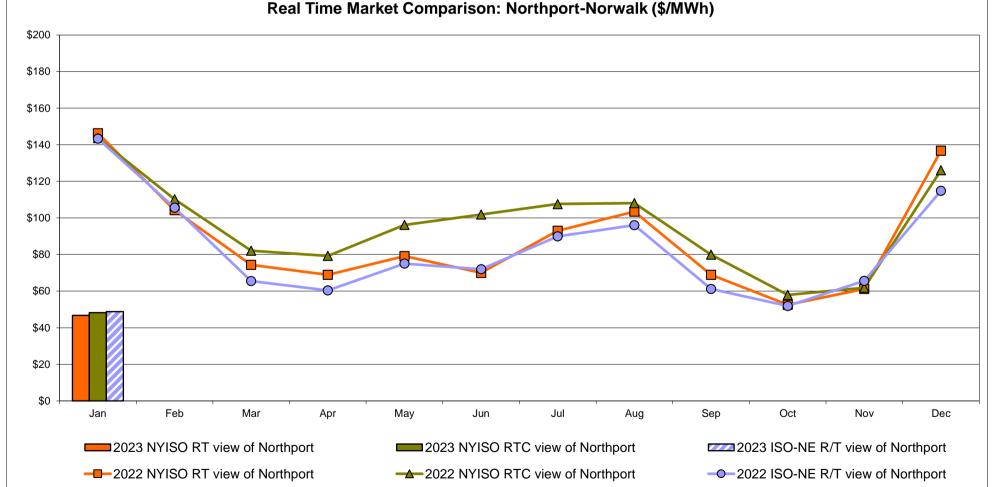
The DAM and R/T prices at the Shorham 13899 interface are used for ISO-NE.

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

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



External Controllable Line: Northport - Norwalk (New England)

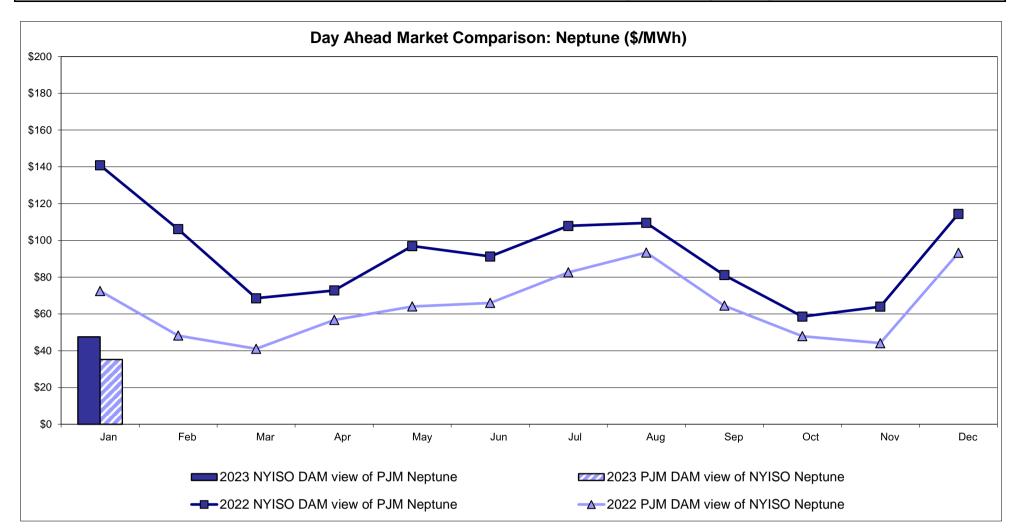


Note:

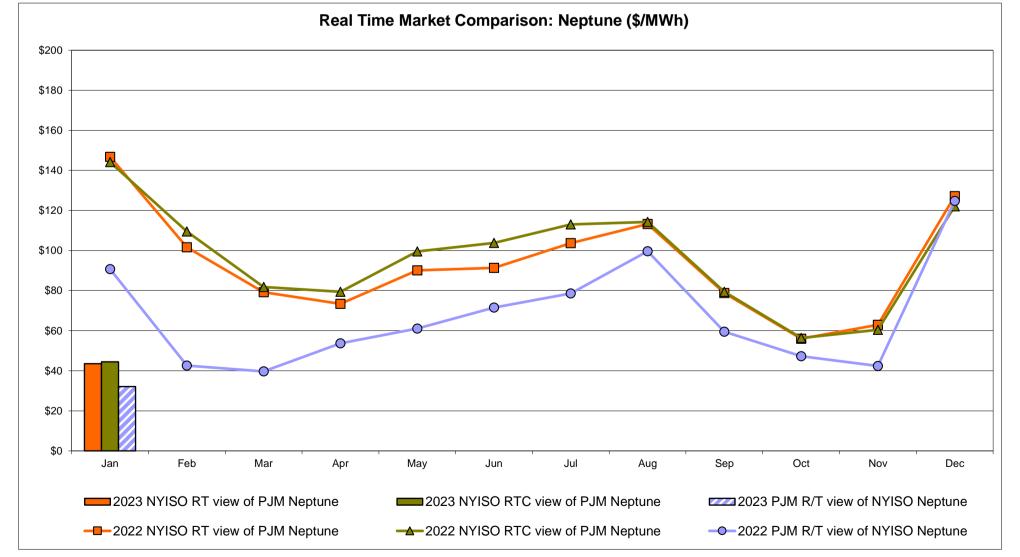
ISO-NE Forecast is an advisory posting @ 18:00 day before.

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

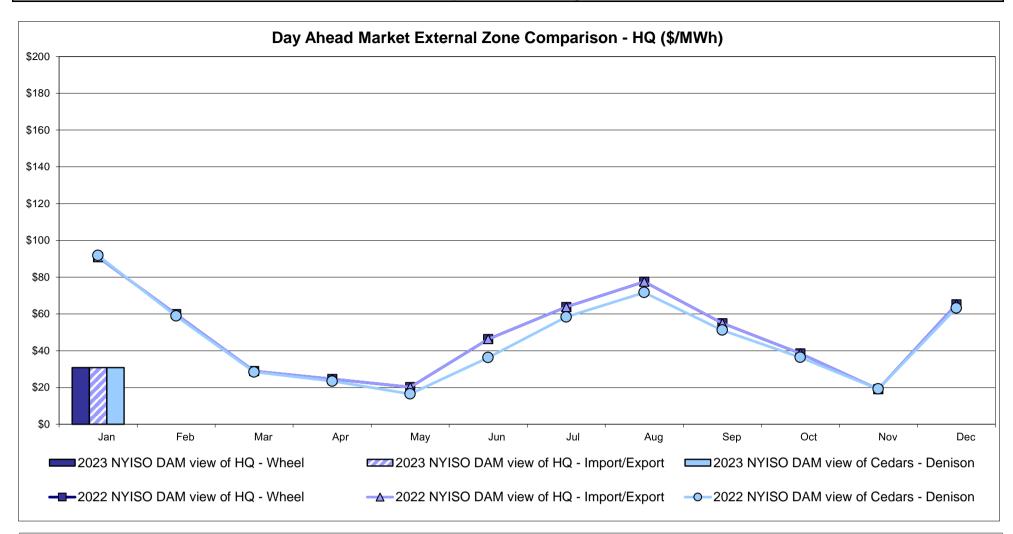
The DAM and R/T prices at the 1385 interface are used for NYISO.

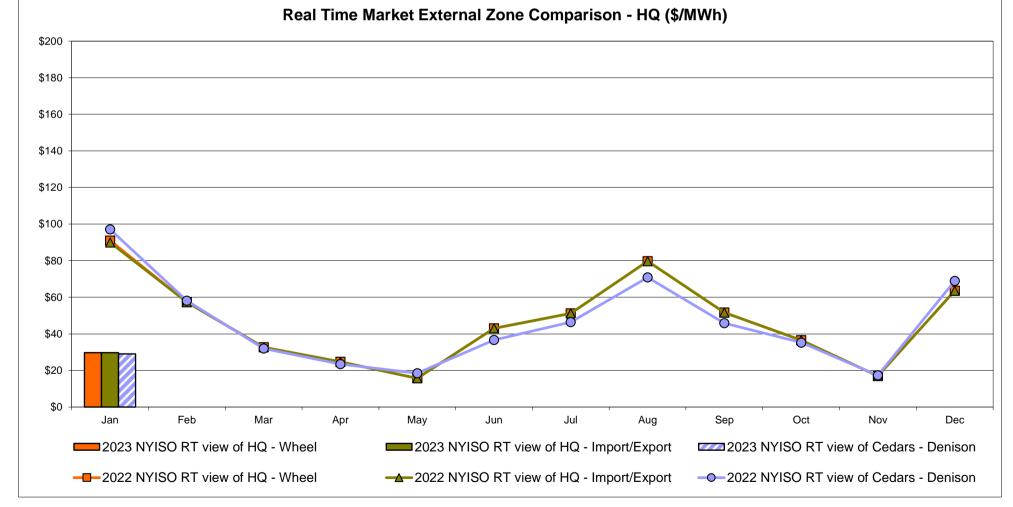


External Controllable Line: Neptune (PJM)



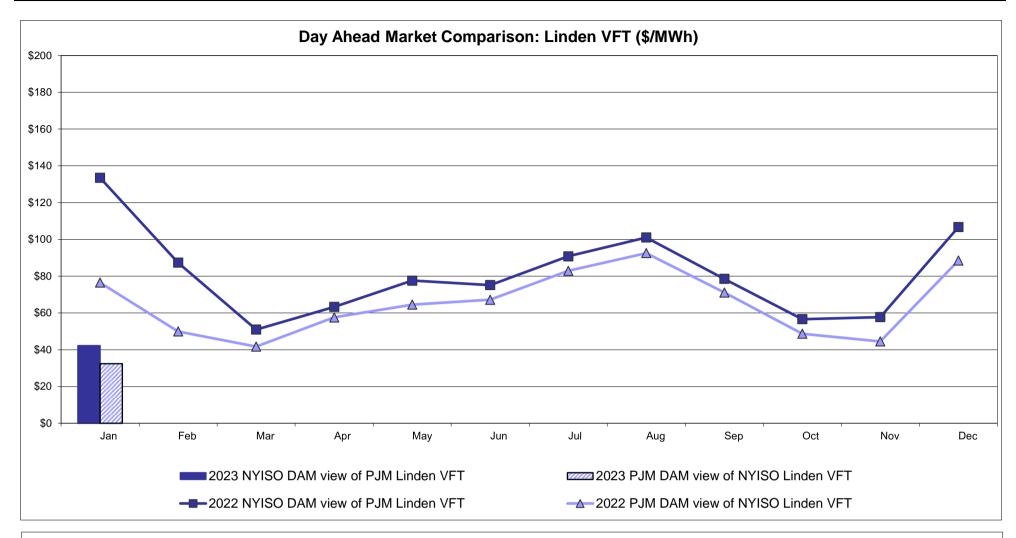
External Comparison Hydro-Quebec



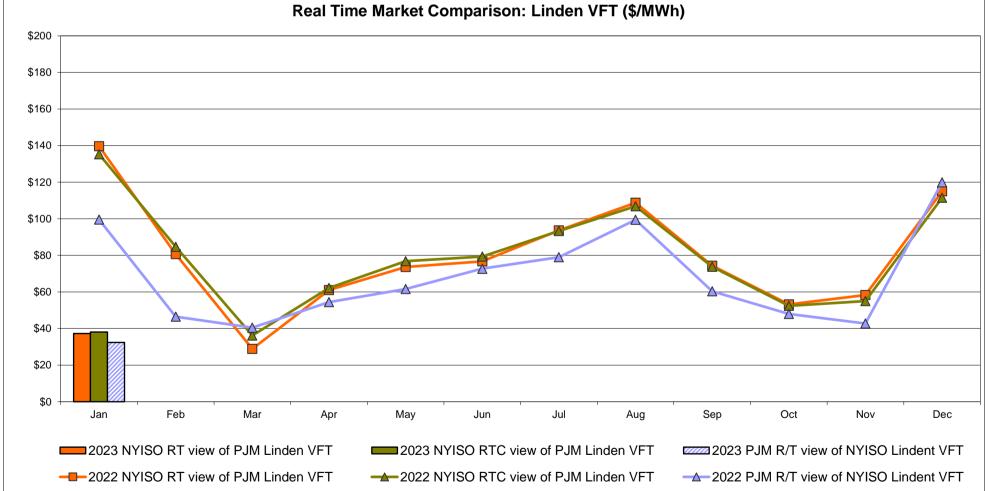


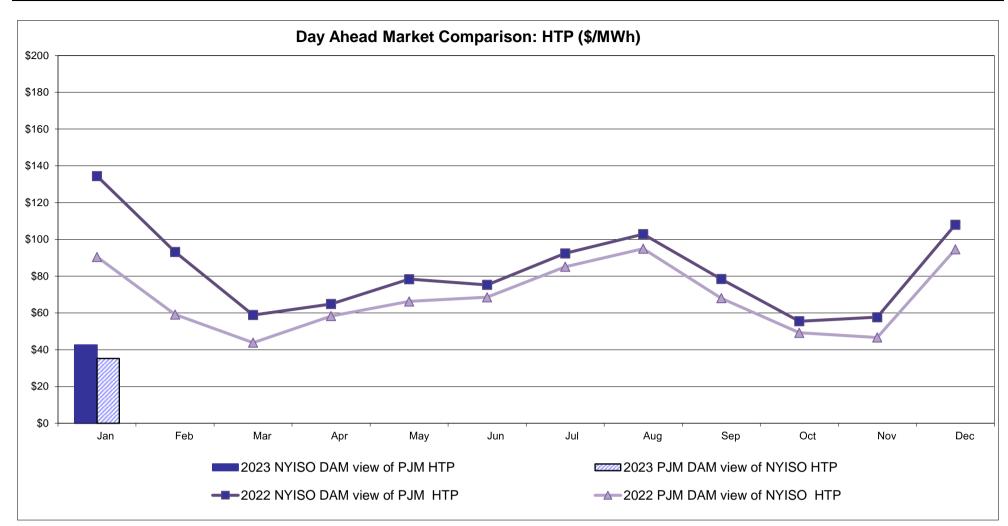
Note:

Hydro-Quebec Prices are unavailable.

