

# NYISO CEO/COO Report

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**Rich Dewey**

President & Chief Executive Officer

**Rick Gonzales**

Senior Vice President & Chief Operating Officer

**Management Committee Meeting**

September 27, 2023 Rensselaer, NY

# NYISO CEO/COO Report

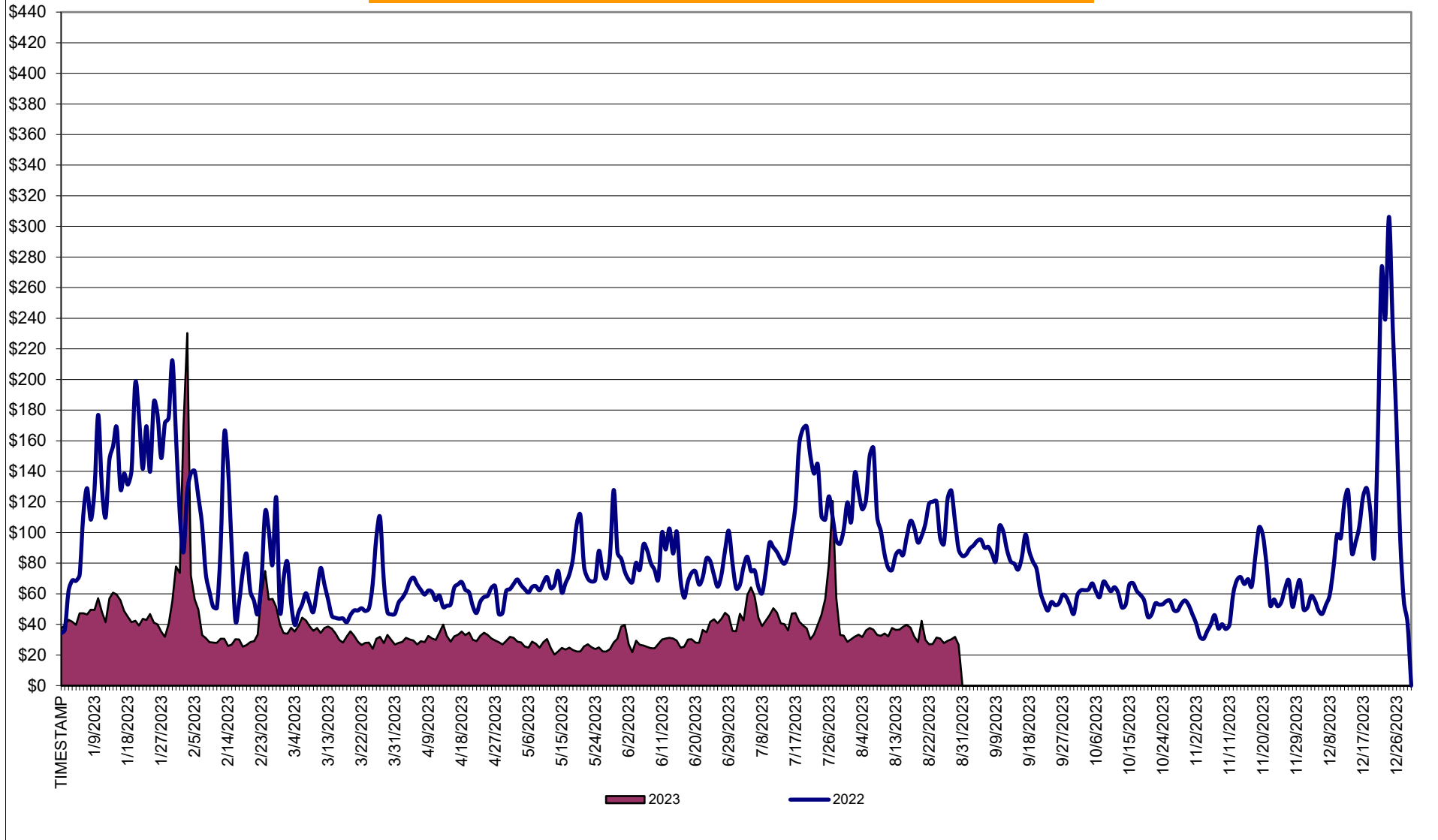
- **CEO Report**
- **COO Report**
  - Market Performance Highlights - For Information Only
    - Market Performance Metrics
  - Operations Performance Metrics Monthly Report

# Market Performance Highlights

## August 2023

- LBMP for August is \$29.95/MWh; lower than the \$45.70/MWh in July 2023 and lower than \$108.85/MWh in August 2022.
  - Day Ahead Load Weighted LBMPs and Real Time Load Weighted LBMPs are lower compared to July.
- August 2023 average year-to-date monthly cost of \$40.13/MWh is a 56% decrease from \$93.42/MWh in August 2022.
- Average daily send out is 450 GWh/day in August; lower than 503 GWh/day in July 2023 and lower than 514 GWh/day in August 2022.
- Natural gas prices are lower compared to the previous month. Distillate prices are higher compared to the previous month.
  - Natural Gas (Transco Z6 NY) was \$1.18/MMBtu, down from \$1.57/MMBtu in July.
  - Natural gas prices (Transco Z6 NY) are down 85.5% year-over-year.
  - Jet Kerosene Gulf Coast was \$21.49/MMBtu, up from \$18.38/MMBtu in July.
  - Ultra Low Sulfur No.2 Diesel NY Harbor was \$21.72/MMBtu, up from \$19.06/MMBtu in July.
  - Distillate prices are down 15.4% year-over-year
- Uplift per MWh is higher compared to the previous month.
  - Uplift (not including NYISO cost of operations) is \$0.16/MWh; higher than (0.43)/MWh in July.
    - Local Reliability Share is \$0.19/MWh, lower than \$0.20/MWh in July.
    - Statewide Share is (\$0.03)/MWh, higher than (\$0.62)/MWh in July.
  - TSA \$ per NYC MWh is \$0.07/MWh.
  - Total uplift costs (Schedule 1 components including NYISO Cost of Operations) are higher than July.

**Daily NYISO Average Cost/MWh (Energy & Ancillary Services)\***  
**2022 Annual Average \$89.23/MWh**  
**August 2022 YTD Average \$93.42/MWh**  
**August 2023 YTD Average \$40.13/MWh**



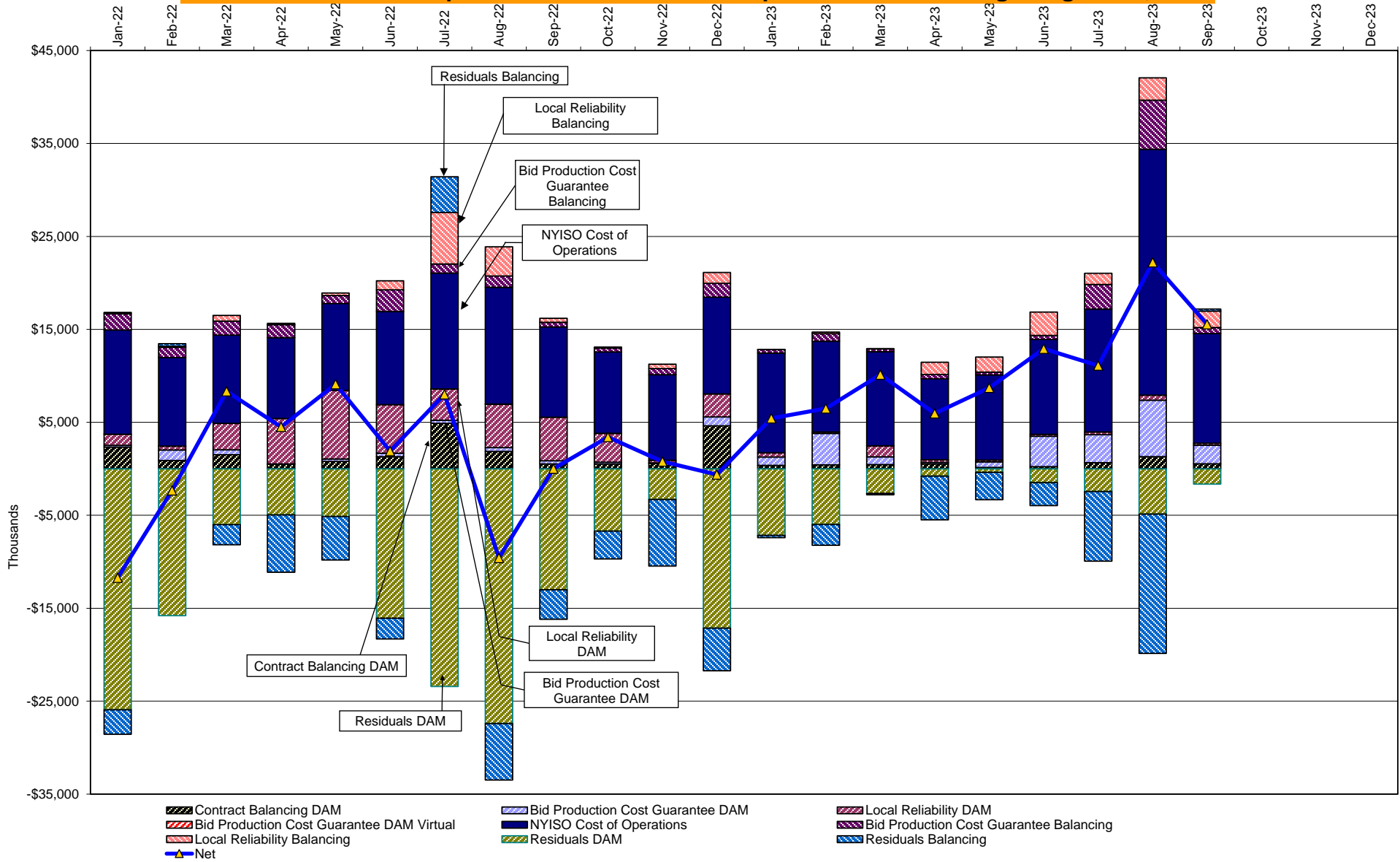
\* Excludes ICAP payments.

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

<b>2023</b>	<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>
LBMP	42.10	55.47	31.11	28.07	23.13	29.85	45.70	29.95				
NTAC	2.82	1.15	1.39	1.72	1.38	1.62	1.79	1.74				
Reserve	0.72	0.90	0.73	0.85	0.81	0.69	0.76	0.56				
Regulation	0.09	0.13	0.13	0.15	0.12	0.10	0.10	0.09				
NYISO Cost of Operations	0.77	0.77	0.77	0.78	0.78	0.78	0.80	0.80				
FERC Fee Recovery	0.08	0.09	0.09	0.10	0.10	0.09	0.06	0.07				
Uplift	(0.38)	(0.27)	(0.00)	(0.34)	(0.13)	0.09	(0.43)	0.16				
Uplift: Local Reliability Share	0.03	0.03	0.09	0.04	0.07	0.35	0.20	0.19				
Uplift: Statewide Share	(0.41)	(0.30)	(0.10)	(0.38)	(0.20)	(0.26)	(0.62)	(0.03)				
Voltage Support and Black Start	0.42	0.42	0.43	0.43	0.43	0.43	0.44	0.44				
<b>Avg Monthly Cost</b>	46.56	58.58	34.58	31.67	26.55	33.60	49.17	33.76				
Avg YTD Cost	46.64	52.36	46.65	43.45	40.45	39.27	41.18	40.13				
TSA \$ per NYC MWh	0.00	0.00	0.00	0.00	0.00	0.08	0.74	0.07				
<b>2022</b>	<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>
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
<b>Avg Monthly Cost</b>	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

\* Excludes ICAP payments.  
Market Mitigation and Analysis  
Prepared: 9/12/2023 5:12 PM

## NYISO Dollar Flows - Uplift - OATT Schedule 1 components - Data through August 31, 2023



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.

## NYISO Markets Transactions

<u>2023</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>
<b>Day Ahead Market MWh</b>	13,662,137	12,355,489	12,651,083	11,058,870	11,601,426	12,934,709	16,199,282	14,407,179				
DAM LSE Internal LBMP Energy Sales	55%	55%	56%	55%	55%	57%	63%	62%				
DAM External TC LBMP Energy Sales	7%	7%	4%	4%	4%	6%	4%	3%				
DAM Bilateral - Internal Bilaterals	28%	29%	30%	30%	31%	29%	25%	28%				
DAM Bilateral - Import/Non-LBMP Market Bilaterals	5%	5%	6%	6%	6%	6%	5%	4%				
DAM Bilateral - Export/Non-LBMP Market Bilaterals	2%	2%	2%	2%	2%	2%	1%	2%				
DAM Bilateral - Wheel Through Bilaterals	3%	2%	2%	2%	2%	2%	2%	1%				
<b>Balancing Energy Market MWh</b>	328,840	397,488	420,170	303,381	-77,279	-40,037	235,270	217,374				
Balancing Energy LSE Internal LBMP Energy Sales	65%	38%	53%	43%	-157%	37%	118%	79%				
Balancing Energy External TC LBMP Energy Sales	68%	68%	58%	69%	223%	143%	47%	72%				
Balancing Energy Bilateral - Internal Bilaterals	2%	1%	2%	-1%	-5%	28%	5%	8%				
Balancing Energy Bilateral - Import/Non-LBMP Market Bilaterals	0%	0%	0%	0%	7%	0%	0%	0%				
Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals	7%	6%	6%	5%	10%	18%	5%	5%				
Balancing Energy Bilateral - Wheel Through Bilaterals	-43%	-13%	-18%	-16%	-178%	-326%	-75%	-64%				
<b>Transactions Summary</b>												
LBMP	63%	63%	62%	61%	60%	63%	69%	67%				
Internal Bilaterals	28%	28%	29%	29%	31%	29%	25%	27%				
Import Bilaterals	5%	5%	6%	6%	6%	6%	4%	4%				
Export Bilaterals	2%	2%	2%	3%	2%	2%	1%	2%				
Wheels Through	2%	1%	1%	2%	1%	0%	0%	0%				
<b>Market Share of Total Load</b>												
Day Ahead Market	97.6%	96.9%	96.8%	97.3%	100.7%	100.3%	98.6%	98.5%				
Balancing Energy +	2.4%	3.1%	3.2%	2.7%	-0.7%	-0.3%	1.4%	1.5%				
Total MWh	13,990,977	12,752,977	13,071,253	11,362,252	11,524,147	12,894,671	16,434,552	14,624,553				
Average Daily Energy Sendout/Month GWh	410	408	387	349	350	401	503	450				

<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>
<b>Day Ahead Market MWh</b>	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 - Import/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%
<b>Balancing Energy Market MWh</b>	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 - Import/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%
<b>Transactions Summary</b>												
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%
<b>Market Share of Total Load</b>												
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.

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>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	<u>September</u>	<u>October</u>	<u>November</u>	<u>December</u>
<b><u>DAY AHEAD LBMP</u></b>												
Price *	\$40.60	\$47.82	\$29.84	\$26.91	\$22.41	\$27.67	\$41.75	\$28.18				
Standard Deviation	\$10.32	\$47.20	\$7.42	\$6.50	\$6.46	\$9.25	\$24.21	\$8.54				
Load Weighted Price **	\$41.37	\$50.55	\$30.37	\$27.38	\$23.02	\$28.99	\$44.71	\$29.28				
<b><u>RTC LBMP</u></b>												
Price *	\$38.28	\$42.67	\$28.02	\$26.93	\$21.13	\$27.94	\$40.11	\$30.37				
Standard Deviation	\$31.37	\$39.75	\$11.53	\$9.23	\$7.61	\$12.06	\$25.96	\$12.80				
Load Weighted Price **	\$39.04	\$44.80	\$28.49	\$27.39	\$21.62	\$29.24	\$42.24	\$31.41				
<b><u>REAL TIME LBMP</u></b>												
Price *	\$38.76	\$43.99	\$28.15	\$27.41	\$20.76	\$27.44	\$37.88	\$30.75				
Standard Deviation	\$45.06	\$43.54	\$15.02	\$13.08	\$9.13	\$12.38	\$23.42	\$21.44				
Load Weighted Price **	\$39.68	\$46.75	\$28.72	\$27.97	\$21.27	\$28.66	\$39.88	\$32.06				
Average Daily Energy Sendout/Month GWh	410	408	387	349	350	401	503	450				

### NYISO Markets 2022 Energy Statistics

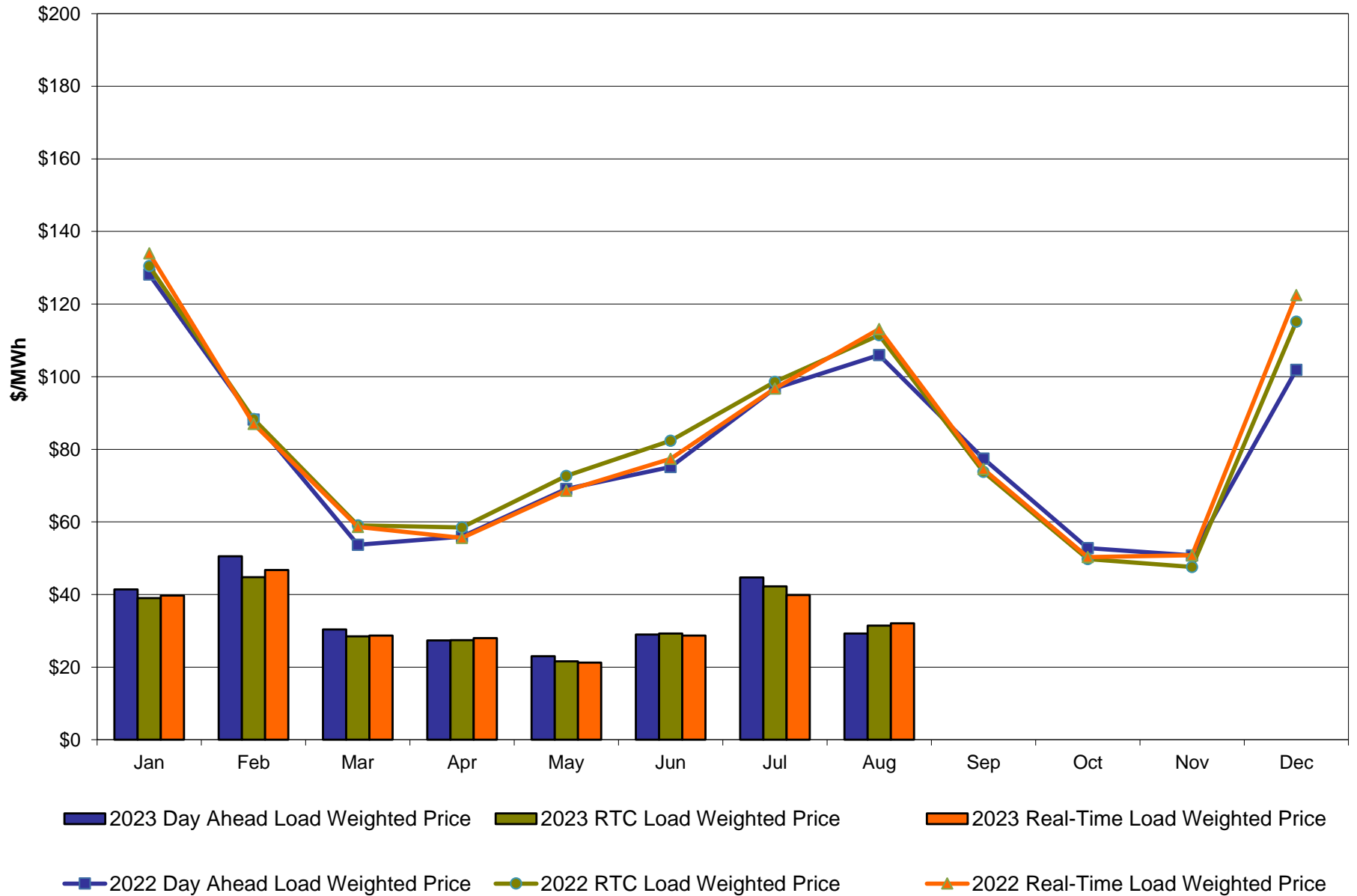
	<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	<u>September</u>	<u>October</u>	<u>November</u>	<u>December</u>
<b><u>DAY AHEAD LBMP</u></b>												
Price *	\$124.39	\$85.98	\$52.41	\$55.23	\$66.11	\$72.43	\$90.42	\$100.71	\$74.23	\$51.77	\$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
<b><u>RTC LBMP</u></b>												
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
<b><u>REAL TIME LBMP</u></b>												
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.



### NYISO Monthly Average Internal LBMPs 2022 - 2023



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

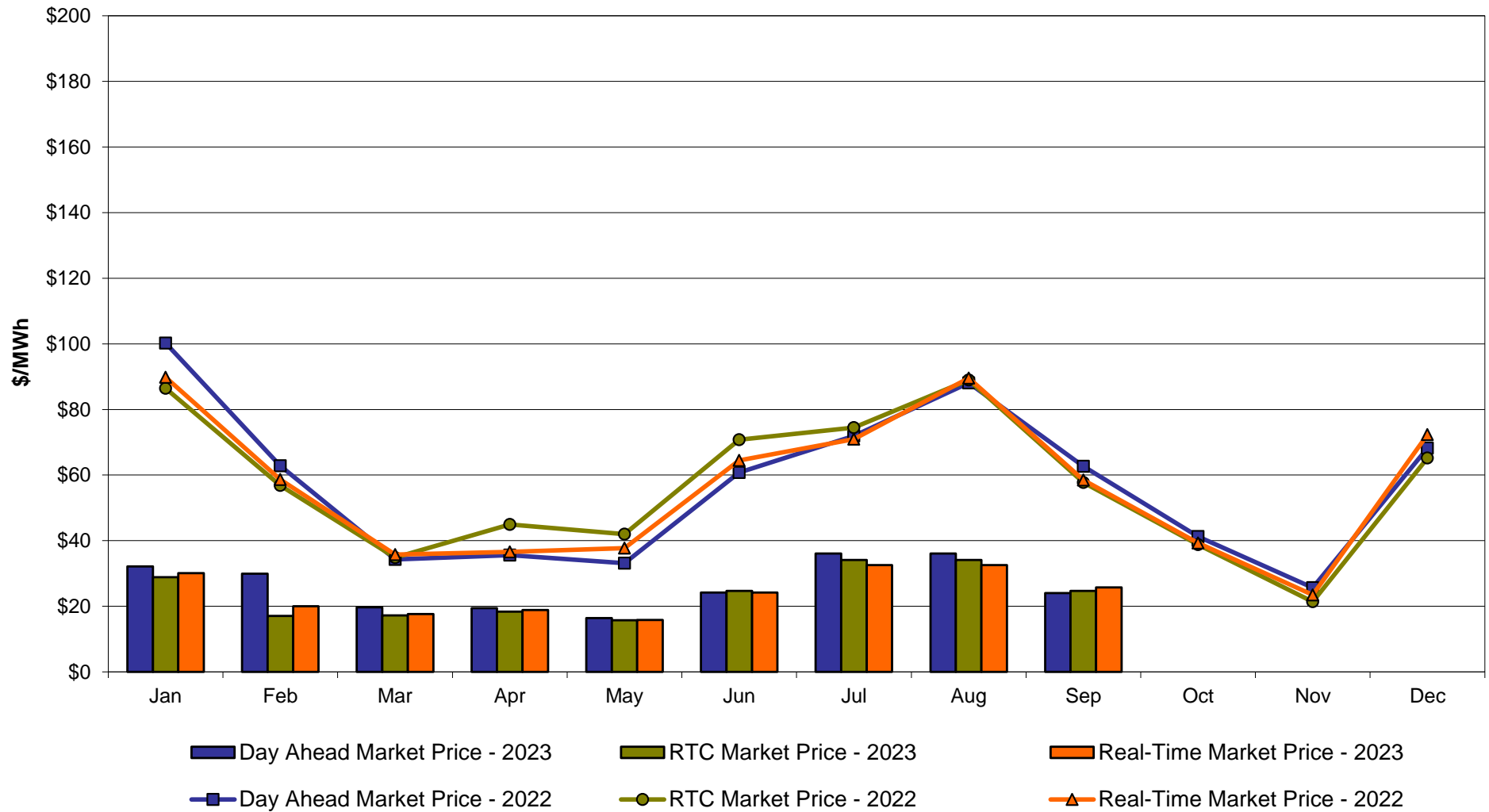
	<u>WEST Zone A</u>	<u>GENESEE Zone B</u>	<u>NORTH Zone D</u>	<u>CENTRAL Zone C</u>	<u>MOHAWK VALLEY Zone E</u>	<u>CAPITAL Zone F</u>	<u>HUDSON VALLEY Zone G</u>	<u>MILLWOOD Zone H</u>	<u>DUNWOODIE Zone I</u>	<u>NEW YORK CITY Zone J</u>	<u>LONG ISLAND Zone K</u>
<b><u>DAY AHEAD LBMP</u></b>											
Unweighted Price *	24.05	24.15	22.41	24.51	25.01	27.42	27.29	27.62	27.73	27.98	36.99
Standard Deviation	5.92	6.00	7.38	6.14	6.29	7.50	7.29	7.49	7.50	7.65	18.68
<b><u>RTC LBMP</u></b>											
Unweighted Price *	24.68	24.74	16.20	25.20	25.60	29.05	28.62	28.98	29.08	29.63	45.26
Standard Deviation	9.53	9.81	55.44	9.76	10.23	7.55	7.38	7.40	7.44	8.28	48.22
<b><u>REAL TIME LBMP</u></b>											
Unweighted Price *	25.73	25.71	16.56	26.08	26.51	29.79	29.39	30.01	30.16	30.81	42.67
Standard Deviation	18.76	18.87	60.29	19.00	19.49	18.67	19.10	19.18	19.26	20.35	41.23

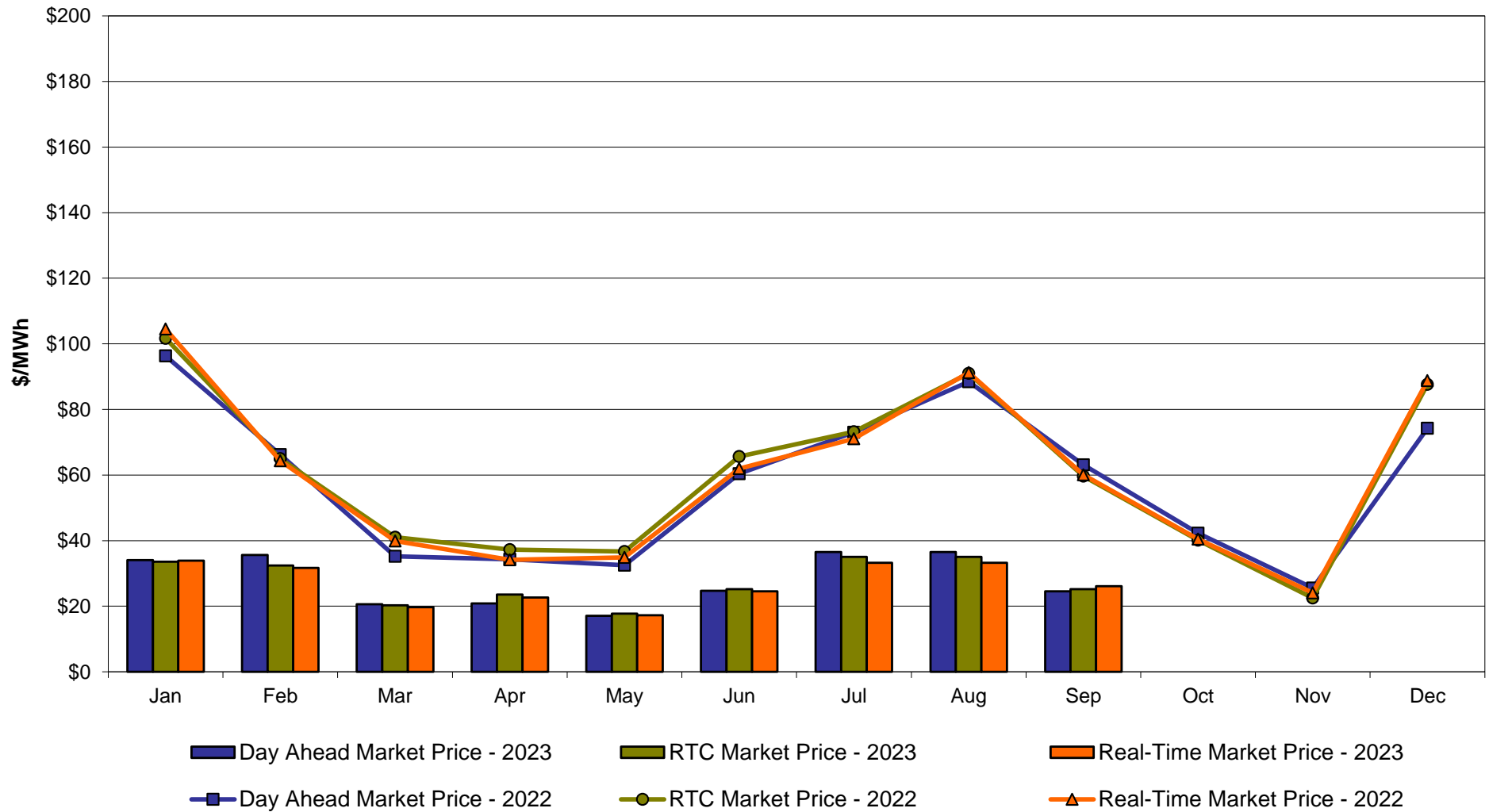
	<u>ONTARIO IESO Zone O</u>	<u>HYDRO QUEBEC (Wheel) Zone M</u>	<u>HYDRO QUEBEC (Import/Export) Zone M</u>	<u>PJM Zone P</u>	<u>NEW ENGLAND Zone N</u>	<u>CROSS SOUND CABLE Controllable Line</u>	<u>NORTHPORT- NORWALK Controllable Line</u>	<u>NEPTUNE Controllable Line</u>	<u>LINDEN VFT Controllable Line</u>	<u>HUDSON Controllable Line</u>	<u>Dennison Controllable Line</u>
<b><u>DAY AHEAD LBMP</u></b>											
Unweighted Price *	23.57	22.51	22.51	25.69	26.48	44.59	29.72	31.93	27.41	27.68	22.18
Standard Deviation	5.70	7.19	7.19	6.45	6.05	37.40	6.84	9.37	7.00	7.47	7.44
<b><u>RTC LBMP</u></b>											
Unweighted Price *	24.08	16.83	16.83	26.54	28.40	59.48	35.73	35.89	28.59	29.01	15.53
Standard Deviation	9.31	50.52	50.52	7.91	7.17	87.31	34.18	34.50	7.17	7.42	58.24
<b><u>REAL TIME LBMP</u></b>											
Unweighted Price *	25.95	17.27	17.27	27.16	28.98	55.90	31.91	33.95	29.63	30.08	15.91
Standard Deviation	19.22	55.36	55.36	18.89	19.63	76.32	25.95	28.40	19.04	19.21	63.21

\* Straight LBMP averages

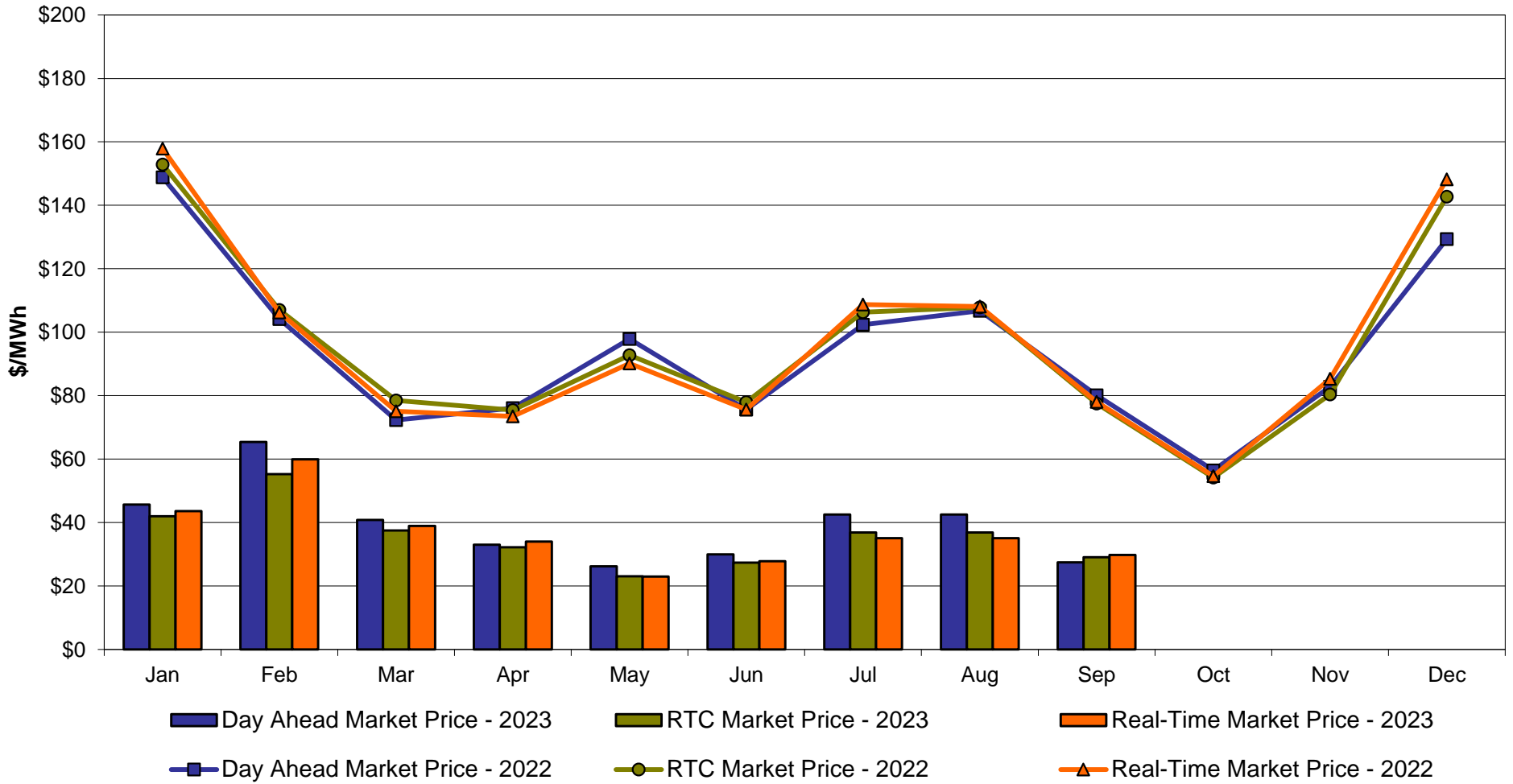
## West Zone A Monthly Average LBMP Prices 2022 - 2023



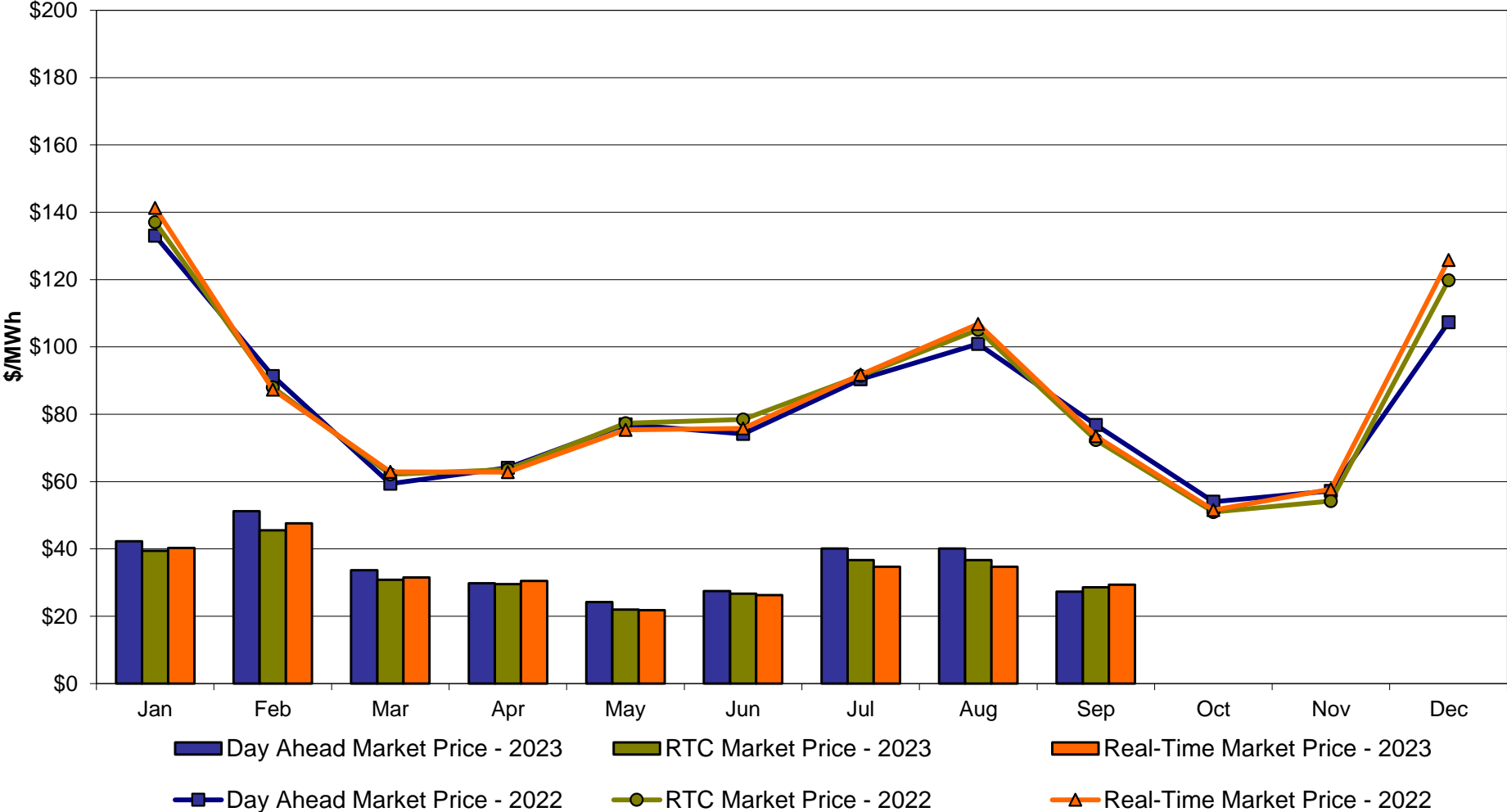
### Central Zone C Monthly Average LBMP Prices 2022 - 2023



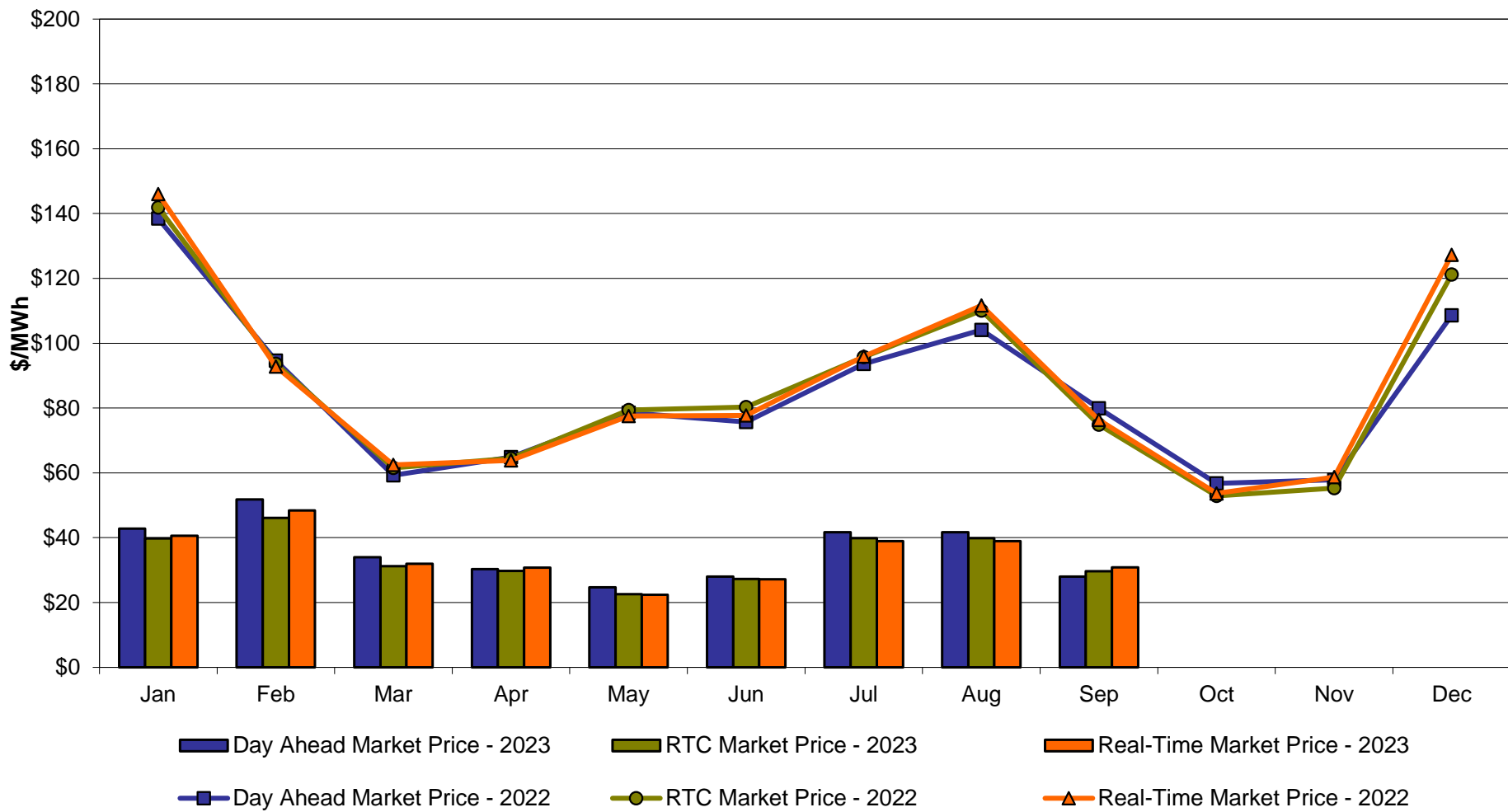
**Capital Zone F  
Monthly Average LBMP Prices 2022 - 2023**



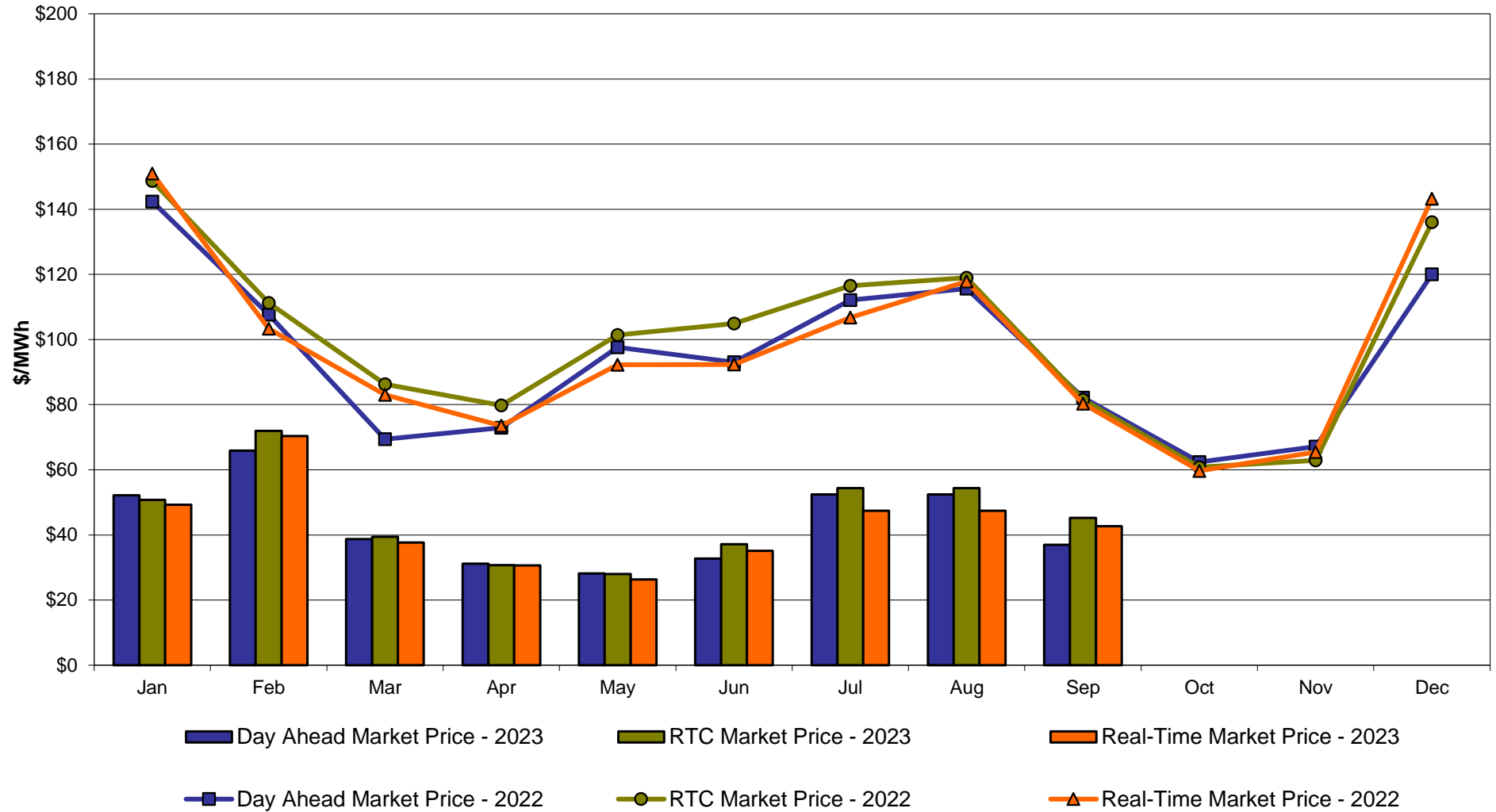
### Hudson Valley Zone G Monthly Average LBMP Prices 2022 - 2023