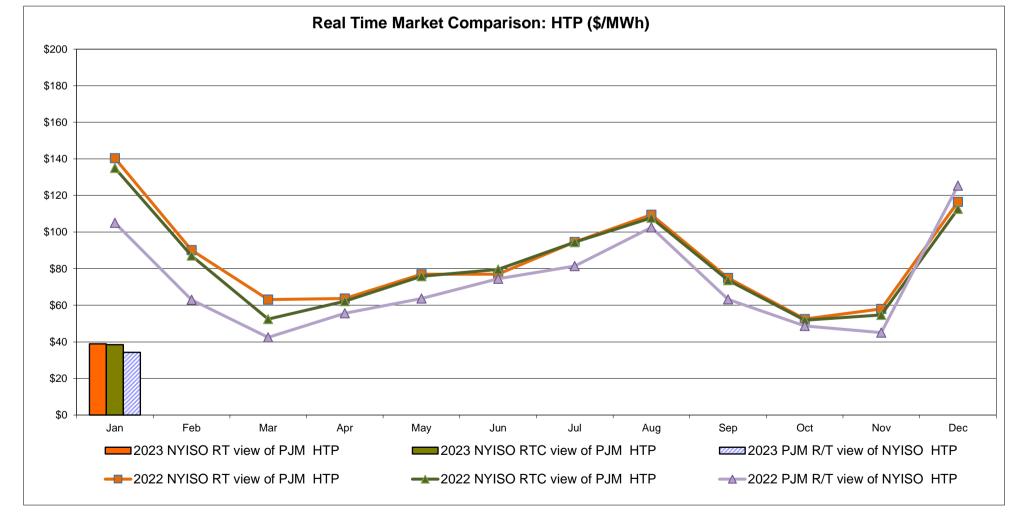


External Controllable Line: Linden VFT (PJM)





External Controllable Line: Hudson (PJM)

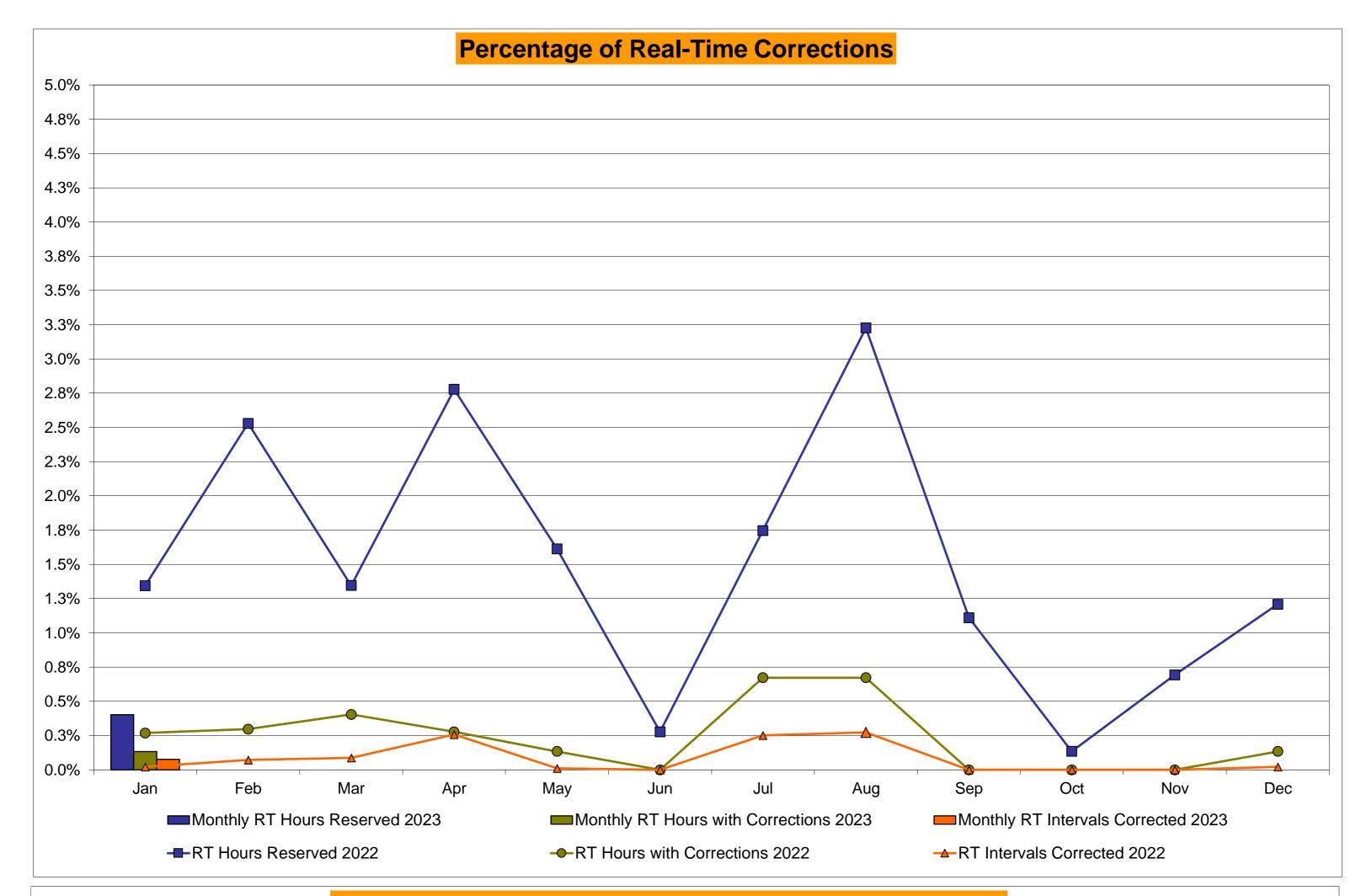


NYISO Real Time Price Correction Statistics

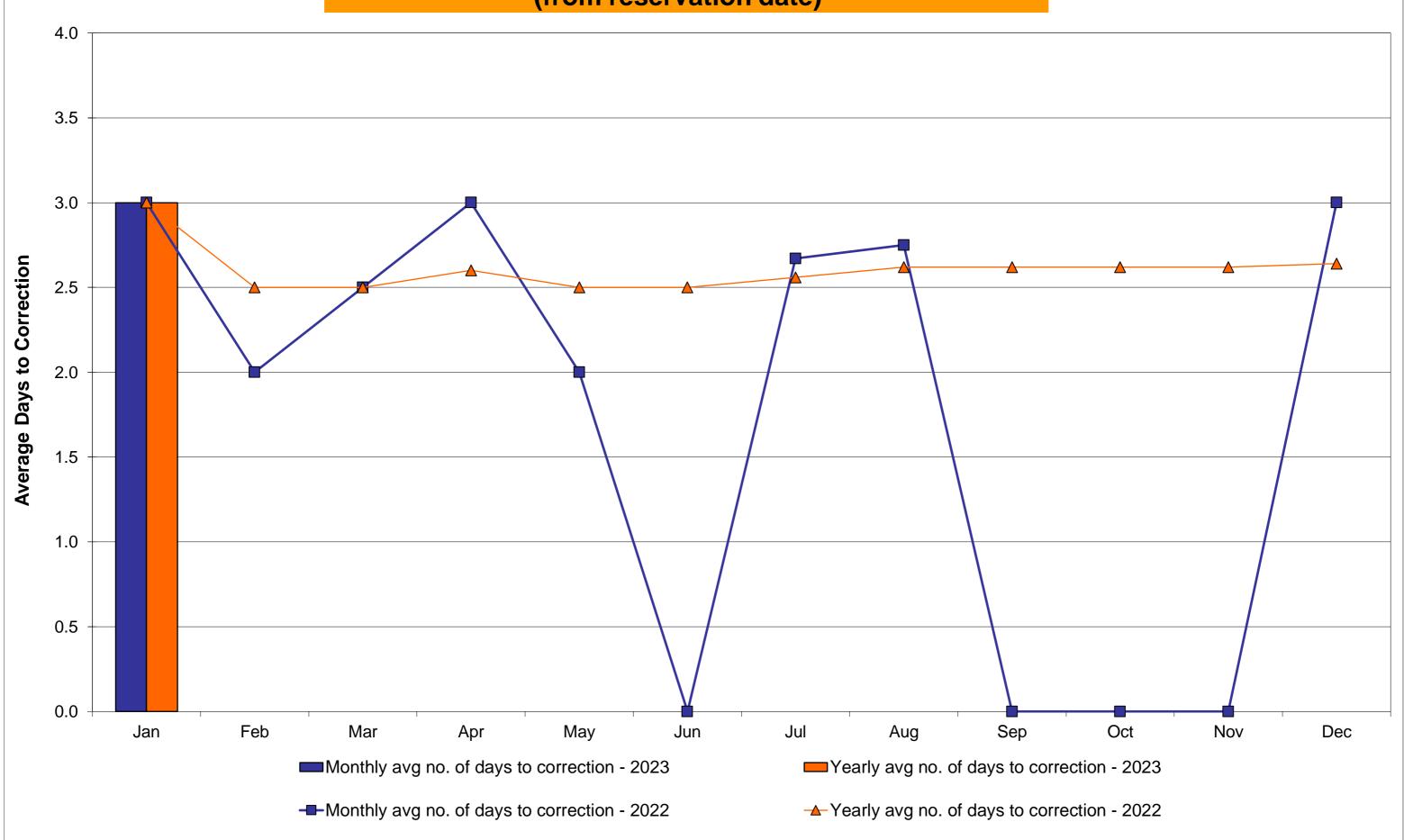
2023 Hour Corrections		<u>January</u>	February	March	<u>April</u>	May	<u>June</u>	<u>July</u>	August	<u>September</u>	<u>October</u>	November	<u>December</u>
Number of hours with corrections	in the month	1											
Number of hours	in the month	744											
% of hours with corrections	in the month	0.13%											
% of hours with corrections Interval Corrections	year-to-date	0.13%											
Number of intervals corrected	in the month	7											
Number of intervals	in the month	9,082											
% of intervals corrected	in the month	0.08%											
% of intervals corrected	year-to-date	0.08%											
Hours Reserved	in the meanth	2											
Number of hours reserved	in the month	3											
Number of hours	in the month	744											
% of hours reserved	in the month	0.40%											
% of hours reserved	year-to-date	0.40%											
Days to Correction *													
Avg. number of days to correction	in the month	3.00											
Avg. number of days to correction	year-to-date	3.00											
Days Without Corrections													
Days without corrections	in the month	30											
Days without corrections	year-to-date	30											
2022		January	February	March	April	May	June	July	August	September	October	November	December
2022 Hour Corrections		<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>
Hour Corrections	in the month					<u>May</u> 1							<u>December</u> 1
Hour Corrections Number of hours with corrections	in the month in the month	2	2	3	2	1	0	5	5	0	0	0	1
Hour Corrections	in the month in the month in the month					<u>May</u> 1 744 0.13%							<u>December</u> 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 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	in the month	2 744	2 672	3 743	2 720	1 744	0 720	5 744	5 744	0 720	0 744	0 721	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% 0.27%	2 672 0.30% 0.28%	3 743 0.40%	2 720 0.28% 0.31%	1 744 0.13%	0 720 0.00%	5 744 0.67% 0.29%	5 744 0.67% 0.34%	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	2 672 0.30%	3 743 0.40% 0.32%	2 720 0.28% 0.31% 23	1 744 0.13%	0 720 0.00% 0.23%	5 744 0.67% 0.29% 23	5 744 0.67% 0.34% 25	0 720 0.00% 0.31%	0 744 0.00% 0.27% 0	0 721 0.00% 0.25% 0	1 744 0.13% 0.24% 2
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% 0.27%	2 672 0.30% 0.28%	3 743 0.40% 0.32% 8	2 720 0.28% 0.31%	1 744 0.13% 0.28%	0 720 0.00% 0.23% 0	5 744 0.67% 0.29%	5 744 0.67% 0.34%	0 720 0.00% 0.31% 0	0 744 0.00% 0.27%	0 721 0.00% 0.25%	1 744 0.13% 0.24%
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% 0.28% 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	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% 0.32% 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% 0.34% 25 9,145	0 720 0.00% 0.31% 0 8,825	0 744 0.00% 0.27% 0 9,097	0 721 0.00% 0.25% 0 8,857	1 744 0.13% <u>0.24%</u> 2 9,317
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% of intervals corrected% of intervals corrected	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% 0.09%	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% 0.34% 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	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% 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% 0.28% 1 9,181 0.01% 0.09% 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% <u>0.27%</u> 0 9,097 0.00% <u>0.10%</u> 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 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 correctedNumber of hours reservedNumber of hours reservedNumber of hours	in the month in the month year-to-date 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% 0.34% 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 correctedMumber of hours reservedNumber of hours reservedNumber of hours% 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% 0 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 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% of hours reserved% of hours reserved% of hours reserved	in the month in the month year-to-date 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% 0.34% 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 % 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 Mumber of hours reserved Number of hours reserved % of hours reserved % of hours reserved % 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 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 corrected% of intervals correctedMumber 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 in the month year-to-date in the month	2 744 0.27% 0.27% 2 9,258 0.02% 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% 8 720 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 CorrectionsNumber of hours with correctionsNumber of hours with corrections% of hours with corrections% of hours with correctionsInterval CorrectionsInterval CorrectionsNumber of intervals correctedNumber of intervals corrected% of intervals corrected% of intervals corrected% of intervals correctedMumber of hours reservedNumber of hours reserved% of 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 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 Mumber of hours reserved Number of hours reserved % of hours reserved Days to Correction * Avg. number of days to correction Avg. number of days to correction Days Without Corrections	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% 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% 0.11% 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 CorrectionsNumber of hours with correctionsNumber of hours with corrections% of hours with corrections% of hours with correctionsInterval CorrectionsInterval CorrectionsNumber of intervals correctedNumber of intervals corrected% of intervals corrected% of intervals corrected% of intervals correctedMumber of hours reservedNumber of hours reserved% of 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 in the month year-to-date in the month	2 744 0.27% 0.27% 2 9,258 0.02% 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% 8 720 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.