## NYC Zone J Monthly Average LBMP Prices 2022 - 2023

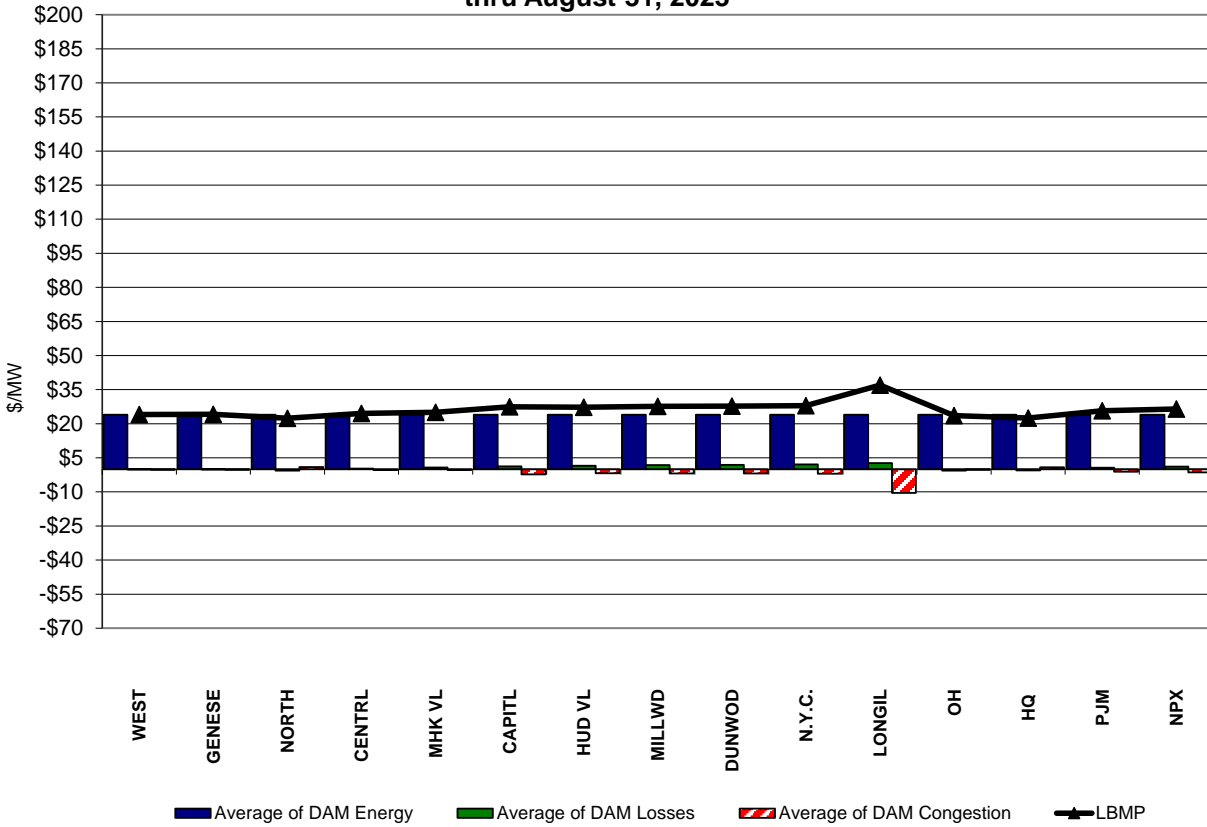


## Long Island Zone K Monthly Average LBMP Prices 2022 - 2023

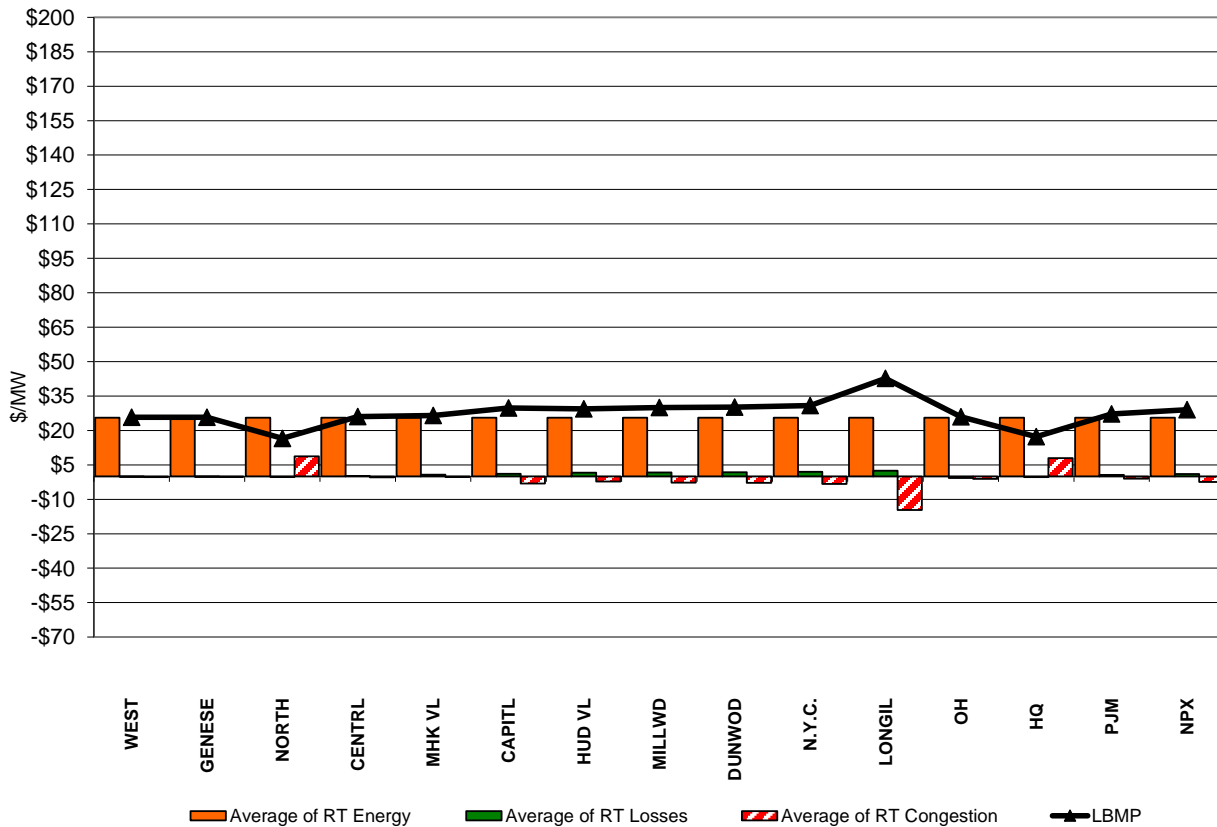




### DAM Zonal Unweighted Monthly Average LBMP Components thru August 31, 2023

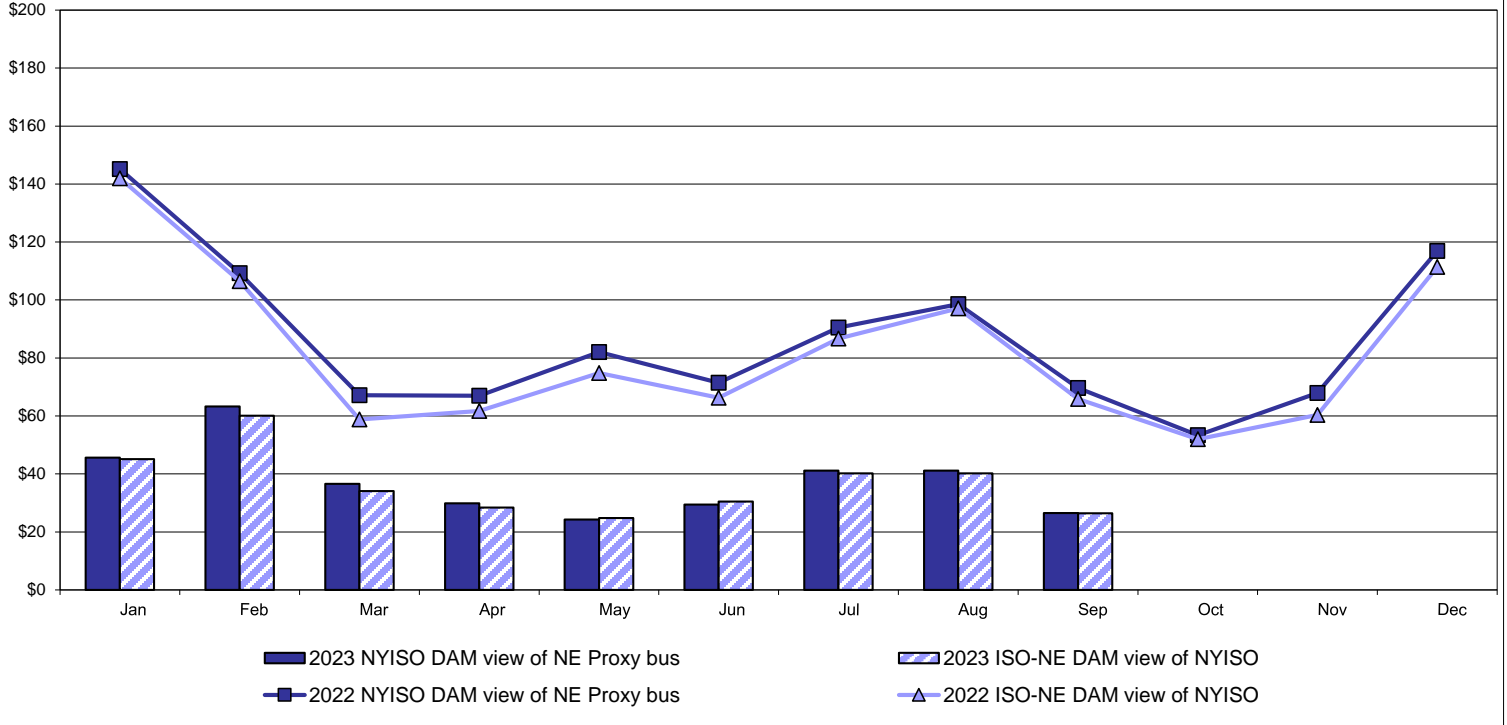


### RT Zonal Unweighted Monthly Average LBMP Components thru August 31, 2023

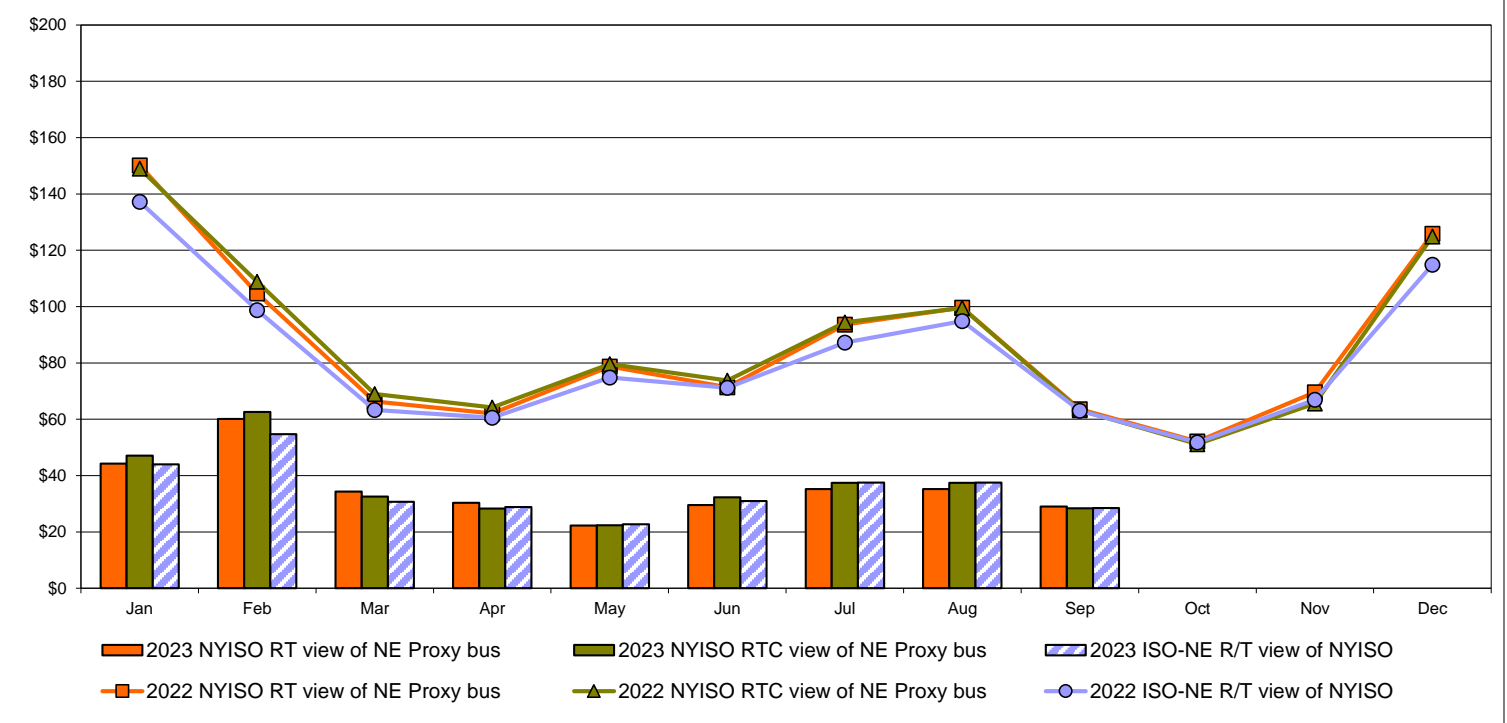


# External Comparison ISO-New England

## Day Ahead Market External Zone Comparison: ISO-NE (\$/MWh)

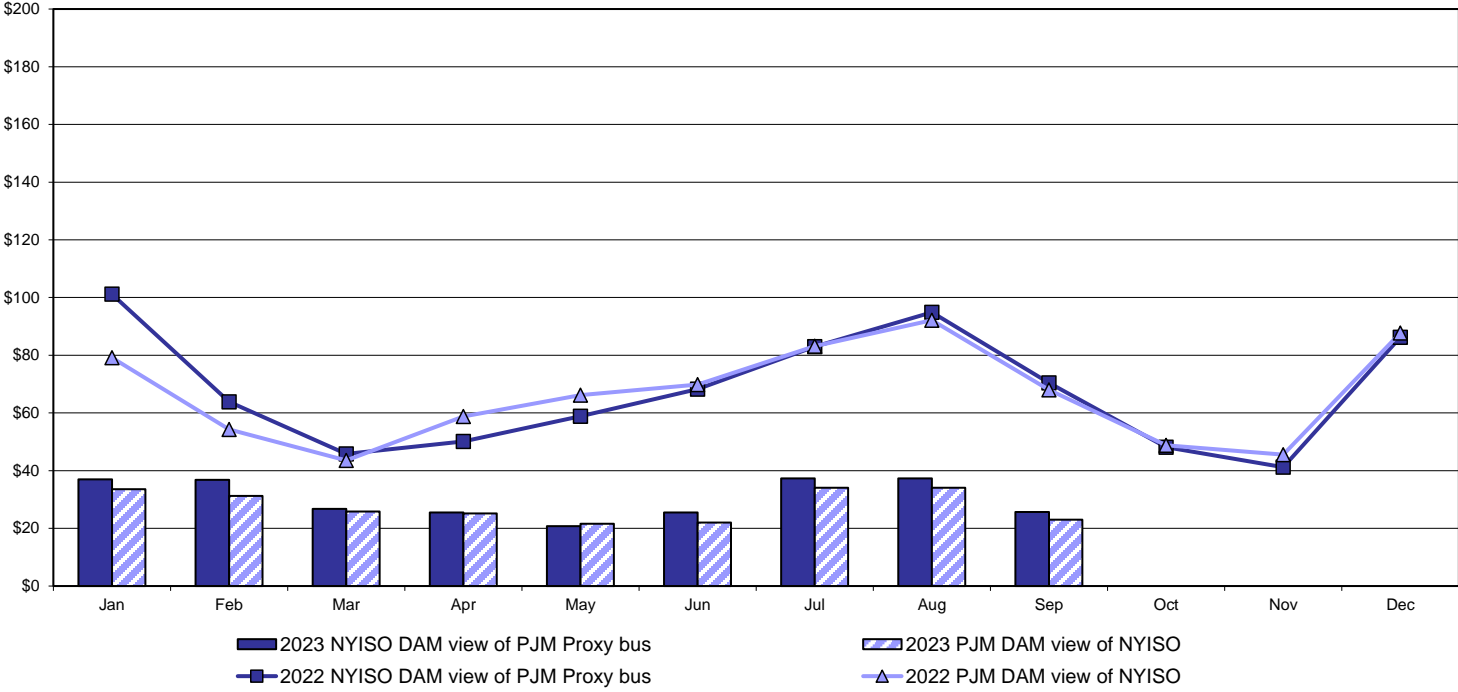


## Real Time Market External Zone Comparison: ISO-NE (\$/MWh)

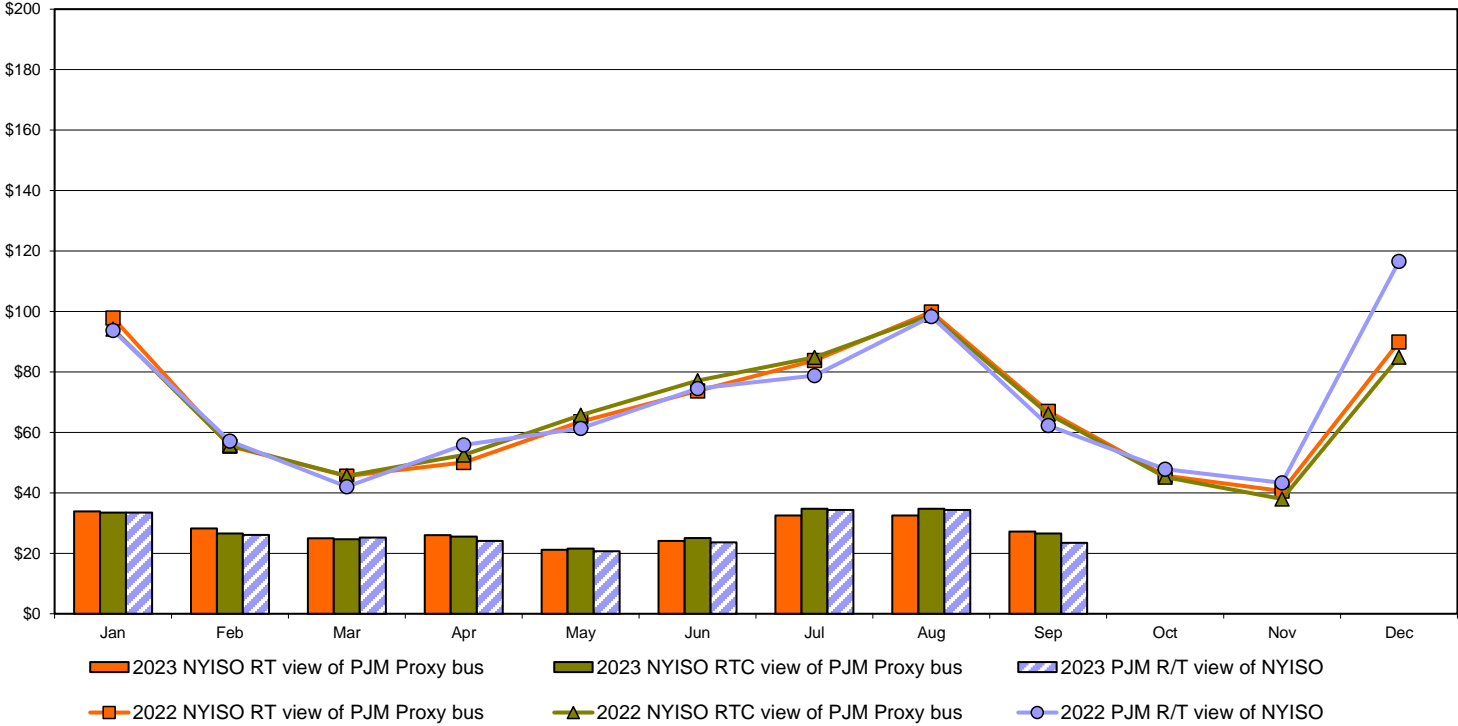


# External Comparison PJM

## Day Ahead Market External Zone Comparison - PJM (\$/MWh)

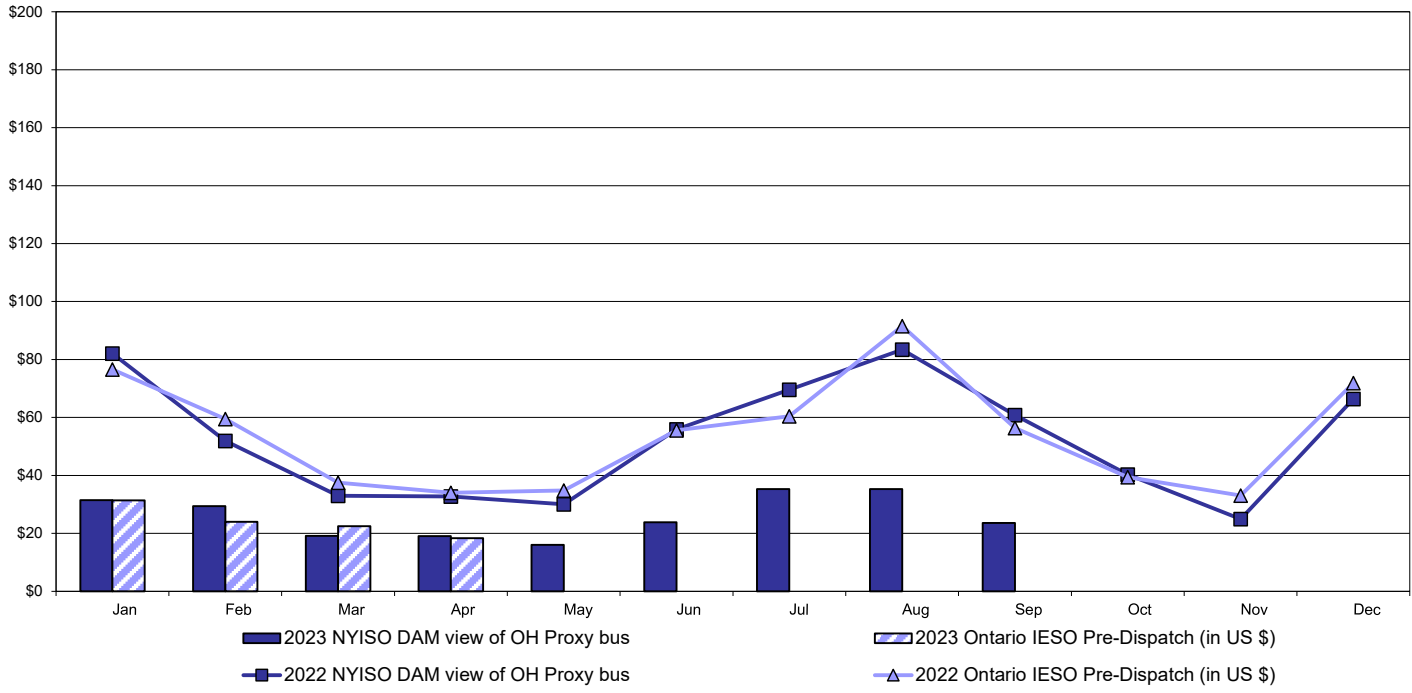


## Real Time Market External Zone Comparison - PJM (\$/MWh)

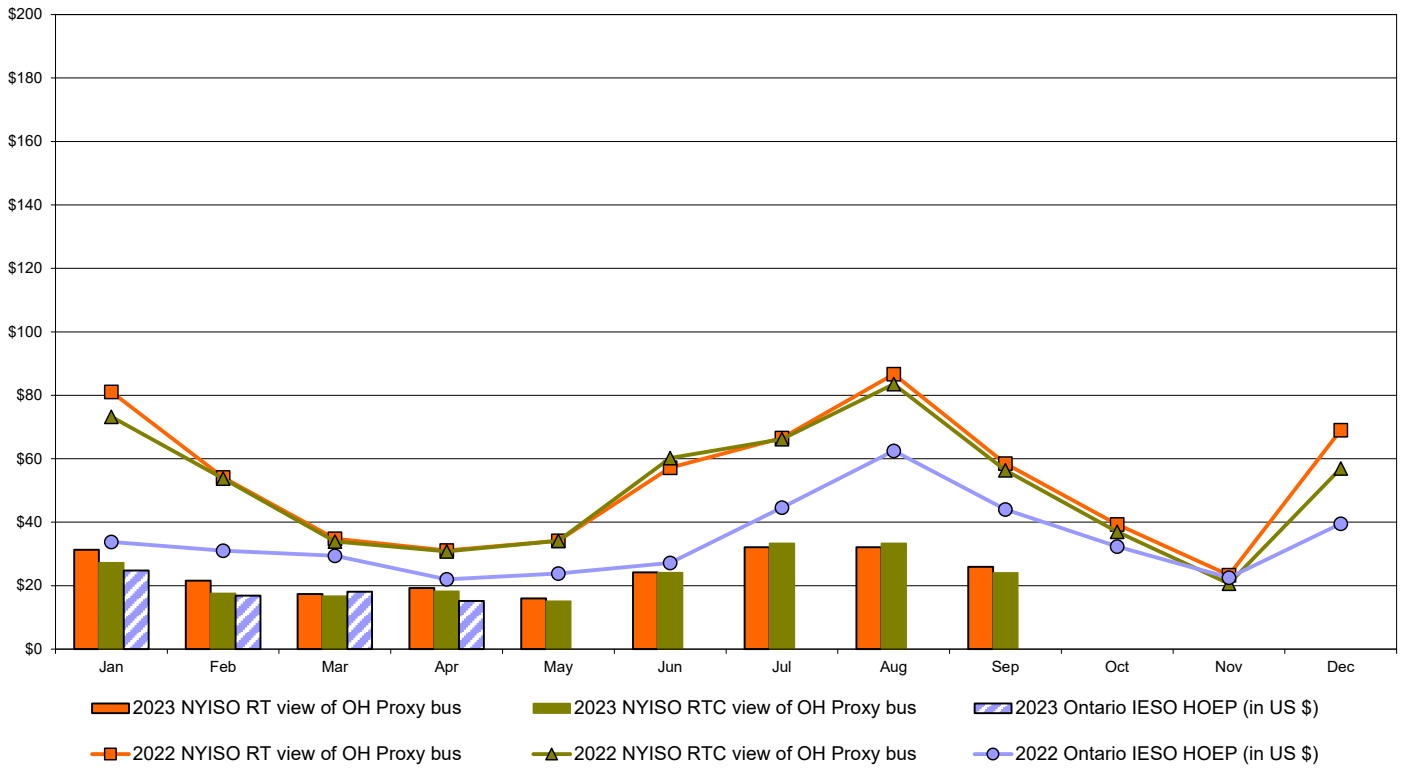


# External Comparison Ontario IESO

## Day Ahead Market External Zone Comparison - Ontario IESO (\$/MWh)

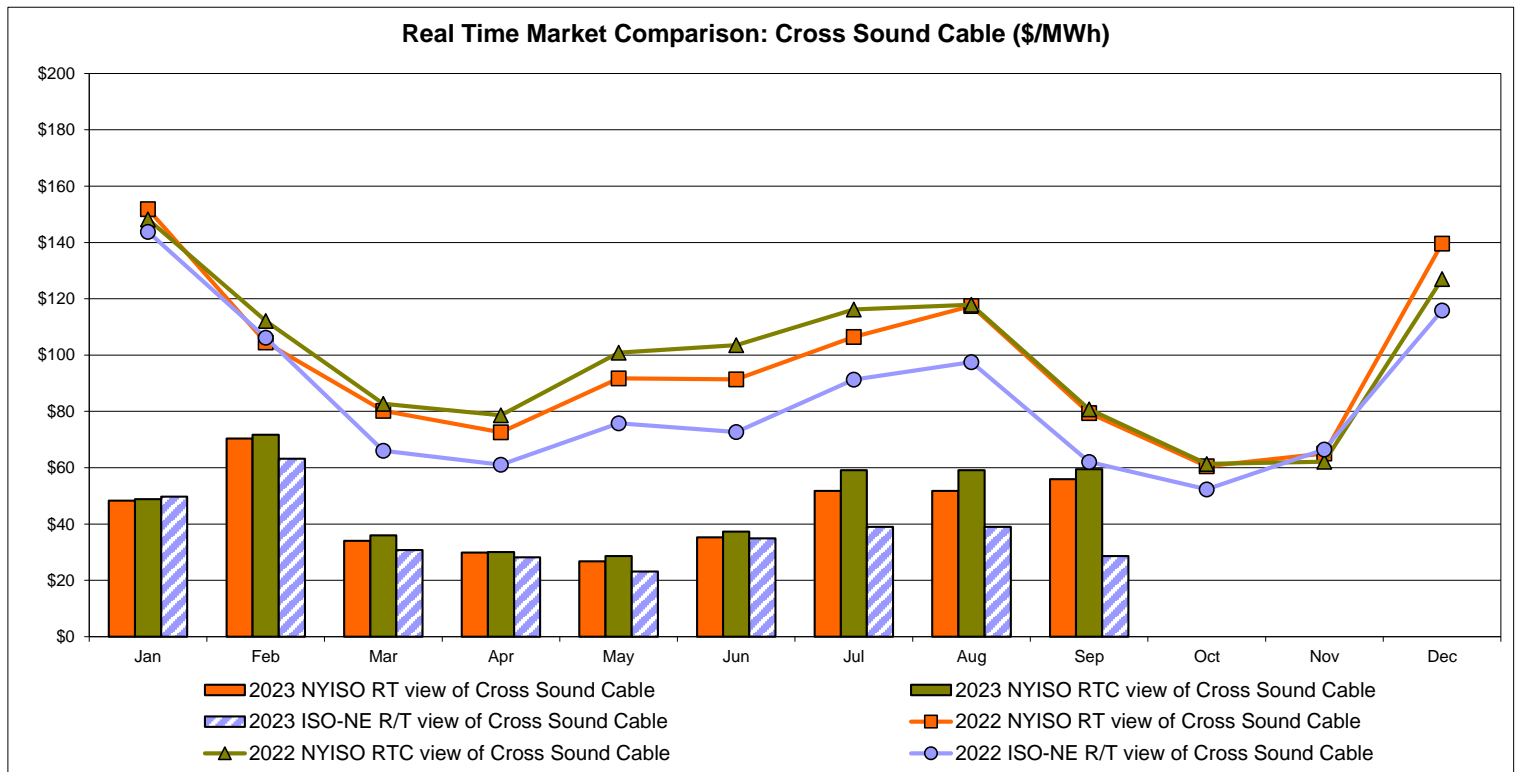
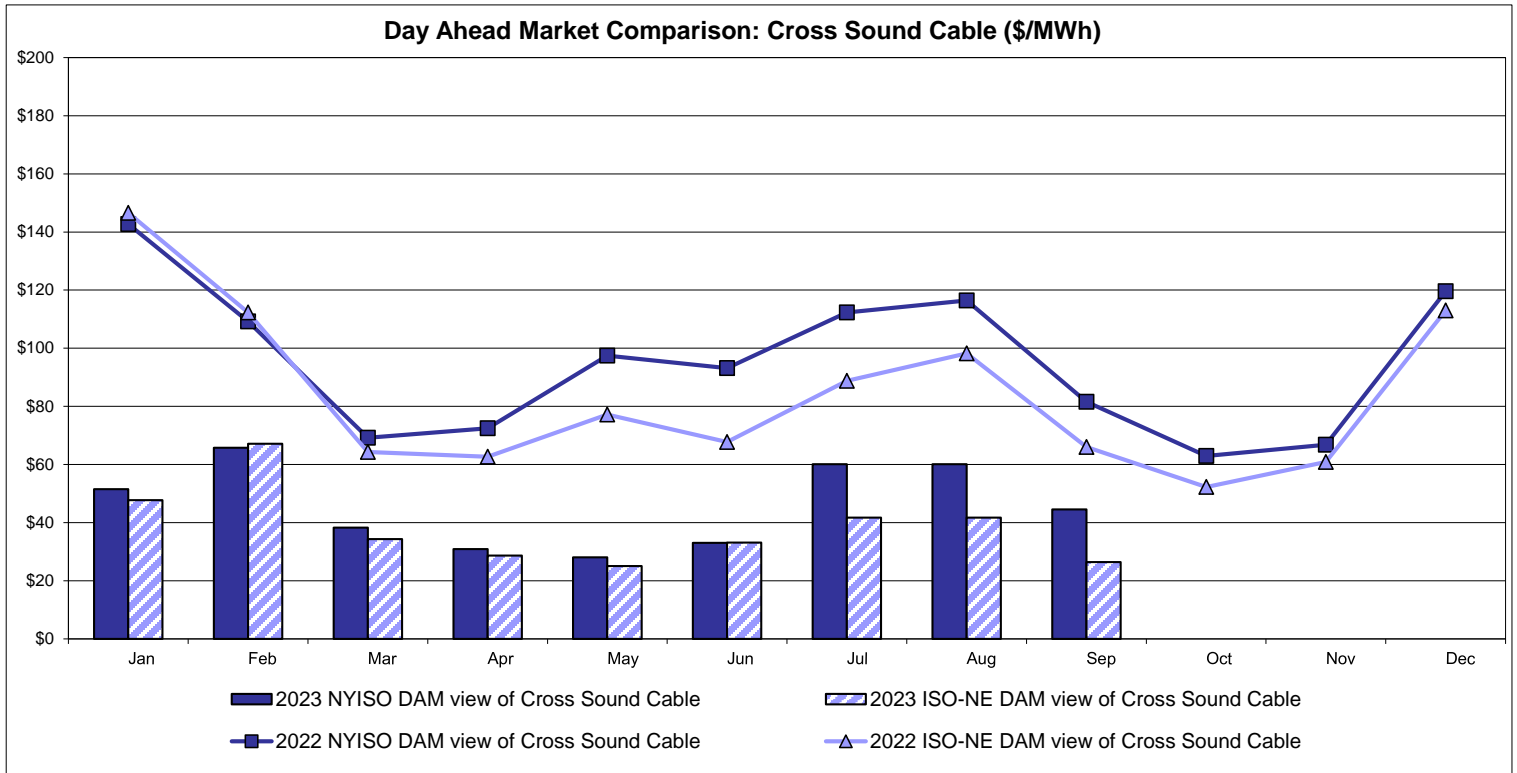


## Real Time Market External Zone Comparison - Ontario IESO (\$/MWh)



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

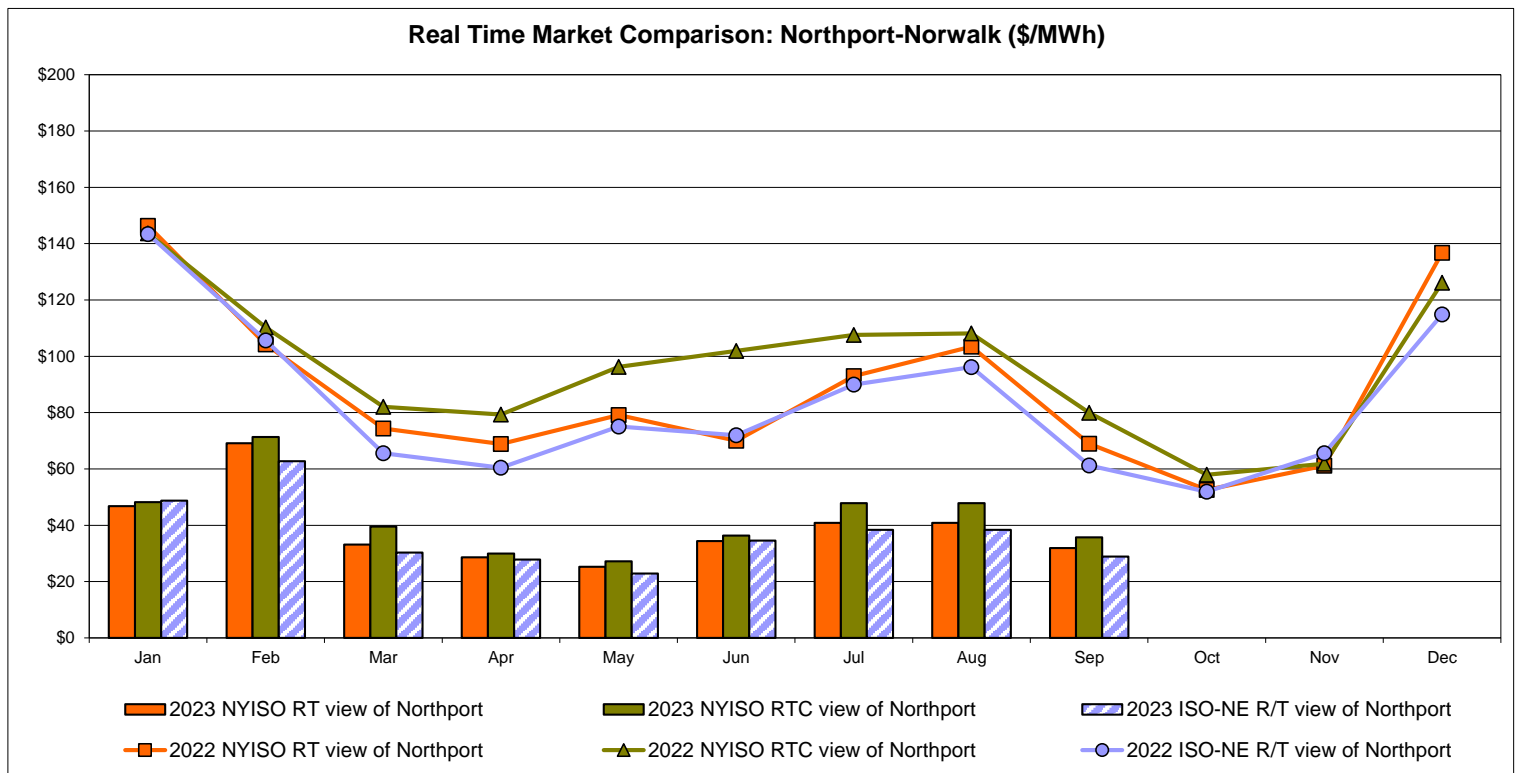
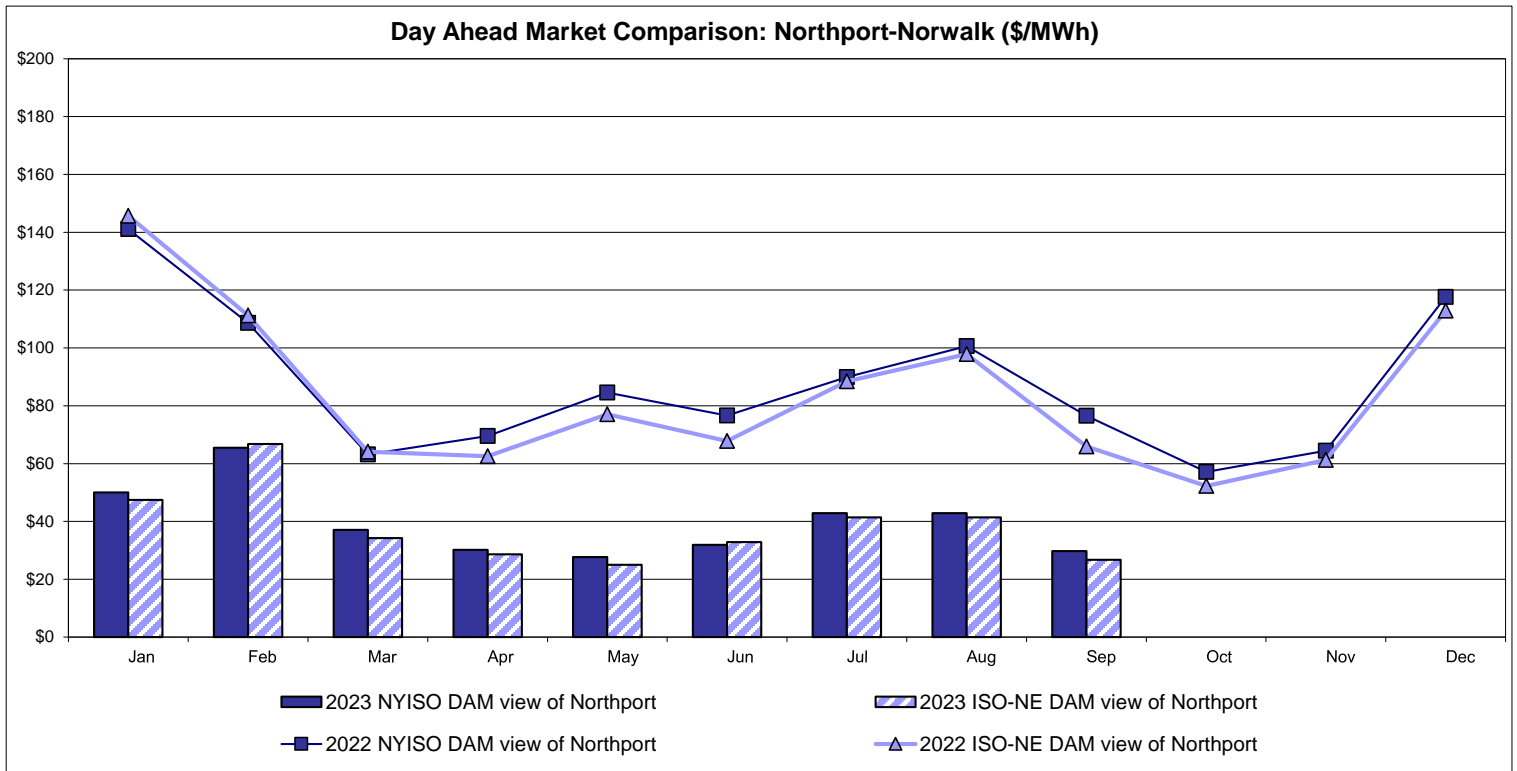
# External Controllable Line: Cross Sound Cable (New England)