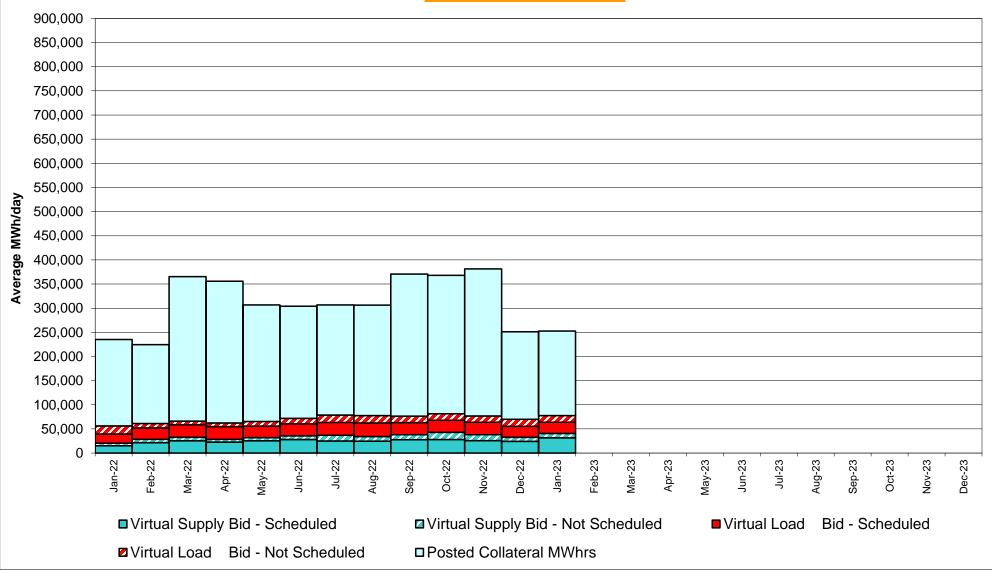
Annual average time period for making Price Corrections (from reservation date) *

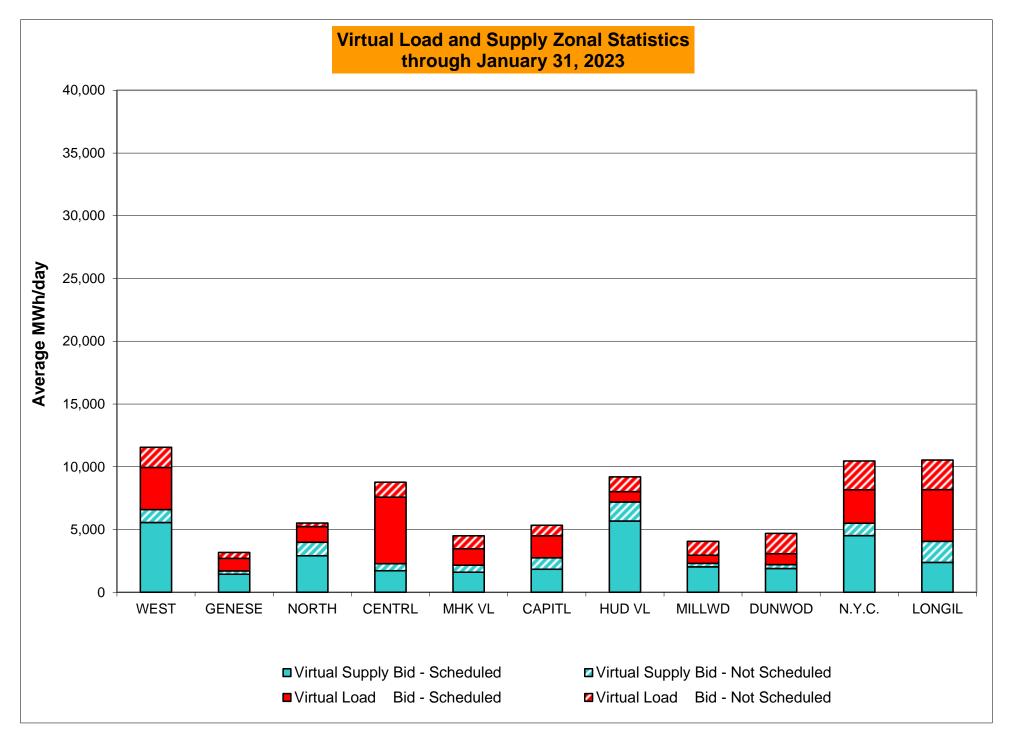


*Calendar days from reservation date; for June 2018 forward, business days from market date

Market Mitigation and Analysis Prepared: 2/9/2023 11:37 AM May/June 2017 Hours Reserved data has been updated for the July 2017 Monthly Market Operations Report.

NYISO Virtual Trading Average MWh per day

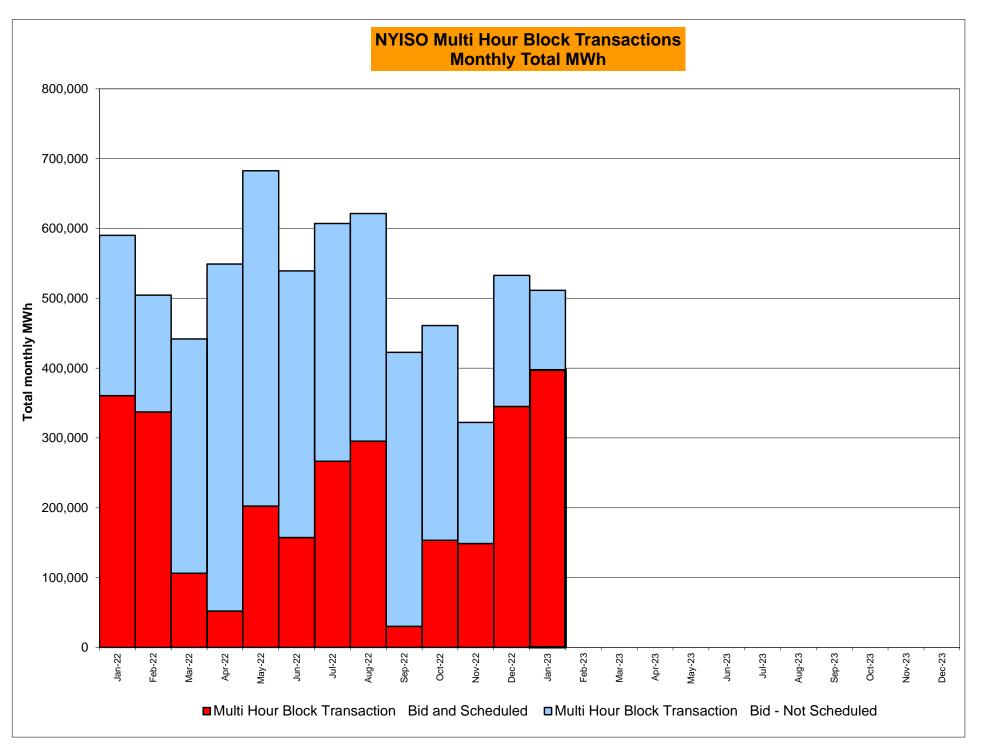


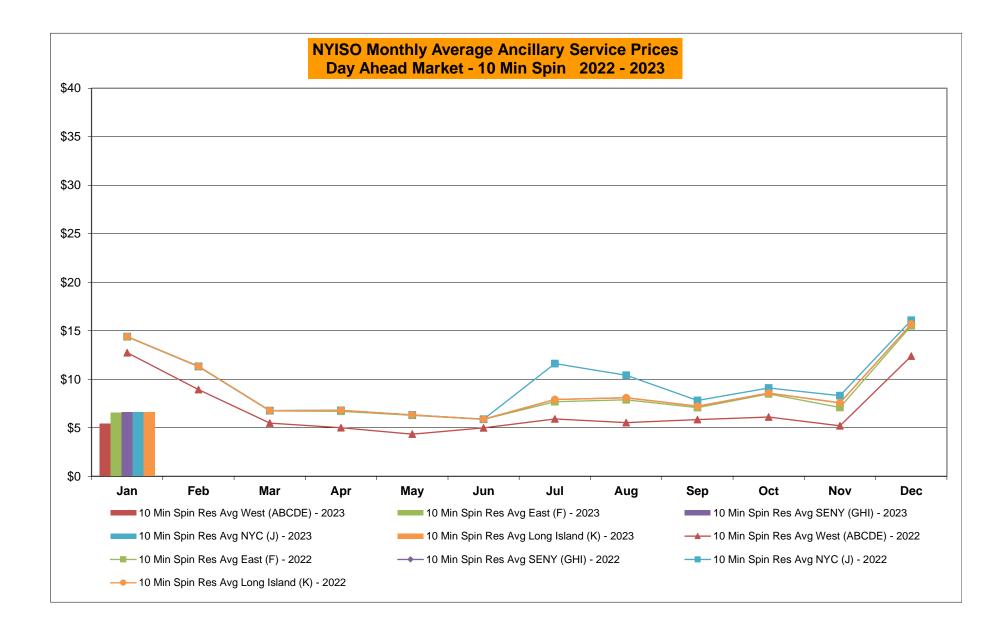


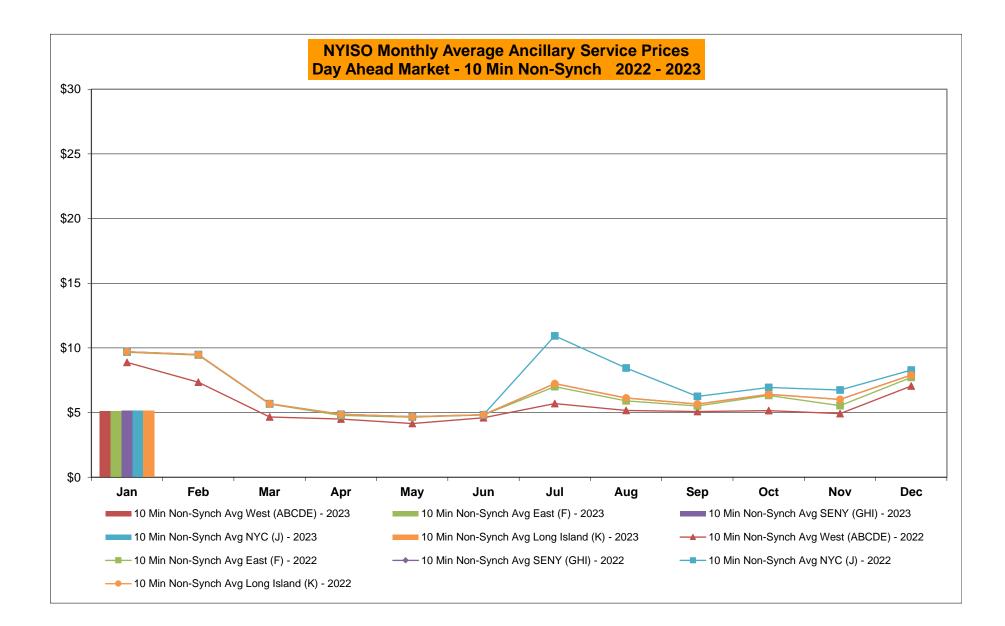
Virtual Load and Supply Zonal Statistics (Average MWh/day) - 2023

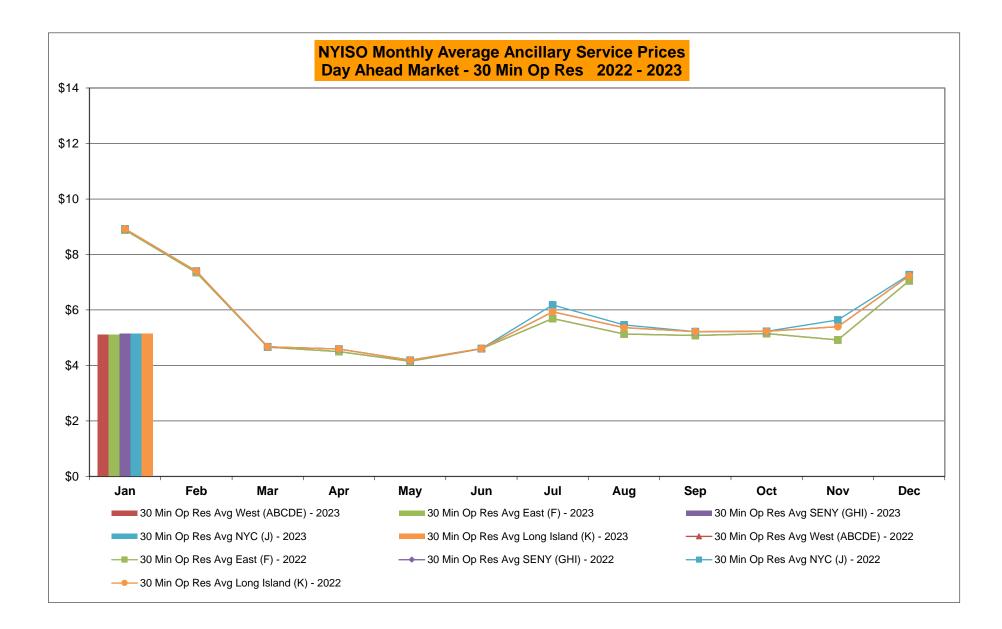
		Virtual L		Virtual St			_	Virtual L	oad Bid	Virtual Su			1	\
			Not		Not				Not		Not			
Zone	Date	Scheduled	Scheduled	Scheduled	Scheduled	Zone	Date	Scheduled	Scheduled	Scheduled	Scheduled	Zone	Date	Sch
WEST	Jan-23	3,364	1,605	5,555	1,026	MHK VL	Jan-23	1,312	1,038	1,590	558	DUNWOD	Jan-23	
	Feb-23						Feb-23						Feb-23	
	Mar-23						Mar-23						Mar-23	
	Apr-23						Apr-23						Apr-23	
	May-23						May-23						May-23	
	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	
GENESE	Jan-23	1,005	469	1,438	255	CAPITL	Jan-23	1,762	834	1,824	917	N.Y.C.	Jan-23	
	Feb-23			-			Feb-23						Feb-23	
	Mar-23						Mar-23						Mar-23	
	Apr-23						Apr-23						Apr-23	
	May-23						May-23						May-23	
	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	
	Feb-23						Feb-23						Feb-23	
	Mar-23						Mar-23						Mar-23	
	Apr-23						Apr-23						Apr-23	
	May-23						May-23						May-23	
	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	
	Feb-23		,	,			Feb-23		,	,			Feb-23	
	Mar-23						Mar-23						Mar-23	_
	Apr-23						Apr-23						Apr-23	
	May-23						May-23						May-23	
	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	

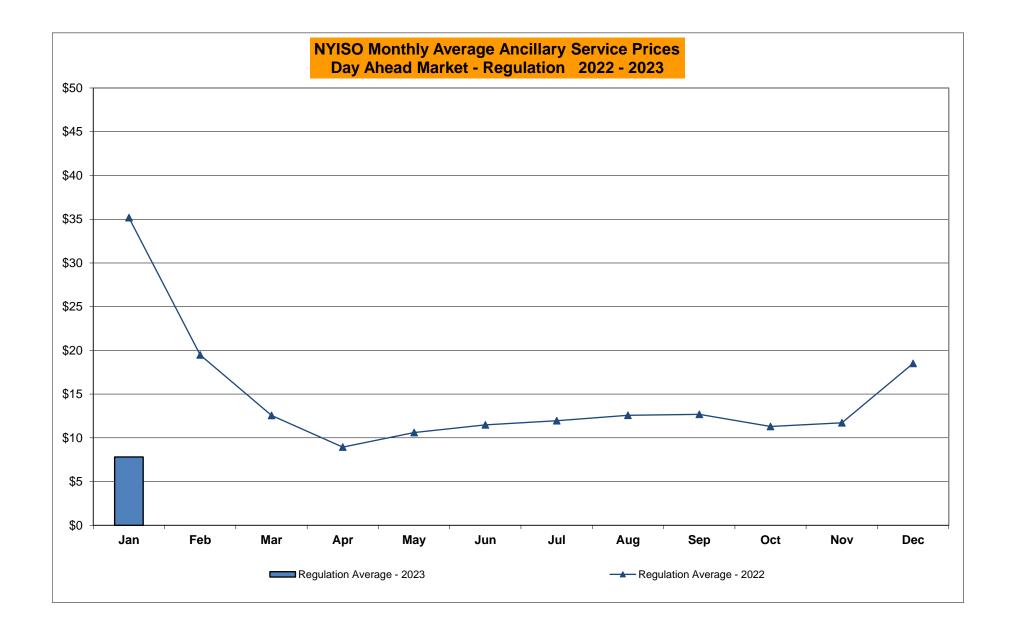
Virtual L	.oad Bid	Virtual Su	Ipply Bid
	Not		Not
cheduled 862	Scheduled 1,623	Scheduled 1,884	Scheduled 319
002	1,023	1,004	519
2,674	2,287	4,516	977
4,119	2,358	2,370	1,687
1,110	2,000	2,010	1,007
23,122	13,963	31,494	9,165