**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.

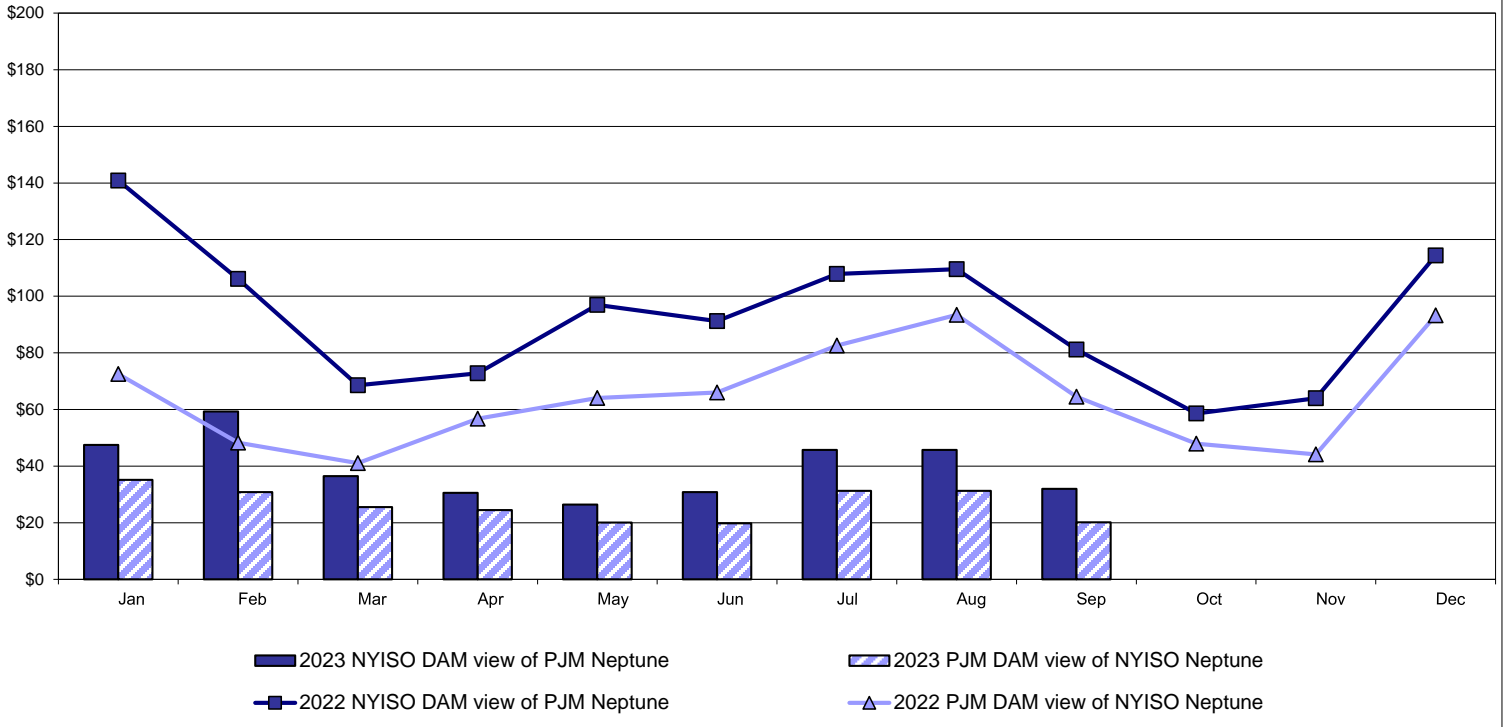
# External Controllable Line: Northport - Norwalk (New England)



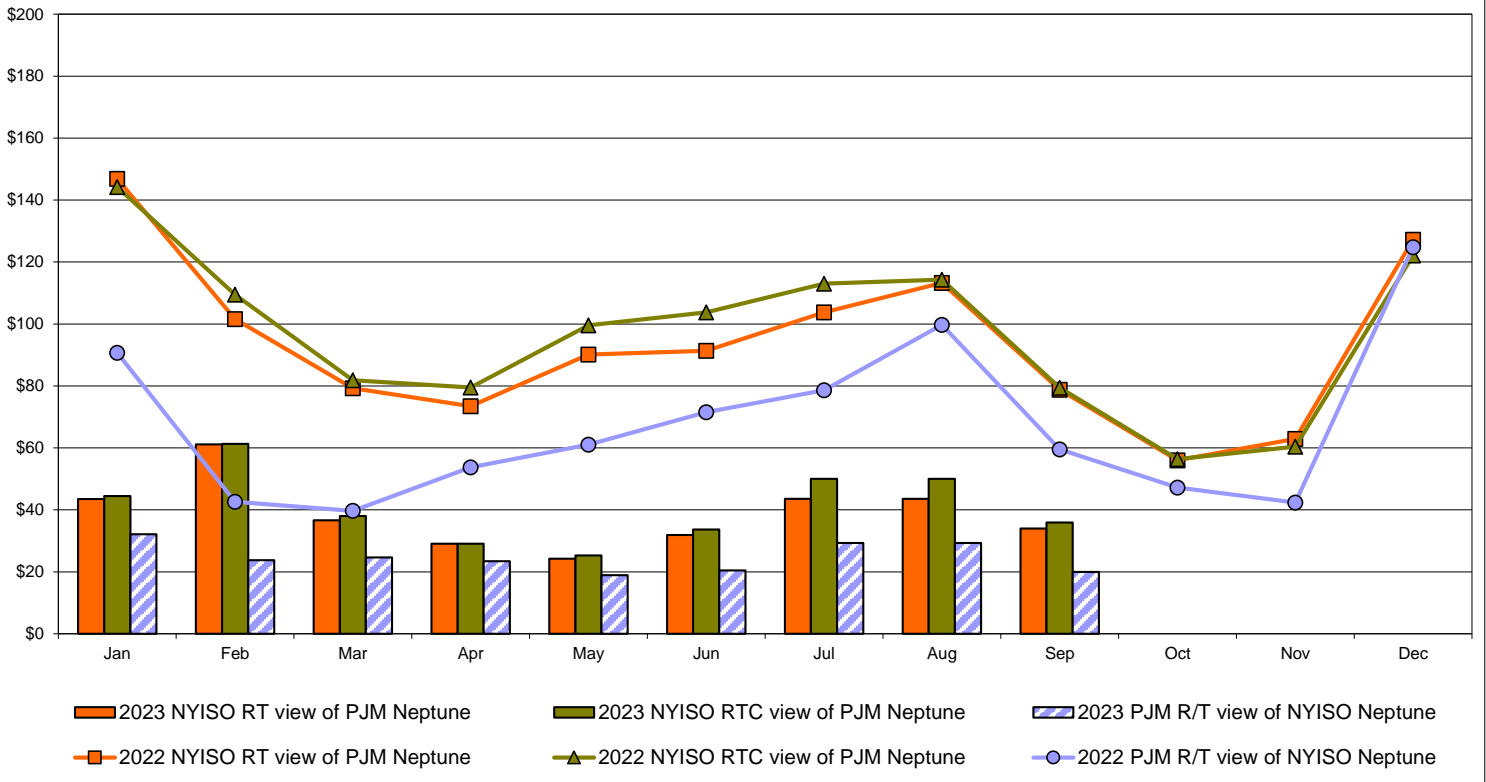
Note:  
 ISO-NE Forecast is an advisory posting @ 18:00 day before.  
 The DAM and R/T prices at the Northport 138 interface are used for ISO-NE.  
 The DAM and R/T prices at the 1385 interface are used for NYISO.

# External Controllable Line: Neptune (PJM)

## Day Ahead Market Comparison: Neptune (\$/MWh)

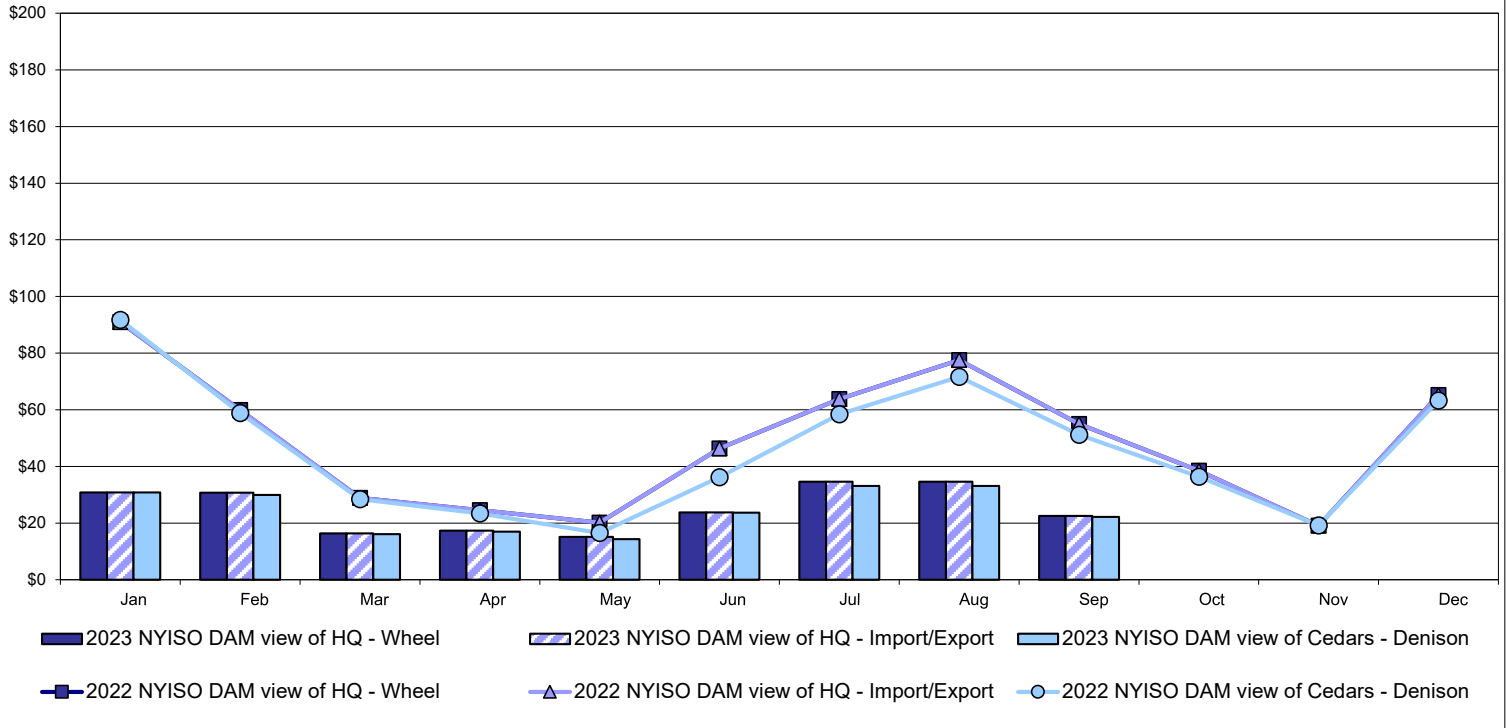


## Real Time Market Comparison: Neptune (\$/MWh)

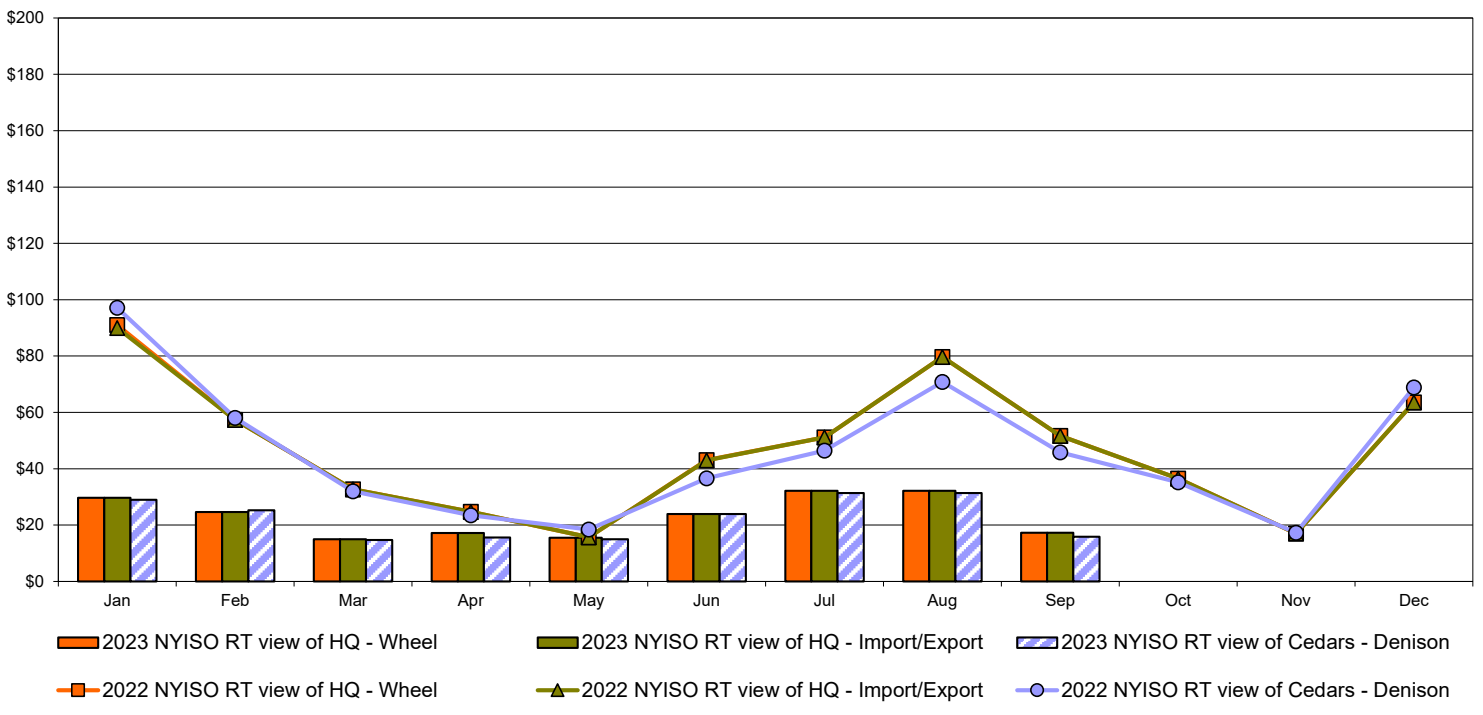


# External Comparison Hydro-Quebec

## Day Ahead Market External Zone Comparison - HQ (\$/MWh)

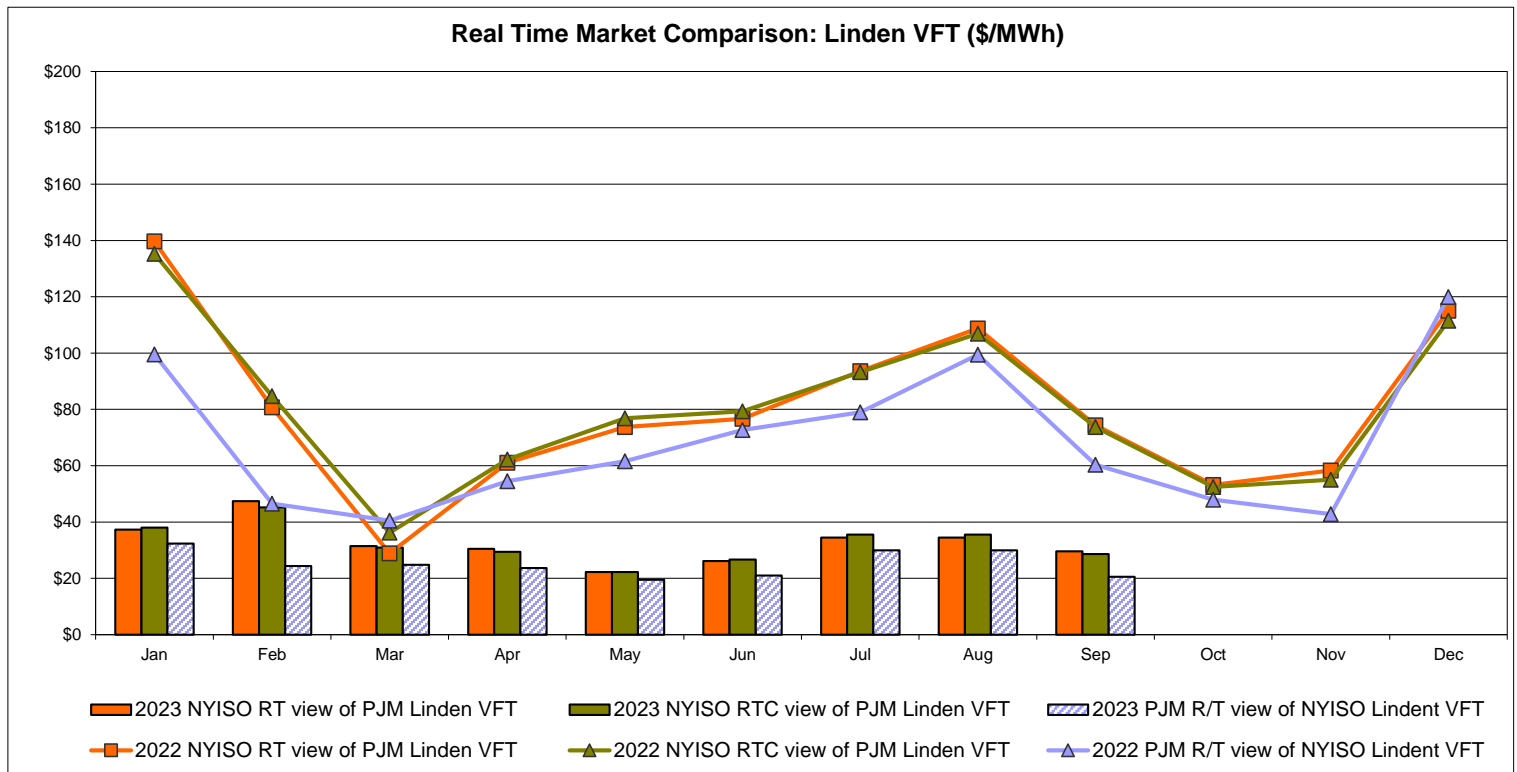
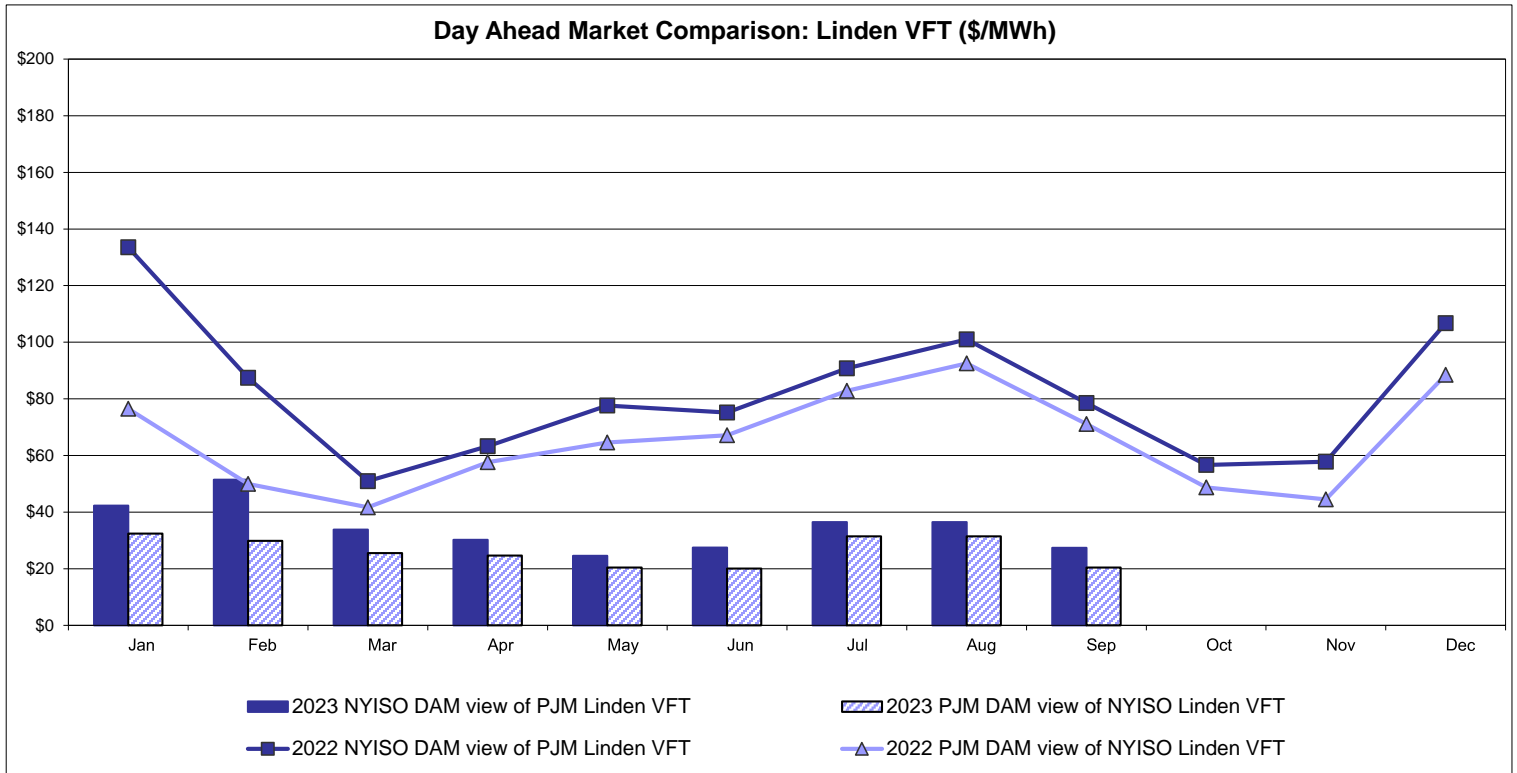


## Real Time Market External Zone Comparison - HQ (\$/MWh)

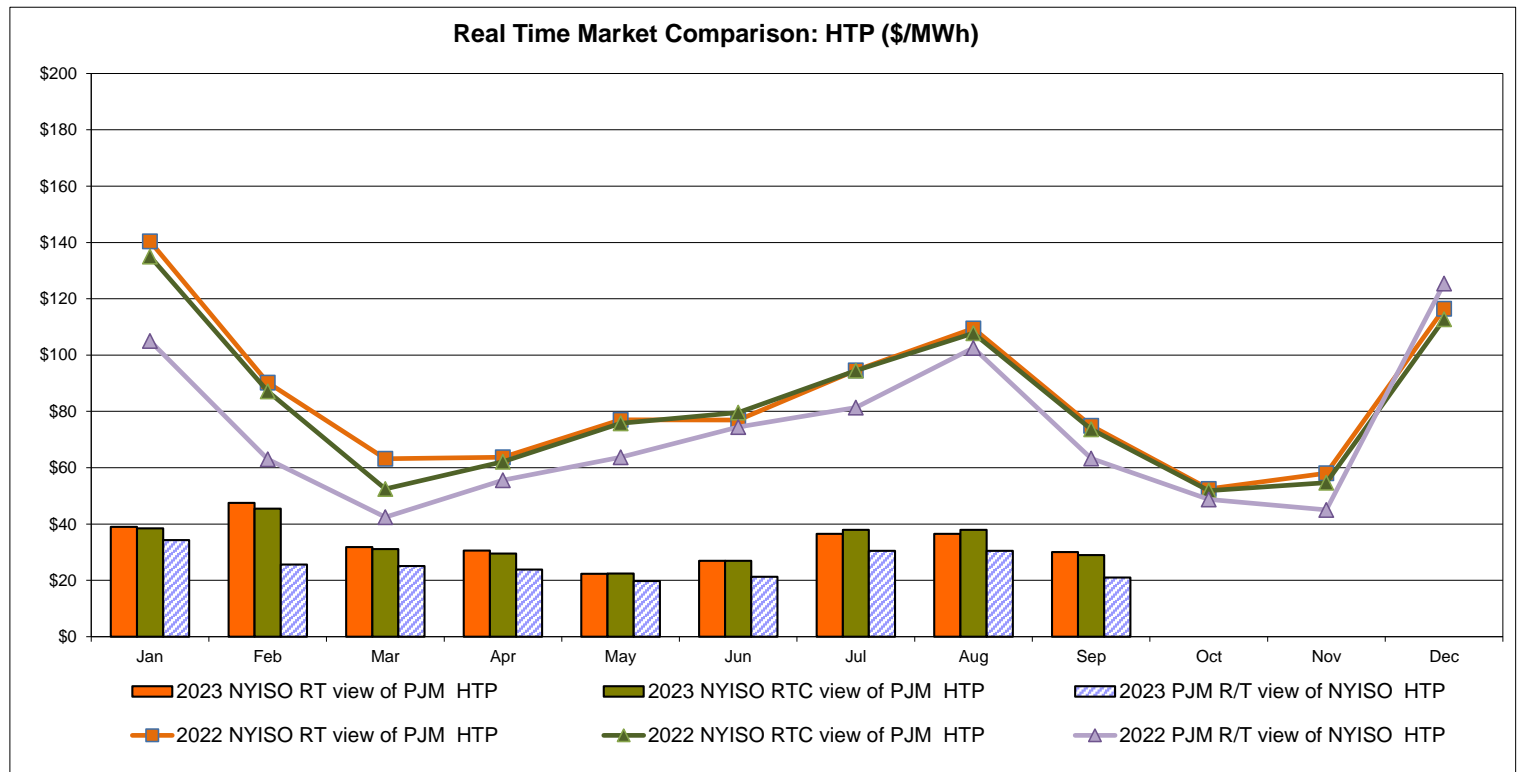
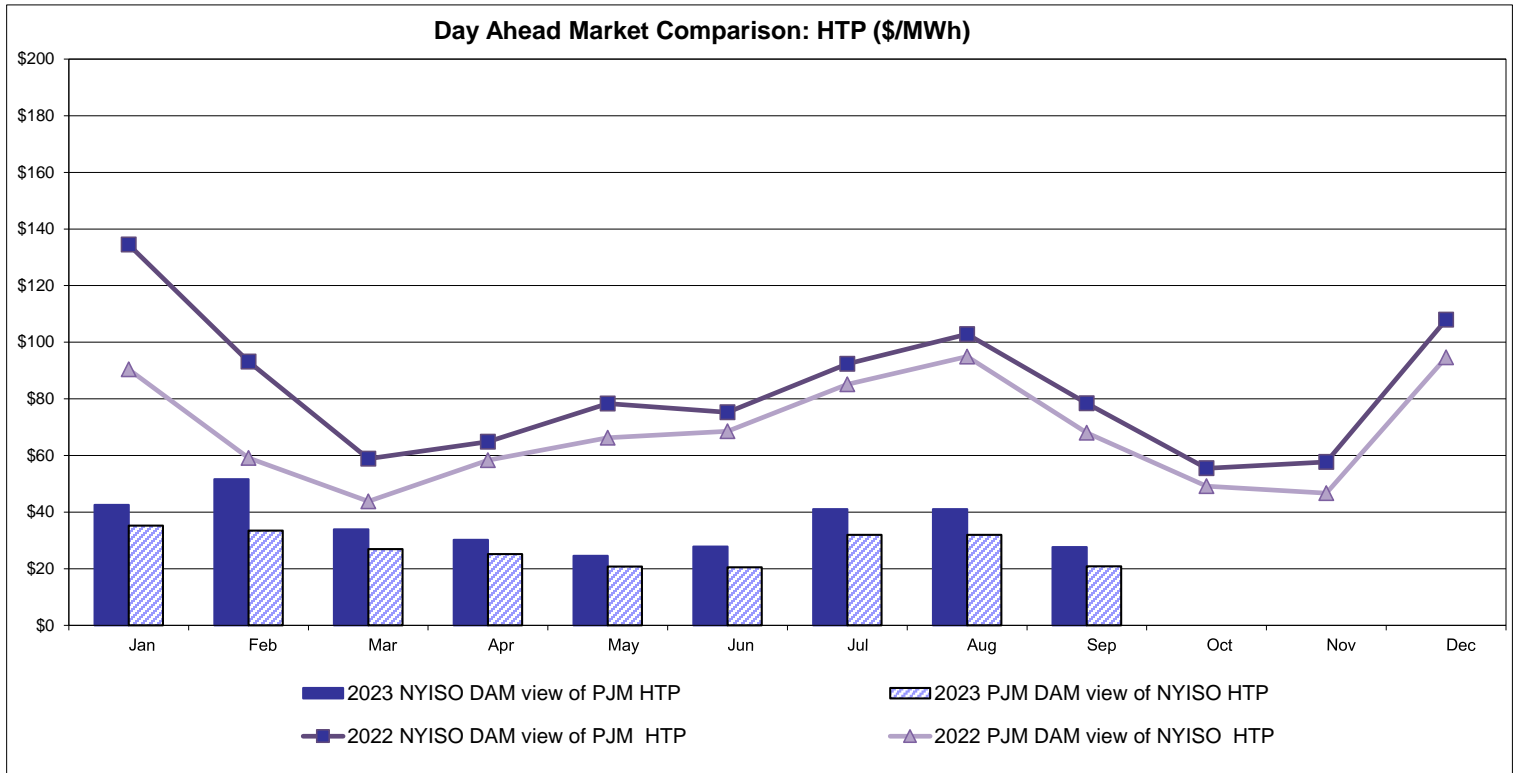