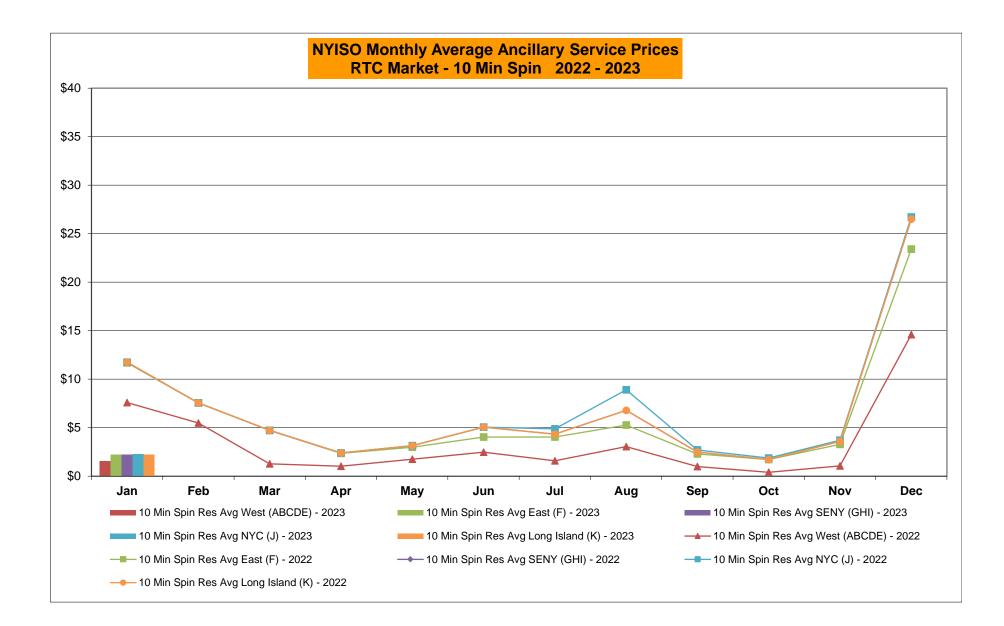


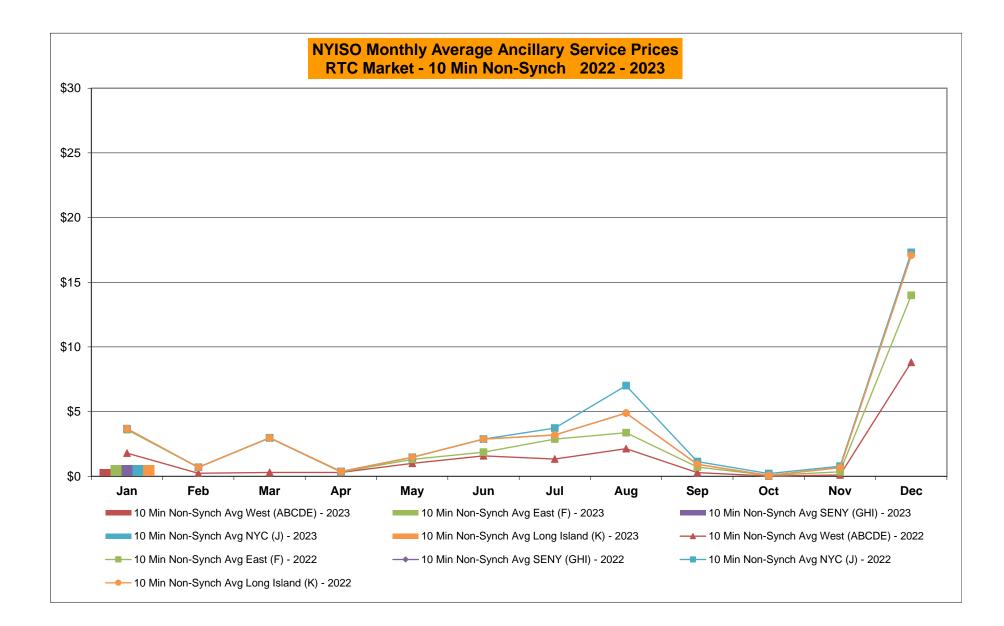


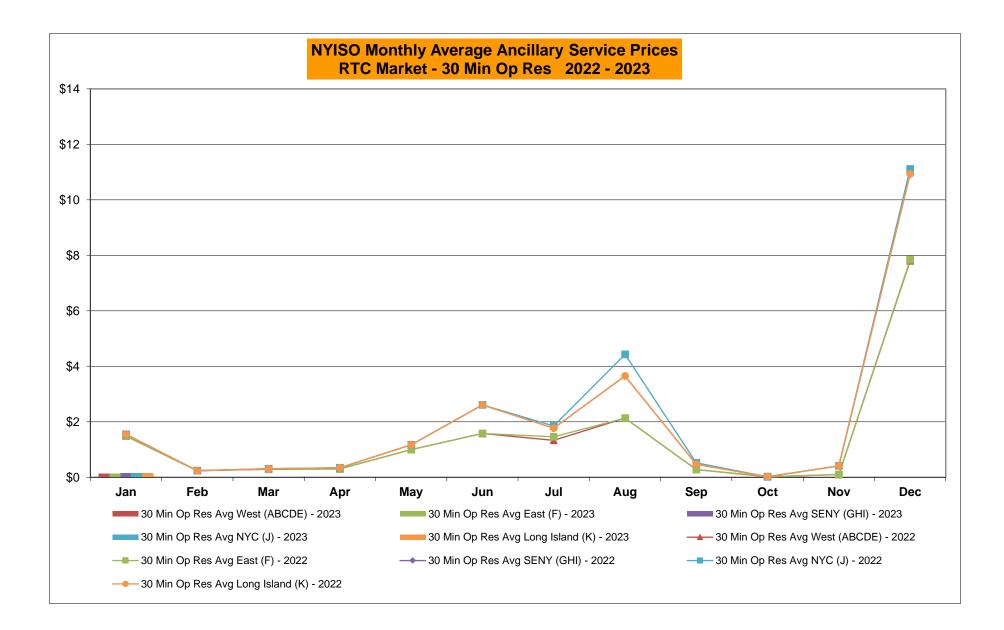


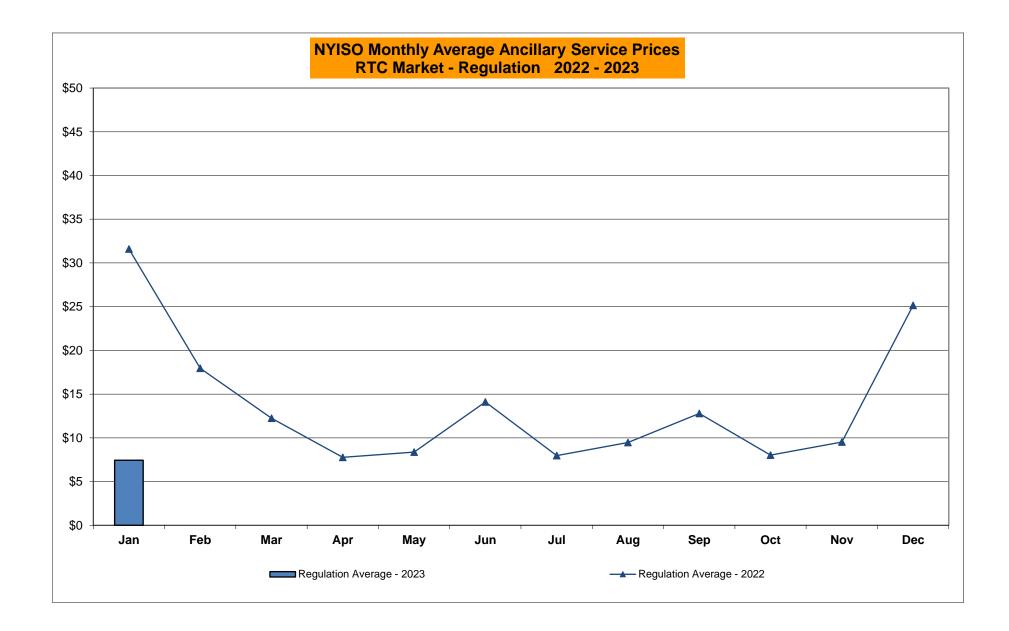


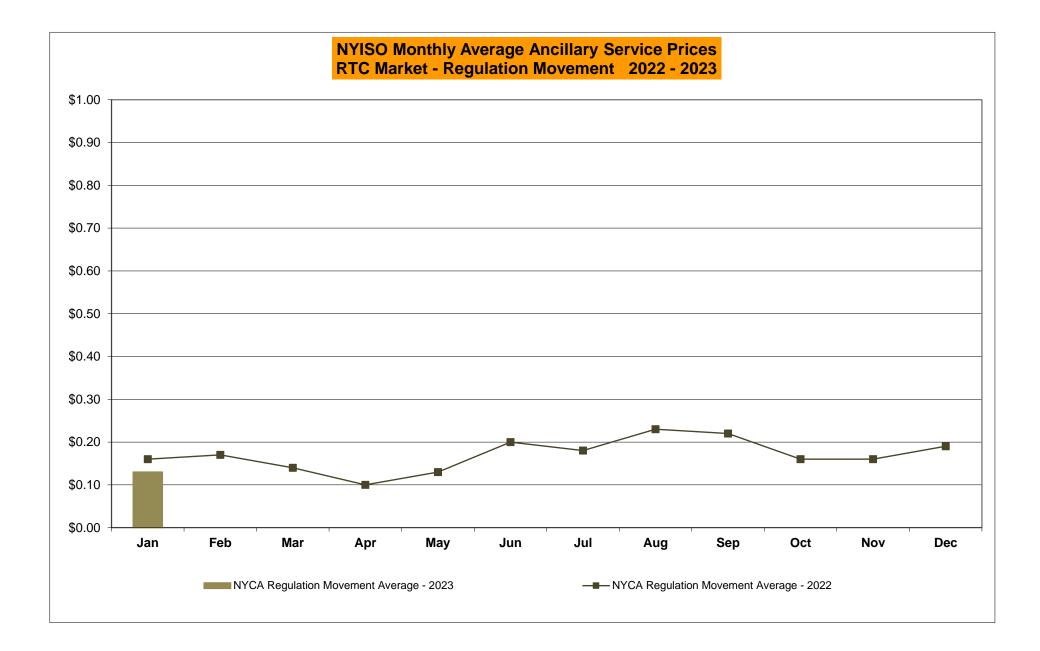


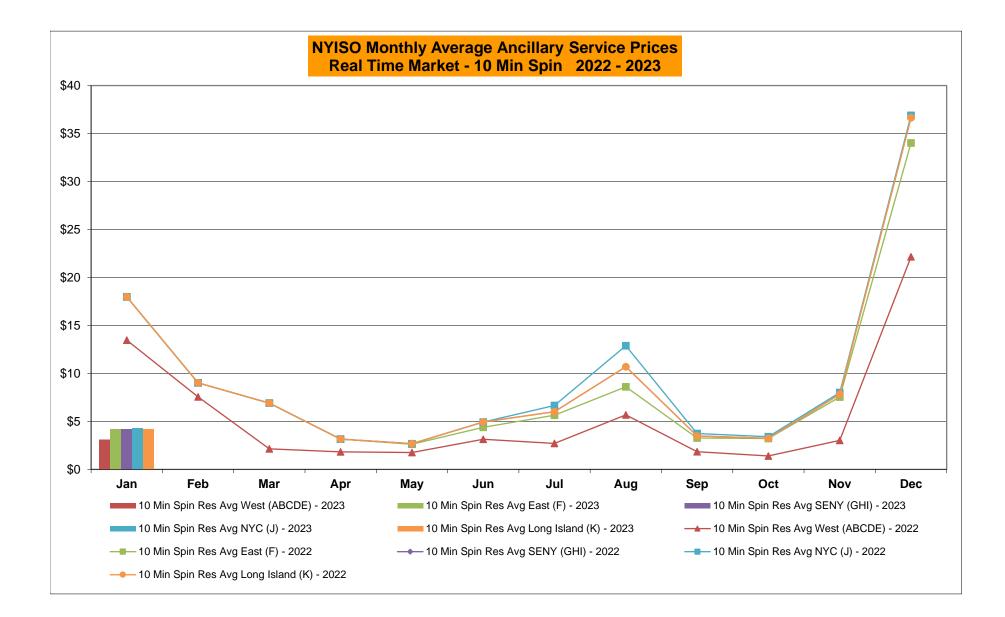


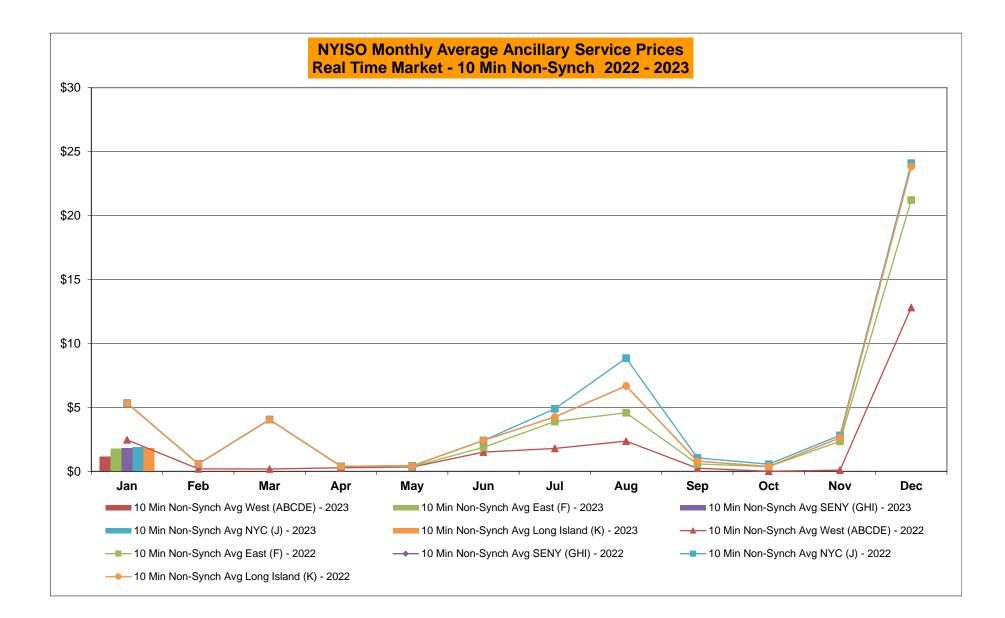


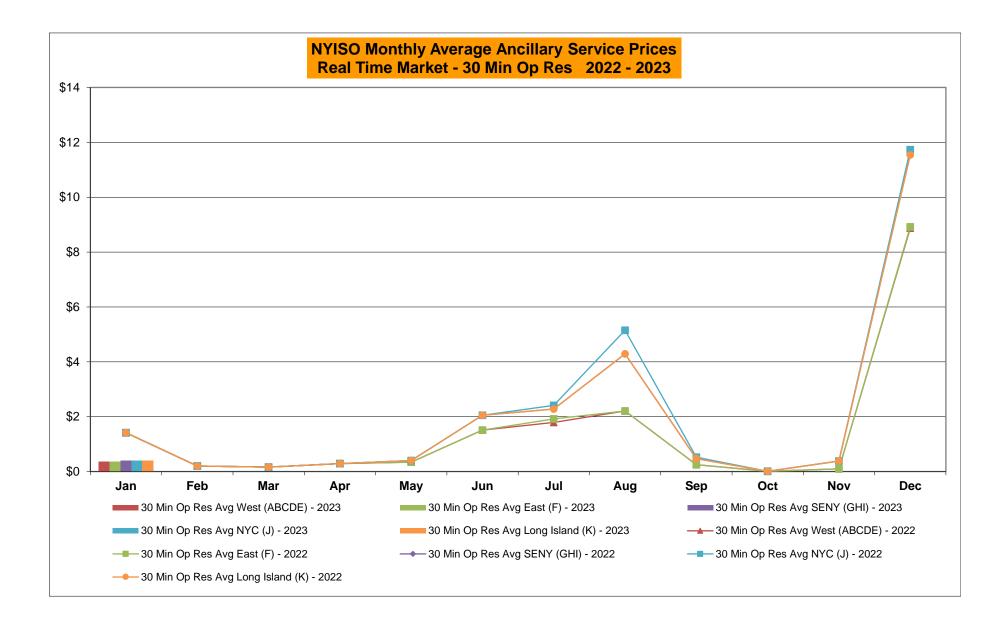


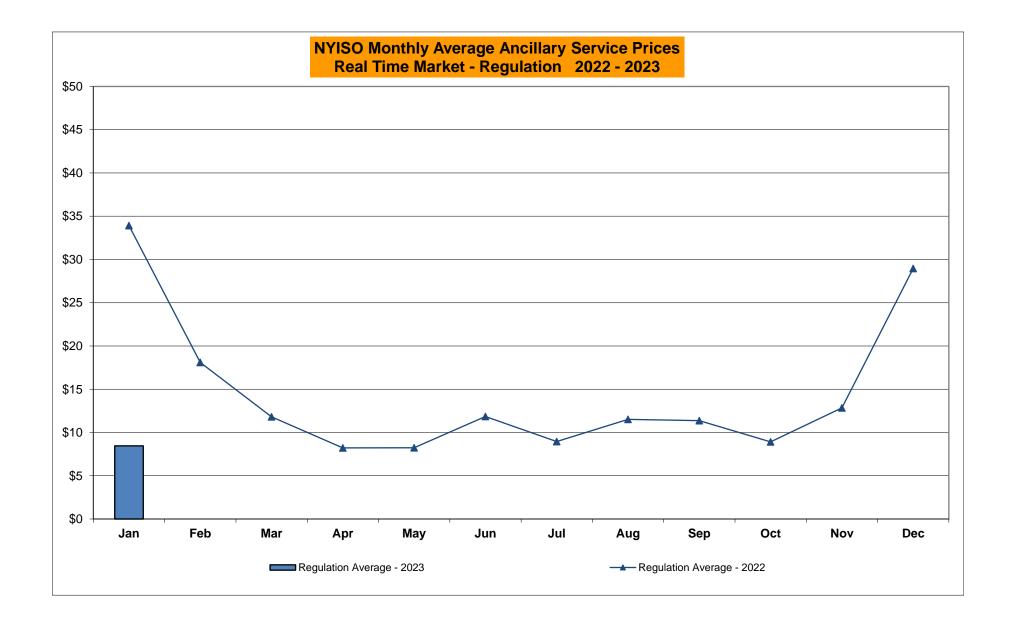


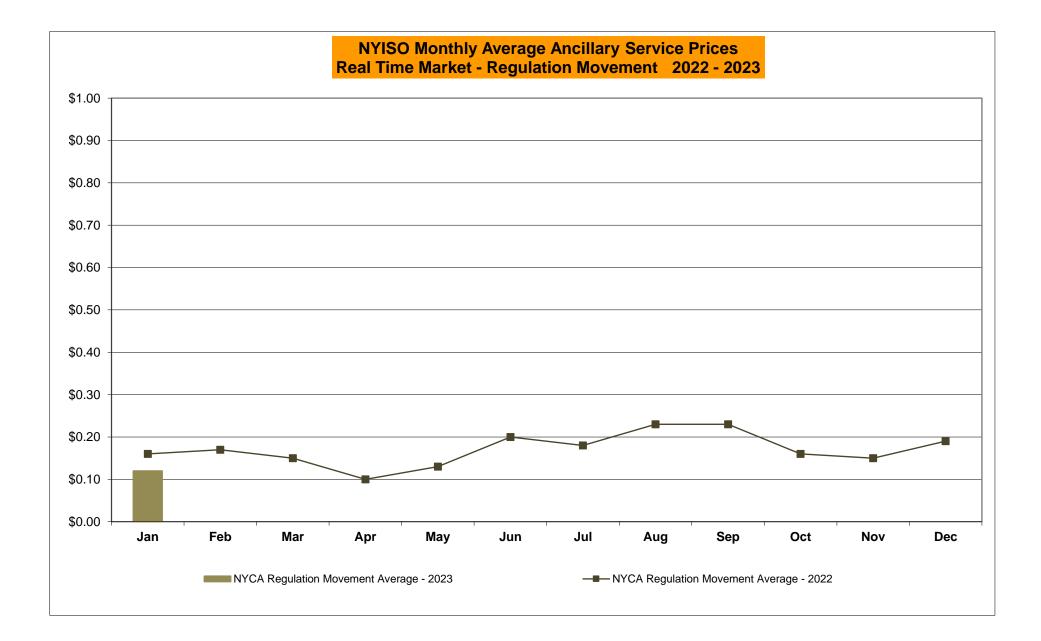












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<u>2023</u>	January	February	March	<u>April</u>	May	<u>June</u>	<u>July</u>	August	September	October	November	<u>December</u>
Day Ahead Market	<u>,</u>	_ _				<u></u>	<u> </u>					
10 Min Spin Long Island (K)	6.60											
10 Min Spin NYC (J)	6.63											
10 Min Spin SENY (GHI)	6.60											
10 Min Spin East (F)	6.56											
10 Min Spin West (ABCDE)	5.41											
10 Min Non Synch Long Island (K)	5.16											
10 Min Non Synch NYC (J)	5.18											
10 Min Non Synch SENY (GHI)	5.16											
10 Min Non Synch East (F)	5.12											
10 Min Non Synch West (ABCDE)	5.11											
30 Min Long Island (K)	5.15											
30 Min NYC (J)	5.15											
30 Min SENY (GHI)	5.15											
30 Min East (F)	5.11											
30 Min West (ABCDE)	5.11											
Regulation	7.82											
								. .		•		
<u>2022</u>	<u>January</u>	<u>February</u>	March	<u>April</u>	<u>May</u>	June	July	<u>August</u>	<u>September</u>	<u>October</u>	<u>November</u>	<u>December</u>
Day Ahead Market		-							-			
Day Ahead Market 10 Min Spin Long Island (K)	14.40	11.34	6.76	6.79	6.32	5.88	7.92	8.10	7.22	8.57	7.57	15.69
Day Ahead Market 10 Min Spin Long Island (K) 10 Min Spin NYC (J)	14.40 15.32	11.34 12.52	6.76 7.29	6.79 6.80	6.32 7.01	5.88 6.12	7.92 11.61	8.10 10.41	7.22 7.81	8.57 9.10	7.57 8.31	15.69 16.08
Day Ahead Market 10 Min Spin Long Island (K) 10 Min Spin NYC (J) 10 Min Spin SENY (GHI)	14.40 15.32 14.40	11.34 12.52 11.34	6.76 7.29 6.76	6.79 6.80 6.79	6.32 7.01 6.32	5.88 6.12 5.88	7.92 11.61 7.92	8.10 10.41 8.10	7.22 7.81 7.22	8.57 9.10 8.57	7.57 8.31 7.57	15.69 16.08 15.69
Day Ahead Market 10 Min Spin Long Island (K) 10 Min Spin NYC (J) 10 Min Spin SENY (GHI) 10 Min Spin East (F)	14.40 15.32 14.40 14.37	11.34 12.52 11.34 11.30	6.76 7.29 6.76 6.74	6.79 6.80 6.79 6.70	6.32 7.01 6.32 6.28	5.88 6.12 5.88 5.87	7.92 11.61 7.92 7.68	8.10 10.41 8.10 7.88	7.22 7.81 7.22 7.07	8.57 9.10 8.57 8.49	7.57 8.31 7.57 7.10	15.69 16.08 15.69 15.51
Day Ahead Market 10 Min Spin Long Island (K) 10 Min Spin NYC (J) 10 Min Spin SENY (GHI) 10 Min Spin East (F) 10 Min Spin West (ABCDE)	14.40 15.32 14.40 14.37 12.74	11.34 12.52 11.34 11.30 8.93	6.76 7.29 6.76 6.74 5.48	6.79 6.80 6.79 6.70 5.01	6.32 7.01 6.32 6.28 4.34	5.88 6.12 5.88 5.87 4.99	7.92 11.61 7.92 7.68 5.91	8.10 10.41 8.10 7.88 5.53	7.22 7.81 7.22 7.07 5.84	8.57 9.10 8.57 8.49 6.11	7.57 8.31 7.57 7.10 5.20	15.69 16.08 15.69 15.51 12.39
Day Ahead Market 10 Min Spin Long Island (K) 10 Min Spin NYC (J) 10 Min Spin SENY (GHI) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch Long Island (K)	14.40 15.32 14.40 14.37 12.74 9.70	11.34 12.52 11.34 11.30 8.93 9.48	6.76 7.29 6.76 6.74 5.48 5.68	6.79 6.80 6.79 6.70 5.01 4.87	6.32 7.01 6.32 6.28 4.34 4.68	5.88 6.12 5.88 5.87 4.99 4.83	7.92 11.61 7.92 7.68 5.91 7.24	8.10 10.41 8.10 7.88 5.53 6.13	7.22 7.81 7.22 7.07 5.84 5.65	8.57 9.10 8.57 8.49 6.11 6.41	7.57 8.31 7.57 7.10 5.20 6.01	15.69 16.08 15.69 15.51 12.39 7.90
Day Ahead Market 10 Min Spin Long Island (K) 10 Min Spin NYC (J) 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)	14.40 15.32 14.40 14.37 12.74 9.70 10.61	11.34 12.52 11.34 11.30 8.93 9.48 10.66	6.76 7.29 6.76 6.74 5.48 5.68 6.20	6.79 6.80 6.79 6.70 5.01 4.87 4.89	6.32 7.01 6.32 6.28 4.34 4.68 5.38	5.88 6.12 5.88 5.87 4.99 4.83 5.07	7.92 11.61 7.92 7.68 5.91 7.24 10.93	8.10 10.41 8.10 7.88 5.53 6.13 8.44	7.22 7.81 7.22 7.07 5.84 5.65 6.25	8.57 9.10 8.57 8.49 6.11 6.41 6.94	7.57 8.31 7.57 7.10 5.20 6.01 6.74	15.69 16.08 15.69 15.51 12.39 7.90 8.29
Day Ahead Market 10 Min Spin Long Island (K) 10 Min Spin NYC (J) 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)	14.40 15.32 14.40 14.37 12.74 9.70 10.61 9.70	11.34 12.52 11.34 11.30 8.93 9.48 10.66 9.48	6.76 7.29 6.76 6.74 5.48 5.68 6.20 5.68	6.79 6.80 6.79 6.70 5.01 4.87 4.89 4.87	6.32 7.01 6.32 6.28 4.34 4.68 5.38 4.68	5.88 6.12 5.88 5.87 4.99 4.83 5.07 4.83	7.92 11.61 7.92 7.68 5.91 7.24 10.93 7.24	8.10 10.41 8.10 7.88 5.53 6.13 8.44 6.13	7.22 7.81 7.22 7.07 5.84 5.65 6.25 5.65	8.57 9.10 8.57 8.49 6.11 6.41 6.94 6.41	7.57 8.31 7.57 7.10 5.20 6.01 6.74 6.01	15.69 16.08 15.69 15.51 12.39 7.90 8.29 7.90
Day Ahead Market 10 Min Spin Long Island (K) 10 Min Spin NYC (J) 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)	14.40 15.32 14.40 14.37 12.74 9.70 10.61 9.70 9.66	11.34 12.52 11.34 11.30 8.93 9.48 10.66 9.48 9.44	6.76 7.29 6.76 6.74 5.48 5.68 6.20 5.68 5.66	6.79 6.80 6.79 6.70 5.01 4.87 4.89 4.87 4.78	6.32 7.01 6.32 6.28 4.34 4.68 5.38 4.68 4.68	5.88 6.12 5.88 5.87 4.99 4.83 5.07 4.83 4.82	7.92 11.61 7.92 7.68 5.91 7.24 10.93 7.24 7.00	8.10 10.41 8.10 7.88 5.53 6.13 8.44 6.13 5.90	7.22 7.81 7.22 7.07 5.84 5.65 6.25 5.65 5.51	8.57 9.10 8.57 8.49 6.11 6.41 6.94 6.41 6.32	7.57 8.31 7.57 7.10 5.20 6.01 6.74 6.01 5.53	15.69 16.08 15.69 15.51 12.39 7.90 8.29 7.90 7.72