# External Controllable Line: Linden VFT (PJM)



# External Controllable Line: Hudson (PJM)

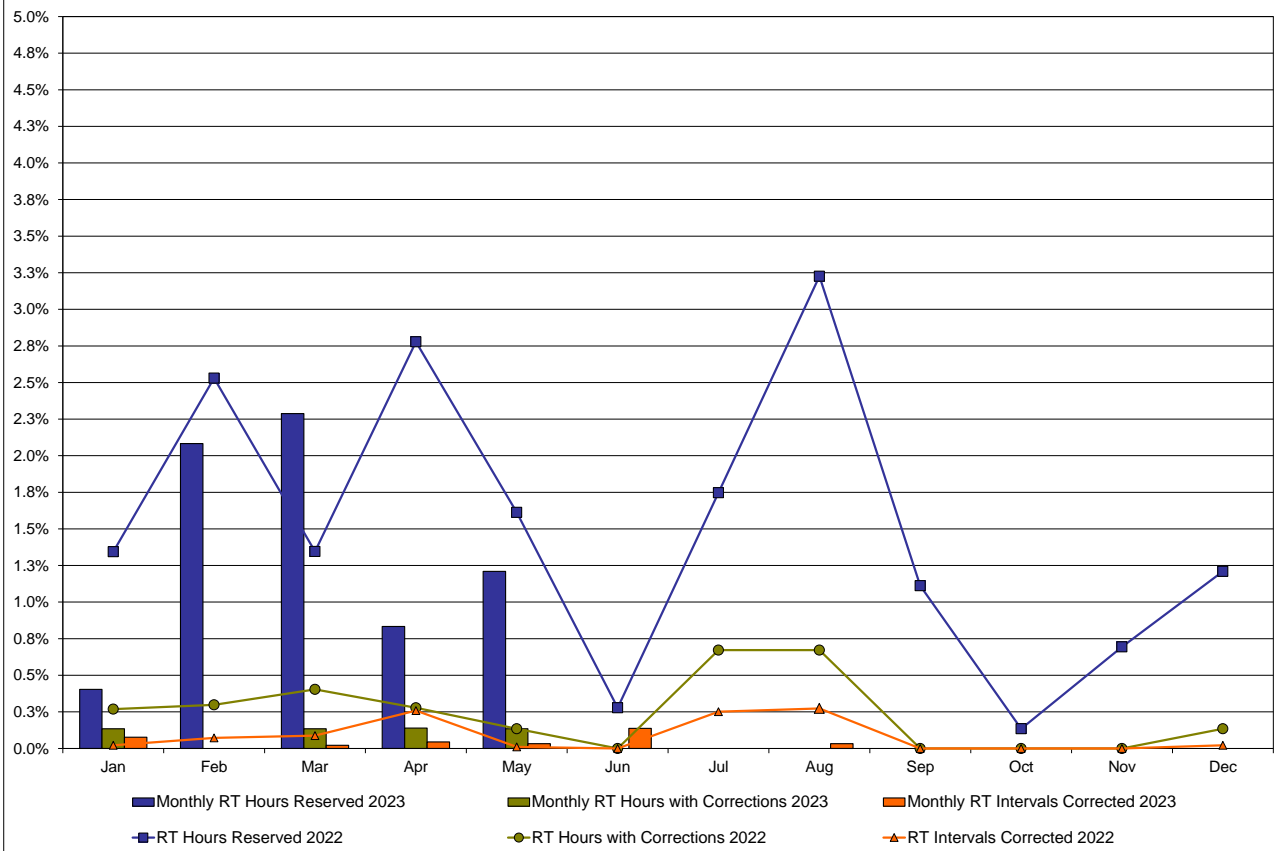


**NYISO Real Time Price Correction Statistics**

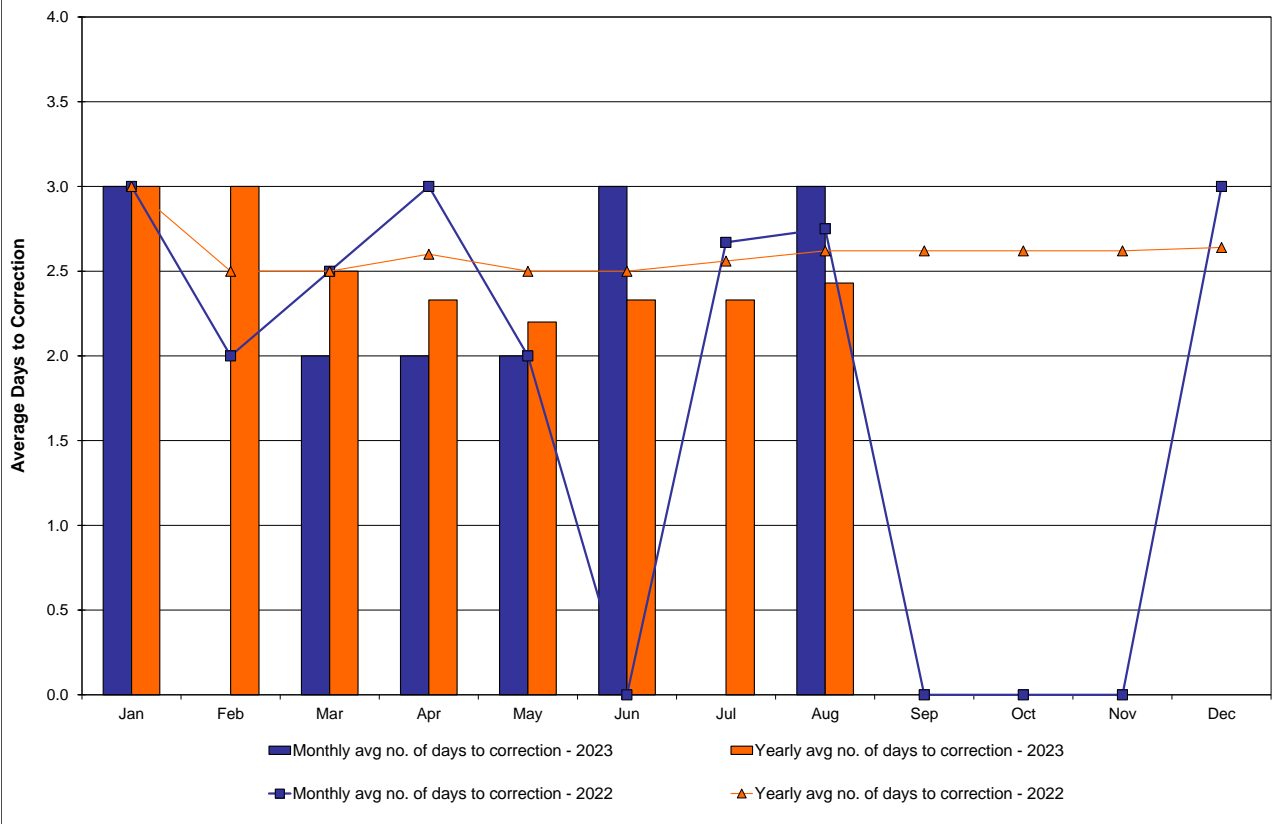
<b>2023</b>		<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	<u>September</u>	<u>October</u>	<u>November</u>	<u>December</u>
<b>Hour Corrections</b>													
Number of hours with corrections	in the month	1	0	1	1	1	4	0	1				
Number of hours	in the month	744	672	743	720	744	720	744	744				
% of hours with corrections	in the month	0.13%	0.00%	0.13%	0.14%	0.13%	0.56%	0.00%	0.13%				
% of hours with corrections	year-to-date	0.13%	0.07%	0.09%	0.10%	0.11%	0.18%	0.16%	0.15%				
<b>Interval Corrections</b>													
Number of intervals corrected	in the month	7	0	2	4	3	12	0	3				
Number of intervals	in the month	9,082	8,373	9,171	8,890	9,160	8,733	9,085	9,107				
% of intervals corrected	in the month	0.08%	0.00%	0.02%	0.04%	0.03%	0.14%	0.00%	0.03%				
% of intervals corrected	year-to-date	0.08%	0.04%	0.03%	0.04%	0.04%	0.05%	0.04%	0.04%				
<b>Hours Reserved</b>													
Number of hours reserved	in the month	3	14	17	6	9	18	24	9				
Number of hours	in the month	744	672	743	720	744	720	744	744				
% of hours reserved	in the month	0.40%	2.08%	2.29%	0.83%	1.21%	2.50%	3.23%	1.21%				
% of hours reserved	year-to-date	0.40%	1.20%	1.57%	1.39%	1.35%	1.54%	1.79%	1.71%				
<b>Days to Correction *</b>													
Avg. number of days to correction	in the month	3.00	0.00	2.00	2.00	2.00	3.00	0.00	3.00				
Avg. number of days to correction	year-to-date	3.00	3.00	2.50	2.33	2.20	2.33	2.33	2.43				
<b>Days Without Corrections</b>													
Days without corrections	in the month	30	28	30	29	29	29	31	30				
Days without corrections	year-to-date	30	58	88	117	146	175	206	236				
<b>2022</b>		<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>
<b>Hour Corrections</b>													
Number of hours with corrections	in the month	2	2	3	2	1	0	5	5	0	0	0	1
Number of hours	in the month	744	672	743	720	744	720	744	744	720	744	721	744
% of hours with corrections	in the month	0.27%	0.30%	0.40%	0.28%	0.13%	0.00%	0.67%	0.67%	0.00%	0.00%	0.00%	0.13%
% of hours with corrections	year-to-date	0.27%	0.28%	0.32%	0.31%	0.28%	0.23%	0.29%	0.34%	0.31%	0.27%	0.25%	0.24%
<b>Interval Corrections</b>													
Number of intervals corrected	in the month	2	6	8	23	1	0	23	25	0	0	0	2
Number of intervals	in the month	9,258	8,338	9,118	8,908	9,181	8,864	9,140	9,145	8,825	9,097	8,857	9,317
% of intervals corrected	in the month	0.02%	0.07%	0.09%	0.26%	0.01%	0.00%	0.25%	0.27%	0.00%	0.00%	0.00%	0.02%
% of intervals corrected	year-to-date	0.02%	0.05%	0.06%	0.11%	0.09%	0.07%	0.10%	0.12%	0.11%	0.10%	0.09%	0.08%
<b>Hours Reserved</b>													
Number of hours reserved	in the month	10	17	10	20	12	2	13	24	8	1	5	9
Number of hours	in the month	744	672	743	720	744	720	744	744	720	744	721	744
% of hours reserved	in the month	1.34%	2.53%	1.35%	2.78%	1.61%	0.28%	1.75%	3.23%	1.11%	0.13%	0.69%	1.21%
% of hours reserved	year-to-date	1.34%	1.91%	1.71%	1.98%	1.90%	1.63%	1.65%	1.85%	1.77%	1.60%	1.52%	1.50%
<b>Days to Correction *</b>													
Avg. number of days to correction	in the month	3.00	2.00	2.50	3.00	2.00	0.00	2.67	2.75	0.00	0.00	0.00	3.00
Avg. number of days to correction	year-to-date	3.00	2.50	2.50	2.60	2.50	2.50	2.56	2.62	2.62	2.62	2.62	2.64
<b>Days Without Corrections</b>													
Days without corrections	in the month	30	27	29	29	30	30	28	27	30	31	30	30
Days without corrections	year-to-date	30	57	86	115	145	175	203	230	260	291	321	351

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

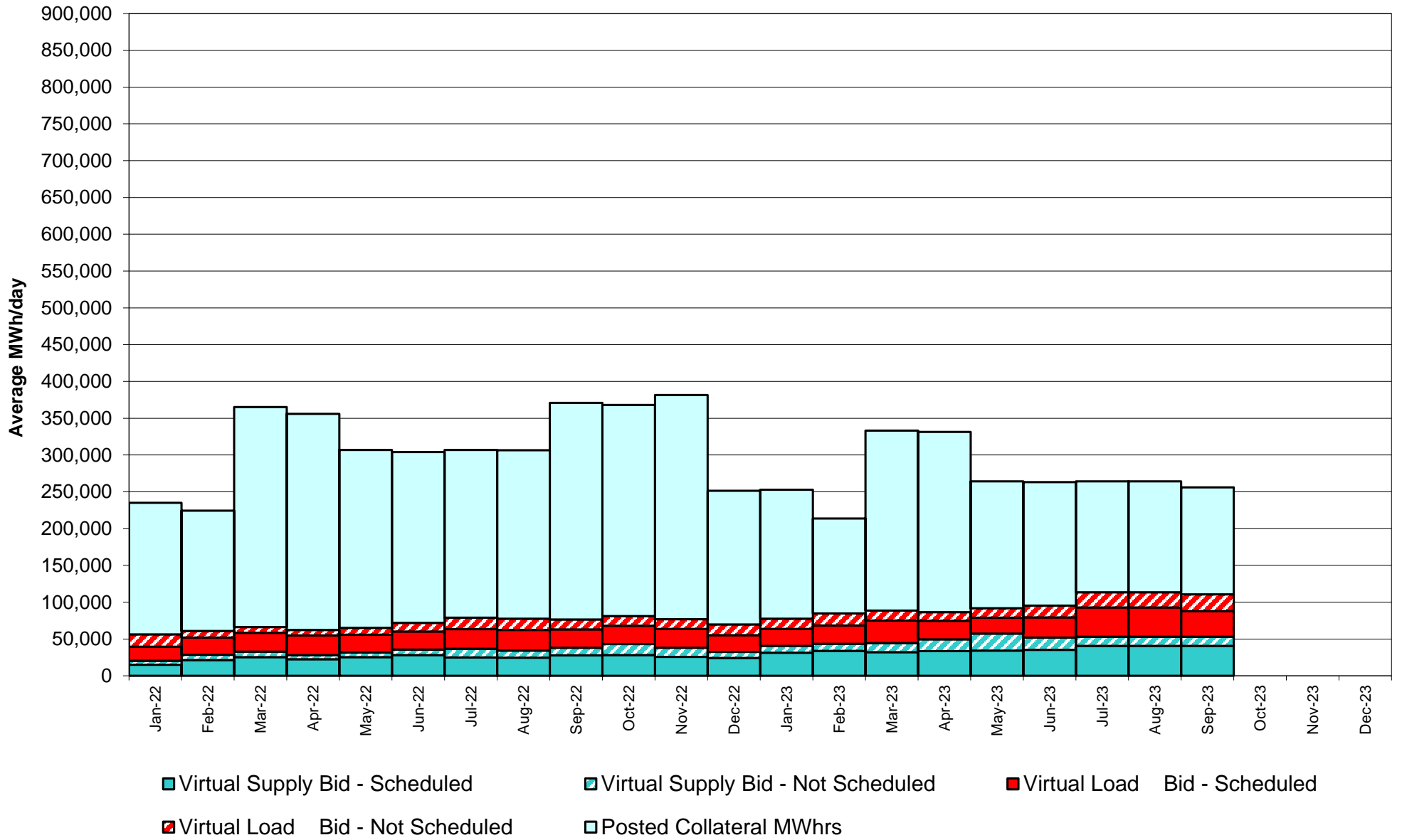
### Percentage of Real-Time Corrections



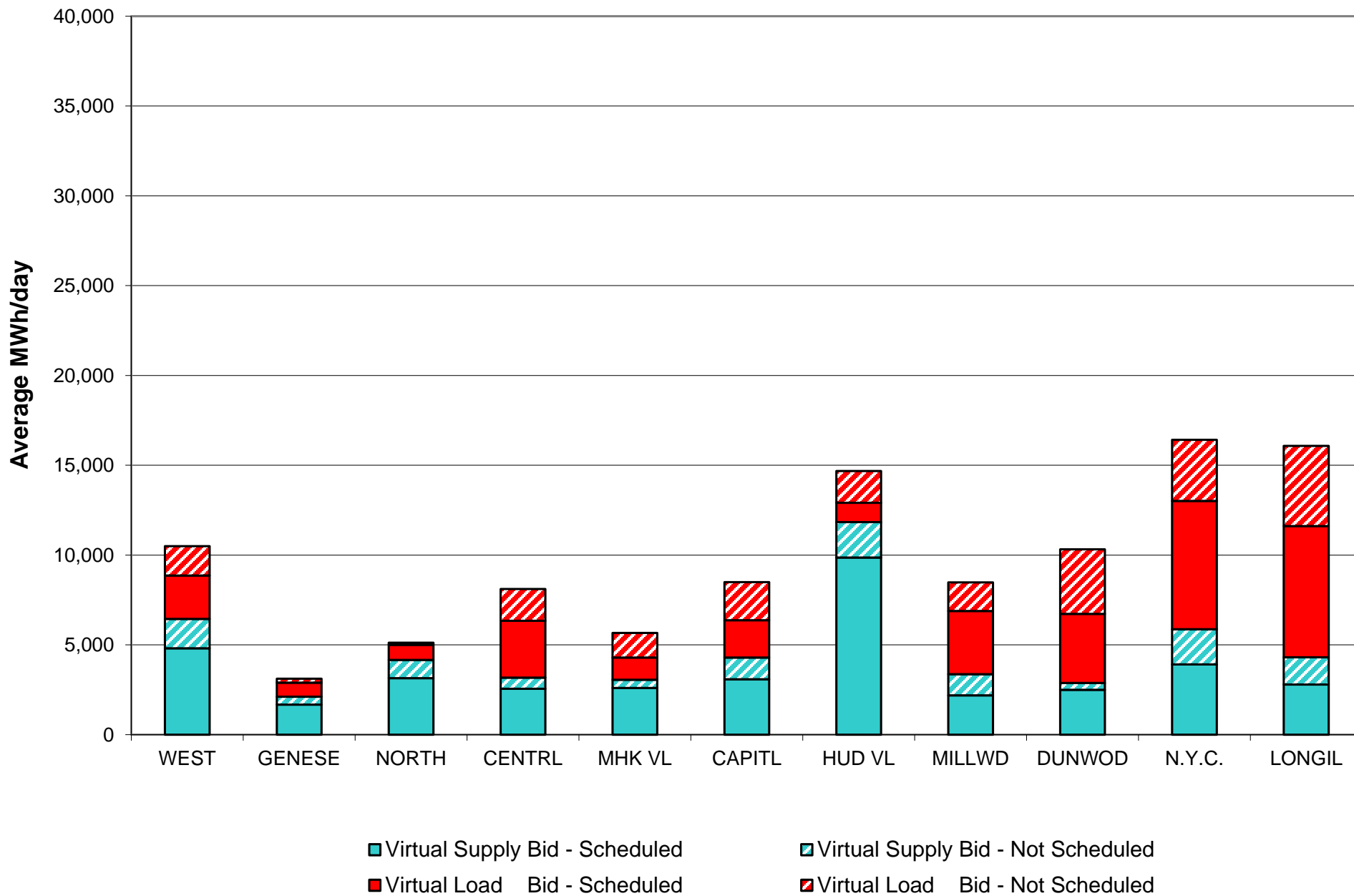
### Annual average time period for making Price Corrections (from reservation date) \*



## NYISO Virtual Trading Average MWh per day



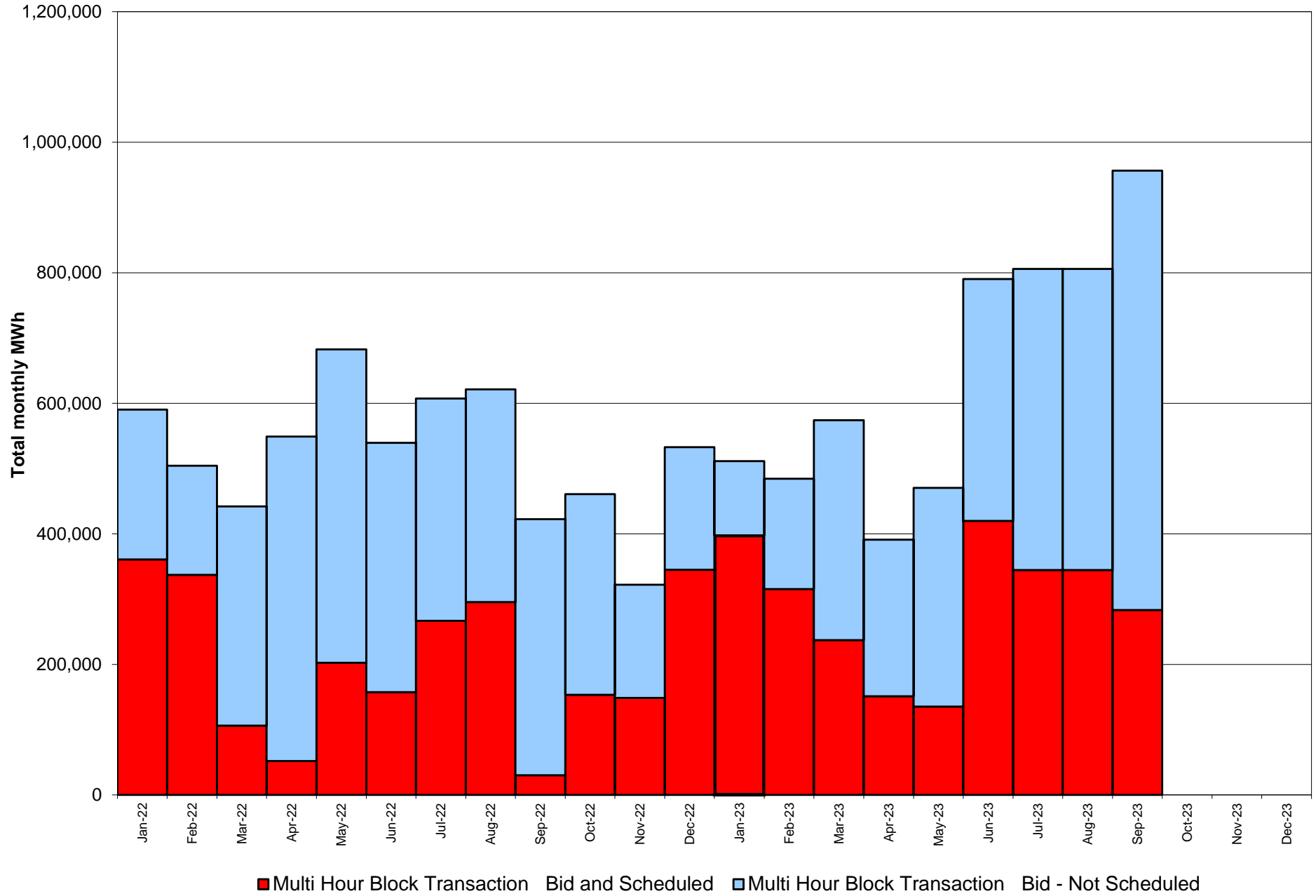
## Virtual Load and Supply Zonal Statistics through August 31, 2023



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

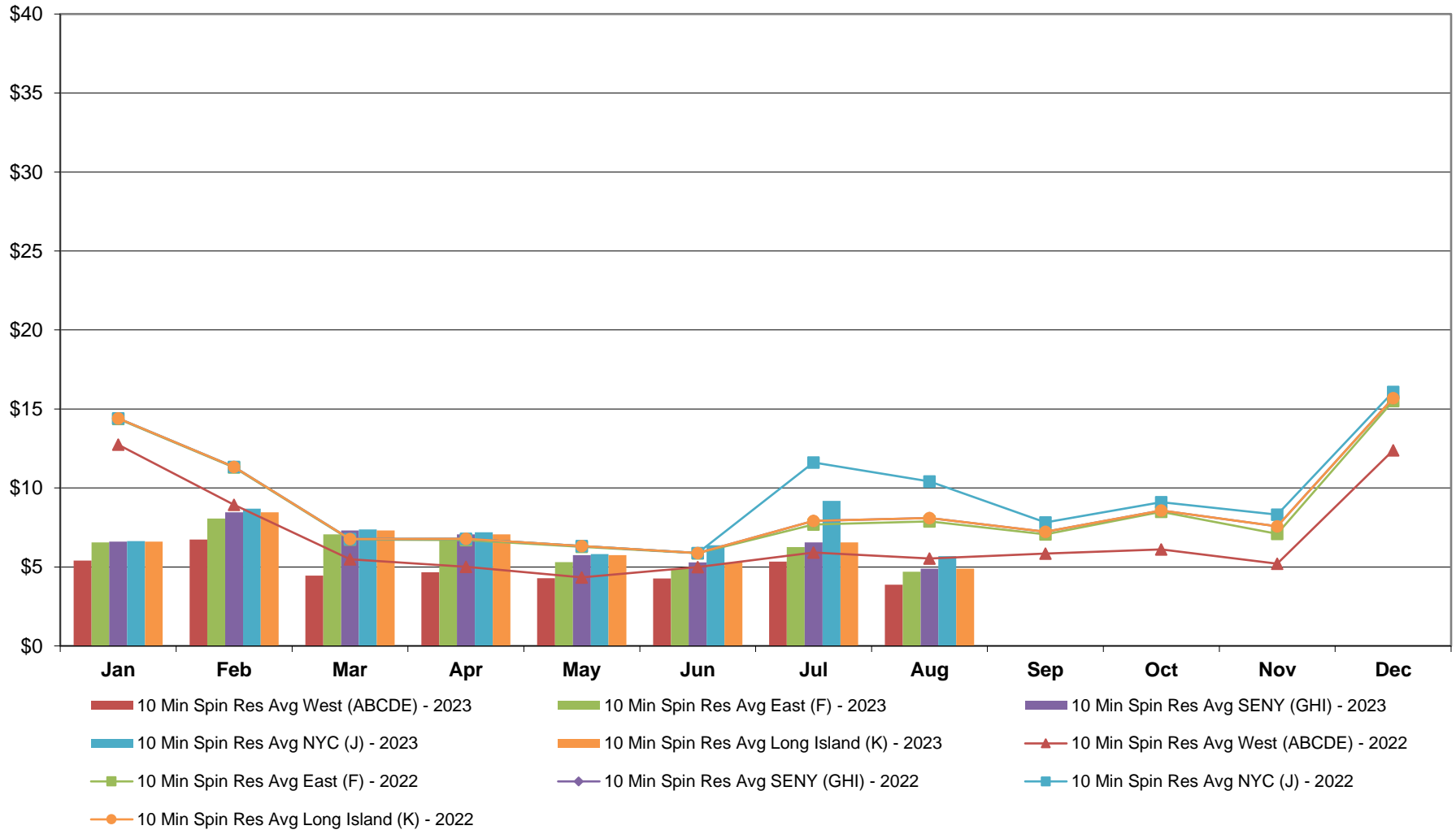
		Virtual Load Bid		Virtual Supply Bid				Virtual Load Bid		Virtual Supply Bid				Virtual Load Bid		Virtual Supply Bid	
Zone	Date	Scheduled	Not Scheduled	Scheduled	Not Scheduled	Zone	Date	Scheduled	Not Scheduled	Scheduled	Not Scheduled	Zone	Date	Scheduled	Not Scheduled	Scheduled	Not Scheduled
<b>WEST</b>	Jan-23	3,364	1,605	5,555	1,026	<b>MHK VL</b>	Jan-23	1,312	1,038	1,590	558	<b>DUNWOD</b>	Jan-23	862	1,623	1,884	319
	Feb-23	2,266	1,863	6,652	1,270		Feb-23	1,146	1,395	2,484	436		Feb-23	1,366	1,793	2,082	408
	Mar-23	3,318	1,373	5,353	2,062		Mar-23	1,815	829	1,488	1,135		Mar-23	2,505	1,556	2,093	670
	Apr-23	2,407	1,561	5,939	1,245		Apr-23	1,182	841	1,556	450		Apr-23	1,941	1,615	1,682	633
	May-23	2,572	1,636	3,868	1,941		May-23	1,165	1,312	2,365	567		May-23	1,434	1,391	2,719	680
	Jun-23	3,187	2,289	4,717	1,351		Jun-23	1,774	1,301	2,009	585		Jun-23	2,342	2,422	2,299	522
	Jul-23	2,249	2,400	4,471	1,796		Jul-23	1,402	1,292	2,986	350		Jul-23	5,415	3,132	1,968	592
	Aug-23	2,425	1,631	4,806	1,636		Aug-23	1,237	1,372	2,604	447		Aug-23	3,845	3,593	2,504	371
	Sep-23						Sep-23						Sep-23				
	Oct-23						Oct-23						Oct-23				
	Nov-23						Nov-23						Nov-23				
	Dec-23						Dec-23						Dec-23				
	<b>GENESE</b>	Jan-23	1,005	469	1,438		255	<b>CAPITL</b>	Jan-23	1,762	834		1,824	917	<b>N.Y.C.</b>	Jan-23	2,674
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	495	1,562	905	Mar-23	3,256		1,595	2,454	594	Mar-23	2,230	2,393		4,646	1,121
Apr-23		982	746	1,817	584	Apr-23	2,509		960	2,303	695	Apr-23	2,032	1,683		3,490	1,100
May-23		721	408	1,807	568	May-23	1,691		681	2,810	736	May-23	2,063	2,034		4,284	1,488
Jun-23		933	520	1,811	529	Jun-23	2,121		783	3,359	808	Jun-23	4,139	2,409		3,742	1,700
Jul-23		747	412	1,947	394	Jul-23	2,610		863	3,616	1,027	Jul-23	9,758	3,758		3,562	1,862
Aug-23		790	224	1,674	435	Aug-23	2,081		2,114	3,087	1,208	Aug-23	7,143	3,406		3,912	1,955
Sep-23						Sep-23						Sep-23					
Oct-23						Oct-23						Oct-23					
Nov-23						Nov-23						Nov-23					
Dec-23						Dec-23						Dec-23					
<b>NORTH</b>		Jan-23	1,246	284	2,910	1,072	<b>HUD VL</b>		Jan-23	835	1,168	5,672	1,513	<b>LONGIL</b>		Jan-23	4,119
	Feb-23	1,111	302	2,854	1,432	Feb-23		1,335	1,484	5,382	1,297	Feb-23	4,408		2,440	2,494	1,130
	Mar-23	789	383	3,605	1,395	Mar-23		2,224	1,049	5,815	1,357	Mar-23	5,725		1,753	1,778	1,029
	Apr-23	615	332	3,338	854	Apr-23		896	846	8,301	7,864	Apr-23	4,436		1,401	2,087	746
	May-23	938	184	2,274	964	May-23		1,119	937	7,383	13,585	May-23	3,608		1,817	2,640	1,073
	Jun-23	1,032	148	2,685	629	Jun-23		1,784	1,120	8,337	7,759	Jun-23	5,238		2,124	1,770	1,359
	Jul-23	777	179	3,193	699	Jul-23		1,397	1,690	12,207	2,396	Jul-23	6,977		3,999	2,319	1,911
	Aug-23	840	104	3,144	1,024	Aug-23		1,074	1,768	9,868	1,973	Aug-23	7,301		4,466	2,796	1,516
	Sep-23					Sep-23						Sep-23					
	Oct-23					Oct-23						Oct-23					
	Nov-23					Nov-23						Nov-23					
	Dec-23					Dec-23						Dec-23					
	<b>CENTRL</b>	Jan-23	5,294	1,193	1,715	563		<b>MILLWD</b>	Jan-23	649	1,103	2,019	278		<b>NYISO</b>	Jan-23	23,122
Feb-23		6,851	1,526	2,219	703	Feb-23	888		1,228	2,021	434	Feb-23	25,071	16,118		33,885	9,552
Mar-23		6,340	843	1,355	1,520	Mar-23	1,616		992	1,938	736	Mar-23	30,654	13,262		32,086	12,525
Apr-23		6,824	914	1,546	855	Apr-23	1,564		853	1,566	831	Apr-23	25,387	11,752		33,625	15,856
May-23		5,246	1,357	1,858	830	May-23	995		1,119	2,250	784	May-23	21,553	12,874		34,260	23,216
Jun-23		3,257	1,442	2,305	784	Jun-23	1,392		1,329	2,385	667	Jun-23	27,199	15,886		35,419	16,693
Jul-23		3,351	1,609	2,416	423	Jul-23	4,935		1,437	1,914	1,124	Jul-23	39,618	20,771		40,598	12,575
Aug-23		3,177	1,759	2,562	608	Aug-23	3,526		1,592	2,188	1,174	Aug-23	33,440	22,030		39,145	12,347
Sep-23						Sep-23						Sep-23					
Oct-23						Oct-23						Oct-23					
Nov-23						Nov-23						Nov-23					
Dec-23						Dec-23						Dec-23					

## NYISO Multi Hour Block Transactions Monthly Total MWh

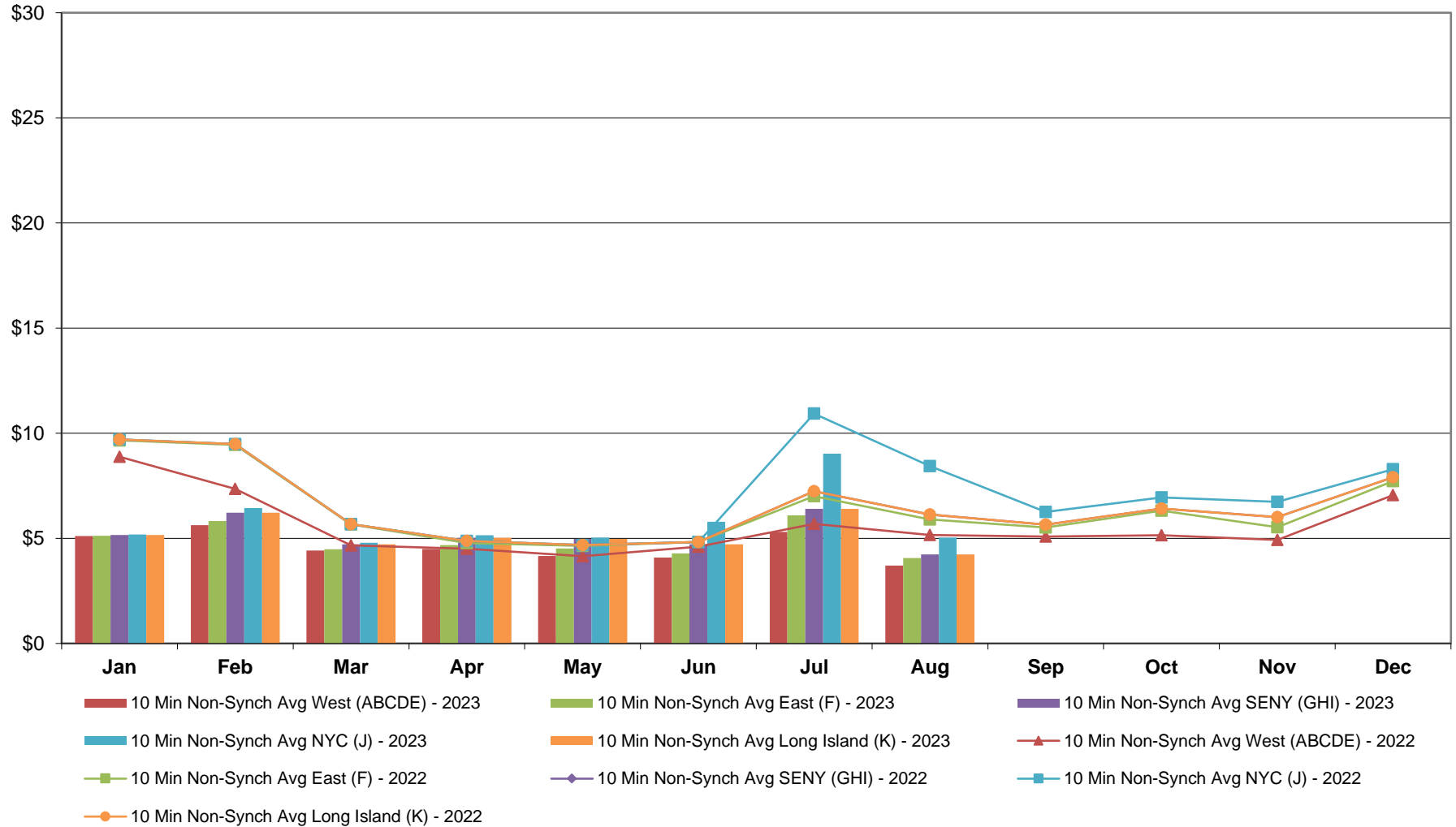




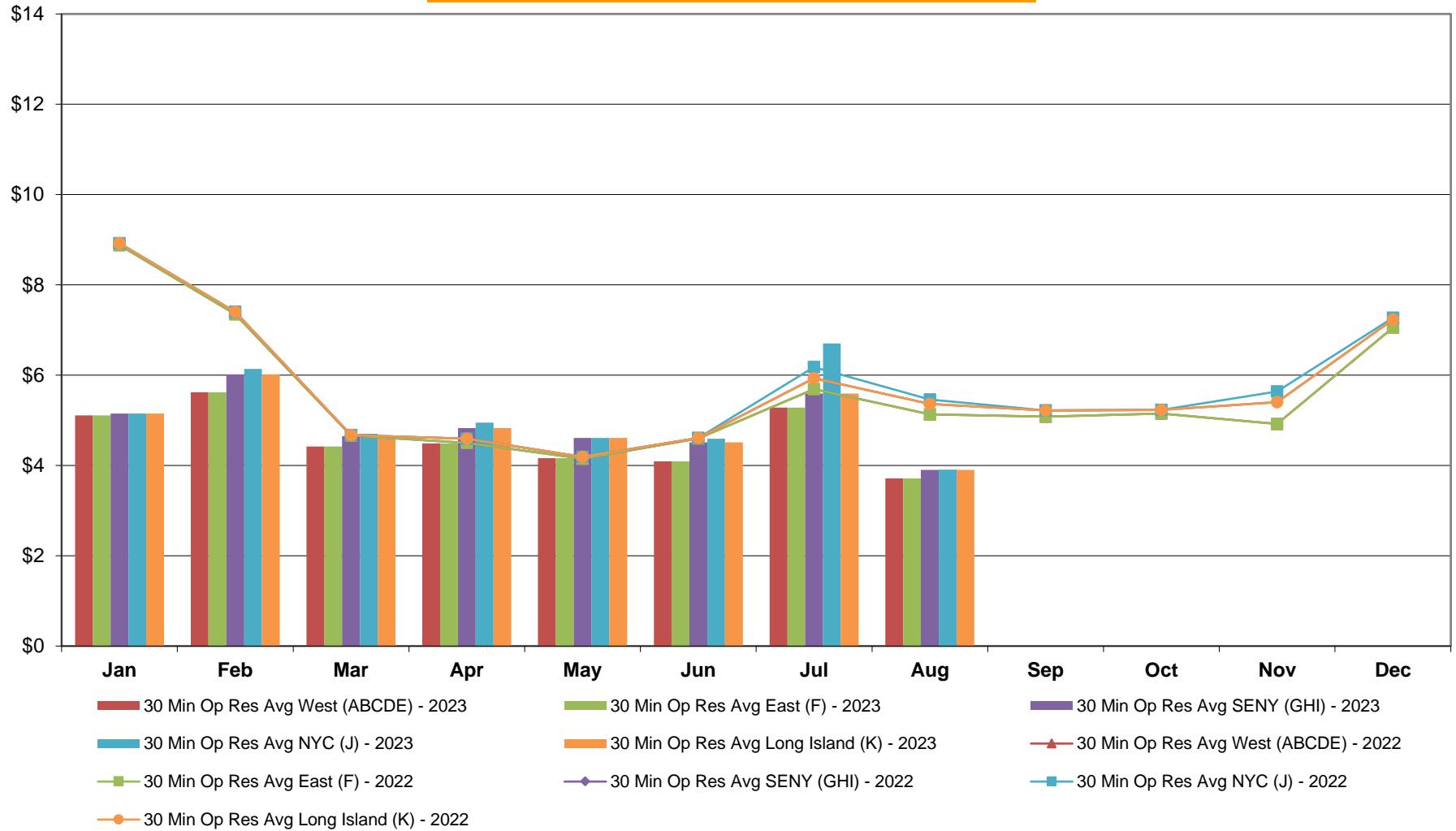
**NYISO Monthly Average Ancillary Service Prices  
Day Ahead Market - 10 Min Spin 2022 - 2023**



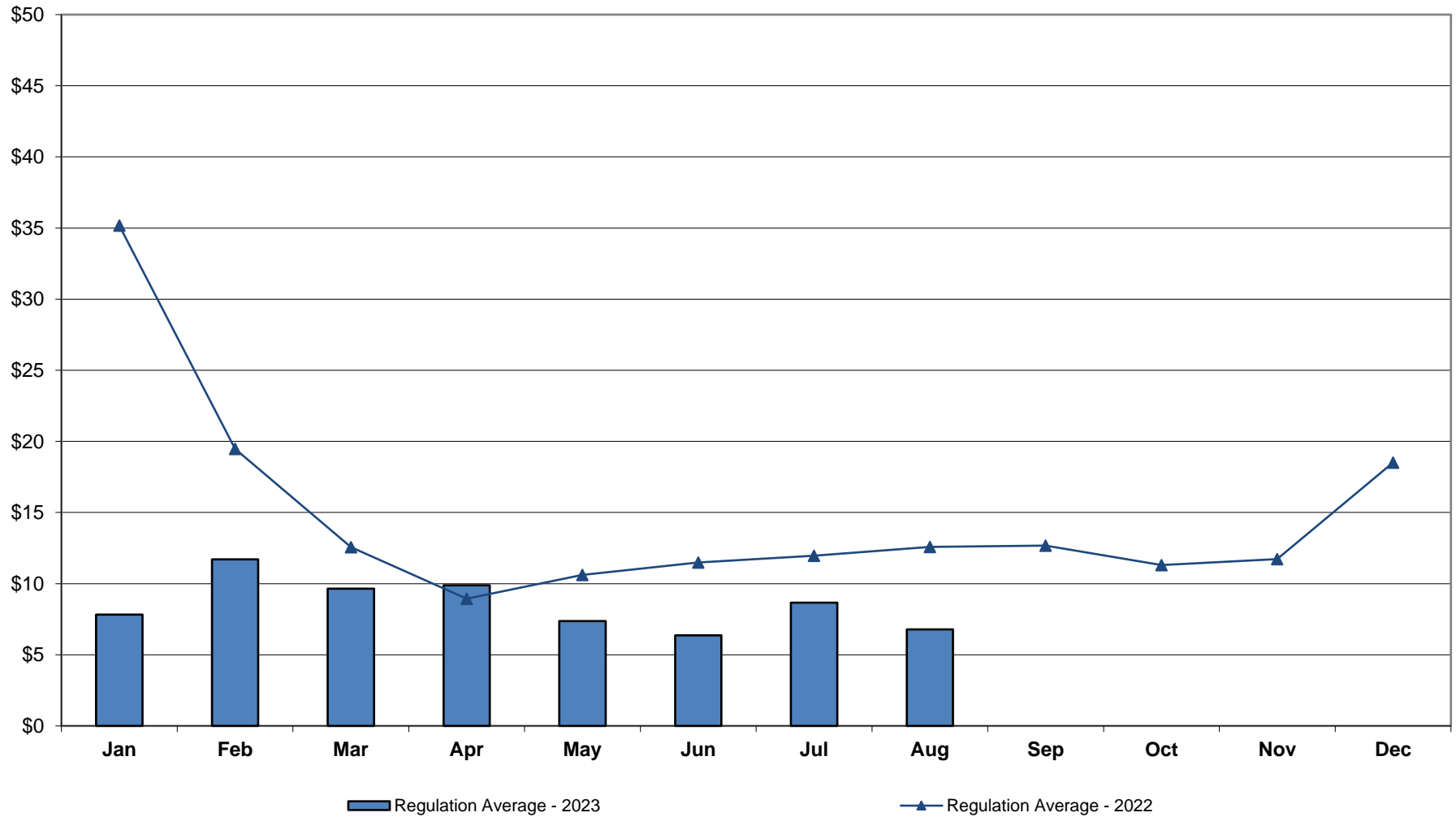
**NYISO Monthly Average Ancillary Service Prices  
Day Ahead Market - 10 Min Non-Synch 2022 - 2023**



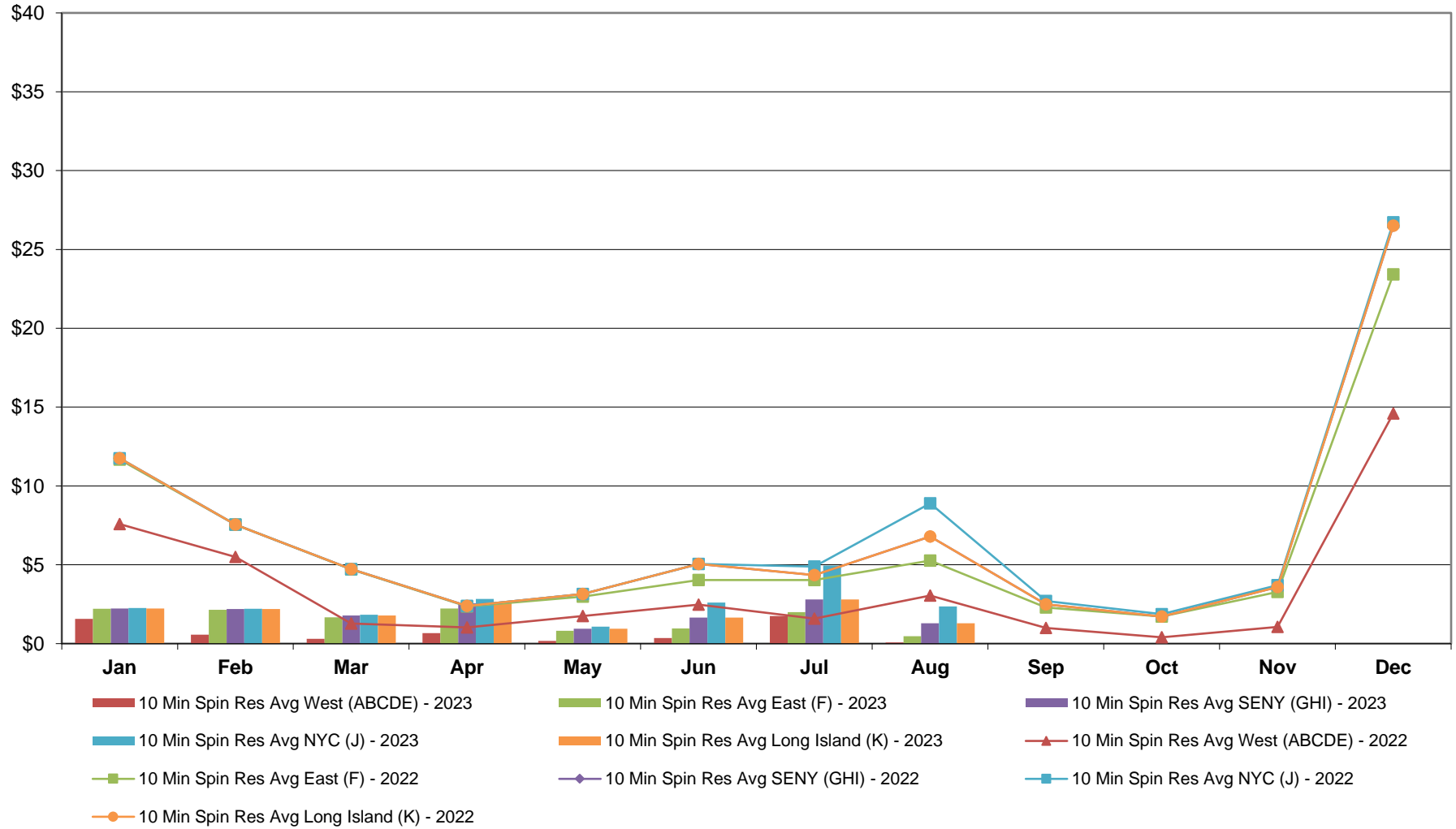
**NYISO Monthly Average Ancillary Service Prices  
Day Ahead Market - 30 Min Op Res 2022 - 2023**



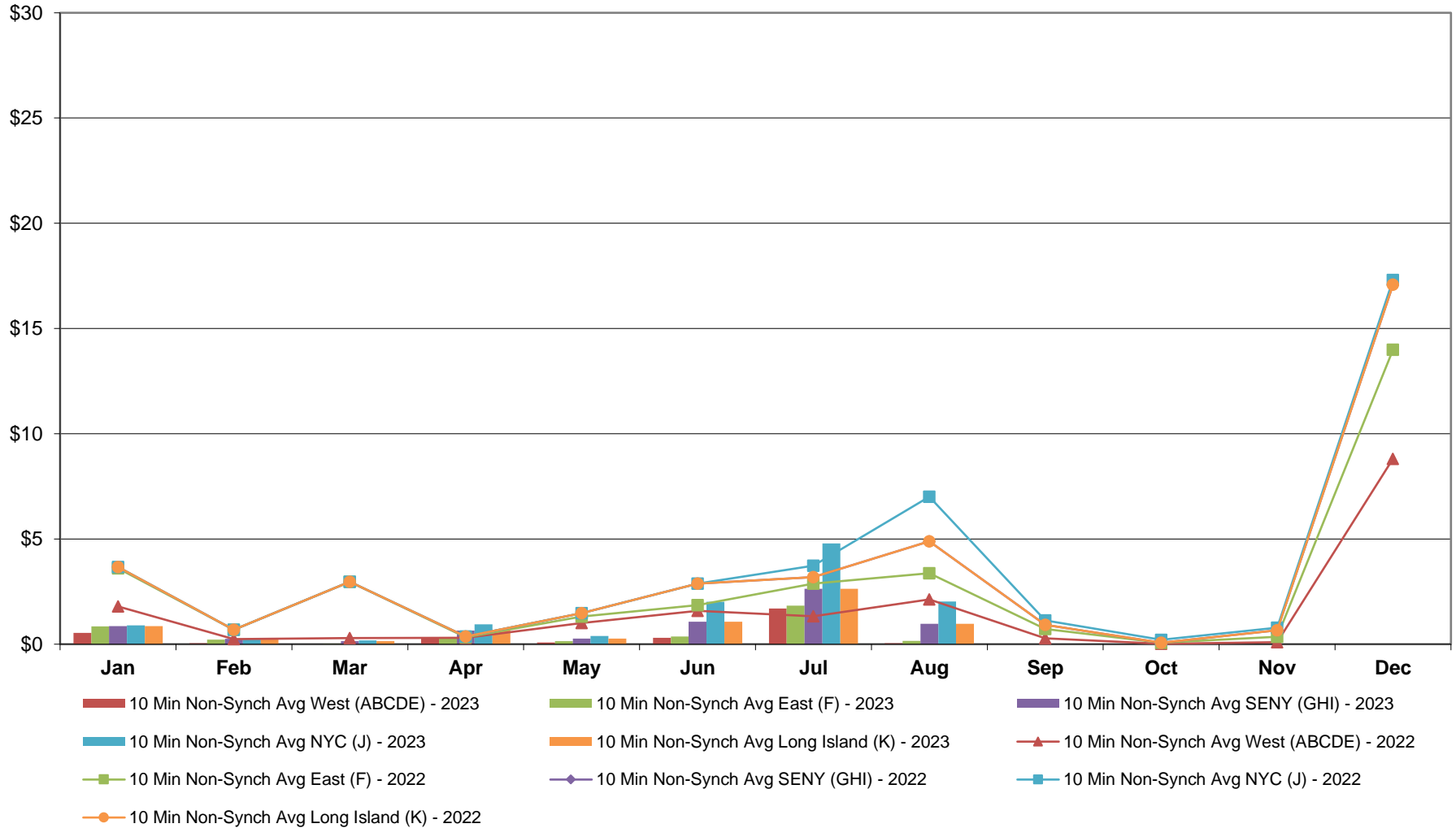
**NYISO Monthly Average Ancillary Service Prices  
Day Ahead Market - Regulation 2022 - 2023**



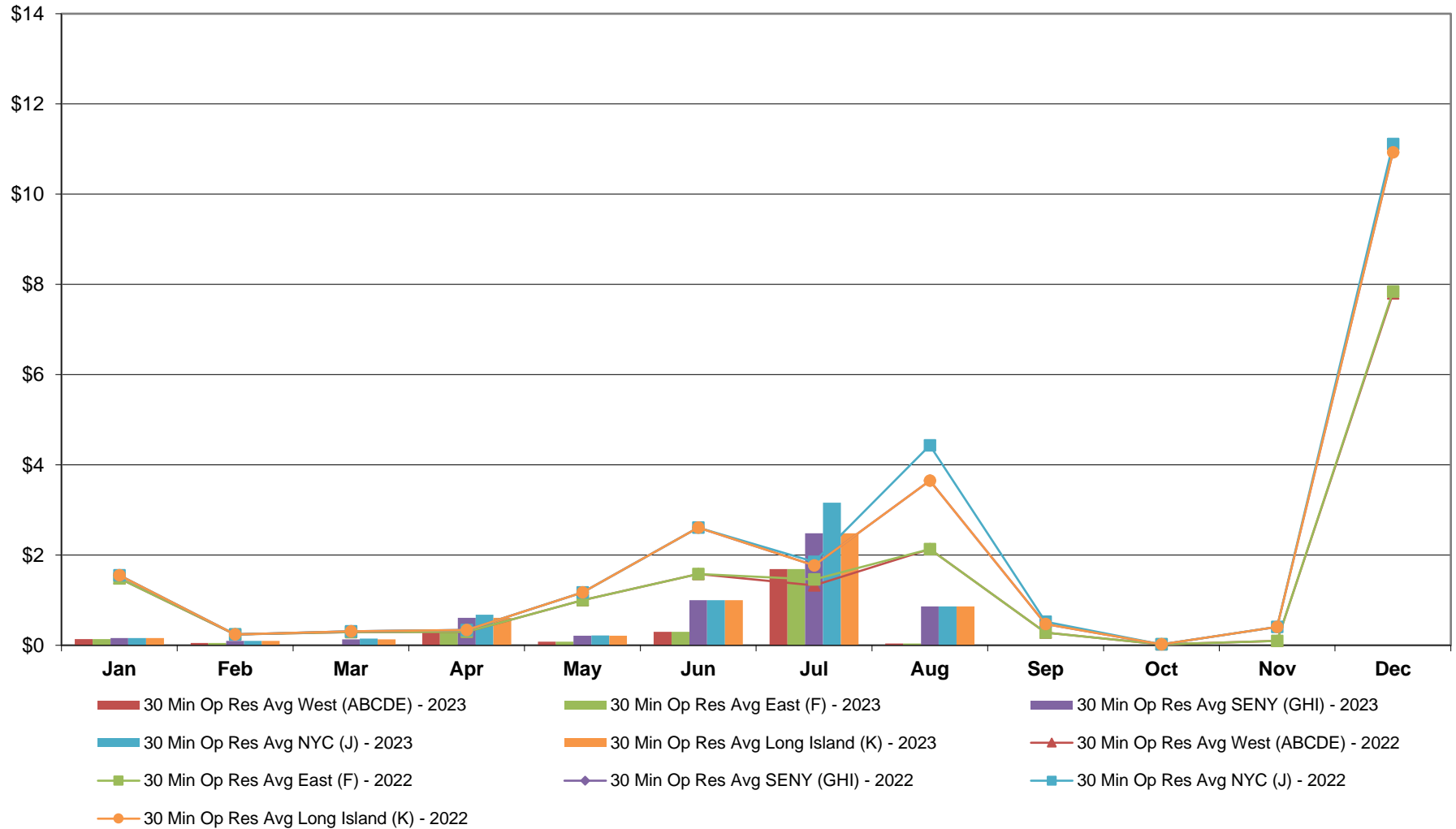
**NYISO Monthly Average Ancillary Service Prices  
RTC Market - 10 Min Spin 2022 - 2023**