Day Ahead Market 10 Min Spin Long Island (K) 10 Min Spin NYC (J) 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)	14.40 15.32 14.40 14.37 12.74 9.70 10.61 9.70 9.66 8.88	11.34 12.52 11.34 11.30 8.93 9.48 10.66 9.48 9.44 7.35	6.76 7.29 6.76 6.74 5.48 5.68 6.20 5.68 5.66 4.66	6.79 6.80 6.79 6.70 5.01 4.87 4.89 4.87 4.78 4.50	6.32 7.01 6.32 6.28 4.34 4.68 5.38 4.68 4.68 4.64 4.15	5.88 6.12 5.88 5.87 4.99 4.83 5.07 4.83 4.82 4.60	7.92 11.61 7.92 7.68 5.91 7.24 10.93 7.24 7.00 5.69	8.10 10.41 8.10 7.88 5.53 6.13 8.44 6.13 5.90 5.16	7.22 7.81 7.22 7.07 5.84 5.65 6.25 5.65 5.51 5.08	8.57 9.10 8.57 8.49 6.11 6.41 6.94 6.41 6.32 5.15	7.57 8.31 7.57 7.10 5.20 6.01 6.74 6.01 5.53 4.92	15.69 16.08 15.69 15.51 12.39 7.90 8.29 7.90 7.72 7.05
Day Ahead Market 10 Min Spin Long Island (K) 10 Min Spin NYC (J) 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)	14.40 15.32 14.40 14.37 12.74 9.70 10.61 9.70 9.66 8.88 8.92	11.34 12.52 11.34 11.30 8.93 9.48 10.66 9.48 9.44 7.35 7.40	6.76 7.29 6.76 6.74 5.48 5.68 6.20 5.68 5.66 4.66 4.66 4.67	6.79 6.80 6.79 6.70 5.01 4.87 4.89 4.87 4.78 4.50 4.59	6.32 7.01 6.32 6.28 4.34 4.68 5.38 4.68 4.64 4.15 4.19	5.88 6.12 5.88 5.87 4.99 4.83 5.07 4.83 4.82 4.60 4.61	7.92 11.61 7.92 7.68 5.91 7.24 10.93 7.24 7.00 5.69 5.93	8.10 10.41 8.10 7.88 5.53 6.13 8.44 6.13 5.90 5.16 5.36	7.22 7.81 7.22 7.07 5.84 5.65 6.25 5.65 5.51 5.08 5.22	8.57 9.10 8.57 8.49 6.11 6.41 6.94 6.41 6.32 5.15 5.23	7.57 8.31 7.57 7.10 5.20 6.01 6.74 6.01 5.53 4.92 5.40	15.69 16.08 15.69 15.51 12.39 7.90 8.29 7.90 7.72 7.05 7.23
Day Ahead Market 10 Min Spin Long Island (K) 10 Min Spin NYC (J) 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)	14.40 15.32 14.40 14.37 12.74 9.70 10.61 9.70 9.66 8.88 8.92 8.95	11.34 12.52 11.34 11.30 8.93 9.48 10.66 9.48 9.44 7.35 7.40 7.42	6.76 7.29 6.76 6.74 5.48 5.68 6.20 5.68 5.66 4.66 4.66 4.67 4.67	6.79 6.80 6.79 6.70 5.01 4.87 4.89 4.87 4.78 4.50 4.59 4.59	6.32 7.01 6.32 6.28 4.34 4.68 5.38 4.68 4.64 4.15 4.19 4.21	5.88 6.12 5.88 5.87 4.99 4.83 5.07 4.83 4.82 4.60 4.61 4.61	7.92 11.61 7.92 7.68 5.91 7.24 10.93 7.24 7.00 5.69 5.93 6.18	$\begin{array}{c} 8.10\\ 10.41\\ 8.10\\ 7.88\\ 5.53\\ 6.13\\ 8.44\\ 6.13\\ 5.90\\ 5.16\\ 5.36\\ 5.46\end{array}$	7.22 7.81 7.22 7.07 5.84 5.65 6.25 5.65 5.51 5.08 5.22 5.22	8.57 9.10 8.57 8.49 6.11 6.41 6.94 6.41 6.32 5.15 5.23 5.23	7.57 8.31 7.57 7.10 5.20 6.01 6.74 6.01 5.53 4.92 5.40 5.64	15.69 16.08 15.69 15.51 12.39 7.90 8.29 7.90 7.72 7.05 7.23 7.27
Day Ahead Market 10 Min Spin Long Island (K) 10 Min Spin NYC (J) 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)	14.40 15.32 14.40 14.37 12.74 9.70 10.61 9.70 9.66 8.88 8.92 8.95 8.92	11.34 12.52 11.34 11.30 8.93 9.48 10.66 9.48 9.44 7.35 7.40 7.40 7.42 7.40	6.76 7.29 6.76 6.74 5.48 5.68 6.20 5.68 5.66 4.66 4.66 4.67 4.67 4.67	6.79 6.80 6.79 6.70 5.01 4.87 4.89 4.87 4.89 4.87 4.78 4.50 4.59 4.59 4.59	6.32 7.01 6.32 6.28 4.34 4.68 5.38 4.68 4.64 4.15 4.19 4.21 4.19	5.88 6.12 5.88 5.87 4.99 4.83 5.07 4.83 4.82 4.60 4.61 4.61 4.61	$7.92 \\11.61 \\7.92 \\7.68 \\5.91 \\7.24 \\10.93 \\7.24 \\7.00 \\5.69 \\5.93 \\6.18 \\5.93$	$\begin{array}{c} 8.10\\ 10.41\\ 8.10\\ 7.88\\ 5.53\\ 6.13\\ 8.44\\ 6.13\\ 5.90\\ 5.16\\ 5.36\\ 5.46\\ 5.36\end{array}$	7.22 7.81 7.22 7.07 5.84 5.65 6.25 5.65 5.51 5.08 5.22 5.22 5.22 5.22	$\begin{array}{c} 8.57\\ 9.10\\ 8.57\\ 8.49\\ 6.11\\ 6.41\\ 6.94\\ 6.41\\ 6.32\\ 5.15\\ 5.23\\ 5.23\\ 5.23\\ 5.23\\ 5.23\end{array}$	7.57 8.31 7.57 7.10 5.20 6.01 6.74 6.01 5.53 4.92 5.40 5.64 5.40	15.69 16.08 15.69 15.51 12.39 7.90 8.29 7.90 7.72 7.05 7.23 7.27 7.23
Day Ahead Market 10 Min Spin Long Island (K) 10 Min Spin NYC (J) 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 SENY (GHI) 30 Min SENY (GHI) 30 Min East (F)	14.40 15.32 14.40 14.37 12.74 9.70 10.61 9.70 9.66 8.88 8.92 8.95 8.92 8.88	11.34 12.52 11.34 11.30 8.93 9.48 10.66 9.48 9.44 7.35 7.40 7.42 7.40 7.35	6.76 7.29 6.76 6.74 5.48 5.68 6.20 5.68 5.66 4.66 4.66 4.67 4.67 4.67 4.67	6.79 6.80 6.70 5.01 4.87 4.89 4.87 4.78 4.50 4.59 4.59 4.59 4.59 4.59 4.59 4.59 4.59 4.50	6.32 7.01 6.32 6.28 4.34 4.68 5.38 4.68 4.64 4.15 4.19 4.21 4.19 4.21 4.19	5.88 6.12 5.88 5.87 4.99 4.83 5.07 4.83 4.82 4.60 4.61 4.61 4.61 4.61 4.61 4.61 4.61 4.61	$7.92 \\11.61 \\7.92 \\7.68 \\5.91 \\7.24 \\10.93 \\7.24 \\7.00 \\5.69 \\5.93 \\6.18 \\5.93 \\5.69 \\5.69 \\$	$\begin{array}{c} 8.10\\ 10.41\\ 8.10\\ 7.88\\ 5.53\\ 6.13\\ 8.44\\ 6.13\\ 5.90\\ 5.16\\ 5.36\\ 5.46\\ 5.36\\ 5.46\\ 5.36\\ 5.13\end{array}$	7.22 7.81 7.22 7.07 5.84 5.65 6.25 5.65 5.51 5.08 5.22 5.22 5.22 5.22 5.08	$\begin{array}{c} 8.57\\ 9.10\\ 8.57\\ 8.49\\ 6.11\\ 6.41\\ 6.94\\ 6.41\\ 6.32\\ 5.15\\ 5.23\\ 5.23\\ 5.23\\ 5.23\\ 5.23\\ 5.15\end{array}$	7.57 8.31 7.57 7.10 5.20 6.01 6.74 6.01 5.53 4.92 5.40 5.64 5.40 4.92	15.69 16.08 15.69 15.51 12.39 7.90 8.29 7.90 7.72 7.05 7.23 7.23 7.23 7.23 7.05
Day Ahead Market 10 Min Spin Long Island (K) 10 Min Spin NYC (J) 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)	14.40 15.32 14.40 14.37 12.74 9.70 10.61 9.70 9.66 8.88 8.92 8.95 8.92	11.34 12.52 11.34 11.30 8.93 9.48 10.66 9.48 9.44 7.35 7.40 7.40 7.42 7.40	6.76 7.29 6.76 6.74 5.48 5.68 6.20 5.68 5.66 4.66 4.66 4.67 4.67 4.67	6.79 6.80 6.79 6.70 5.01 4.87 4.89 4.87 4.89 4.87 4.78 4.50 4.59 4.59 4.59	6.32 7.01 6.32 6.28 4.34 4.68 5.38 4.68 4.64 4.15 4.19 4.21 4.19	5.88 6.12 5.88 5.87 4.99 4.83 5.07 4.83 4.82 4.60 4.61 4.61 4.61	$7.92 \\11.61 \\7.92 \\7.68 \\5.91 \\7.24 \\10.93 \\7.24 \\7.00 \\5.69 \\5.93 \\6.18 \\5.93$	$\begin{array}{c} 8.10\\ 10.41\\ 8.10\\ 7.88\\ 5.53\\ 6.13\\ 8.44\\ 6.13\\ 5.90\\ 5.16\\ 5.36\\ 5.46\\ 5.36\end{array}$	7.22 7.81 7.22 7.07 5.84 5.65 6.25 5.65 5.51 5.08 5.22 5.22 5.22 5.22	$\begin{array}{c} 8.57\\ 9.10\\ 8.57\\ 8.49\\ 6.11\\ 6.41\\ 6.94\\ 6.41\\ 6.32\\ 5.15\\ 5.23\\ 5.23\\ 5.23\\ 5.23\\ 5.23\end{array}$	7.57 8.31 7.57 7.10 5.20 6.01 6.74 6.01 5.53 4.92 5.40 5.64 5.40	15.69 16.08 15.69 15.51 12.39 7.90 8.29 7.90 7.72 7.05 7.23 7.27 7.23