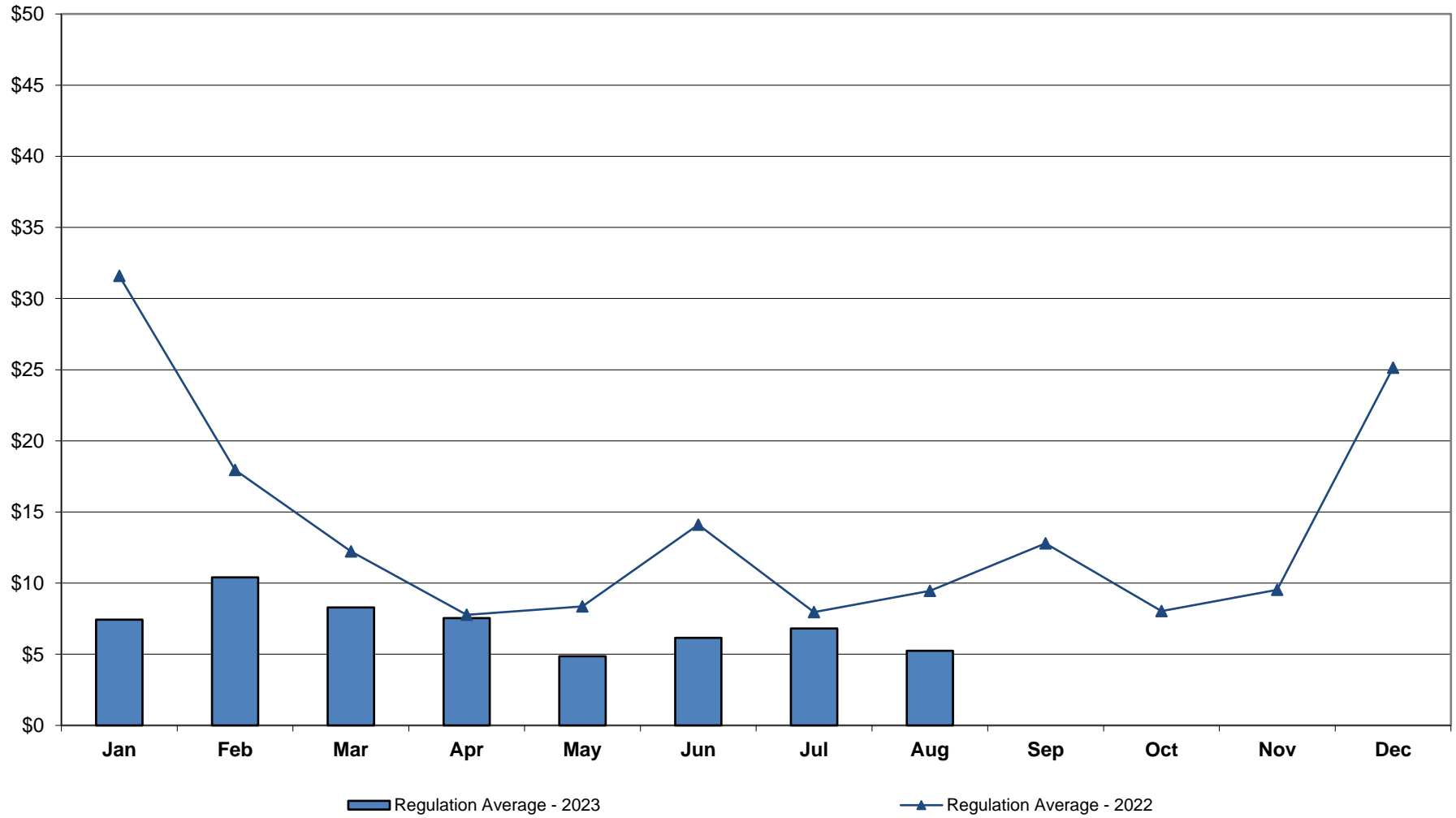
**NYISO Monthly Average Ancillary Service Prices  
RTC Market - 10 Min Non-Synch 2022 - 2023**



**NYISO Monthly Average Ancillary Service Prices  
RTC Market - 30 Min Op Res 2022 - 2023**

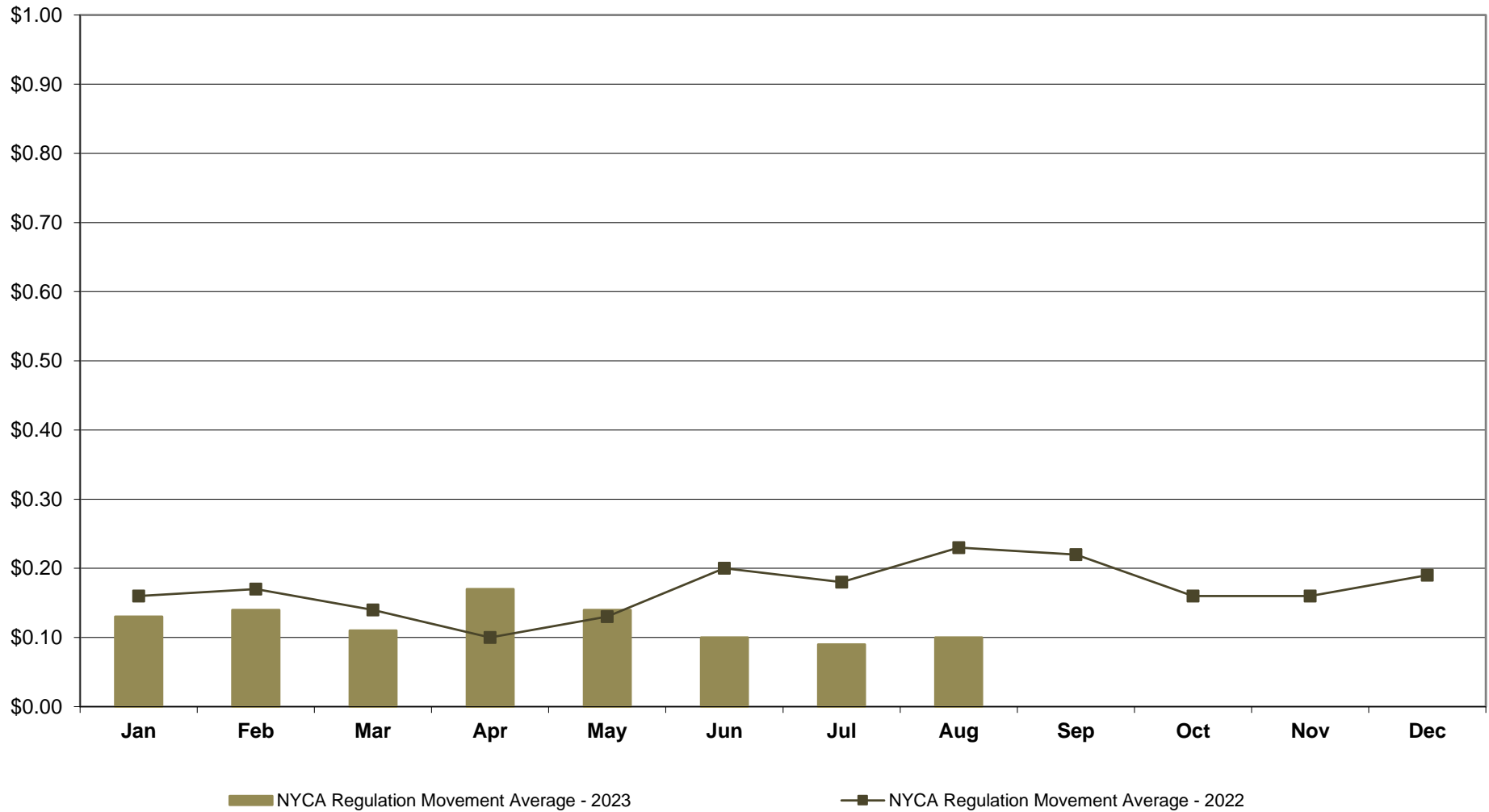


**NYISO Monthly Average Ancillary Service Prices  
RTC Market - Regulation 2022 - 2023**

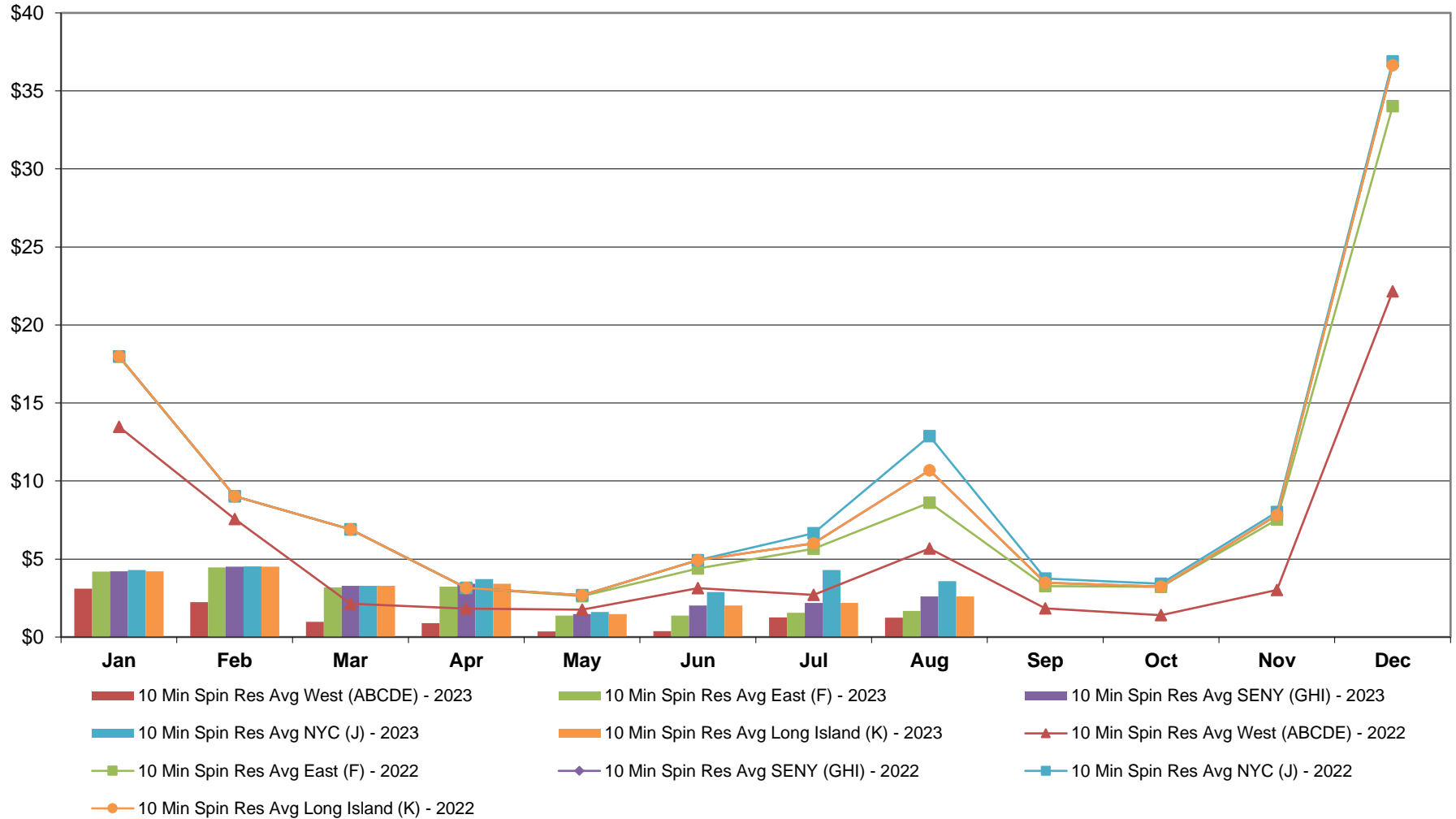




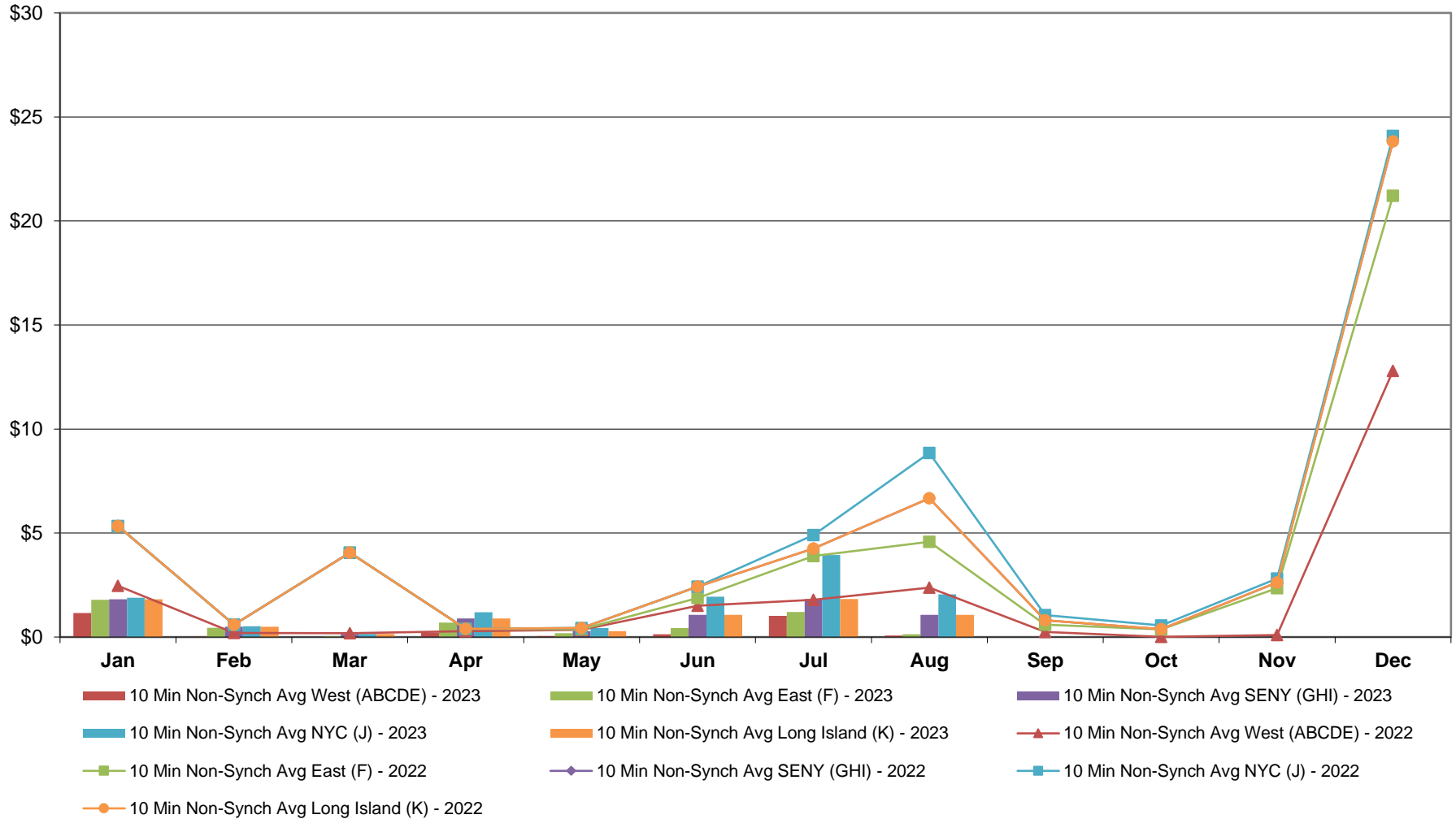
**NYISO Monthly Average Ancillary Service Prices  
RTC Market - Regulation Movement 2022 - 2023**



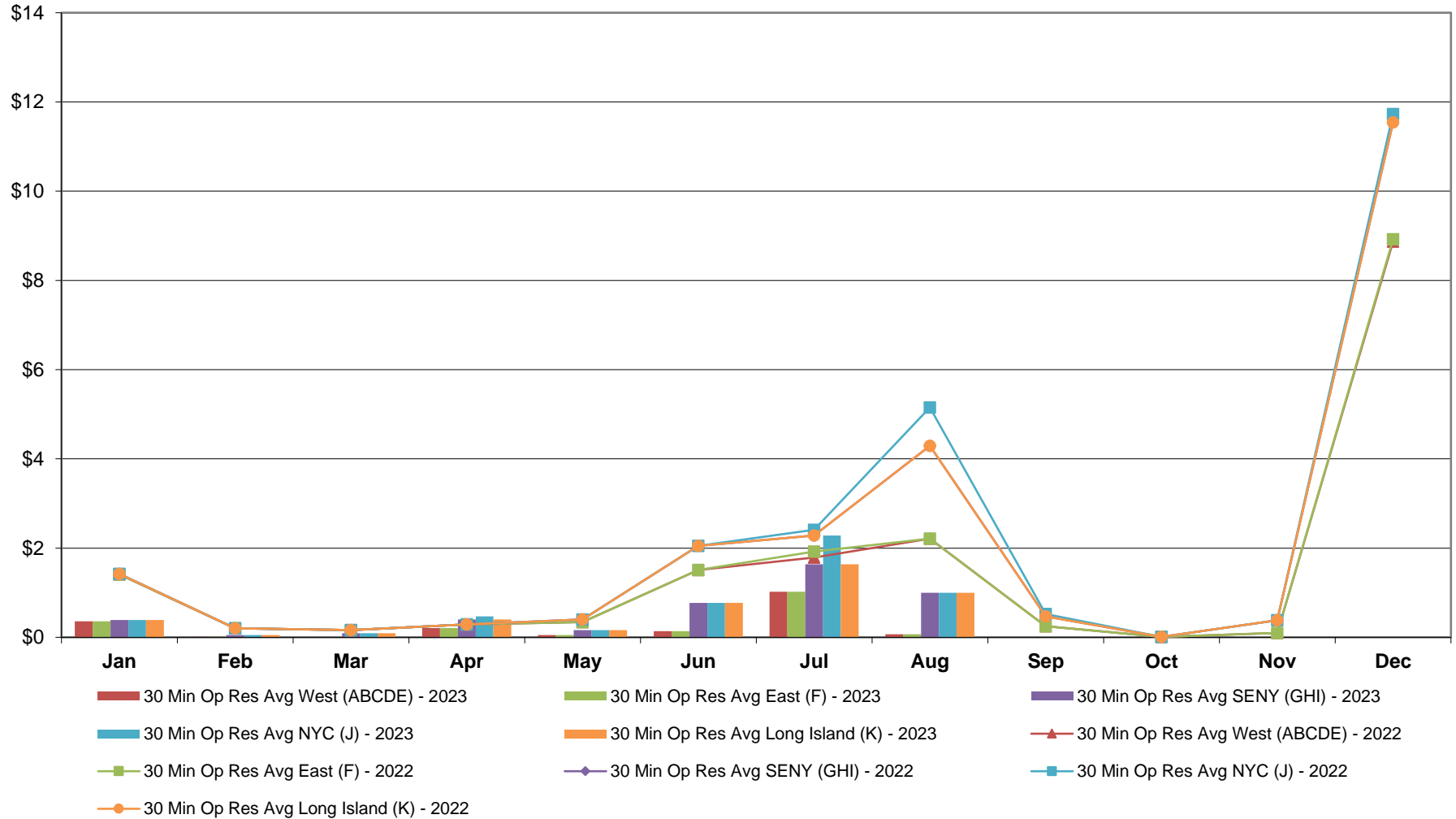
### NYISO Monthly Average Ancillary Service Prices Real Time Market - 10 Min Spin 2022 - 2023



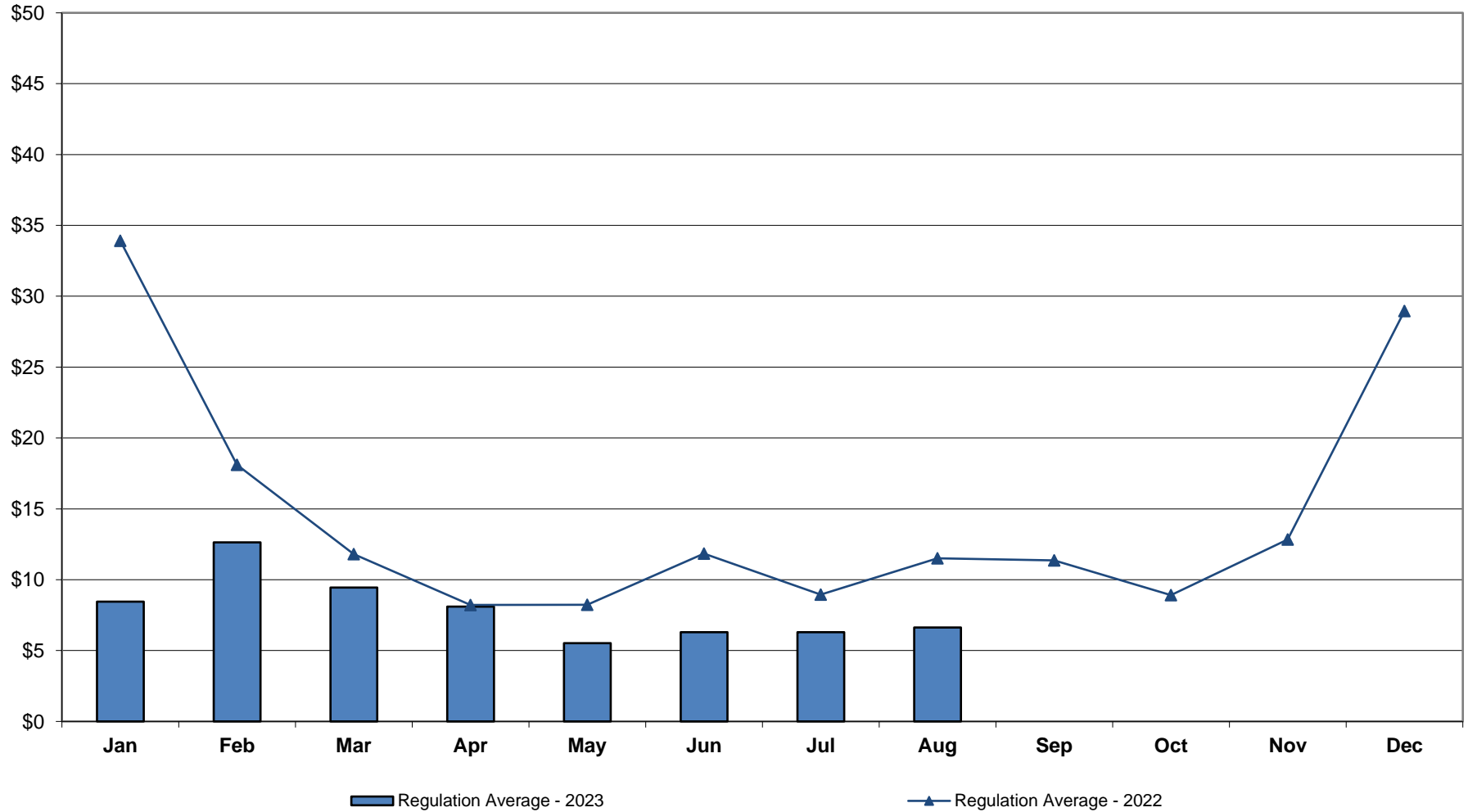
**NYISO Monthly Average Ancillary Service Prices  
Real Time Market - 10 Min Non-Synch 2022 - 2023**



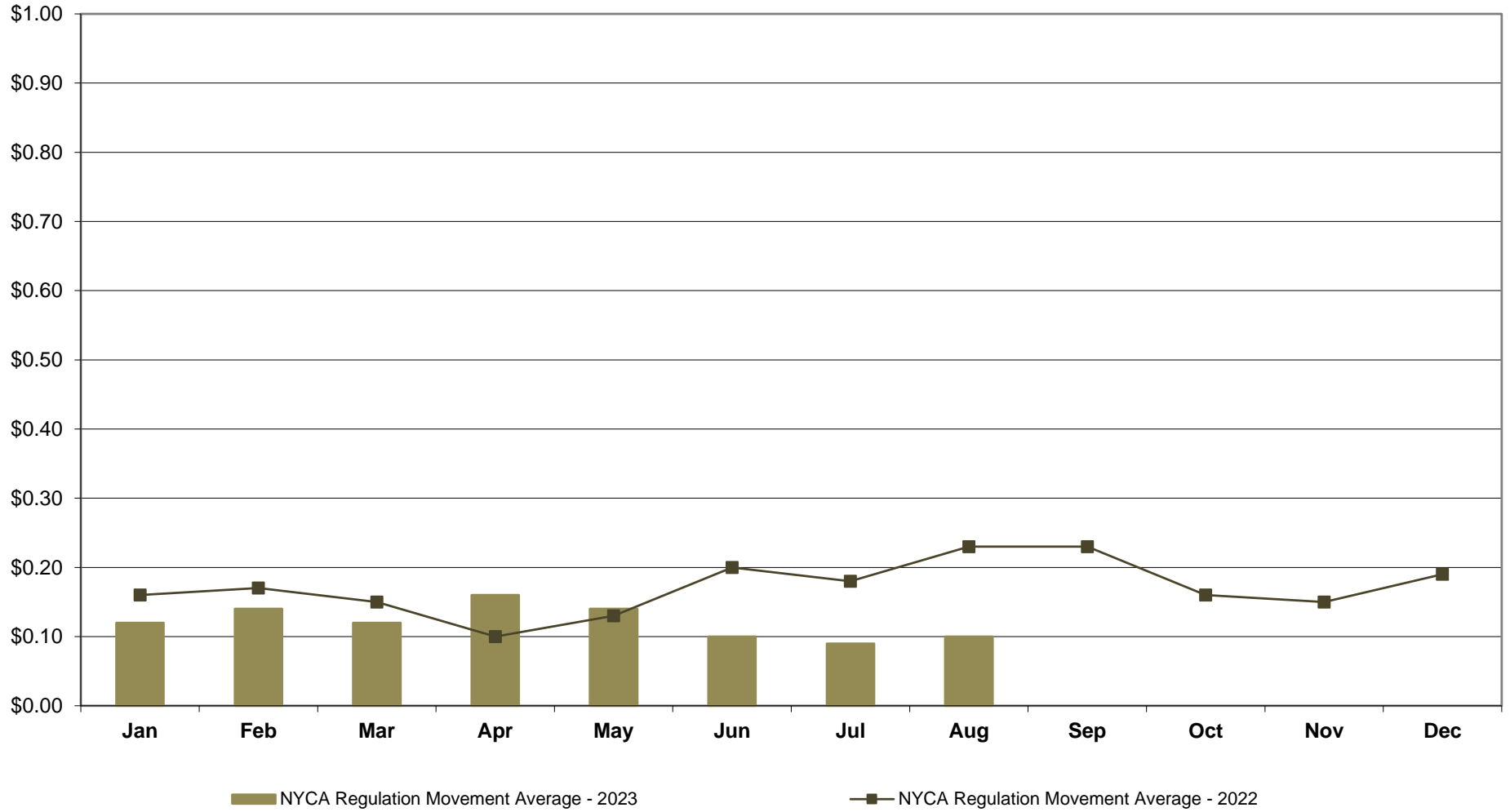
### NYISO Monthly Average Ancillary Service Prices Real Time Market - 30 Min Op Res 2022 - 2023



**NYISO Monthly Average Ancillary Service Prices  
Real Time Market - Regulation 2022 - 2023**



**NYISO Monthly Average Ancillary Service Prices  
Real Time Market - Regulation Movement 2022 - 2023**



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

<u>2023</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>
<b>Day Ahead Market</b>												
10 Min Spin Long Island (K)	6.60	8.46	7.31	7.07	5.74	5.29	6.56	4.89				
10 Min Spin NYC (J)	6.63	8.68	7.38	7.20	5.81	6.37	9.18	5.68				
10 Min Spin SENEY (GHI)	6.60	8.46	7.31	7.07	5.74	5.29	6.56	4.89				
10 Min Spin East (F)	6.56	8.06	7.07	6.73	5.30	4.87	6.25	4.70				
10 Min Spin West (ABCDE)	5.41	6.73	4.45	4.67	4.29	4.27	5.34	3.87				
10 Min Non Synch Long Island (K)	5.16	6.22	4.72	5.02	4.97	4.71	6.40	4.24				
10 Min Non Synch NYC (J)	5.18	6.44	4.79	5.15	5.04	5.79	9.03	5.03				
10 Min Non Synch SENEY (GHI)	5.16	6.22	4.72	5.02	4.97	4.71	6.40	4.24				
10 Min Non Synch East (F)	5.12	5.82	4.48	4.68	4.52	4.28	6.10	4.06				
10 Min Non Synch West (ABCDE)	5.11	5.62	4.42	4.49	4.16	4.09	5.30	3.71				
30 Min Long Island (K)	5.15	6.02	4.65	4.83	4.61	4.51	5.59	3.90				
30 Min NYC (J)	5.15	6.14	4.70	4.95	4.61	4.59	6.70	3.91				
30 Min SENEY (GHI)	5.15	6.02	4.65	4.83	4.61	4.51	5.59	3.90				
30 Min East (F)	5.11	5.62	4.42	4.49	4.16	4.09	5.28	3.71				
30 Min West (ABCDE)	5.11	5.62	4.42	4.49	4.16	4.09	5.28	3.71				
Regulation	7.82	11.71	9.65	9.88	7.36	6.37	8.66	6.79				
<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>
<b>Day Ahead Market</b>												
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
10 Min Spin NYC (J)	15.32	12.52	7.29	6.80	7.01	6.12	11.61	10.41	7.81	9.10	8.31	16.08
10 Min Spin SENEY (GHI)	14.40	11.34	6.76	6.79	6.32	5.88	7.92	8.10	7.22	8.57	7.57	15.69
10 Min Spin East (F)	14.37	11.30	6.74	6.70	6.28	5.87	7.68	7.88	7.07	8.49	7.10	15.51
10 Min Spin West (ABCDE)	12.74	8.93	5.48	5.01	4.34	4.99	5.91	5.53	5.84	6.11	5.20	12.39
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	6.41	6.01	7.90
10 Min Non Synch NYC (J)	10.61	10.66	6.20	4.89	5.38	5.07	10.93	8.44	6.25	6.94	6.74	8.29
10 Min Non Synch SENEY (GHI)	9.70	9.48	5.68	4.87	4.68	4.83	7.24	6.13	5.65	6.41	6.01	7.90
10 Min Non Synch East (F)	9.66	9.44	5.66	4.78	4.64	4.82	7.00	5.90	5.51	6.32	5.53	7.72
10 Min Non Synch West (ABCDE)	8.88	7.35	4.66	4.50	4.15	4.60	5.69	5.16	5.08	5.15	4.92	7.05
30 Min Long Island (K)	8.92	7.40	4.67	4.59	4.19	4.61	5.93	5.36	5.22	5.23	5.40	7.23
30 Min NYC (J)	8.95	7.42	4.67	4.59	4.21	4.61	6.18	5.46	5.22	5.23	5.64	7.27
30 Min SENEY (GHI)	8.92	7.40	4.67	4.59	4.19	4.61	5.93	5.36	5.22	5.23	5.40	7.23
30 Min East (F)	8.88	7.35	4.66	4.50	4.15	4.60	5.69	5.13	5.08	5.15	4.92	7.05
30 Min West (ABCDE)	8.88	7.35	4.66	4.50	4.15	4.60	5.69	5.13	5.08	5.15	4.92	7.05
Regulation	35.17	19.48	12.56	8.94	10.61	11.49	11.96	12.58	12.68	11.31	11.72	18.51