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

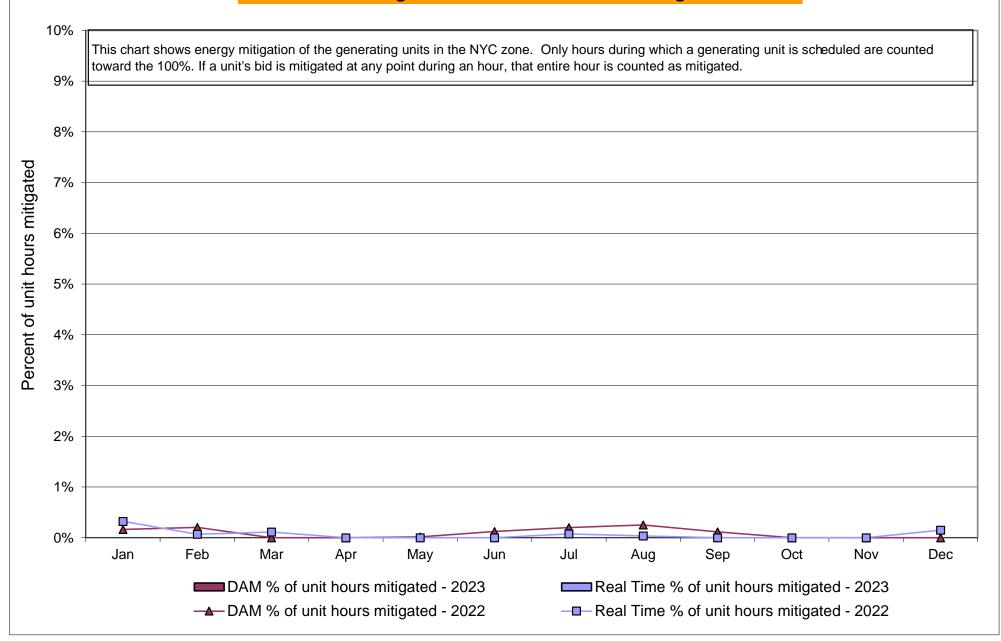
	NYISO Mark	<u>ets Ancil</u>	<u>lary Serv</u>	<u>vices Stat</u>	tistics -	<u>Unweigh</u>	<u>ited Pric</u>	<u>e (\$/M\</u>	<u> NH) - RT(</u>	<u> </u>		
<u>2023</u>	January	<u>February</u>	March	<u>April</u>	<u>May</u>	June	<u>July</u>	<u>August</u>	<u>September</u>	<u>October</u>	November	December
RTC Market	<u> </u>	,					,					
10 Min Spin Long Island (K)	2.22											
10 Min Spin NYC (J)	2.26											
10 Min Spin SENY (GHI)	2.22											
10 Min Spin East (F)	2.21											
10 Min Spin West (ABCDE)	1.57											
10 Min Non Synch Long Island (K)	0.86											
10 Min Non Synch NYC (J)	0.89											
10 Min Non Synch SENY (GHI)	0.86											
10 Min Non Synch East (F)	0.85											
10 Min Non Synch West (ABCDE)	0.54											
30 Min Long Island (K)	0.16											
30 Min NYC (J)	0.16											
30 Min SENY (GHI)	0.16											
30 Min East (F)	0.14											
30 Min West (ABCDE)	0.14											
Regulation	7.44											
NYCA Regulation Movement	0.13											
<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>October</u>	November	December
RTC Market	<u></u>	<u> </u>		<u></u>	<u> </u>		<u> </u>		<u> </u>			
10 Min Spin Long Island (K)	11.75	7.55	4.73	2.39	3.15	5.06	4.34	6.79	2.49	1.72	3.59	26.50
10 Min Spin NYC (J)	11.75	7.81	4.92	2.53	3.72	5.51	4.88	8.90	2.71	1.87	3.71	26.72
10 Min Spin SENY (GHI)	11.75	7.55	4.73	2.39	3.15	5.06	4.34	6.79	2.49	1.72	3.59	26.50
10 Min Spin East (F)	11.68	7.55	4.71	2.36	2.98	4.03	4.03	5.27	2.29	1.72	3.28	23.41
10 Min Spin West (ABCDE)	7.59	5.49	1.27	1.03	1.75	2.47	1.58	3.05	0.99	0.40	1.06	14.59
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	0.07	0.66	17.08
10 Min Non Synch NYC (J)	3.67	0.95	3.16	0.51	2.04	3.34	3.73	7.00	1.13	0.21	0.78	17.31
10 Min Non Synch SENY (GHI)	3.67	0.69	2.97	0.37	1.47	2.88	3.19	4.89	0.92	0.07	0.66	17.08
10 Min Non Synch East (F)	3.60	0.69	2.96	0.33	1.31	1.86	2.88	3.37	0.72	0.07	0.35	13.99
10 Min Non Synch West (ABCDE)	1.79	0.24	0.29	0.30	1.00	1.58	1.33	2.13	0.28	0.02	0.10	8.81
30 Min Long Island (K)	1.55	0.24	0.31	0.34	1.17	2.61	1.77	3.65	0.47	0.02	0.41	10.93
30 Min NYC (J)	1.55	0.24	0.31	0.34	1.34	2.74	1.85	4.43	0.52	0.02	0.41	11.11
30 Min SENY (GHI)	1.55	0.24	0.31	0.34	1.17	2.61	1.77	3.65	0.47	0.02	0.41	10.93
30 Min East (F)	1.48	0.24	0.29	0.30	1.00	1.58	1.46	2.13	0.28	0.02	0.10	7.84
30 Min West (ABCDE)	1.48	0.24	0.29	0.30	1.00	1.58	1.33	2.13	0.28	0.02	0.10	7.80
Regulation	31.59	17.95	12.23	7.77	8.36	14.11	7.96	9.46	12.79	8.03	9.52	25.14
NYCA Regulation Movement	0.16	0.17	0.14	0.10	0.13	0.20	0.18	0.23	0.22	0.16	0.16	0.19

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

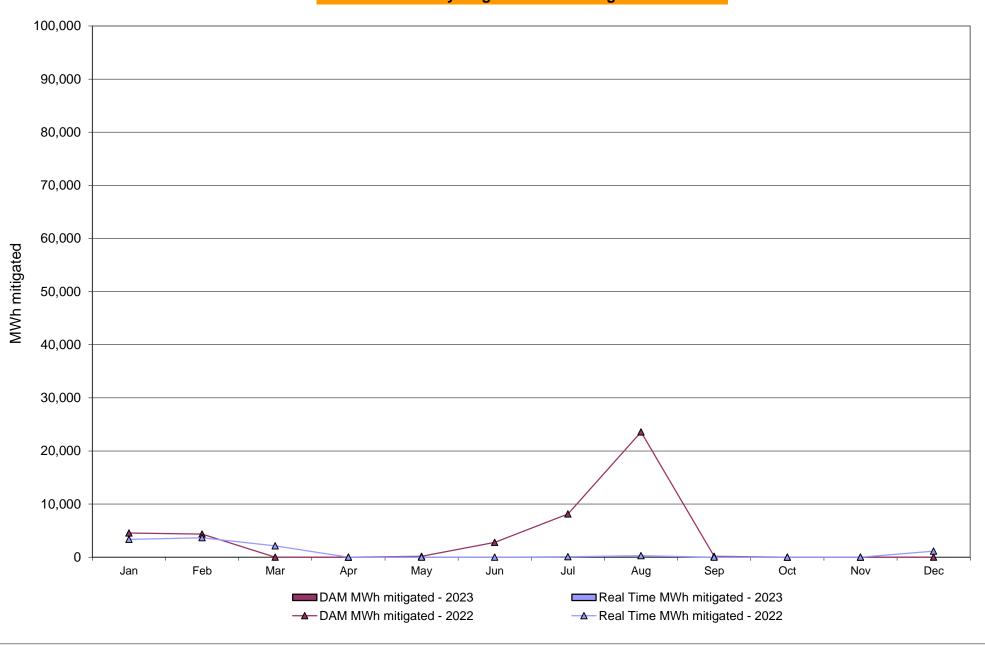
	NYISO Marl	<u>kets Anci</u>	<u>Ilary Ser</u>	<u>vices Sta</u>	<u>atistics -</u>	Unweig	hted Prie	<u>ce (\$/M</u>	<u>WH) - RT</u>			
<u>2023</u>	January	<u>February</u>	March	<u>April</u>	<u>May</u>	June	<u>July</u>	<u>August</u>	<u>September</u>	October	November	December
Real Time Market	<u>oundary</u>	robraary	maron	<u>, (p.m</u>	may		<u>o aij</u>	<u>ragaor</u>		000001		<u>2000111001</u>
10 Min Spin Long Island (K)	4.22											
10 Min Spin NYC (J)	4.30											
10 Min Spin SENY (GHI)	4.22											
10 Min Spin East (F)	4.20											
10 Min Spin West (ÁBCDE)	3.10											
10 Min Non Synch Long Island (K)	1.81											
10 Min Non Synch NYC (J)	1.89											
10 Min Non Synch SENY (GHI)	1.81											
10 Min Non Synch East (F)	1.79											
10 Min Non Synch West (ABCDE)	1.15											
30 Min Long Island (K)	0.39											
30 Min NYC (J)	0.39											
30 Min SENY (GHI)	0.39											
30 Min East (F)	0.36											
30 Min West (ABCDE)	0.36											
Regulation	8.46											
NYCA Regulation Movement	0.12											
<u>2022</u>	<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	<u>September</u>	<u>October</u>	<u>November</u>	<u>December</u>
Real Time Market												
10 Min Spin Long Island (K)	17.99	9.02	6.90	3.15	2.68	4.93	6.01	10.69	3.49	3.23	7.82	36.64
10 Min Spin NYC (J)	18.04	9.27	7.04	3.27	3.17	5.46	6.66	12.88	3.74	3.41	8.01	36.89
10 Min Spin SENY (GHI)	17.99	9.02	6.90	3.15	2.68	4.93	6.01	10.69	3.49	3.23	7.82	36.64
10 Min Spin East (F)	17.97	9.02	6.90	3.15	2.62	4.39	5.65	8.61	3.27	3.22	7.54	34.02
10 Min Spin West (ABCDE)	13.47	7.56	2.14	1.83	1.76	3.13	2.70	5.68	1.84	1.40	3.02	22.15
10 Min Non Synch Long Island (K)	5.34	0.59	4.05	0.40	0.43	2.42	4.26	6.67	0.81	0.38	2.63	23.83
10 Min Non Synch NYC (J)	5.40	0.84	4.19	0.51	0.92	2.95	4.90	8.85	1.06	0.56	2.81	24.09
10 Min Non Synch SENY (GHI)	5.34	0.59	4.05	0.40	0.43	2.42	4.26	6.67	0.81	0.38	2.63	23.83
10 Min Non Synch East (F)	5.33	0.59	4.05	0.40	0.37	1.88	3.90	4.58	0.59	0.37	2.35	21.21
10 Min Non Synch West (ABCDE)	2.46	0.20	0.19	0.29	0.34	1.51	1.79	2.37	0.25	0.01	0.10	12.80
30 Min Long Island (K)	1.42	0.20	0.16	0.29	0.40	2.05	2.28	4.29	0.47	0.01	0.38	11.54
30 Min NYC (J)	1.42	0.20	0.16	0.29	0.56	2.20	2.41	5.15	0.52	0.01	0.38	11.73
30 Min SENY (GHI)	1.42	0.20	0.16	0.29	0.40	2.05	2.28	4.29	0.47	0.01	0.38	11.54
30 Min East (F)	1.41	0.20	0.16	0.29	0.34	1.51	1.92	2.21	0.25	0.01	0.10	8.92
30 Min West (ABCDE)	1.41	0.20	0.16	0.29	0.34	1.51	1.79	2.21	0.25	0.01	0.10	8.87
Regulation	33.92	18.10	11.81	8.22	8.23	11.84	8.95	11.52	11.36	8.91	12.84	28.95
NYCA Regulation Movement	0.16	0.17	0.15	0.10	0.13	0.20	0.18	0.23	0.23	0.16	0.15	0.19

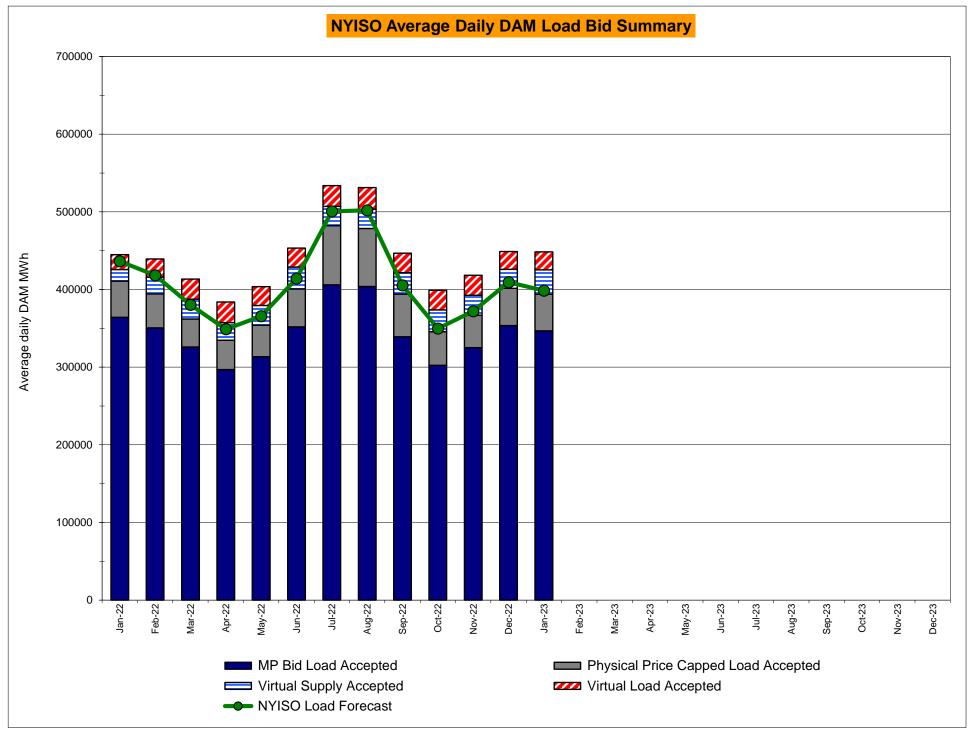
NVISO Markete Anaillary Services Statistics Unweighted Price (\$/MWU) DT

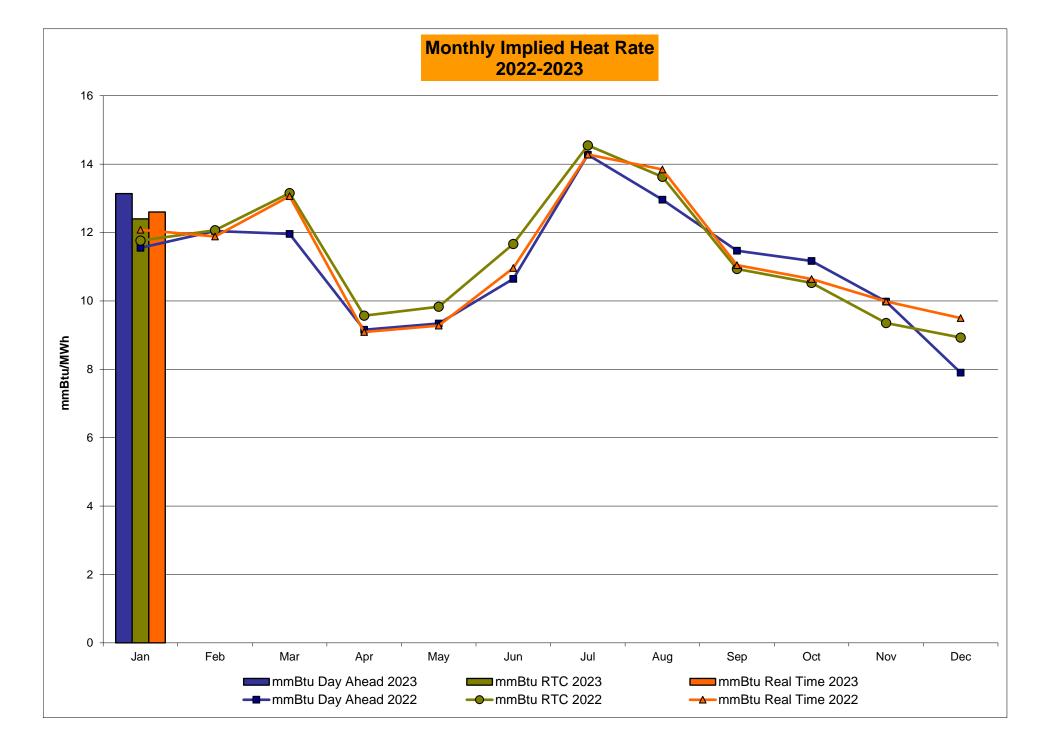
NYISO In City Energy Mitigation - AMP (NYC Zone) 2022 - 2023 Percentage of committed unit-hours mitigated



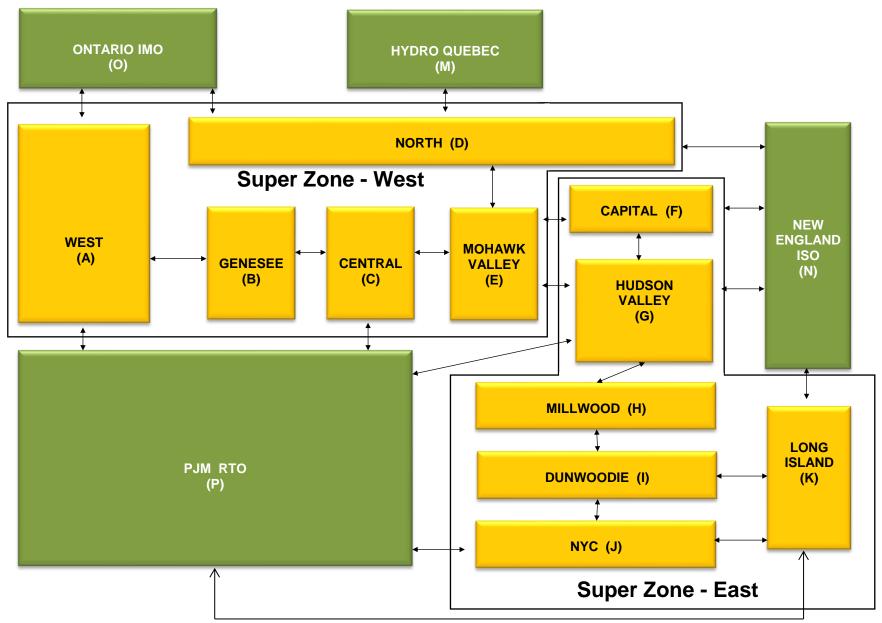
NYISO In City Energy Mitigation (NYC Zone) 2022 - 2023 Monthly megawatt hours mitigated







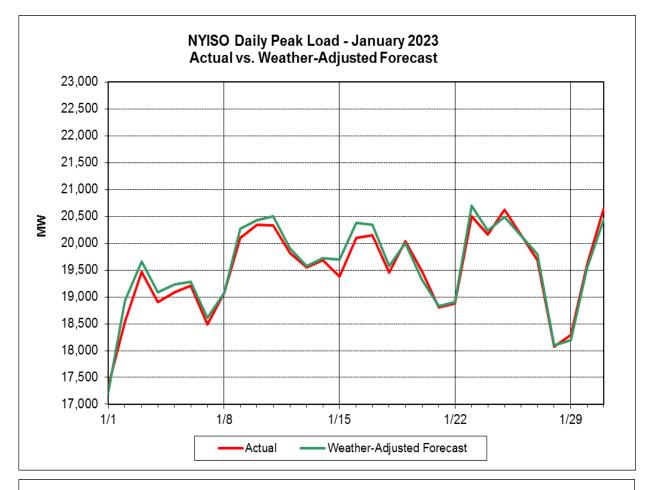
NYISO LBMP ZONES

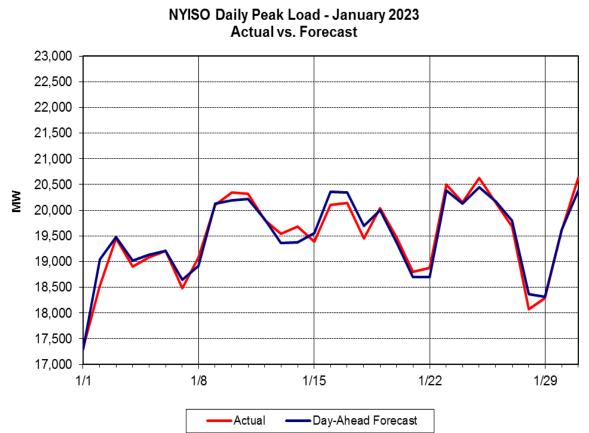


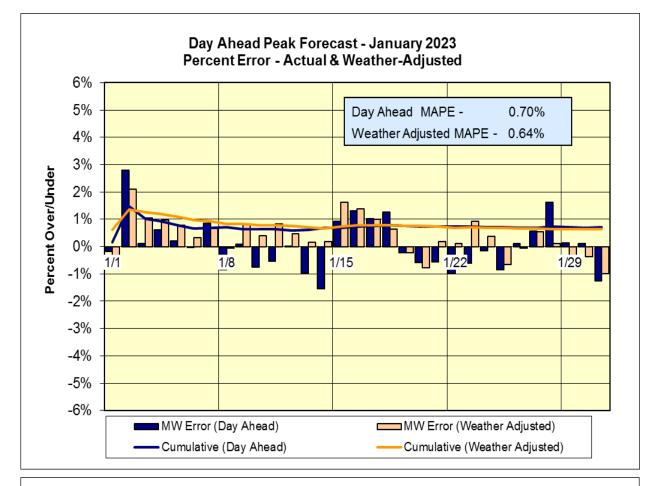
Market Mitigation and Analysis Prepared: 2/9/2023 11:33 AM

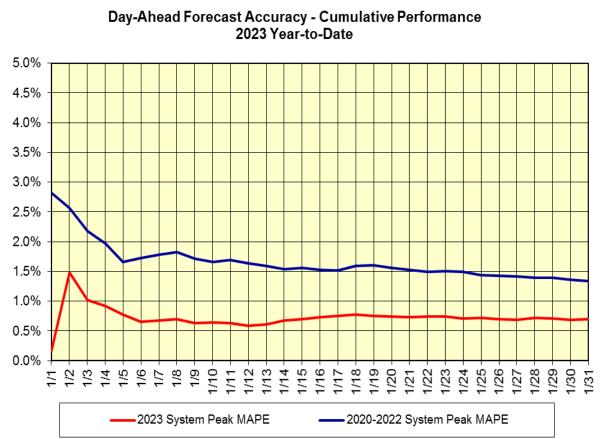
Billing Codes for Chart C

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 Regulatory Filings, Investigations, Rulemakings and Related Orders in NYISO Matters – January 2023 Filing Filing Summary Docket **Order Summary** Order Date Date 05/06/2022 Filed on behalf of the New York Power Authority (NYPA), NYPA's ER22-1014-001 FERC's order accepted NYPA's compliance 01/19/2023 response to a April 7, 2022 deficiency letter from FERC regarding filing to comply with FERC's March 11 and NYPA's February 10, 2022 request for incentive rate treatments July 5, 2022 orders. and corresponding revisions to NYPA's formula rate. A July 7, 2022 FERC order conditionally accepted the filing and directed NYPA to submit a compliance filing. 11/17/2022 Joint NYISO-NYPA Section 205 filing of an executed Large ER23-455-000 A FERC letter order accepted the executed 01/04/2023 Generator Interconnection Agreement (LGIA) among NYISO, agreement effective November 3, 2022, as NYPA, and North Side Energy Center for the North Side Solar requested. Project (SA No. 2739). 11/23/2022 Submittal of a Section 205 filing on behalf of New York Power ER23-491-000 FERC order accepted the proposed Tariff 01/23/2023 Authority (NYPA) of a proposal to revise its Formula Rate revisions to the Formula Rate Template and Template and Formula Rate Protocols. suspended them for a nominal period to become effective January 24, 2023, subject to refund, and set them for hearing and settlement judge procedures. FERC conditionally accepted for filing the proposed Tariff revisions to the Formula Rate Protocols, effective January 24, 2023, subject to revision and a compliance filing. 12/01/2022 Joint Section 205 filing of an Amended and Restated Small ER23-538-000 A FERC letter order accepted the 01/20/2023 Generator Interconnection Agreement among NYISO, National agreement effective November 16, 2022, as Grid and Darby Solar for the Darby Solar Project (SA 2556). reauested. 12/01/2022 Joint Section 205 filing of an Amended Small Generator A FERC letter order accepted the 01/25/2023 ER23-541-000 Interconnection Agreement among NYISO, National Grid, and agreement effective November 16, 2022, as Branscomb Solar for the Branscomb Solar Project (SA 2557). requested. 01/26/2023 12/02/2022 Joint NYISO-Con Edison Section 205 filing of an executed ER23-549-000 A FERC letter order accepted the Transmission Project Interconnection Agreement (TPIA) among agreement effective November 17, 2022, as NYISO, Con Edison, and Transco for Dover PAR substation under requested. the New York Energy Solution Project (SA2734). 12/13/2022 Filed on behalf of Niagara Mohawk, a notice of cancellation of a ER23-614-000 A FERC order accepted the cancellation 01/26/2023 Cost Reimbursement Agreement (CRA) with the Village of Solvay notice, effective February 13, 2023, as (SA No. 1810) requested.

Filing Date	Filing Summary	Docket	Order Summary	Order Date
01/10/2023	NYISO quarterly Transmission study report posting at NYISO website per FERC order 890.	Order 890		
01/12/2023	NYISO filing of motion to intervene and comments on NYSRC's 2023-24 Capability Year Installed Reserve Margin (IRM).	ER23-821-000		
1/12/2023	NYISO filing to NYPSC on NYSRC's 2023-24 Capability Year Installed Reserve Margin (IRM).	PSC Case No. 07-E-0088		
01/13/2023	NYISO motion to intervene and comments on Thousand Island Solar's January 5 request for waiver of Section 25.6.2.3.1 of the NYISO's OATT.	ER23-780-000		
01/13/2023	NYISO motion to intervene and comments on the January 3, 2023 request for waiver from Barrett Hempstead Battery Storage, Holtsville Brookhaven Battery Storage, Canal Southampton Battery Storage, and Edwards Calverton Battery Storage (the "Rhynland Companies") of Section 25.6.2.3.1 of the NYISO's OATT.	ER23-783-000		
01/13/2023	NYISO motion to intervene and comments on Microgrid Network's January 6, 2023 request for waiver of Section 25.6.2.3.1 of the NYISO's OATT.	ER23-785-000		
01/13/2023	NYISO motion to intervene and comments on ConnectGen Montgomery County's ("ConnectGen") January 6, 2023 request for waiver of Section 25.6.2.3.1 of the NYISO's OATT.	ER23-786-000		
01/13/2023	NYISO motion to intervene and comments on York Run Solar's ("York Run") January 6, 2023 request for waiver of Section 25.6.2.3.1 of the NYISO's OATT.	ER23-787-000		
01/17/2023	NYISO motion to intervene and comments on Boralex's January 9 request for waiver of Section 25.6.2.3.1 of the NYISO's OATT.	ER23-798-000		
01/19/2023	NYISO motion to intervene and comments on Gravel Road Solar's January 12, 2023 request for waiver of Section 25.6.2.3.1 of the NYISO's OATT.	ER23-830-000		
01/20/2023	NYISO motion to intervene and comments on the January 13, 2023 request for waiver from Innisfree Storage ("Innisfree") of Section 25.6.2.3.1 of the NYISO's OATT.	ER23-867-000		

Filing Date	Filing Summary	Docket	Order Summary	Order Date
	NYISO motion to intervene and comments on the January 13, 2023 request for waiver from North Country Wind ("North Country") of Section 25.6.2.3.1 of the NYISO's OATT.	ER23-860-000		
	NYISO motion to intervene and comments on the January 10, 2023 request for waiver from Invenergy Solar Project Development ("Invenergy") of Section 25.6.2.3.1 of the NYISO's OATT.	ER23-803-000		
	Filed on behalf of Niagara Mohawk, revisions to Niagara Mohawk's Transmission Service Charge (TSC) formula rate.	ER23-907-000		
	NYISO motion to intervene and comments on the January 13, 2023 request for waiver from Union Energy Center LLC ("UnionEC") of Section 25.6.2.3.1 of the NYISO's OATT.	ER23-859-000		
01/24/2023	Submission of the NYISO's Q4 2022 Electronic Quarterly Report (EQR).	ER02-2001-000		
	NYISO motion to intervene and comments on the January 18, 2023 request for waiver from North Seneca Solar Project LLC ("North Seneca") of Section 25.6.2.3.1 of the NYISO's OATT.	ER23-894-000		
	NYISO motion to intervene and comments on Crane Brook Solar Project's January 18 request for waiver of Section 25.6.2.3.1 of the NYISO's OATT.	ER23-893-000		
	Confidential NYISO data request response to RAO regarding hourly energy production			
	NYISO motion to intervene and protest on the January 20, 2023 request for waiver from Middletown Energy Storage ("Middletown") of Section 25.6.2.3.1 of the NYISO's OATT.	ER23-915-000		
	NYISO motion to intervene and protest on the January 20, 2023 request for waiver from Athens Energy Storage LLC ("Athens ES") of Section 25.6.2.3.1 of the NYISO's OATT.	ER23-916-000		
	NYISO filed on behalf of Niagara Mohawk Power Corporation (NMPC), proposed tariff revisions to allocate and recover costs related to the Smart Path Connect (SPC) Project, request to establish an incentive rate treatment for the SPC Project, and request to establish a regulatory asset for the Cost of Removal less Salvage.	ER23-973-000		