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

<b><u>2023</u></b>	<b><u>January</u></b>	<b><u>February</u></b>	<b><u>March</u></b>	<b><u>April</u></b>	<b><u>May</u></b>	<b><u>June</u></b>	<b><u>July</u></b>	<b><u>August</u></b>	<b><u>September</u></b>	<b><u>October</u></b>	<b><u>November</u></b>	<b><u>December</u></b>
<b><u>RTC Market</u></b>												
10 Min Spin Long Island (K)	2.22	2.19	1.79	2.55	0.95	1.66	2.80	1.29				
10 Min Spin NYC (J)	2.26	2.21	1.83	2.84	1.07	2.60	4.96	2.35				
10 Min Spin SENEY (GHI)	2.22	2.19	1.79	2.55	0.95	1.66	2.80	1.29				
10 Min Spin East (F)	2.21	2.15	1.67	2.23	0.82	0.96	2.00	0.47				
10 Min Spin West (ABCDE)	1.57	0.56	0.30	0.67	0.17	0.36	1.75	0.08				
10 Min Non Synch Long Island (K)	0.86	0.26	0.14	0.65	0.27	1.07	2.63	0.97				
10 Min Non Synch NYC (J)	0.89	0.27	0.18	0.95	0.39	2.01	4.79	2.03				
10 Min Non Synch SENEY (GHI)	0.86	0.26	0.14	0.65	0.27	1.07	2.63	0.97				
10 Min Non Synch East (F)	0.85	0.22	0.02	0.34	0.14	0.37	1.83	0.15				
10 Min Non Synch West (ABCDE)	0.54	0.05	0.00	0.29	0.08	0.30	1.69	0.04				
30 Min Long Island (K)	0.16	0.10	0.13	0.61	0.21	1.00	2.48	0.86				
30 Min NYC (J)	0.16	0.10	0.15	0.68	0.22	1.00	3.16	0.86				
30 Min SENEY (GHI)	0.16	0.10	0.13	0.61	0.21	1.00	2.48	0.86				
30 Min East (F)	0.14	0.05	0.00	0.29	0.08	0.30	1.69	0.04				
30 Min West (ABCDE)	0.14	0.05	0.00	0.29	0.08	0.30	1.69	0.04				
Regulation	7.44	10.40	8.29	7.55	4.86	6.16	6.81	5.25				
NYCA Regulation Movement	0.13	0.14	0.11	0.17	0.14	0.10	0.09	0.10				
<b><u>2022</u></b>												
<b><u>RTC Market</u></b>												
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 SENEY (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 SENEY (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 SENEY (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

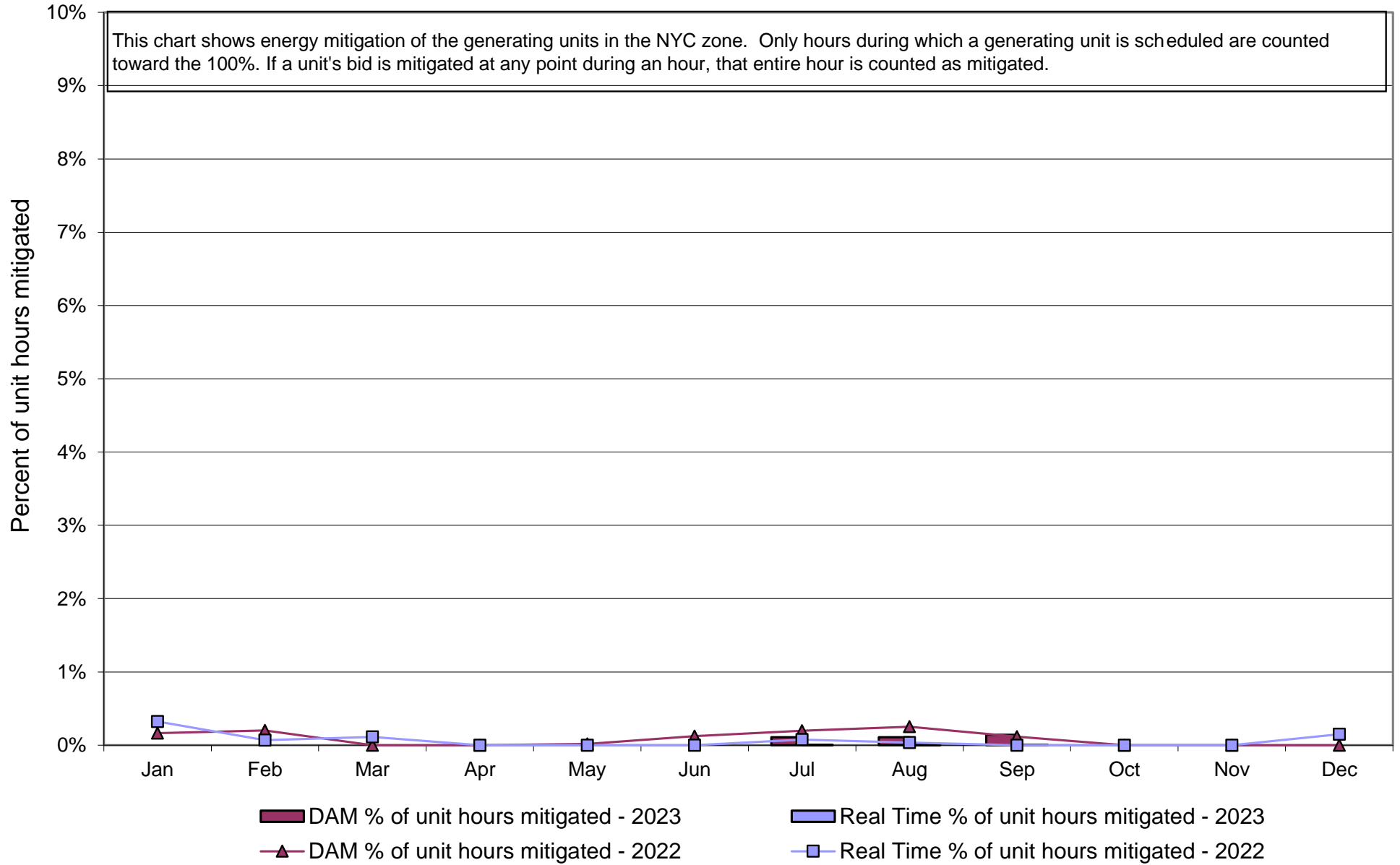


## NYISO Markets Ancillary Services Statistics - Unweighted Price (\$/MWH) - RT

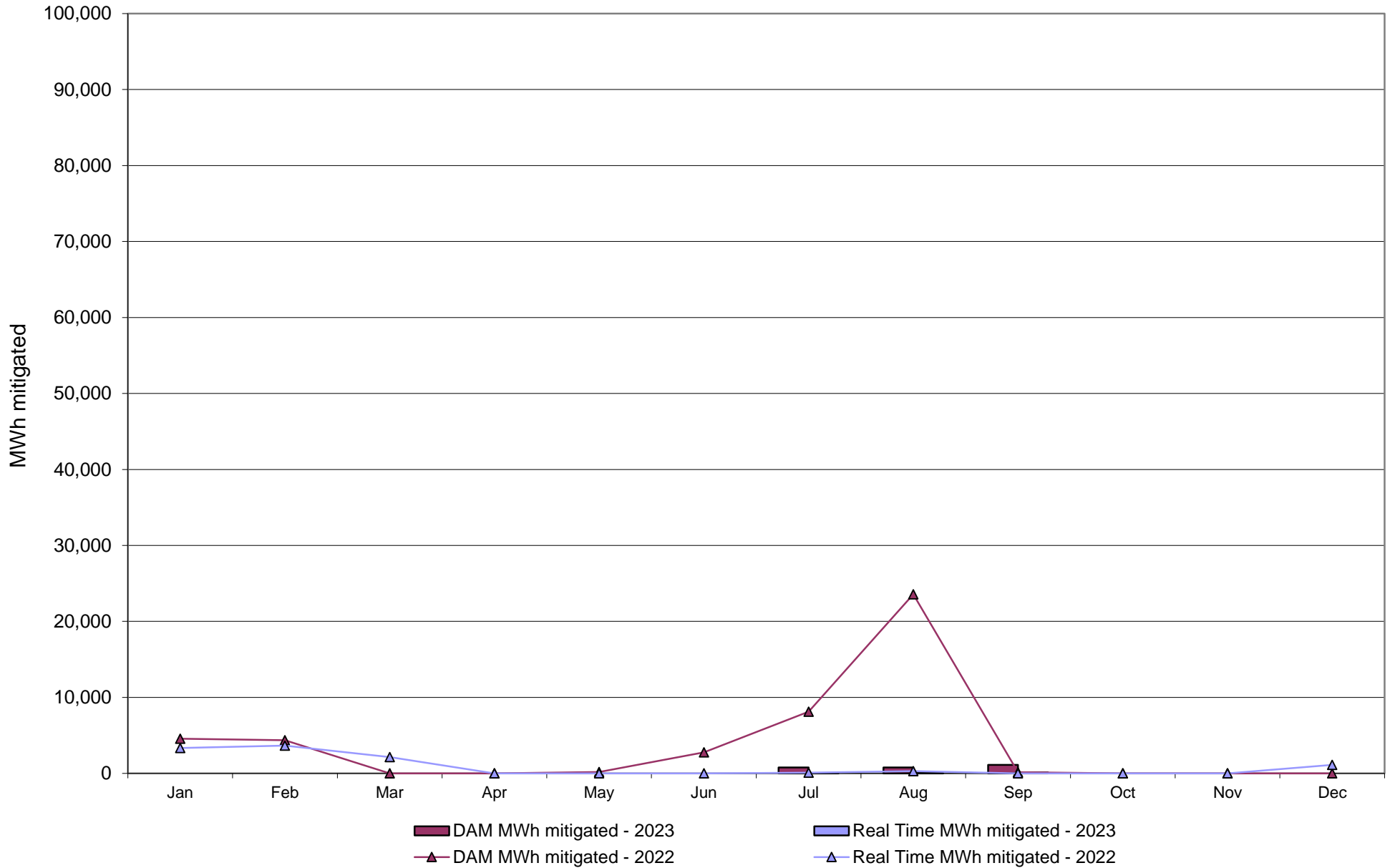
<b>2023</b>	<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	<u>September</u>	<u>October</u>	<u>November</u>	<u>December</u>
<b>Real Time Market</b>												
10 Min Spin Long Island (K)	4.22	4.51	3.28	3.42	1.48	2.02	2.18	2.60				
10 Min Spin NYC (J)	4.30	4.53	3.28	3.72	1.61	2.89	4.30	3.58				
10 Min Spin SENEY (GHI)	4.22	4.51	3.28	3.42	1.48	2.02	2.18	2.60				
10 Min Spin East (F)	4.20	4.46	3.19	3.23	1.37	1.38	1.56	1.67				
10 Min Spin West (ABCDE)	3.10	2.24	0.97	0.89	0.36	0.38	1.26	1.24				
10 Min Non Synch Long Island (K)	1.81	0.50	0.15	0.89	0.29	1.07	1.83	1.07				
10 Min Non Synch NYC (J)	1.89	0.52	0.15	1.19	0.43	1.94	3.95	2.05				
10 Min Non Synch SENEY (GHI)	1.81	0.50	0.15	0.89	0.29	1.07	1.83	1.07				
10 Min Non Synch East (F)	1.79	0.45	0.05	0.70	0.19	0.43	1.21	0.14				
10 Min Non Synch West (ABCDE)	1.15	0.01	0.00	0.21	0.05	0.14	1.02	0.07				
30 Min Long Island (K)	0.39	0.05	0.09	0.40	0.16	0.77	1.64	1.00				
30 Min NYC (J)	0.39	0.05	0.09	0.47	0.16	0.77	2.28	1.00				
30 Min SENEY (GHI)	0.39	0.05	0.09	0.40	0.16	0.77	1.64	1.00				
30 Min East (F)	0.36	0.01	0.00	0.21	0.05	0.14	1.02	0.07				
30 Min West (ABCDE)	0.36	0.01	0.00	0.21	0.05	0.14	1.02	0.07				
Regulation	8.46	12.64	9.44	8.10	5.52	6.30	6.30	6.62				
NYCA Regulation Movement	0.12	0.14	0.12	0.16	0.14	0.10	0.09	0.10				
<b>2022</b>	<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>
<b>Real Time Market</b>												
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 SENEY (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 SENEY (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 SENEY (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

## NYISO In City Energy Mitigation - AMP (NYC Zone) 2022 - 2023

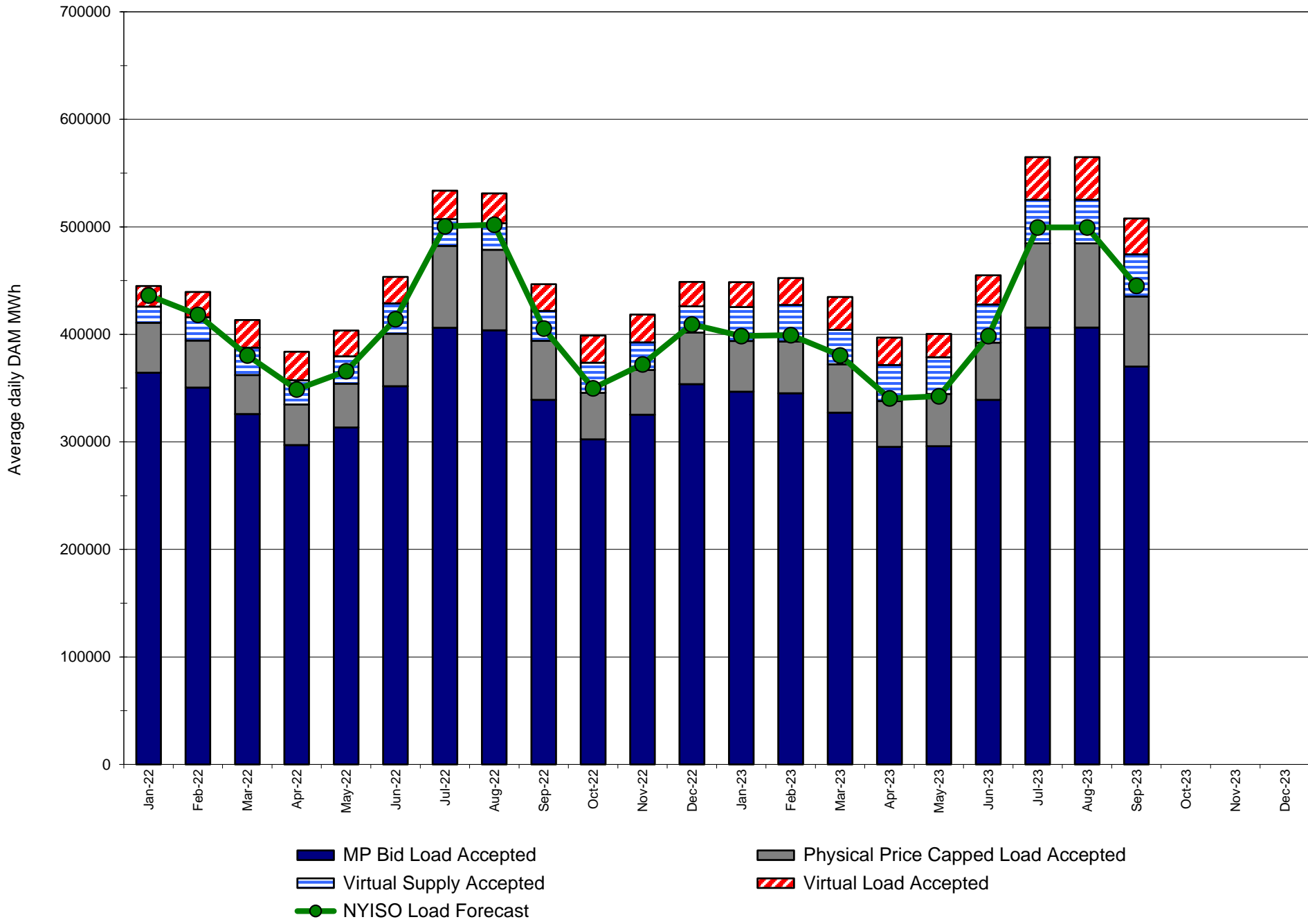
### Percentage of committed unit-hours mitigated



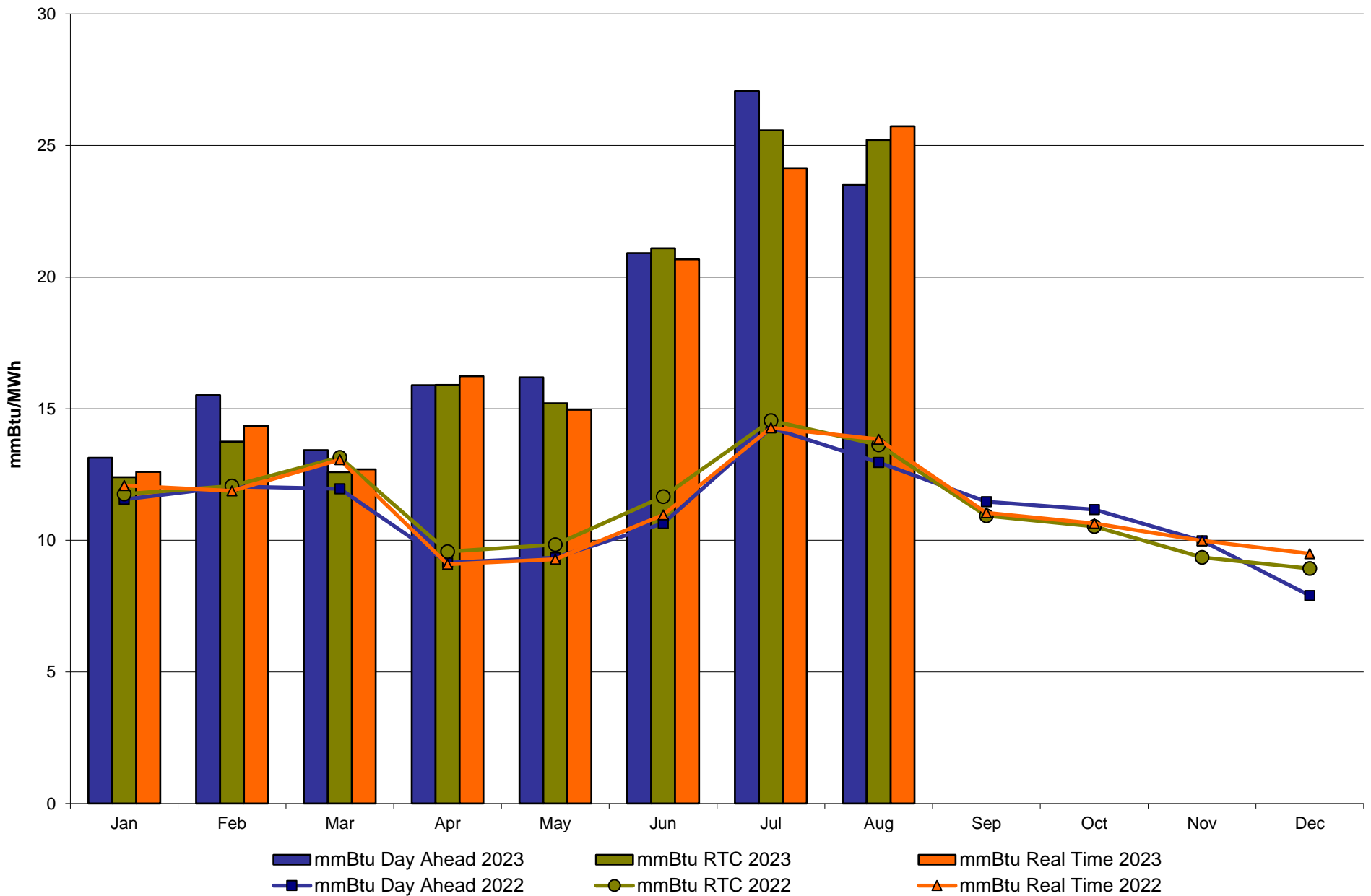
**NYISO In City Energy Mitigation (NYC Zone) 2022 - 2023  
Monthly megawatt hours mitigated**



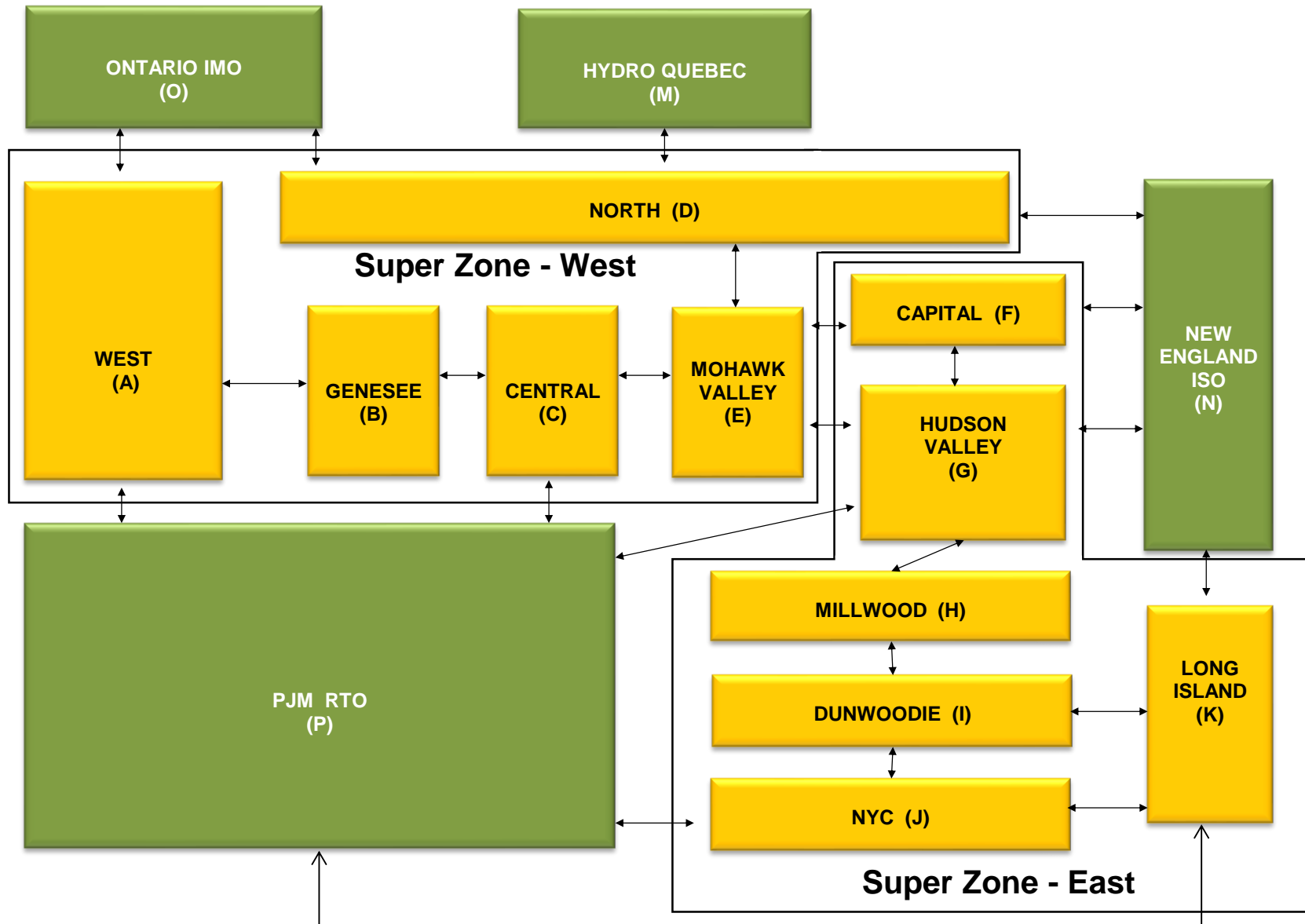
# NYISO Average Daily DAM Load Bid Summary



## Monthly Implied Heat Rate 2022-2023



# NYISO LBMP ZONES



**Billing Codes for Chart C**

<b><u>Chart - C Category Name</u></b>	<b><u>Billing Code</u></b>	<b><u>Billing Category Name</u></b>
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 Upcoming Regulatory Compliance Filings, Recently Submitted Filings and Issued Orders on NYISO Matters

### Upcoming Compliance Filings

Filing Due Date	Upcoming Compliance Filings (Description)	Docket Number
10/20/2023	FERC Order 2222-related informational filing in compliance with FERC's April 20, 2023 Order, to update FERC on the progress of the NYISO's stakeholder process and compliance with the ancillary services directive in FERC's June 17, 2022 Order.	ER21-2460-000
10/20/2023	NYISO compliance filing of proposed revisions to the NYISO OATT to implement the directives in FERC's June 15, 2023 final rule requiring RTOs & ISOs to have tariff provisions that permit credit related information sharing in organized wholesale electric markets.	RM22-13-000

### Recently Issued Orders

Filing Date	Filing Summary (Order Issued)	Order Date	Order Summary	Docket Number
9/13/2022	NYISO compliance filing on behalf of the New York Transmission Owners to address technical corrections to proposed tariff revisions regarding CLCPA cost recovery and allocation.	9/14/2023	FERC letter order accepted the proposed revisions as filed, effective August 22, 2022, as requested.	ER22-2154-001
6/1/2023	NYISO Petition to the NY PSC to incur indebtedness in excess of 12 months, for approval of NYISO's 2024-2028 revolving line of credit and 2024-2028 budget facility.	9/14/2023	PSC order granted authorization to incur indebtedness.	PSC Case No. 23-E-0293
7/20/2023	NYISO-NMPC Joint Section 205 filing of a Small Generator Interconnection Agreement among NYISO, National Grid, and SunEast Flat Hill Solar LLC for the Flat Hill Solar Project (SA 2777).	9/15/2023	FERC Order accepted the Agreement as filed, effective July 6, 2023, as requested.	ER23-2453-000
7/20/2023	NYISO-National Grid Joint Section 205 filing of an executed Small Generator Interconnection Agreement among NYISO, National Grid, and SunEast Grassy Knoll Solar for the Grassy Knoll Solar Project (SA2778).	9/15/2023	FERC Order accepted the Agreement as filed, effective July 6, 2023, as requested.	ER23-2454-000



## Recently Submitted Filings

Filing Date	Filing Summary	Docket Number
9/1/2023	Errata to NYISO's May 1, 2023 compliance filing to incorporate by reference North American Energy Standards Board Wholesale Electric Quadrant standards required by FERC's Order 676-J, and to request waivers of certain standards.	ER23-1783-001
9/6/2023	NYISO Notice of Termination of Astral Energy, LLC from the ISO-Administered Markets.	No Docket
9/7/2023	Joint NYISO-New York State Electric and Gas Corporation (NYSEG) Section 205 filing of an executed Large Generator Interconnection Agreement among NYISO, NYSEG, and Morris Ridge Solar Energy Center for the Morris Ridge Solar Energy Center project (SA 2790).	ER23-2777-000
9/7/2023	Joint NYISO-New York State Electric and Gas Corporation (NYSEG) Section 205 filing of an Amended and Restated Large Generator Interconnection Agreement among NYISO, NYSEG, and Bluestone Wind for the Bluestone Wind project (SA 2629).	ER23-2776-000
9/15/2023	NYISO Section 205 filing of an executed Large Generator Interconnection Agreement (LGIA) among the NYISO, Long Island Power Authority (LIPA), and Sunrise Wind LLC for the Sunrise Offshore Wind Project (SA2795). Filing contains CEII.	ER23-2850-000